

PHASE VA

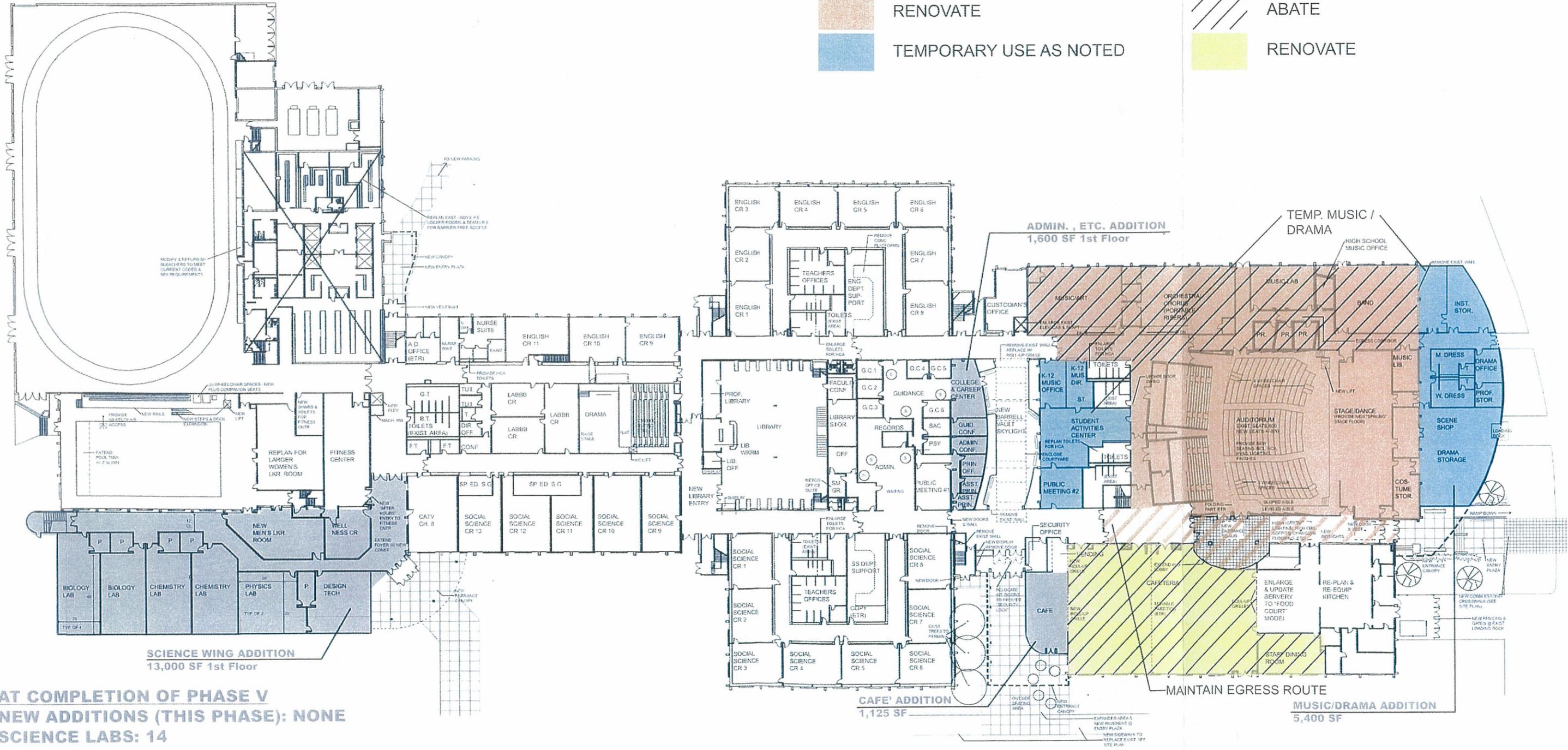
6/20/yr. 4 -- 12/20/yr. 5 (39 wks.)

RENOVATE
 TEMPORARY USE AS NOTED

PHASE VB

6/20/yr. 4 -- 9/1/yr. 4 (10 wks.)

ABATE
 RENOVATE



AT COMPLETION OF PHASE V
NEW ADDITIONS (THIS PHASE): NONE
SCIENCE LABS: 14
STANDARD CLASSROOMS: 44

Belmont High School Master Plan

1st Floor

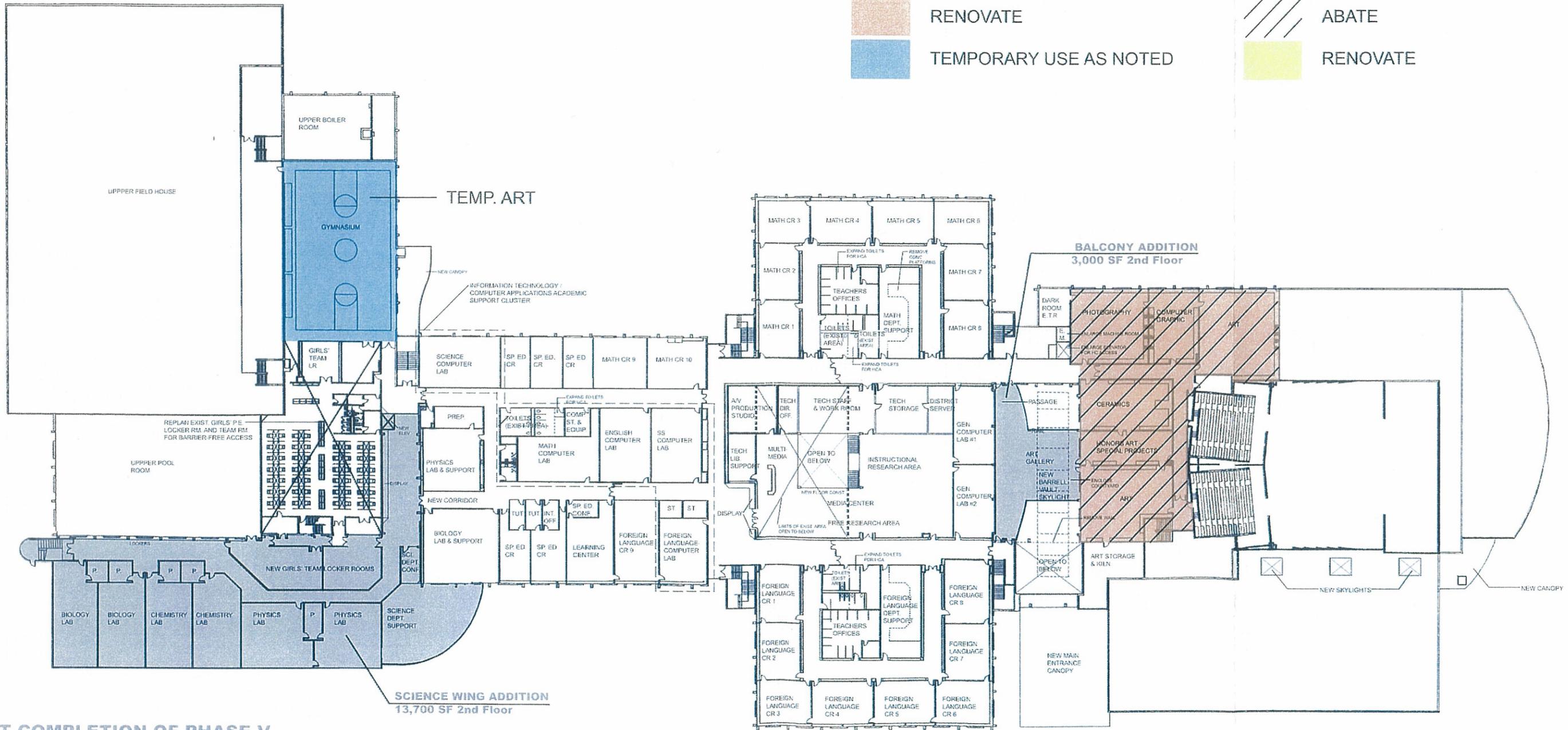
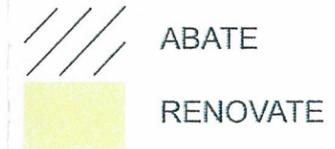
PHASE VA

6/20/yr. 4 -- 12/20/yr. 5 (39 wks.)



PHASE VB

6/20/yr. 4 -- 9/1/yr. 4 (10 wks.)



AT COMPLETION OF PHASE V
NEW ADDITIONS (THIS PHASE): NONE
SCIENCE LABS: 14
STANDARD CLASSROOMS: 44

Belmont High School Master Plan

2nd Floor

Tab 10

SECTION 10

Master Plan and Feasibility Study for Renovations to Belmont High School

PROJECT COST ESTIMATES

I. Introduction

Design Partnership's incremental, step-by-step approach to development of project cost estimates begins with a thorough review of existing conditions. Deficiencies of the present facility are noted, whether these be barrier-free access issues, deteriorated finishes or outdated casework and equipment. The cost to correct the deficiencies is then determined and our first estimate of project cost is compiled, representing the base budget to bring the existing building to a condition approaching that of contemporary new construction and provide several more decades of useful life before another major upgrade is required. This estimate does not take into account any interior reconfiguration, programmatic upgrades or new construction. We term this estimate the "Base Renovation Cost" and, as its name implies, it forms the basis for further cost projections throughout the life of the project. Essentially the same procedure is followed by the consultants who report to us; they are required to explain and justify their results before we incorporate them in our final calculations.

When the concept design for the ultimate Master Plan buildout has been developed and approved by the client, we then are in a position to compile the estimate of total project cost, adding to the Base Renovation Cost the cost of construction and demolition within the existing building, and the resulting refit of these areas in response to approved expansion of programs and amenities. Also included is the cost of all new construction indicated by the Master Plan.

Our completed project cost estimate contains the basic trade costs for all construction work – existing and new are listed separately - and all general contractor markups, including a factor recognizing the premium cost of working within an occupied building. The total general contractor cost is then escalated to reflect a construction start in March 2008. In order to reflect the uncertainty of the bidding climate when the project actually "hits the street" (materials shortages, competition from other, similar work, etc.) a further bidding and "market factor" contingency is factored in. Finally, a construction contingency account reflects the uncertainty inherent in working within existing construction, where unforeseen conditions are often encountered, resulting in change orders to the contract during the construction process. To these "hard" project costs, we have added an estimate of project "soft" costs including, for example, costs of design, of construction management and of materials testing.

Primary project cost estimates have been developed for two different Master Plan implementation strategies. The first presumes the entire project will be bid at one time

and a single general contractor will be selected to do the work in a continuous 4-plus-year sequence according to the phasing plan. The second strategy assumes the project segments (the phases) will be done by (probably) separate contractors based on separate bid packages at intervals of approximately 2 years. As is easily comprehended, this second strategy results in a much longer project duration – approaching 10 years total. The longer duration and the fact that costs are not locked in at the front of the contract period as would happen for a single project, creates greatly increased cost escalation for the later project phases and for the overall project. Additionally, it is less efficient in terms of contractor mobilization and demobilization costs. Design and project management fees can also be expected to increase reflecting multiple, smaller projects and business cost increases.

Finally, as a comparison to the cost of the Master Plan's renovation/addition program, DPC was asked to develop the cost of a theoretical new building, assuming it would be built on the playing fields to the west of the Fieldhouse. The existing building would then be demolished and replaced with new fields. In looking into this possibility, it quickly became apparent that a completely new building was not a wise choice since replacement of the Pool and Fieldhouse appeared both unnecessary and not cost effective. (Also, if the project were, at some future date, eligible for State assistance, the State no longer participates in funding these spaces.) Therefore, the theoretical new building cost estimate is based on a facility that would be constructed on the site of the baseball and/or soccer fields and connected to the Pool and Fieldhouse, which would be renovated to remain part of the overall complex.

It is hardly surprising that the estimated costs for these three options range from lowest to highest in the order discussed above. The "one-contractor, continuous project" cost, including all contingencies and an estimate of the major project soft costs, is \$62,328,010, or \$209.90 per square foot, based on the Master Plan floor area of 291,945 square feet for combined new and existing construction plus a new, 5000-square-foot maintenance facility. Cost of the "separate contractors for each phase" strategy, with the work done over an extended time period, totals, for all phases, with the same floor area, \$73,963,945, or \$249.08 per square foot. For the mainly new construction concept, the estimated cost is \$88,569,844, or \$303.39 per square foot. All of these costs presume a spring, 2008 construction contract award. Supporting data for the cost estimates in this Section appear in **Appendix D**.

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL**Conceptual Design Estimate of Project Cost**

rev. 10/15/04

ASSUME SINGLE CONTINUOUS CONSTRUCTION SEQUENCE UNDER SINGLE GENERAL CONTRACTOR

Proposed enrollment 1250 pupils plus 40 LABBB Collaborative

| Building Area – Gross Square Feet | Renovations | New Const. | Total | \$/SF | Source |
|-----------------------------------|-------------|------------|------------|-------|--------|
| | 257,120 SF | 34,825 SF | 291,945 SF | | |

BUILDING TRADE COST

| | | | | | |
|--------------------------------------|--------------|--------------|--------------|---------|------------------|
| General Construction | \$10,365,061 | \$ 3,344,245 | \$13,709,306 | \$46.96 | Essential Design |
| Casework | \$ 490,995 | \$ 840,000 | \$ 1,330,995 | \$ 4.56 | DPC |
| Food Service Equipment | \$ 250,000 | | \$ 250,000 | \$ 0.86 | DPC |
| Fire Protection System | \$ 768,312 | \$ 72,436 | \$ 840,748 | \$ 2.88 | RDK |
| Plumbing Systems | \$ 700,975 | \$ 347,205 | \$ 1,048,000 | \$ 3.59 | RDK |
| HVAC Systems | \$ 4,182,052 | \$ 949,330 | \$ 5,131,382 | \$17.58 | RDK |
| Electrical Systems | \$ 2,325,798 | \$ 666,202 | \$ 2,992,000 | \$10.25 | RDK |
| Voice/Data/Video Infrastructure | \$ 369,731 | \$ 60,944 | \$ 430,675 | \$ 1.48 | DPC |
| Hazardous Materials Abatement | \$ 3,600,000 | | \$ 3,600,000 | \$12.33 | UEC |
| Design contingency included in above | | | | | |

| | | | | | |
|----------------------------------|--------------|--------------|---------------------|--|--|
| TOTAL BUILDING TRADE COST | \$23,052,744 | \$ 6,280,362 | \$29,333,106 | | |
|----------------------------------|--------------|--------------|---------------------|--|--|

SITWORK TRADE COST (incl. Bid Alternates)

| | | | | | |
|-------------------------------|--|--|--------------|--|--|
| Earthwork / Site Improvements | | | \$ 1,571,653 | | |
| Site Utilities | | | \$ 564,500 | | |
| Design Contingency @ 15.0% | | | — \$ 343,058 | | |

| | | | | | |
|---------------------------------|--|--|---------------------|--|--|
| TOTAL SITWORK TRADE COST | | | \$ 2,479,211 | | |
|---------------------------------|--|--|---------------------|--|--|

| | | | | | |
|-------------------------|--|--|---------------------|--|--|
| TOTAL TRADE COST | | | \$31,812,317 | | |
|-------------------------|--|--|---------------------|--|--|

| | | | | | |
|--|--|--|------------|--|--|
| G.C. Expenses for Construction in Occupied Building @ 1.0% | | | \$ 318,123 | | |
|--|--|--|------------|--|--|

| | | | | | |
|--------------------------------|--|--|--------------|--|--|
| G.C. General Conditions @ 7.5% | | | \$ 2,385,924 | | |
|--------------------------------|--|--|--------------|--|--|

| | | | | | |
|---------------------------------|--|--|--------------|--|--|
| G.C. Overhead and Profit @ 5.5% | | | \$ 1,749,677 | | |
|---------------------------------|--|--|--------------|--|--|

| | | | | | |
|--|--|--|---------------------|--|--|
| SUBTOTAL GENERAL CONTRACTOR COST (9/04 DOLLARS) | | | \$36,266,041 | | |
|--|--|--|---------------------|--|--|

| | | | | | |
|---|--|--|--------------|--|--|
| Escalation @ 5.0% per year to March '08 = 17.5% | | | \$ 6,346,557 | | |
|---|--|--|--------------|--|--|

| | | | | | |
|--------------------------------------|--|--|---------------------|--|--|
| TOTAL GENERAL CONTRACTOR COST | | | \$42,612,598 | | |
|--------------------------------------|--|--|---------------------|--|--|

| | | | | | |
|----------------------------|--|--|--------------|--|--|
| Bidding Contingency @ 3.0% | | | \$ 1,278,378 | | |
|----------------------------|--|--|--------------|--|--|

| | | | | | |
|---------------------------------|--|--|--------------|--|--|
| Short-term Market Factor @ 5.8% | | | \$ 2,471,531 | | |
|---------------------------------|--|--|--------------|--|--|

| | | | | | |
|--|--|--|---------------------|--|--|
| TOTAL ESTIMATED BID FOR HIGH SCHOOL | | | \$46,362,507 | | |
|--|--|--|---------------------|--|--|

| | | | | | |
|---|--|--|-------------------|--|--|
| TOTAL ESTIMATED BID FOR MAINTENANCE FACILITY | | | \$ 856,693 | | |
|---|--|--|-------------------|--|--|

| | | | | | |
|----------------------------------|--|--|--------------|--|--|
| Construction Contingency @ 10.0% | | | \$ 4,791,920 | | |
|----------------------------------|--|--|--------------|--|--|

| | | | | | |
|---|--|--|---------------------|--|--|
| TOTAL ESTIMATED CONSTRUCTION COST (TECC) | | | \$51,941,120 | | |
|---|--|--|---------------------|--|--|

NON-CONSTRUCTION COSTS:**FURNITURE, FIXTURES AND EQUIPMENT**

| | | | | | |
|------------------------------------|--|--|--------------|--|--|
| 1290 students @ \$1650 per student | | | \$ 2,128,500 | | |
|------------------------------------|--|--|--------------|--|--|

EDUCATIONAL TECHNOLOGY

| | | | | | |
|---|--|--|--------------|--|--|
| 1290 students @ \$1175 per student (infrastructure carried in Trade Cost) | | | \$ 1,515,750 | | |
|---|--|--|--------------|--|--|

ARCHITECTURAL/ENGINEERING SERVICES

| | | | | | |
|--|--|--|--------------|--|--|
| Programming, Design and Construction Admin. Services @ 10.0% of TECC | | | \$ 5,194,112 | | |
|--|--|--|--------------|--|--|

OTHER COSTS

| | | | | | |
|--|--|--|--------------|--|--|
| Construction Management @ 2.5% of TECC | | | \$ 1,298,528 | | |
|--|--|--|--------------|--|--|

| | | | | | |
|-------------------------------------|--|--|------------|--|--|
| Construction Testing and Monitoring | | | \$ 200,000 | | |
|-------------------------------------|--|--|------------|--|--|

| | | | | | |
|----------------|--|--|-----------|--|--|
| Legal Services | | | \$ 50,000 | | |
|----------------|--|--|-----------|--|--|

| | | | | | |
|--|--|--|-----------|--|--|
| Printing and Distribution of Bid Documents | | | \$ 25,000 | | |
|--|--|--|-----------|--|--|

| | | | | | |
|-------------------------------------|--|--|---------------------|--|--|
| TOTAL ESTIMATED PROJECT COST | | | \$62,353,010 | | |
|-------------------------------------|--|--|---------------------|--|--|

Not included in Total Project Cost: bonding costs, permit fees, commissioning, utility backcharges, Building Committee costs.

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 9/14/04
ASSUME SEPARATE PROJECT PHASES DONE NON-SEQUENTIALLY BY
SEPARATE CONTRACTORS

Assumptions:

1. Mobilization and demobilization for each phase average 2% of General Contractor cost for that phase.
2. Average 5.0% project cost escalation per year.
3. Two year lapse between bid date of each phase.

TOTAL PROJECT COST TABULATION

| | |
|-------------------------------|-----------------------------|
| PHASE IA AND IB | \$ 18,822,786 |
| PHASE IIA AND IIB | \$ 17,178,864 |
| PHASE IIIA AND IIIB | \$ 10,912,099 |
| PHASE IVA AND IVB | \$ 15,803,714 |
| <u>PHASE VA AND VB</u> | <u>\$ 11,246,482</u> |
| TOTAL ALL PHASES | \$ 73,963,945 |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 9/14/04
ASSUME SEPARATE PROJECT PHASES DONE NON-SEQUENTIALLY BY
SEPARATE CONTRACTORS

Assumptions:

1. Mobilization and demobilization costs for each phase average 2% of General Contractor Cost for that phase.
2. Average 5.0% project cost escalation per year.
3. Two year lapse between bid date of each phase.

PHASE IA AND IB

BUILDING TRADE COST

| | |
|----------------------------------|---------------------|
| General Construction | \$ 3,736,786 |
| Casework | \$ 750,000 |
| Food Service Equipment | \$ 0 |
| MEFPF | \$ 2,794,957 |
| VDV Infrastructure | \$ 121,926 |
| <u>Hazmat Abatement</u> | <u>\$ 665,000</u> |
| TOTAL BUILDING TRADE COST | \$ 8,068,669 |

SITWORK TRADE COST

| | |
|--|----------------------|
| TOTAL TRADE COST | \$ 744,594 |
| General Contractor Markup | \$ 8,813,263 |
| | x 1.16 |
| GENERAL CONTRACTOR COST | \$ 10,233,385 |
| Escalation | x 1.175 |
| | \$ 12,012,477 |
| Bid Contingency & Market Factor | x 1.088 |
| TOTAL ESTIMATED BID, HS PROJECT | \$ 13,069,574 |
| TOTAL ESTIMATED BID, MAINTENANCE FACILITY | \$ 856,693 |
| TOTAL ESTIMATED COMBINED PROJECT BID | \$ 13,926,267 |
| <u>Construction Contingency</u> | <u>x 1.10</u> |
| TOTAL ESTIMATED CONSTRUCTION COST | \$ 15,318,893 |

NON-CONSTRUCTION COSTS

| | |
|-------------------------------------|----------------------|
| F,F&E, HS | \$ 595,980 |
| F,F&E, Maintenance Facility | \$ 85,669 |
| Ed. Tech, HS. | \$ 424,410 |
| A/E Design Fees, Combined Project | \$ 1,838,267 |
| Construction Management Fees | \$ 459,567 |
| <u>Miscellaneous</u> | <u>\$ 100,000</u> |
| TOTAL ESTIMATED PROJECT COST | \$ 18,822,786 |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 9/14/04
ASSUME SEPARATE PROJECT PHASES DONE NON-SEQUENTIALLY BY
SEPARATE CONTRACTORS

Assumptions:

1. Mobilization and demobilization costs for each phase average 2% of General Contractor Cost for that phase.
2. Average 5.0% project cost escalation per year.
3. Two year lapse between bid date of each phase.

PHASE IIA AND IIB

BUILDING TRADE COST

| | |
|----------------------------------|---------------------|
| General Construction | \$ 3,865,321 |
| Casework | \$ 104,130 |
| Food Service Equipment | \$ 250,000 |
| MEFPF | \$ 2,474,315 |
| VDV Infrastructure | \$ 80,990 |
| Hazmat Abatement | \$ 774,300 |
| TOTAL BUILDING TRADE COST | \$ 7,549,056 |

SITWORK TRADE COST

| | |
|--------------------------------|----------------------|
| TOTAL TRADE COST | \$ 599,969 |
| General Contractor Markup | x 1.16 |
| GENERAL CONTRACTOR COST | \$ 9,453,964 |
| Escalation | x 1.275 |
| | \$ 12,053,804 |

Bid Contingency & Market Factor

| | |
|----------------------------|----------------------|
| | x 1.088 |
| TOTAL ESTIMATED BID | \$ 13,114,538 |

| | |
|--|----------------------|
| Construction Contingency | x 1.10 |
| TOTAL ESTIMATED CONSTRUCTION COST | \$ 14,425,991 |

NON-CONSTRUCTION COSTS

| | |
|-------------------------------------|----------------------|
| F,F&E | \$ 319,275 |
| Ed. Tech. | \$ 227,363 |
| A/E Design Fees | \$ 1,731,119 |
| Construction Management Fees | \$ 432,780 |
| Miscellaneous | \$ 42,336 |
| TOTAL ESTIMATED PROJECT COST | \$ 17,178,864 |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 9/14/04
ASSUME SEPARATE PROJECT PHASES DONE NON-SEQUENTIALLY BY
SEPARATE CONTRACTORS

Assumptions:

1. Mobilization and demobilization costs for each phase average 2% of General Contractor Cost for that phase.
2. Average 5.0% project cost escalation per year.
3. One-year lapse between bid date of each phase.

PHASE IIIA AND IIIB

BUILDING TRADE COST

| | |
|----------------------------------|---------------------|
| General Construction | \$ 1,682,602 |
| Casework | \$ 100,550 |
| Food Service Equipment | \$ 0 |
| MEPFP | \$ 1,730,000 |
| VDV Infrastructure | \$ 79,406 |
| Hazmat Abatement | \$ 751,097 |
| TOTAL BUILDING TRADE COST | \$ 4,343,655 |

SITework TRADE COST

| | |
|--|---------------------|
| TOTAL TRADE COST | \$ 340,477 |
| General Contractor Markup | x 1.16 |
| GENERAL CONTRACTOR COST | \$ 5,421,993 |
| Escalation | x 1.375 |
| | \$ 7,455,241 |
| Bid Contingency & Market Factor | x 1.088 |
| TOTAL ESTIMATED BID | \$ 8,111,302 |
| Construction Contingency | x 1.10 |
| TOTAL ESTIMATED CONSTRUCTION COST | \$ 8,922,432 |

NON-CONSTRUCTION COSTS

| | |
|-------------------------------------|----------------------|
| F,F&E | \$ 351,203 |
| Ed. Tech. | \$ 250,099 |
| A/E Design Fees | \$ 1,070,692 |
| Construction Management Fees | \$ 267,673 |
| Miscellaneous | \$ 50,000 |
| TOTAL ESTIMATED PROJECT COST | \$ 10,912,099 |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 9/14/04
ASSUME SEPARATE PROJECT PHASES DONE NON-SEQUENTIALLY BY
SEPARATE CONTRACTORS

Assumptions:

1. Mobilization and demobilization costs for each phase average 2% of the General Contractor Cost for that phase.
2. Average 5.0% project cost escalation per year.
3. Two year lapse between bid date of each phase.

PHASE IVA AND IVB

BUILDING TRADE COST

| | |
|----------------------------------|---------------------|
| General Construction | \$ 2,934,328 |
| Casework | \$ 300,000 |
| Food Service Equipment | \$ 0 |
| MEFPF | \$ 1,722,947 |
| VDV Infrastructure | \$ 79,867 |
| Hazmat Abatement | \$ 665,004 |
| TOTAL BUILDING TRADE COST | \$ 5,702,146 |

SITWORK TRADE COST

| | |
|--------------------------------|---------------------|
| | \$ 433,862 |
| TOTAL TRADE COST | \$ 6,136,008 |
| General Contractor Markup | x 1.16 |
| GENERAL CONTRACTOR COST | \$ 7,117,769 |
| Escalation | x 1.475 |
| | \$ 10,498,709 |

Bid Contingency & Market Factor

x 1.088

TOTAL ESTIMATED BID **\$ 11,422,595**

Construction Contingency x 1.10

TOTAL ESTIMATED CONSTRUCTION COST **\$ 12,564,854**

NON-CONSTRUCTION COSTS

| | |
|-------------------------------------|----------------------|
| F,F&E | \$ 747,104 |
| Ed. Tech. | \$ 532,028 |
| A/E Design Fees | \$ 1,507,782 |
| Construction Management Fees | \$ 376,946 |
| Miscellaneous | \$ 75,000 |
| ESTIMATED TOTAL PROJECT COST | \$ 15,803,714 |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 9/14/04
ASSUME SEPARATE PROJECT PHASES DONE NON-SEQUENTIALLY BY
SEPARATE CONTRACTORS

Assumptions:

1. Mobilization and demobilization costs for each phase average 2% of General Contractor Cost for that phase.
2. Average 5.0% project cost escalation per year.
3. Two year lapse between bid date of each phase.

PHASE VA AND VB

BUILDING TRADE COST

| | |
|----------------------------------|---------------------|
| General Construction | \$ 1,490,269 |
| Casework | \$ 76,315 |
| Food Service Equipment | \$ 0 |
| MEPFP | \$ 1,289,987 |
| VDV Infrastructure | \$ 68,486 |
| Hazmat Abatement | \$ 759,012 |
| TOTAL BUILDING TRADE COST | \$ 3,684,069 |

SITework TRADE COST

| | |
|--|---------------------|
| TOTAL TRADE COST | \$ 460,309 |
| General Contractor Markup | x 1.16 |
| GENERAL CONTRACTOR COST | \$ 4,807,478 |
| Escalation | x 1.575 |
| | \$ 7,571,778 |
| Bid Contingency & Market Factor | x 1.088 |
| TOTAL ESTIMATED BID | \$ 8,238,094 |
| Construction Contingency | x 1.10 |
| TOTAL ESTIMATED CONSTRUCTION COST | \$ 9,061,904 |

NON-CONSTRUCTION COSTS

| | |
|-------------------------------------|----------------------|
| F,F&E | \$ 446,985 |
| Ed. Tech. | \$ 318,308 |
| A/E Design Fees | \$ 1,087,428 |
| Construction Management Fees | \$ 271,857 |
| Miscellaneous | \$ 60,000 |
| ESTIMATED TOTAL PROJECT COST | \$ 11,246,482 |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 10/15/04
ASSUME REPLACEMENT OF EXISTING FACILITY WITH NEW
CONSTRUCTION (EXCEPT RENOVATE FIELDHOUSE AND POOL)

Assumptions:

1. New facility to be constructed on existing ball fields adjacent to existing HS.
2. Existing Field House and Pool House to remain and be renovated – total area +/- 40,000 SF.
3. Remainder of existing building to be demolished – total area +/- 217,000 SF.
4. Footprint area of existing building will be developed as replacement field space.
5. Total area of new facility will match area proposed for renovation-addition project - +/- 290,000 SF, to consist of 40,000 SF renovated existing space and 250,000 SF of new space.
6. To reflect the probability of a slightly more efficient floor plan, the above total are will be assumed to include the new Maintenance Facility at 5,000 SF.

BUILDING TRADE COST

| | | |
|--|--|---------------------|
| Renovation of Field House and Pool House | | |
| 40,000 SF @ \$93.98/SF | | \$ 3,759,275 |
| Hazmat abatement of Field House and Pool House | | |
| 40,000 SF @ \$14.00/SF | | \$ 560,000 |
| Demolition of remainder of existing High School | | |
| 3,038,000 CF @ \$.60/CF | | \$ 1,822,800 |
| Hazmat abatement of area to be demolished | | |
| 217,000 SF @ \$12.50/SF | | \$ 2,712,500 |
| Construction of New Building (incl. Maintenance Facility) | | |
| 250,000 SF @ \$156.00/SF | | \$39,000,000 |
| TOTAL BUILDING TRADE COST (incl. 7.5% design contingency) | | \$46,031,775 |

SITework TRADE COST

| | | |
|----------------------------------|--|---------------------|
| Earthwork / Site Improvements | | \$ 4,000,000 |
| Site Utilities | | \$ 800,000 |
| Design Contingency @ 5.0% | | \$ 240,000 |
| TOTAL SITEWORK TRADE COST | | \$ 5,040,000 |

TOTAL TRADE COST

| | | |
|--|--|---------------------|
| | | \$51,071,775 |
| General Conditions @ 7.5% | | \$ 3,830,383 |
| Overhead & Profit @ 5.5% | | \$ 2,808,948 |
| SUBTOTAL GENERAL CONTRACTOR COST (9/04 DOLLARS) | | \$57,711,106 |
| Escalation @ 5.0% per year to March '08 = 17.5% | | \$10,099,443 |

TOTAL GENERAL CONTRACTOR COST

| | | |
|---------------------------------|--|---------------------|
| | | \$67,810,549 |
| Bidding Contingency @ 3.0% | | \$ 2,043,316 |
| Short-term Market Factor @ 5.8% | | \$ 3,933,012 |
| TOTAL ESTIMATED BID | | \$73,786,877 |

Construction Contingency @ 5.0%

| | | |
|---|--|---------------------|
| | | \$ 3,689,344 |
| TOTAL ESTIMATED CONSTRUCTION COST (TECC) | | \$77,476,221 |

NON-CONSTRUCTION COSTS:

| | | |
|--|--|---------------------|
| F,F&E, Ed Tech (carry same numbers as for add/reno project) | | \$ 3,096,000 |
| A/E Services @ 8.0% of TECC | | \$ 6,198,098 |
| CM Services @ 2.0% of TECC | | \$ 1,549,525 |
| Miscellaneous other project costs (carry same numbers as for add/reno project) | | \$ 250,000 |
| TOTAL ESTIMATED PROJECT COST | | \$88,569,844 |

Not included in Total Project Cost: bonding costs, permit fees, commissioning, utility backcharges, Building Committee costs.

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate of Project Cost rev. 10/15/04
NEW, FREE-STANDING SCHOOL DEPARTMENT MAINTENANCE
FACILITY

Assumptions:

1. Assume 5000 square feet gross floor area
2. Assume 40% Garage, 25% General Storage, 35% Shop w/ Locker Room, Toilets and Shower, Lunch Room, etc.
3. Garage to have 4 – 10' wide sectional overhead doors
4. Assume single story, single-width 12" CMU exterior bearing walls, bar joists and metal deck roof structure, single-ply membrane roof
5. Assume 6" and 8" CMU interior walls
6. Assume standard foundation design
7. Assume concrete floor, painted walls and painted exposed ceiling in Garage, General Storage and Shop
8. Assume ceramic tile floors and walls, plaster ceiling in Toilet and Shower
9. Assume VCT floor, painted walls and suspended 2x4 tile ceiling in Lunch Room
10. Assume site work to consist of demo tennis courts; excavate unsuitable fill over site area to be developed; replace with compacted gravel under building and parking/roadways; 2-coat bituminous topping for parking and roadways with concrete aprons at Garage doors; 6" concrete slab on grade for garage, 4" elsewhere in building.

CONCEPTUAL COST ESTIMATE

| | |
|---|------------|
| 1. Foundation construction, 5000 SF, standard spread footings, incl. excavation | \$ 66,000 |
| 2. Slab-on-grade construction, 2000 SF @ 6" | \$ 16,000 |
| 3000 SF @ 4" | \$ 24,000 |
| 3. Exterior wall construction, 12" "dri-block" CMU system with integral insulation, load-bearing, vapor-barrier paint, 4200 SF | \$ 104,000 |
| 4. Roof construction, steel bar joists, metal deck, R30 ridged insulation, single-ply membrane, allowance for curbs, roof accessories, roof edge, etc. 5,000 SF | \$ 69,000 |
| 5. Interior partitions, CMU 1400 SF @ 8", load-bearing | \$ 24,000 |
| 2000 SF @ 6", non-load-bearing | \$ 29,000 |
| 6. Garage doors, 10' wide x 10' high sectional overhead, galvanized steel, factory paint finish, lights in 1 panel, 4 units | \$ 14,000 |

NEW MAINTENANCE FACILITY COST ESTIMATE

| | |
|---|------------------|
| 7. Exterior HM doors and frames, 3'x7', galvanized, hardware, 6 units | \$ 13,000 |
| 6'x7', galvanized, hardware, 2 units | \$ 8,000 |
| 8. Interior HM doors and frames, 3'x7', incl. hardware, 6 units | \$ 9,000 |
| 6'x7', incl. hardware, 2 units | \$ 5,000 |
| 9. Interior borrow lights, HM frames and glass, 64 SF | \$ 4,900 |
| 10. Windows, aluminum awning and fixed, factory paint finish, incl. hardware, screens, lintels, sills, etc., typical unit 6'w.x 6'h. with 2-2'x3' operable panels, 12 units | \$ 33,000 |
| 11. Accessories (toilet and shower partitions, toilet accessories, marker and tack boards, blinds etc.), allow | \$ 6,000 |
| 12. Ceiling, 2x4 lay-in acoustical tile, 500 SF | \$ 1,000 |
| 13. Ceiling, plaster, 300 SF | \$ 3,000 |
| 14. Ceiling, painted, exposed constriction, 4,200 SF | \$ 2,400 |
| 15. Walls, painted, 6800 SF | \$ 6,000 |
| 16. Walls, glaze painted, 400 SF | \$ 1,000 |
| 17. Floors, hardened dustproof concrete, 4,200 SF | \$ 5,800 |
| 18. Floors, VCT, incl. base 500 SF | \$ 1,000 |
| 19. Floors, ceramic tile, 300 SF | \$ 4,000 |
| SUB-TOTAL | \$449,100 |
| 20. Mechanical, Electrical, Plumbing (no FP, AC in Office/ Lunch Rm.) | \$223,000 |
| SUB-TOTAL | \$672,100 |
| 21. Sitework, allow | \$100,000 |
| TOTAL TRADE COST | \$772,100 |

NEW MAINTENANCE FACILITY COST ESTIMATE

22. General Contractor General Conditions @ 6.0% \$ 46,326

23. General Contractor OH & P @ 5.0% \$ 38,267

TOTAL ESTIMATED BID \$ 856,693

24. Design fees \$ 85,000

25. Miscellaneous project costs:

A. Clerk-of-the-works (6 months @ \$1200/week) \$ 31,200

B. Survey prior to design \$ 2,500

C. Structural peer review \$ 1,000

D. Geotech investigation prior to design \$ 3,500

E. Soils and materials testing during construction \$ 4,000

F. Printing and distribution of documents to bidders \$ 1,500

G. Legal and other Committee expenses, allow \$ 5,000

TOTAL ESTIMATED PROJECT COST \$ 990,393

Tab 11

SECTION 11

Master Plan and Feasibility Study for Renovations to Belmont High School

CONCLUSIONS

Design Partnership and our consultants have worked and lived with the many aspects of this project for approximately 6 months. During that time, we have become very familiar with Belmont High School's facility and systems. We have also gained an appreciation of the goals and aspirations of the High School faculty, administration and students, as well as the Central Administration, the School Committee and our *de facto* client body, the Superintendent's Advisory Committee. As noted in the discussion of existing conditions in **Section 3** and design in **Section 8** of this Report, the existing facility presents myriad physical deficiencies that need to be corrected, from failing rooftop HVAC units to pervasive barrier-free access issues to wide-spread asbestos remediation. Without debate all of this work must be done sooner or later. Another general category of work addresses space and programmatic deficiencies that are illustrated by the desired educational specification and space program presented in **Section 7**. A third category addresses the image and iconography of the school as it presents itself to the Town and to its students, staff and other users. This may be termed a "quality of life" issue. As an example, there is a strong desire to create more appealing casual gathering spaces both within and outside the facility. Another important goal is to convincingly and powerfully illustrate that the facility has embraced the 21st century and is ready and eager to provide the best quality, most current educational experience to Belmont's students. In synopsis, we can draw the following conclusions based on our Master Plan and Feasibility Study.

- The existing facility should be retained and renovated. It is well designed and well constructed and, with a comprehensive renovation, will serve the Town admirably for many decades to come.
- As a further incentive to choose this course, the Office of School Building Assistance most recently has strongly favored renovation/addition projects over new construction. There can be little doubt that its successor agency, scheduled to begin taking project applications in July of 2007, will continue this practice.
- A high percentage of the total project cost is allocated to address many issues in the category of necessary maintenance, impending system failure, barrier-free access and hazardous materials abatement. These issues will have to be dealt with sooner or later and are best confronted as integrated parts of an overall improvement project.
- Expansion of the facility is necessary to provide the additional teaching stations and support areas strongly advocated for by the client and user representatives and by the recent NEASC review. The Science Labs are in particular need of expansion and renovation.

- An important consequence of the upgrades will be a tremendous improvement in the High School's appeal and utility to its direct users and to the Town as a whole. A new spirit will infuse the many school and Town activities that take place within its walls.
- We are convinced that the renovation/addition project proposed by the Master Plan can be successfully accomplished in phases while the facility is occupied, with minimal impact on the educational and social environment of the School.
- A single project/single contractor strategy, while requiring the Town to approve a large project cost all at one time, is the approach that makes sense. It results in significantly less overall cost and it condenses the project's impact on the School to the shortest possible time span.
- If the project is to become eligible for State funding in the future, it is likely the SBA's successor agency will continue the practice of favoring comprehensive renovation projects, done in a continuous manner under a single contract, over smaller, less comprehensive "capital improvement" projects that address only one or two aspects of a facility's deficiencies.

Tab 12

APPENDIX A

Master Plan and Feasibility Study for Renovations to Belmont High School

**REQUEST FOR PROPOSAL ARCHITECTURAL
ENGINEERING DESIGN SERVICES TO DEVELOP A
MASTER PLAN FOR RENOVATIONS TO BELMONT
HIGH SCHOOL**

**Belmont Public Schools
Belmont, MA 02478**

**Request For Proposal
Architectural / Engineering Design Services
to develop a Master Plan
for Renovations to
Belmont High School**

For information contact:
Dr. Gerry Missal
Director of Finance & Administration
Belmont Public Schools
644 Pleasant St.
Belmont, MA 02478
(617) 484-4970
gmissal@belmont.k12.ma.us

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I. Introduction

Belmont High School is located at 221 Concord Avenue in Belmont. It presently houses 1,184 students in grades 9 - 12. This total includes 1,151 regular-day students, including 60 students from surrounding communities through the Massachusetts School Choice program and 36 students from Boston through the Massachusetts Racial Imbalance Program (METCO), and 33 special education students in a separate program run by the LABBB Collaborative. Enrollments have increased steadily from 765 students in 1993-94 and are projected to increase one more year, to a total of 1,188, before leveling off. An enrollment projection is included as **appendix A**. For the current 2003-04 school year, there are 94 staff in the High School.

The High School was constructed as a new building on the present 33 acre site and opened in 1971. It consists of approximately 250,000 square feet of space, with classroom wings on two floors, and an auditorium, cafeteria, field house and pool on one floor. The library is also a one floor, two story space which opens onto a second floor mezzanine. The roof of the entire building was replaced with membrane roofs in phases from 1996 to 2000. No other major renovations have been done to the building since it opened, and there have been no additions. All of the electrical, plumbing, and heating and ventilating infrastructure is original equipment. Floor plans showing the original 1971 intended use of space are attached as **appendix B**. However, changes in the educational program have changed the use of space over the past thirty years.

II. Previous Studies

A. Facilities Audit

In 1999, the Belmont School Committee contracted with the architectural/engineering firm of ARCADD, Incorporated of West Newton, MA to perform a facilities audit of all six Belmont School buildings, plus the administration building. Included in this audit was a "Full Scope Audit plus Summary Space Analysis" of Belmont High School. Within the Executive Summary of their report of November 1999, ARCADD, Inc. states:

The Belmont High School is the largest of all the buildings and will require the largest effort and financial commitment on the part of the Town of Belmont. Its physical structure is solid and made to last, yet its envelope does not meet today's energy and air quality standards. Its doors are original and lack compliance with current handicap standards. Its auditorium, cafeteria and art spaces are in need of major upgrades. The science laboratories and classrooms are outdated and their fittings are old. The athletic facilities, including lockers, gymnasium spaces, and pool area are in need of redesign to suit current teaching and academic standards and the administrative spaces are centrally designed and densely furnished. The following is a ten-year corrections plan shown per the 16 Divisions of Contract

Specifications Institute and for each building trade. It should be noted that a one phase construction project for the Belmont High School will result in \$30,496,118.

Sections of the ARCADD Report relative to the High School are attached as **appendix C**, including ARCADD's floor plans.

B. Library Feasibility Study

Also in 1999, the Belmont School Committee contracted with the architectural firm of Tappe Associates, Incorporated of Boston, MA to study and propose a renovation plan for the Belmont High School Media Center. The October 1999 Tappe report recommends a renovation and expansion of the Library and Media Center from the current 12,500 square feet to a proposed 16,470 square feet at an estimated construction cost of \$1.5 Million. An Executive Summary and relevant pages from the Tappe report are attached as **appendix D**.

C. New England Association of Schools and Colleges (NEASC) Report

In April 2002, a Visiting Committee from the New England Association of Schools and Colleges (NEASC) conducted a certification review of Belmont High School. As part of the report of the Visiting Committee, conclusions were noted on the facility. The relevant pages from the NEASC Report are attached as **appendix E**.

III. Current Efforts

A. Superintendent's Advisory Council on the Future of Belmont High School

In 2001, the Superintendent of Schools formed the Advisory Council on the Future of the High School. The Superintendent's Advisory Council consisted of the High School Principal, two School Committee members, the Director of Finance, two Curriculum Directors, a teacher, a High School student, a representative of the Town's Permanent Building Committee, and two parents. The goal of the Advisory Council was to analyze both the program and the building infrastructure needs of the High School, and to develop a plan of action leading to a single phase renovation to be completed by the 2010 school year. Part of the work of the Council was the development of a set of "core values" to be use as a guide for the overall project. This is attached as **appendix F**. In projecting 2010 as a target date for complete renovation, the Advisory Council was recognizing that Belmont has a significant list of capital investment projects to address. Attempting to prioritize and develop a sequence and financing plan, Town officials have

formed a "Mega Committee" consisting of all members of the Board of Selectmen, the Permanent Building Committee, the Warrant (Finance) Committee and the Capital Budget Committee. While acknowledging the needs of the High School, the Mega Committee has struggled with the competing demands for resources to meet the following identified needs:

- replace the existing three fire stations with two new stations,
- construct a new senior center
- replace the Wellington Elementary School with a new school building on the same site
- expand or replace the Town's main library
- renovate or replace the Town's DPW facilities
- upgrade the water and sewer systems
- develop a plan for improved parking in Belmont Center
- renovate the Police Station
- renovate or replace the skating rink and adjacent field house
- study the needs of the Underwood pool.

As shown on a chart prepared for a meeting of the "Mega Committee" on May 19, 2003, (attached as **appendix G**), the High School renovation project was placed on the "Longer Term (5-15 years)" side of the planning ledger.

In August 2003, the Advisory Council met with the Town's Permanent Building Committee to seek advice about the next steps in this project. The following summary of the work and findings of the Advisory Council so far was reviewed at that meeting:

1. High School Feasibility Study (Advisory Council)

- Established by the Superintendent to begin the process of identifying and meeting the building needs, both program and infrastructure, of the 30+ year old High School
- Met regularly from February to December 2001, and again in June 2002
- Examined the needs of the building by reviewing the ARCADD report, determining current usage, touring the facility, and seeking input from staff, parents, and students
- Toured other recently renovate High Schools

2. Goal: To Implement Major Renovation by 2010

- November 1999 ARCADD report identified approximately \$30 million of needed renovations, which would require an estimated \$40 million project cost, incorporating design fees, other owner costs, and some inflation factor
- In addition, some construction may be needed to meet current program needs
- Uncertainty about the status of the state School Building Assistance Program raises questions about state participation in funding
- Need to develop Master Plan that can be accomplished (and perhaps funded) in incremental steps while the building is occupied

3. Areas for Further Engineering Study

a. HVAC

- Review existing oil burners and boilers
- Analysis of most efficient, cost effective energy source, including possible conversion of burners to dual fuel capability for oil and natural gas
- Replacement of original (thirty two year old) heating pipes
- Replacement of all original univents
- Replacement of original pneumatic controls with electronic system and computerized controls
- Replacement of all rooftop HVAC units

b. Energy Conservation *(an RFP for an Energy Services Company, ESCo, has been advertised, with proposals due by March 18, 2004)*

- Need to perform energy audit
- Establishment of a hot water supply, separate from the heating system, for kitchen, rest rooms, locker rooms and pool -- investigate most efficient energy source (natural gas, solar, other?)
- Replacement of all fluorescent lighting
- Conversion of all kitchen appliances from electric to natural gas and upgrade ventilation

c. Program Issues

- Need to increase library space
- Need to renovate and expand Performing Arts area due to growing student enrollment and participation
- Science laboratories need complete renovation to address size, safety, and accessibility issues -- need to determine feasibility of meeting the requirements of the science program within the existing space
- Stadium seating in lecture halls in English, Social Studies and science areas and the Little Theater does not meet current educational needs
- Auditorium needs new seating and lighting
- Pool area requires new pool filtration system, replacement of translucent panels, and upgrades to ventilation and locker rooms
- Analysis of the adequacy of office space and staff/program support spaces (conference/workroom/copy center/etc.)
- Need to plan to support expanded technology presence
- Future of special education space to support LABBB Collaborative programs needs to be explored

d. ADA Compliance

- Existing single elevator is small and does not meet current code
- Possible need for a second elevator at opposite end of the building
- Replacement of all door hardware and non-compliant plumbing fixtures
- Ensure access code compliance for all building entrances, stage, etc.
- Upgrade fire alarm system to meet current code

e. Building Envelope and Site Issues

- Re-pointing of all exterior brickwork
- Replacement of windows to double-glazed to establish efficient thermal envelope
- Examination of ground water infiltration in Little Theater
- Improve entrance vestibule
- Repaving driveways and parking lots -- improve parking at the site
- Rewiring and re-lamping all exterior lighting

f. Life Safety and Security Issues

- Fire alarm requires code upgrade
- Burglar alarm needs upgrade or replacement
- Clock, bell, and intercom system needs replacement
- Telephone system is inadequate and needs replacement
- Review fire protection system in cafeteria kitchen

B. Energy Services Company Project

In January 2004 the Town initiated an RFP for an Energy Services Company (ESCO) performance contracting project to identify potential energy savings in town and school buildings and implement infrastructure upgrades, recouping costs from the savings. The High School is one of the buildings to be evaluated in this project. An RFP for an ESCo has been advertised with proposals due by March 18, 2004. The Town hopes to award a contract for this project in the late Spring of 2004. It is anticipated that the designer selected for the High School master plan will communicate with the firm chosen for the ESCo project.

IV. Alternatives to a Single Phase Comprehensive Renovation

It may not be possible to accomplish a single phase renovation of Belmont High School by 2010, because of the long list of competing projects on the Town's agenda and limited resources. If the single phase renovation must be pushed off beyond 2010, it will be important to determine what needs to be done more urgently to keep the building functional and avoid a major breakdown of the existing infrastructure.

The School Committee has cited the following problems with delaying the renovations to some point beyond 2010:

- Potential degradation of the Town's largest asset
- Continued heating and ventilation problems
- Delay in meeting ADA requirements
- Delay in meeting NEASC certification requirements
- Continued waste of money in energy inefficiency
- Cost of patchwork repairs as infrastructure breaks down
- Possible loss of school time for major unplanned repairs

Because of the financial constraints and extended time frame, the School Committee and the Advisory Council see the need to explore the phasing of several smaller projects as an alternative to one comprehensive renovation. We would like to understand the cost effectiveness, including potential for state funding, and the logistical implications of phasing discrete projects, allowing us to address the most urgent needs, prevent infrastructure break downs, and increase energy efficiency, as well as accomplish the most urgent upgrades to support program needs in an acceptable time frame.

With the support of the Permanent Building Committee, the School Committee requested and received approval at a Special Town Meeting on November 17, 2003 to fund design services to develop a Master Plan to identify immediate concerns and lay out a sequence for complete renovation.

V. Design Services Scope of Work

A. Scope of design work:

1. Develop an overall Master Plan for complete renovation, meeting both program and building infrastructure needs.
 - a. Identify and prioritize the most urgent needs.
 - b. Recommend the most energy and cost efficient configurations for infrastructure systems.
 - c. Develop the most cost effective, phased plan for renovations:
 - i. Accomplish the most urgently needed upgrades in a 2-7 year time frame;
 - ii. Analyze the practicality of phased infrastructure upgrades and the interactions with existing systems;
 - iii. Propose an overall schedule and sequencing for a complete comprehensive renovation;
 - iv. Plan for all construction with students occupying the building for a normal ten-month school year.
2. Estimate pricing of various components.
3. Be aware of and incorporate necessary asbestos removal.
4. Optimize interface with current ESCo performance contracting project.
 - a. Analyze and make recommendations concerning integration of performance based contracting into the project.
5. Calculate the operating and maintenance cost, compared to a present baseline.
6. Propose solutions to allow the maximum state reimbursement in accordance with changing SBA regulations.
7. Meet with local public officials to review code issues including, but not limited to, the Building Inspector in the Community Development Office, the Fire Department, and the Disability Access Commission.
8. Serve as an ongoing information resource to the School Committee and other Town Committees to discuss future steps, including availability at any Town Meetings requesting funding for the project.

9. Develop Conceptual Drawings on materials that can be used for public presentations. All such materials shall become the property of the Owner.

B. Range of services which are likely to be needed:

1. Architect
2. Structural engineering
3. Mechanical and electrical engineering
4. Hazardous materials consultant and hygienist
5. ADA consultant
6. Technology consultant
7. Food Service consultant
8. Athletic consultant
9. Building code consultant
10. Site and civil engineering
11. Landscaping
12. Cost estimating and scheduling
13. Acoustical consultant
14. LEED certified consultant

VI. Awarding Authority

The Awarding Authority will be the Town of Belmont, acting through the Belmont School Committee. The Belmont School Committee reserves the right to accept or reject any or all proposals without cause if it is in the best interests of the Town of Belmont to do so.

VII. Timeline

A. Designer Selection Process

1. Notice to Central Register --- Tuesday, February 24
2. Central Register publication --- Wednesday, March 3
3. RFP available --- Wednesday, March 3
4. Pre-bid Conference --- Wednesday, March 10, 2:30 PM, Room 145, High School
5. Tour of building will follow pre-bid conference --- Wednesday, March 10

(Please note that no other tours of the building will be offered and interested designers should not call the School Department offices requesting access to the High School.)

6. **Proposals due --- Friday, March 19 by 3:00 PM**
7. Review of proposals --- week of March 22 - 26
8. Interviews --- week of March 29 - April 2
9. Ranking of Finalists --- by Wednesday, April 7
10. Selection by School Committee --- Tuesday, April 13
11. Fee and contract discussions --- by Friday, April 30

The following dates are tentative and subject to input by the chosen designer.

B. Review and Gathering of Data

1. Review existing documents and perform inspections of High School --- by end of May
2. Educational specifications will be approved by the School Committee by June 1
3. Interface with ESCo vendor re energy contracting --- June 1-11

C. Development of Master Plan

1. Recommendations to Superintendent's Belmont High School Advisory Council on short-range needs --- June 1-11
2. Setting priorities and sequencing short-range needs with Superintendent's Advisory Council --- June 14-25
3. Costing out individual items within Master Plan --- June 28 - July 16
4. Development of complete Master Plan with Superintendent's Advisory Committee, with cost of each proposed phase
5. Development of final report, including phases, sequencing, estimated costs and timeline, to go to School Committee --- July 19-30
6. Public Presentations with Superintendent's Advisory Council --- at least three, to be scheduled in the fall of 2004

VIII. Qualifications of Applicants

The procedure for awarding the design services contract shall comply with the purposes and intent of M.G.L. chapter 7, sections 38 A ½ to 38 O, inclusive. The Designer Selection Committee shall consist of a sub-committee of the Superintendent's High School Advisory Council plus representatives of the Permanent Building Committee. The Designer Selection Committee will screen all applicants, including interviews of a number to be determined. The Committee will make a rank-ordered recommendation of three finalists to the Belmont School Committee. The selection of finalists will be based on the following criteria:

1. prior experience in the renovation of public high schools;
2. prior experience in developing master plans for multi-phased projects;
3. feed back from references from similar public school projects performed within the past ten years, or, preferably, within the past five years;
4. number and type of engineering services performed in-house versus on a contracted basis;
5. identity and qualifications of consultants, with references and a list of prior renovation experience for each consultant;
6. demonstrate an ability to transition from a master plan to actual construction;
7. demonstrate an ability to work through the SBAB process for state reimbursement;
8. experience with use of informational technology in schools;
9. financial stability.

IX. Type of Fee

The fee for development of the Master Plan shall be negotiated, not to exceed \$75,000. The design firm selected to complete the master plan may, subject to an independent review in accordance with M.G.L. chapter 7, section 38H, be eligible to perform the final design services of the project subsequent to funding for the construction phases.

X. Proposal Submission

All proposals are due no later than **3:00 p.m. on Friday, March 19, 2004** at the Business Office of the Belmont Public Schools Central Administration Offices. For proposals that are being hand delivered or delivered by a delivery service, (e.g. FedEx), the Central Administration Offices are temporarily located in modular offices behind Belmont High School at 221 Concord Avenue, Belmont. For proposals that are being mailed using the U.S. Postal Service, the mailing address of our permanent office should still be used, which is:

Business Office
Belmont Public Schools
644 Pleasant Street
Belmont, MA 02478

All proposals must be submitted in a sealed envelope and clearly marked on the outside: ***Design Services Proposal -- Belmont High School Master Plan.***

All proposals shall include ten (10) sets of the following:

1. a letter of application;
2. descriptions of projects, highlighting all previous work done on similar multi-phased public high school projects;
3. written references from at least three projects of a similar nature;
 - a. list of names, addresses and telephone numbers for all public projects within the past five years, to allow the Owner to call for references; this list of references must include both the Chairperson of the Building Committee and the local Town official who was responsible for supervision of the project;
4. resumes of the project manager and all key staff to be assigned to this project;
5. list and description of all in-house engineering services, with resumes of personnel;
6. list of all consultants, a description of their qualifications, and references from recent similar projects (Note: The Belmont School Committee reserves the right to request the design firm to replace any consultant, whom they feel is not appropriate for this project.);
7. the attached Massachusetts Designer Selection Board 2000 Application Form, attached as **appendix H**;
 - a. name of the project manager along with the names and addresses of all

- officers, directors and owners of the firm;
8. a proposed method of organizing and executing this project;
 9. certified financial statements for the past two years;
 10. amount and type of professional liability insurance for both the architect and engineering consultant; professional liability insurance for an amount of five percent of the bid;
 11. certificate of general liability;
 12. certificates of non-collusion and tax compliance;
 13. any additional supporting material which the applicant wishes to provide.

APPENDIX B

Master Plan and Feasibility Study for Renovations to Belmont High School

**EXCERPTS FROM THE FACILITIES AUDIT REPORT OF
THE NEW ENGLAND ASSOCIATION OF SCHOOLS AND
COLLEGES**

**NEW ENGLAND ASSOCIATION OF SCHOOLS AND COLLEGES
COMMISSION ON PUBLIC SECONDARY SCHOOLS**

REPORT OF THE VISITING COMMITTEE

**BELMONT HIGH SCHOOL
BELMONT, MASSACHUSETTS**

April 7-10, 2002

| | |
|-------------------|-----------------|
| Edmund C. Higgins | Chair |
| Carol A. Eaton | Assistant Chair |
| Foster W. Wright | Principal |

COMMUNITY RESOURCES FOR LEARNING

Active community and parent participation, facilities which support school programs and services, and dependable and adequate funding are necessary for the school to achieve its mission and expectations for student learning.

1. The school shall engage students and their families as partners in the students' education as well as encourage their participation in school programs and parent support groups.
2. The school shall foster productive business/community/higher education partnerships that support student learning.
3. The school site, plant, and equipment shall support and enhance all aspects of the educational program and the support services for student learning.
4. The school site, plant, and equipment shall be maintained to ensure an environment that is healthy and safe for all occupants.
5. There shall be a planned and adequately funded program of building and site management that ensures the maintenance and repair of facilities and equipment as well as the thorough and ongoing cleaning of the facility.

6. There shall be ongoing planning to address future program, staffing, facility, and technology needs as well as capital improvements.

7. The physical plant and facilities shall meet all applicable federal and state laws and be in compliance with local fire, health, and safety regulations.

8. The community and the district's governing body shall ensure an adequate and dependable source of revenue to provide and maintain appropriate school programs, personnel, services, facilities, equipment, technological support, materials, and supplies for student learning.

9. Faculty and building administrators shall have active involvement in the budgetary process, including its development and implementation.

10. Equipment shall be adequate, properly maintained, catalogued, and replaced when appropriate.

11. School board decisions, policies, and procedures and district plans shall support the implementation of the school's mission and expectations for student learning.

Community Resources for Learning

Conclusions

Belmont High School engages students and their families as partners in their student's education and encourages participation in school programs and parent support groups. The school has an active parent teacher organization with nine subcommittees. These subcommittees support the school in various ways, especially in fund raising. For example, the "Class and College Connecting" subcommittees help to make the transition into high school and then into college easier for students. The "School Committee Observers" attend school committee meetings to stay current with educational issues. Other parent-sponsored organizations include the "Parents of Music Students" (P.O.M.S.) who support the music program, "Stars" who support the drama program, and several organizations dedicated to supporting sports such as the "All Sports Booster Club" and various boosters for individual sports such as "Friends of Soccer" and "Friends of Football". In addition, there is a SPED advisory group run by parents who advise the school committee on special education issues. (Sunday panel, community resource meeting, self-study, parents).

The Foundation for Belmont Education and the Grants for Peace are two other parental sponsored groups that financially help the students and teachers of Belmont High School. The Foundation for Belmont Education has helped fund the language laboratory and professional development opportunities. The Grants for Peace funds diversity efforts and provides grants to

teachers in support of those efforts. Faculty and administration members readily acknowledge the positive role that the various parent groups play in the school community and are grateful for the support they provide. However, it is important to point out that the financial support given by these organizations has had to move from providing enrichment resources to providing necessities to maintain the educational program. (Sunday panel, community resource meeting, self study)

Belmont High School students give back to their community. Belmont High School is very proud of the forty hour community service requirement for graduation. There is now a full-time community service director to oversee the program. Students may fulfill their requirements in a variety of ways such as food and/or blood drives, cleanups, or working with the homeless. The Belmontian Club, a community service organization open to all students, provides another avenue for completing community service. In addition, a student may take a community service course to complete the community service requirements. This requirement helps students to build pride in their community as they perform a real service. (Sunday panel, program of studies)

Vehicles are in place to provide the communication of important information to parents. There is an excellent and quite comprehensive student and parent handbook that spells out school rules, policies, academic, guidance, health, and miscellaneous information as well as student activities, clubs, and awards. School committee meetings are televised and replayed on local cable. The school and the district maintain web sites that parents can access for information. The school hosts freshman, junior, and sophomore parents' nights, a College Fair, and a freshman parent coffee. Two separate parent conferences are held in the fall, one afternoon and one in the evening. However, despite these efforts, the survey from the self-study shows that 50% of the parents feels that they are not encouraged to be actively involved in the school. Such a perception limits the ability of the school to be partners with these parents in the education of their children. (parent teacher handbook, Sunday panel, self-study, parents)

The school has fostered partnerships with institutions of higher learning, business, and the community. In the community service elective, students are placed in sites such as the middle and elementary school, McLean Hospital, Belmont Food Pantry, Belmont Memorial Library, and Children's Hospital. Students shadow local officials in an Elks Club sponsored Government Day. Several students per year take courses at the Harvard Extension. Three top math and science students have the opportunity to work for a local company in the summer. The school accepts student teachers from many different colleges and universities. Harvard Program for International Education students work with history classes on various topics. These activities help to round out students' education and give them a sense of pride in their school and community. Opportunities for partnerships in staff development also exist. Staff members participate in the Teachers as Scholars (Harvard) and the Center for Enhancement of Science Education, staff development for guidance counselors through the University of Massachusetts, and coaching clinics sponsored by coaching staffs of various colleges. However, the self-study survey indicated that only about 25% of teachers feels that the school seeks business, community, and higher education partnerships. (self-study, students, teachers)

Belmont High School, built in 1971, is a two-story building located on a beautiful tract of land of about 20 acres fronted by Clay Pit Pond and Concord Avenue. The building structure is mainly of concrete and masonry and is extremely well built. Classroom wings are located primarily on the outside in department "pods" and are properly sized for current state standards for a high school building. The shared school library and administration space is located in the

interior spaces. The general layout is efficient and well tied together allowing students to move easily from one space to another within such a large building. The school was originally designed for approximately 1,600 students allowing adequate room for the current enrollment of about 1,100 students as well as future increases in enrollment. The layout and existing wall space allows for the placement of excellent student artwork. This student work is strikingly evident in most parts of the building and adds much to the interior décor and atmosphere of the building. Certificates of occupancy are current and posted in all applicable areas. However, the elevator lacks the proper inspection certificate. One problem noted by staff members is the lack of a central faculty room. This inhibits easy discourse and collaboration between members of different departments. (ARCADD Facility Audit summary, observations, teachers, parents, students,).

The cafeteria including the kitchen, the auditorium, and the music spaces are on one end of the first floor, while the field house and pool are on the other end of the building. The field house actually consists of a lower level with folding bleachers, basketball court, and a track and an upper level with what is called the upper gym. There are locker rooms for both the pool and gym areas. The area also includes a fine exercise facility full of equipment located in a room converted from another use. The field house is open seven days a week and is used by community groups as well as rented to outside groups. It is very unfortunate that because of inadequate funding, a full physical education program is not available that would maximize the use of this facility by Belmont High School students. (observations, teachers, administrators}

Within the last five years, the available technology for teacher and student use has increased significantly, evidenced by the computer networking of the building, the acquisition of a considerable number of computers, and Internet access. The library has 10 computers for student use and another 36 available for scheduled use in the mezzanine area. In addition, there are physics, math, and music computer labs with thirteen computers each. Each classroom has one computer for the use of the teacher. The entire school is networked and Internet access is available in virtually all areas of the facility. { technology personnel, librarian, teachers, administrators)

Noteworthy is the cleanliness of the building. Kitchen areas, bathrooms, classrooms and corridors are clean and neat. There are four full-time custodians who are rotated in at various times of the day in order to account for evening use of the building. The system employs an outside cleaning company that puts in an average of fifty-five man-hours per day. These outside people are in the building at various times from late afternoon until midnight and beyond. The duties of these outside cleaning people are clearly defined in a very detailed list provided to them by custodial staff members. The list defines thirty-five different tasks to be performed as well as instructions for how often they should be performed. However, there have been a few unexplained incidents when items have disappeared from the school when the cleaning service was in the building. The dedication to maintaining cleanliness results in a general environment that students and staff can be proud of. (building and grounds director, head custodian, observation, students, administrators)

As neat and clean as the facility is, there is a number of areas that need repair, updating, and renovation. The administration, staff, and maintenance people very aware of this, both from personal observation and experience and an extensive facility audit done in 1999 by ARCADD Inc. of West Newton, MA. as well as a chemical safety audit by Triumvirate Environmental. The aged ventilation and heating system results in uneven temperatures and poor air circulation

in many if not most classrooms. This causes students and staff members' discomfort, especially in extremes of temperature and / or stale air. Some of the classroom ventilators are sufficiently noisy to impede the educational process. Although the lavatories generally are in very good shape for their age, the boy's lavatory near the library has three steel plates sticking out of the wall, presumably where a shelf was mounted. These brackets represent a real danger to anyone who might fall against them. Draperies are old and need to be replaced in many rooms. In some rooms the condition of the draperies inhibits the showing of video material because the room cannot be adequately darkened. Some rooms have no draperies at all. In some classrooms there are broken furniture and insufficient chairs available. Some science classes are held in rooms originally designed for other use resulting in a less than ideal teaching and learning situation. The kitchen area needs modern equipment. Lack of adequate storage space is a problem in some areas. In one case, physics teachers have to access their small, stuffy storage area by going through the Metco coordinator's room. Air conditioning in closed areas does not always work sufficiently well to keep a comfortable climate. Adequate ventilation seems to be a problem for many staff members throughout the building. The auditorium lacks air conditioning and can be very uncomfortable to use in warm weather. In most parts of the building there are loose, misaligned, and broken ceiling tiles posing a possible safety issue. Handicapped access is not fully provided. For example, no doors have been modified for handicapped access. The sinks in the infirmary are outside the toilets, causing a sanitation issue. According to the self-study survey, three quarters of the faculty feels the facility is deficient. (ARCADD facilities report, observations, building and grounds director, head custodian, teachers, community resource meeting, self study)

The lack of adequate funding is the primary reason for the facilities shortcomings. The facility audit recommends extensive renovations including replacing boilers and burners, exhaust fans, wiring, kitchen equipment, etc. Because of inadequate funding, repairs to critical systems are made as problems come up. There is no evidence of a regular schedule for the maintenance and repair of furniture and equipment. All these things impact the comfort of students and staff members and lead to lower morale inhibiting the delivery of the educational program. In the self-study survey, only 40% of faculty members rates the adequacy and dependability of revenue to provide and maintain services as being acceptable. 18% rated it deficient. (ARCADD facilities report, custodian, building and grounds director, staff, self study survey)

Progress is being made slowly. The chemical storage area of the science department now conforms to safety regulations as confirmed by the report from Triumvirate Environmental. Two handicapped accessible bathrooms have been created, one at either end of the building. One handicapped accessible bathroom is available on the second floor. There is a handicapped ramp on the student parking lot side of the building that conforms to grade requirements but does not conform to the minimum distance required for a resting area in the pathway. New roofing has been installed within the last six years. The field house has a recently installed rubber floor. The emergency generator has been repaired. The athletic field has been redone. Most funding for these types of improvements comes from the town's Capital Budget Committee as opposed to the school budget. Because of the age of the facility, this piecemeal "repair, fix, and replace policy" will continue to cause students and staff members problems. Planning is in the works for a building renovation, but that will depend on the allocation of town resources, and, at the moment, several other major projects are being given priority over the high school. To highlight the needs of the high school, the Superintendent's Advisory Council on the Future of the High School: High School 2010, a committee formed by various school and community members, has

generated a ten-year renovation plan. (Triumvirate environmental report, observations, building and grounds, custodian, Sunday panel)

The district has difficulty ensuring an adequate and dependable source of revenue needed to provide and maintain appropriate school programs, personnel, services, facilities, equipment, technical support, materials, and supplies for student learning. Approximately 89% of the district's funding comes from local sources, with 44% of the local property tax allocated to schools. The school system spends less than the state average per pupil expenditure and approximately \$1,000 less than the expenditure per pupil of nearby communities. Because local aid accounts for the bulk of the school money and owing to the limited industrial base and the small size of local businesses, the school has trouble finding adequate funding and must resort to debt exclusion and tax overrides just to maintain the most basic of educational programs. The community has shown support, approving a debt exclusion for the athletic complex renovation and an operational override approved in May 2001. The school is also forced to depend on parental groups to provide supplementary money for equipment and supplies. Not enough revenue is generated to reliably maintain the facility and needed resources as evidenced by shortage of classroom chairs, an excessive quantity of broken chairs and outdated and inadequate equipment. Inadequate funding has prevented course offerings in the area of technology that most high schools now offer as a standard part of their program. Despite the wonderful athletic facilities, Belmont High School does not even have the essentials for a physical education program with only one part-time physical education teacher. The lack of a dependable source of income results in the facility problems described and directly impacts curriculum by restricting course offerings, staff hiring, and technology acquisitions. Although various individuals write grants, there is currently no person charged specifically with researching and writing grants. At the school level, the budget starts with the individual teachers who specify what it is they need. Those requests pass through the department directors, the principal, and the superintendent, who decide priorities. Public hearings are held to review the budget, and the school committee conducts joint meetings with the town warrant committee and the board of selectmen. All budget meetings are open to the public. (self-study, Sunday panel, , teachers, administrators, parents)

There is ongoing planning to address future program, staffing, facility, and technology needs as well as capital improvement. The technology director has a seven-year technology plan, but serious doubts exist as to whether the community will be able to fund it. Each curriculum area also has a seven-year plan for evaluating and modifying curriculum. The district is in the third year of its second five-year strategic plan. The plan addresses the following topics: curriculum and instruction, human resource development, financial planning and management, organizational development, communications and community relations and facilities. Each of these areas has objectives and anticipated outcomes. There is an education improvement plan that coordinates goals and objectives at the grade, school, department, and system-wide levels. This plan has many goals and objectives, specifies the person responsible for each, an action step to achieve the objective, and a timeline for that achievement. There are three levels of planning. Level 1 addresses maintenance needs on an annual basis. Level 2 is the annual capital investment plan. The town of Belmont and the town's capital budget committee establish a five-year plan for spending and priorities supporting ongoing projects in excess of \$10,000. This has resulted in some improvements such as the new roofs on district school buildings. Level 3 concerns major building renovation – those items not part of the regular budget but funded by town-wide exclusion votes. Again, the lack of funding sources, reliance on exclusion votes, and

parental fundraising undermines the necessary extensive planning for the ultimate delivery of services to the students of Belmont High School. (self-study, educational improvement plan, strategic plan 1999 – 2004)

Commendations

1. The degree of parental involvement in supporting the students and staff via many parental organizations and fund raising
2. The implementation of the community service requirement for graduation
3. The clean school environment provided by the custodial staff
4. The strides made in introducing technology into the building
5. The capital budget committee's efforts to provide funding for needed projects
6. Creation of the Superintendent's Advisory Council on the Future of the High School: High School 2010 that recognizes the need for serious renovation of the high school
7. The district planning as evidenced by the five-year strategic plan and the educational improvement plan

Recommendations

1. Provide sufficient and reliable funding to adequately provide for curriculum, staffing, and program needs
2. Explore alternative sources for funding to help ensure adequate and dependable programs and services
3. Explore ways to reach those parents who do not feel invited to participate in school and classroom activities
4. Assess the adequacy of ventilation and, if necessary, develop and implement a plan to renovate/replace the existing system
5. Remove the lavatory brackets that no longer serve a purpose
6. Provide sinks inside the infirmary lavatories for sanitary reasons
7. Establish and follow a regular maintenance and repair program for furniture and all equipment
8. Replace aged drapes to allow maximum comfort and use of classrooms
9. Replace damaged and misplaced ceiling tiles to alleviate safety concerns
10. Provide for full and complete handicapped access
11. Provide increased and easily accessible storage space, especially for those disciplines with large amounts of equipment
12. As part of the renovation plan, adjust the building structure to facilitate cross department collaboration

13. Renovate the high school to bring the facility and equipment up to modern building codes and meet the needs for delivering the school's educational program and its revised mission and expectations for student learning

APPENDIX C

Master Plan and Feasibility Study for Renovations to Belmont High School

**BELMONT HIGH SCHOOL FACULTY QUESTIONNAIRE
FORM**

Superintendent's Advisory Council on the Future Building Needs of Belmont High School – High School 2010

To: All High School Faculty

From: Jenny Fallon and Gerry Missal, Co-Chairs

Date: May 10, 2004

Re: Process to define the building needs of Belmont High School

As you may know, we have been in the process of beginning to define the needs for renovation of Belmont High School. This is a long term project. The High School is Belmont's largest building and renovation will take a very large investment of resources. The town is also facing the need to renovate or rebuild several other of its buildings, and the High School is only one of a list of projects. We are unsure of when the State's School Building Assistance Program will be funded again, and of exactly where the High School will fall among the town's priorities. However, a project of this size and complexity will take careful planning and the involvement of many constituents, so it is important that we begin work now to be ready to move forward when the time comes.

Last fall, the Advisory Council went to Town Meeting to seek funding for a professional Master Plan for the renovation of the High School. We are undertaking the development of a Master Plan at this stage for three reasons: 1. to be sure that we have identified any urgent infrastructure needs in the building which may need to be addressed before a full renovation project can be funded; 2. to coordinate with an energy conservation project which is being undertaken now by the town for all of its buildings; and 3. to have appropriate information about the High School project to share with the "Mega Group", a combined group of the town's leadership which is undertaking long-range planning for capital investment projects. We have hired the architecture firm of Design Partnership of Cambridge to work with us to develop the Master Plan. We hope to have the plan completed and ready to present by September 1st.

Attached to this memo is a survey seeking your input about the needs of the High School building and especially the spaces where you work and teach. We ask that you fill it out in preparation for the Faculty Meeting on Monday, May 17th. We will be at the meeting with Robert Vogel, our project architect from Design Partnership, to make a short presentation about this project and, we hope, answer any questions you may have. We plan to collect the surveys at that time. We will then produce a compilation of the answers under each question, which we will give to the Directors for distribution back to you and further discussion at departmental meetings later in the month. We hope that each department will produce a collaborative response to the survey, in addition to all of your individual responses.

Many thanks for your help with this important planning process. We hope that it will lead to a refreshed and improved building, which will support excellent teaching and learning well into the future.

6. What other spaces might we need in the future?

7. Thinking about the future of your subject area, what changes in teaching and learning do you foresee?

Thinking about the future of education in general, what changes in teaching and learning do you foresee?

8. Thinking about the future of education, what physical design elements should be part of the renovation to meet anticipated changes in teaching and learning styles?

9. What technology should your room or department accommodate now and in the future?

10. What design accommodations need to be made for students with disabilities?

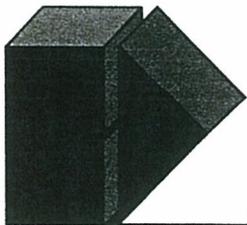
11. Any additional suggestions or ideas?

Thank you for your input and assistance with this project!

APPENDIX D

Master Plan and Feasibility Study for Renovations to Belmont High School

COST ESTIMATING SUPPORT DATA



ESSENTIAL ESTIMATING
ARCHITECTS • COST CONSULTANTS

SEP 03 2004

Robert J. Goodie
 N.C.A.R.B. certified

8-31-04

The Design Partnership of Cambridge
 500 Rutherford Ave.
 Cambridge, MA 02129
 Attn: Bob Vogel
 Re: Belmont High School Study

Dear Bob:

The following is the summary of the Belmont H.S. study for Architectural and Structural costs. Please note that the Base Reno is a pro-rated breakout cost based on square footages taken from the phasing plans and the previously submitted base renovation estimate. The renovation costs have "NOT" been taken off phase by phase, thus the phases are very approximate.

All of the following summary costs **INCLUDE** a 15% design contingency for the architectural and structural within these phases.

| | BASE RENO | ADJUSTMENTS |
|----|--------------|----------------|
| 1A | \$ 579,125 | + \$ 75,001 |
| 1B | \$ 0 | + \$ 3,082,660 |
| 2A | \$ 1,711,051 | + \$ 91,005 |
| 2B | \$ 1,684,726 | + \$ 378,539 |
| 3A | \$ 816,039 | + \$ 25,262 |
| 3B | \$ 816,039 | + \$ 25,262 |
| 4A | \$ 131,619 | + \$ 702,555 |
| 4B | \$ 1,614,530 | + \$ 485,624 |
| 5A | \$ 807,265 | + \$ 14,327 |
| 5B | \$ 614,223 | + \$ 54,454 |

The following are our current recommendations as of Aug 30, 2004 for markups of the total project to get the total projected "construction costs" excluding soft project costs. Note these costs are highly volatile due to the present market conditions that we are still experiencing.

| | |
|------------------------|---------------|
| General Conditions | 7.5% |
| Phasing | 1.0% |
| G.C. Overhead & Profit | 5.5% |
| Base Escalation | 4.0% per year |
| At Risk Market Factor | 5.8% |
| Bid Contingency | 3.0% |

Add additional construction contingency as required.

In addition we have re-priced the conceptual maintenance building estimate dated 8-23-04 using the provided quantities. The total construction cost prior to design fees is \$ 1,038,600.

Sincerely,

Robert J. Goodie
 ESSENTIAL ESTIMATING & DESIGN

BELMONT HIGH SCHOOL BASE RENOVATION
5-17-04
BELMONT, MA

Project name **Belmont H.S. Base Reno**

Belmont
MA

Architect TDPC

Estimator ***Essential Estimating***

JUN 22 2004

ARCADD 99

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 2050.00 | | DEMOLITION | | 752,424 | 3,990 | /sqft | 816,995 |
| 2100.00 | | SITWORK | | 2,458 | 1,580,402 | /sqft | 2,802 |
| 3000.00 | | CONCRETE | | 101,999 | 265,180 | /sqft | 269,134 |
| 4000.00 | | MASONRY | | 276,832 | 86,599 | /sqft | 374,969 |
| 5000.00 | | METALS | | 131,893 | 112,102 | /sqft | 246,607 |
| 6000.00 | | WOOD & PLASTICS | | 89,773 | 59,432 | /sqft | 149,205 |
| 7000.00 | | THERMAL & MOISTURE PROT | | 292,379 | 207,008 | /sqft | 499,670 |
| 8000.00 | | DOORS & WINDOWS | | 228,937 | 936,214 | /sqft | 1,165,150 |
| 9000.00 | | FINISHES | | 1,351,978 | 1,029,413 | /sqft | 2,383,846 |
| 10000.00 | | SPECIALTIES | | 200,865 | 955,784 | /sqft | 1,156,649 |
| 11000.00 | | EQUIPMENT | | 83,170 | 151,315 | /sqft | 234,564 |
| 12000.00 | | FURNISHINGS (NOT TECHNOLOGY) | | 41,297 | 170,137 | /sqft | 211,434 |
| 14000.00 | | CONVEYING SYSTEMS | | 20,298 | 59,244 | /sqft | 82,370 |
| 15500.00 | | HVAC SYSTEMS | | 16,228 | 20,479 | /sqft | 36,707 |

Estimate Totals

| | | | |
|------------------------|------------------|------------|-----|
| Labor | 3,590,530 | 57,476,391 | hrs |
| Material | 3,945,767 | | |
| Equipment | 93,805 | 5,742,177 | hrs |
| | 7,630,102 | 7,630,102 | |
| Contingency Reno Study | 1,144,515 | 15.000 % | |
| Total | 8,774,617 | | |

NO NEW ROOF

ARCADD RDK (EXIST. COST. ONLY)

3,809,000 # 5,651,159 MECH. - Breakdown?
 # 474,000 # 2,325,798 HVAC, PH, FF
 ELEC. / LV

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------------|-------|----------------------------|------------------|----------------|-----------------|-----------------|----------------|
| 2050.00 | | DEMOLITION | | | | | |
| 2060.00 | | Demo: Building | 33,280.00 cuft | 12,066 | | 0.59 /cuft | 19,629 |
| 2071.01 | | Demo: General | 5,896.90 cuyd | 108,684 | 2,034 | 24.22 /cuyd | 142,830 |
| 2075.00 | | Demo: Concrete | 89.40 cuyd | 38,995 | | 500.60 /cuyd | 44,754 |
| 2076.00 | | Demo: Masonry | 12,977.00 cuft | 85,323 | | 7.37 /cuft | 95,664 |
| 2077.00 | | Demo: Steel | 1,139.00 each | 7,100 | | 6.28 /each | 7,151 |
| 2078.30 | | Demo: Misc Walls | 9,232.00 sqft | 8,962 | | 0.97 /sqft | 8,962 |
| 2079.00 | | Demo: Exterior Finishes | 4,040.00 sqft | 4,406 | | 1.09 /sqft | 4,406 |
| 2080.01 | | Demo: Millwork | 5,405.00 sqft | 18,807 | | 3.48 /sqft | 18,807 |
| 2084.01 | | Demo: Doors & Windows | 501.00 each | 42,449 | | 87.02 /each | 43,594 |
| 2084.50 | | Demo: Misc Items | 10,765.00 sqft | 84,438 | | 8.18 /sqft | 88,048 |
| 2088.01 | | Demo: Finishes, Floors | 188,748.00 sqft | 156,757 | 1,956 | 0.84 /sqft | 158,713 |
| 2088.21 | | Demo: Finishes, Walls | 7,010.00 sqft | 7,784 | | 1.11 /sqft | 7,784 |
| 2088.50 | | Demo: Finishes, Ceilings | 176,071.00 sqft | 138,298 | | 0.79 /sqft | 138,298 |
| 2088.60 | | Demo: Plumbing | 246.00 sqft | 21,488 | | 87.35 /sqft | 21,488 |
| 2088.70 | | Demo: Mechanical | 1,409.00 sqft | 12,829 | | 9.11 /sqft | 12,829 |
| 2088.80 | | Demo: Electrical | 242.00 sqft | 4,039 | | 16.69 /sqft | 4,039 |
| | | DEMOLITION | | 752,424 | 3,990 | /sqft | 816,995 |
| 2100.00 | | SITEWORK | | | | | |
| 2220.15 | | Earthwk: Dispose Surplus | 35.00 cuyd | 128 | | 8.26 /cuyd | 289 |
| 2220.20 | | Earthwk: Footings (Hand) | 2.60 cuyd | 189 | | 72.80 /cuyd | 189 |
| 2220.25 | | Earthwk: Footings (Mach) | 55.40 cuyd | 187 | | 5.36 /cuyd | 297 |
| 2220.30 | | Earthwk: Pits, Misc Excav | 25.40 cuyd | 1,849 | | 72.81 /cuyd | 1,849 |
| 2220.50 | | Backfill: Footing | 39.00 cuyd | 76 | | 3.29 /cuyd | 128 |
| 2220.60 | | Backfill: Pit, etc | 10.00 cuyd | 29 | | 4.93 /cuyd | 49 |
| | | SITEWORK | | 2,458 | | /sqft | 2,802 |
| 3000.00 | | CONCRETE | | | | | |
| 3111.00 | | Forms: Footings | 232.00 sqft | 1,007 | 297 | 5.62 /sqft | 1,303 |
| 3114.00 | | Forms: Walls | 608.00 sqft | 4,245 | 843 | 8.37 /sqft | 5,088 |
| 3131.00 | | Forms: Ramps | 473.00 lnft | 2,621 | 573 | 6.75 /lnft | 3,195 |
| 3164.00 | | Forms: Pits & Misc. | 328.00 sqft | 9,368 | 1,123 | 31.99 /sqft | 10,492 |
| 3206.00 | | Rebar: Footings | 0.12 ton | 130 | 134 | 2,196.58 /ton | 264 |
| 3209.00 | | Rebar: Walls | 0.11 ton | 83 | 123 | 1,877.46 /ton | 207 |
| 3214.00 | | Rebar: Pits & Misc | 0.51 ton | 424 | 570 | 1,949.37 /ton | 994 |
| 3306.00 | | Conc: Footings | 5.60 cuyd | 187 | 468 | 125.81 /cuyd | 705 |
| 3307.00 | | Conc: Walls | 11.30 cuyd | 439 | 969 | 134.88 /cuyd | 1,524 |
| 3309.50 | | Conc: Ramps | 19.40 cuyd | 592 | 1,753 | 128.70 /cuyd | 2,497 |
| 3310.01 | | Conc: Slabs On Grade | 37.50 cuyd | 11,852 | 21,138 | 879.74 /cuyd | 32,990 |
| 3312.00 | | Conc: Pit & Misc | 9.00 cuyd | 353 | 789 | 136.67 /cuyd | 1,230 |
| 3326.00 | | Conc: Slurry Coat | 115,401.00 sqft | 39,313 | 123,193 | 1.50 /sqft | 173,120 |
| 3328.00 | | Conc: Restoration | 195.00 sqft | 28,402 | 1,496 | 163.92 /sqft | 31,963 |
| 3375.00 | | Finish: Protect & Cure | 10.50 sqs | 163 | 85 | 23.59 /sqs | 248 |
| 3380.01 | | Finish: General | 1,050.00 sqft | 660 | | 0.63 /sqft | 660 |
| 3381.00 | | Finish: Floor Hardner | 7,446.00 sqft | 2,159 | 497 | 0.36 /sqft | 2,656 |
| | | CONCRETE | | 101,999 | 154,050 | /sqft | 269,134 |
| 4000.00 | | MASONRY | | | | | |
| 4050.10 | | Misc: Scaffold | 20,664.00 sqft | 15,231 | 6,204 | 1.21 /sqft | 24,957 |
| 4050.15 | | Misc: Material Handling | 23.00 m | | | 198.40 /m | 4,563 |
| 4105.00 | | Mortar: All Types | 60.60 cuyd | | 8,006 | 132.11 /cuyd | 8,006 |
| 4110.01 | | Mortar: Grout Fill Conc | 29.20 cuyd | 8,352 | 4,344 | 457.77 /cuyd | 13,367 |
| 4155.00 | | Access: Control Joint | 422.00 lnft | 1,736 | 342 | 4.93 /lnft | 2,078 |
| 4156.00 | | Access: Wall Flashing | 4,113.00 sqft | 10,663 | 11,731 | 5.45 /sqft | 22,394 |
| 4157.00 | | Reinforce: Vertical Wall | 4,130.00 lbs | 4,247 | 1,608 | 1.42 /lbs | 5,855 |
| 4158.00 | | Reinforce: Horizontal Wall | 15.12 mlf | 4,891 | 2,344 | 478.48 /mlf | 7,235 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------------|---------|------------------------------------|------------------|----------------|-----------------|-----------------|------------------|
| | 4221.15 | Conc. Block: 8" | 21,260.00 each | 148,891 | 38,709 | 8.82 /each | 187,600 |
| | 4221.45 | Conc. Block: 8" Lintel | 1,313.00 each | 13,707 | 6,772 | 16.44 /each | 21,592 |
| | 4520.01 | Masonry Restoration | 1.35 m | 14,918 | 444 | 12,615.24 /m | 17,031 |
| | 4710.10 | Cleaning: Masonry | 440.43 sqs | 54,197 | 6,095 | 136.90 /sqs | 60,292 |
| | | MASONRY | | 276,832 | 86,599 | /sqft | 374,969 |
| 5000.00 | | METALS | | | | | |
| | 5510.05 | Misc: Lintels | 19,886.00 lbs | 22,153 | 14,750 | 1.86 /lbs | 36,902 |
| | 5510.15 | Misc: Embedded Material | 8.00 each | 191 | 159 | 43.80 /each | 350 |
| | 5510.35 | Misc: Bolt On Material | 11,613.00 lbs | 27,848 | 19,009 | 4.12 /lbs | 47,828 |
| | 5510.61 | Misc: Ladders | 4.00 vlf | 198 | 226 | 107.59 /vlf | 430 |
| | 5510.63 | Misc: Channel Jambs | 114.00 lnft | 1,509 | 2,732 | 37.62 /lnft | 4,288 |
| | 5510.80 | Stairs: Stair Parts | 12.00 flt | 79,994 | 75,226 | 13,067.30 /flt | 156,808 |
| | | METALS | | 131,893 | 112,102 | /sqft | 246,607 |
| 6000.00 | | WOOD & PLASTICS | | | | | |
| | 6015.00 | Fasteners: Frame Anchors | 1.00 each | | 588 | 588.25 /each | 588 |
| | 6113.20 | Blocking: Misc. | 4.40 mbf | 22,409 | 8,027 | 6,917.12 /mbf | 30,435 |
| | 6113.40 | Blocking: Rough Bucks | 16.22 mbf | 41,859 | 17,439 | 3,655.87 /mbf | 59,298 |
| | 6250.00 | Prefinished Wood Paneling | 2,485.00 sqft | 15,193 | 20,549 | 14.38 /sqft | 35,743 |
| | 6410.03 | I Trim: Wood Benches | 64.00 lnft | 2,004 | 840 | 44.43 /lnft | 2,843 |
| | 6413.00 | I Trim: Dr & Window Matrl | 2,172.00 lnft | 7,635 | 11,642 | 8.88 /lnft | 19,278 |
| | 6440.10 | I Trim: Wood Base | 176.00 lnft | 673 | 346 | 5.79 /lnft | 1,019 |
| | | WOOD & PLASTICS | | 89,773 | 59,432 | /sqft | 149,205 |
| 7000.00 | | THERMAL & MOISTURE PROT | | | | | |
| | 7145.00 | Waterproofing: Cement. | 160.00 sqft | 291 | 337 | 4.12 /sqft | 659 |
| | 7250.01 | Fireproofing: Spray On | | | | /sqft | |
| | 7270.00 | Firestopping | 1,674.00 lnft | 2,207 | 1,167 | 2.02 /lnft | 3,374 |
| | 7410.00 | Metal Facing Panels | 4,952.00 sqft | 25,748 | 26,982 | 10.65 /sqft | 52,731 |
| | 7410.04 | Preformed Panels | 6,732.00 sqft | 71,336 | 165,815 | 35.23 /sqft | 237,151 |
| | 7910.01 | Sealant - Jt Filler Gaskt | 31,555.00 lnft | 192,796 | 12,706 | 6.52 /lnft | 205,755 |
| | | THERMAL & MOISTURE PROT | | 292,379 | 207,008 | /sqft | 499,670 |
| 8000.00 | | DOORS & WINDOWS | | | | | |
| | 8110.01 | Doors: Steel with Frames | 106.00 each | 23,107 | 24,124 | 445.58 /each | 47,231 |
| | 8210.01 | Doors: Wood | 479.00 each | 45,301 | 151,272 | 410.38 /each | 196,573 |
| | 8361.00 | Doors: Overhead | 4.00 each | 2,293 | 4,220 | 1,628.28 /each | 6,513 |
| | 8370.01 | Doors: Hardware | 4.00 sqft | 594 | 1,566 | 539.97 /sqft | 2,160 |
| | 8410.00 | Aluminum Doors & Frames | 67.00 each | 21,016 | 66,489 | 1,306.04 /each | 87,504 |
| | 8520.01 | Window: Aluminum | 7,526.00 sqft | 63,863 | 311,825 | 49.92 /sqft | 375,688 |
| | 8710.01 | Hardware: Finishing | 546.00 set | 58,404 | 311,960 | 678.32 /set | 370,365 |
| | 8811.00 | Glass: All Types | 223.00 sqft | 5,446 | 4,278 | 43.61 /sqft | 9,724 |
| | 8920.01 | Alum Window Walls | 908.00 sqft | 8,911 | 60,481 | 76.42 /sqft | 69,392 |
| | | DOORS & WINDOWS | | 228,937 | 936,214 | /sqft | 1,165,150 |
| 9000.00 | | FINISHES | | | | | |
| | 9210.01 | Lath/Plastr: Gyp Plaster | 2,670.00 sqft | 18,848 | 2,718 | 8.19 /sqft | 21,876 |
| | 9211.00 | Lath/Plastr: Finish Coat | 36,255.00 sqft | 110,005 | 17,739 | 3.58 /sqft | 129,889 |
| | 9251.50 | GWB Ext Frame: Misc. | 15,234.00 lnft | 54,642 | 15,194 | 4.58 /lnft | 69,836 |
| | 9253.10 | GWB: Fasteners | 1.00 each | 9,128 | 3,384 | 12,511.46 /each | 12,511 |
| | 9253.30 | GWB: Boards & Sheathing | 52,155.00 sqft | 44,585 | 18,722 | 1.21 /sqft | 63,308 |
| | 9254.00 | GWB: Finish Mud/Tape | 12,303.00 sqft | 9,234 | 1,172 | 0.85 /sqft | 10,406 |
| | 9260.00 | Blueboard | 36,255.00 sqft | 26,845 | 12,498 | 1.09 /sqft | 39,343 |
| | 9310.01 | Ceramic Tile | 14,847.00 sqft | 165,422 | 74,473 | 16.16 /sqft | 239,895 |
| | 9330.01 | Floor: Quarry Tile | 430.00 sqft | 6,225 | 2,534 | 20.37 /sqft | 8,759 |
| | 9510.10 | Ceiling: Susp. System | 36,255.00 sqft | 76,275 | 28,624 | 2.89 /sqft | 104,899 |
| | 9510.50 | Ceiling: 2x4 Tile | 100,337.00 sqft | 130,316 | 229,804 | 3.59 /sqft | 360,120 |
| | 9510.60 | Ceiling: 2x2 Tile | 38,679.00 sqft | 43,761 | 105,701 | 3.86 /sqft | 149,462 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|-----------------|----------|---------------------------|------------------|------------------|------------------|------------------|------------------|
| | 9560.01 | Flooring Wood Strip | 10,409.00 sqft | 62,512 | 57,083 | 11.49 /sqft | 119,595 |
| | 9660.01 | Flooring Resilient Tile | 151,291.00 sqft | 242,915 | 270,722 | 3.40 /sqft | 513,637 |
| | 9685.00 | Flooring Carpet | 2,461.00 sqyd | 19,179 | 59,604 | 32.01 /sqyd | 78,783 |
| | 9910.01 | Painting: Exterior | 10,413.00 sqft | 13,669 | 1,883 | 1.49 /sqft | 15,552 |
| | 9920.01 | Painting: Interior | 402,463.00 sqft | 301,431 | 97,791 | 0.99 /sqft | 399,222 |
| | 9960.05 | Sound Absorbing Panels | 3,533.00 sqft | 16,987 | 29,766 | 13.23 /sqft | 46,752 |
| | | FINISHES | | 1,351,978 | 1,029,413 | /sqft | 2,383,846 |
| 10000.00 | | SPECIALTIES | | | | | |
| | 10110.01 | Chalkboards/Tackboards | 3,392.00 sqft | 8,022 | 36,257 | 13.05 /sqft | 44,280 |
| | 10160.01 | Toilet Partition Metal | 37.00 each | 3,985 | 8,599 | 340.11 /each | 12,584 |
| | 10160.02 | Toilet Partition Phenolic | 62.00 each | 9,540 | 68,088 | 1,252.07 /each | 77,628 |
| | 10185.00 | Shower/Dressing Compart | 73.00 each | 20,942 | 65,428 | 1,183.15 /each | 86,370 |
| | 10410.01 | Directory/Bulletin Boards | 1.00 each | 431 | 1,257 | 1,687.36 /each | 1,687 |
| | 10420.01 | Plaques | 1.00 each | 352 | 2,383 | 2,734.57 /each | 2,735 |
| | 10430.01 | Signs | 282.00 each | 5,168 | 5,733 | 38.66 /each | 10,901 |
| | 10505.90 | Lockers | 1,788.00 each | 103,134 | 313,725 | 233.14 /each | 416,859 |
| | 10617.00 | Partitions Operable | 8,584.00 sqft | 27,735 | 405,224 | 50.44 /sqft | 432,959 |
| | 10800.01 | Toilet Accessories | 776.00 each | 21,556 | 49,090 | 91.04 /each | 70,647 |
| | | SPECIALTIES | | 200,865 | 955,784 | /sqft | 1,156,649 |
| 11000.00 | | EQUIPMENT | | | | | |
| | 11060.01 | Equip: Stage | 1.00 each | 18,070 | 13,383 | 31,453.09 /each | 31,453 |
| | 11110.01 | Equip: Laundry | 2.00 each | 911 | 1,270 | 1,090.56 /each | 2,181 |
| | 11164.00 | Equip: Dock | 21.00 each | 284 | 811 | 52.16 /each | 1,095 |
| | 11451.00 | Equip: Residential Food | 5.00 each | 825 | 5,298 | 1,224.54 /each | 6,123 |
| | 11460.01 | Unit Kitchen | 1.00 each | 727 | 3,608 | 4,335.34 /each | 4,335 |
| | 11490.01 | Equip: Gym | 1.00 lsum | 59,971 | 121,636 | 181,685.69 /lsum | 181,686 |
| | 11570.01 | Equip: Shop | 11.00 each | 2,382 | 5,309 | 699.13 /each | 7,690 |
| | | EQUIPMENT | | 83,170 | 151,315 | /sqft | 234,564 |
| 12000.00 | | FURNISHINGS | | | | | |
| | 12520.01 | Shades | 7,528.00 sqft | 5,955 | 10,715 | 2.21 /sqft | 16,670 |
| | 12620.00 | Furniture | 31.00 lnft | 2,336 | 13,065 | 496.79 /lnft | 15,401 |
| | 12710.00 | Misc Seating | 824.00 each | 33,006 | 146,357 | 217.67 /each | 179,363 |
| | | FURNISHINGS | | 41,297 | 170,137 | /sqft | 211,434 |
| 14000.00 | | CONVEYING SYSTEMS | | | | | |
| | 14001.00 | Elevators | 1.00 each | 18,216 | 46,862 | 67,626.19 /each | 67,626 |
| | 14405.00 | Lifts | 1.00 each | 2,082 | 12,382 | 14,743.55 /each | 14,744 |
| | | CONVEYING SYSTEMS | | 20,298 | 59,244 | /sqft | 82,370 |
| 15500.00 | | HVAC SYSTEMS | | | | | |
| | 15856.00 | Louvers/Filters | 618.00 sqft | 16,228 | 20,479 | 59.40 /sqft | 36,707 |
| | | HVAC SYSTEMS | | 16,228 | 20,479 | /sqft | 36,707 |

Estimate Totals

| | | | |
|------------------------|------------------|------------|-----|
| Labor | 3,590,530 | 57,476.391 | hrs |
| Material | 3,945,767 | | |
| Equipment | 93,805 | 5,742.177 | hrs |
| | <u>7,630,102</u> | 7,630,102 | |
| Contingency Reno Study | 1,144,515 | 15.000 % | |
| Total | 8,774,617 | | |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------------|---------|----------------------------------|-----------------------|----------------|-----------------|---------------------|----------------|
| 2050.00 | | DEMOLITION | | | | | |
| | 2060.00 | Demo: Building | | | | | |
| | | Remo Temp Classrooms | 33,280.00 cuft | 5,491 | - | 0.27 /cuft | 8,913 |
| | | Disposal Building | 1,232.60 cuyd | 6,575 | - | 8.69 /cuyd | 10,716 |
| | | Demo: Building | 33,280.00 cuft | 12,066 | | 0.59 /cuft | 19,629 |
| | 2071.01 | Demo: General | | | | | |
| | | General Disposal | 5,896.90 cuyd | 80,692 | - | 18.83 /cuyd | 111,050 |
| | | Shore - Screw Jack | 42.00 each | 27,992 | 2,034 | 756.66 /each | 31,780 |
| | | Demo: General | 5,896.90 cuyd | 108,684 | 2,034 | 24.22 /cuyd | 142,830 |
| | 2075.00 | Demo: Concrete | | | | | |
| | | Saw Concrete Slab to 6" | 3,066.00 lnft | 12,200 | - | 5.04 /lnft | 15,454 |
| | | Remove Tiered Seating | 1,296.00 sqft | 11,083 | - | 9.35 /sqft | 12,113 |
| | | Remove Slab on Grade | 3,066.00 sqft | 14,378 | - | 5.13 /sqft | 15,714 |
| | | Remove Ramp | 210.00 sqft | 1,334 | - | 7.01 /sqft | 1,472 |
| | | Demo: Concrete | 89.40 cuyd | 38,995 | | 500.60 /cuyd | 44,754 |
| | 2076.00 | Demo: Masonry | | | | | |
| | | Cut Out Opng 8" CMU | 294.00 sqft | 5,356 | - | 20.15 /sqft | 5,924 |
| | | Sawcut 8" CMU | 336.00 lnft | 33,243 | - | 113.26 /lnft | 38,056 |
| | | Remove CMU 8" | 19,368.00 sqft | 46,724 | - | 2.67 /sqft | 51,684 |
| | | Demo: Masonry | 12,977.00 cuft | 85,323 | | 7.37 /cuft | 95,664 |
| | 2077.00 | Demo: Steel | | | | | |
| | | Remove Metal Stair 4' | 3.00 risr | 208 | - | 86.14 /risr | 258 |
| | | Remove Steel Rail | 1,136.00 lnft | 6,892 | - | 6.07 /lnft | 6,892 |
| | | Demo: Steel | 1,139.00 each | 7,100 | | 6.28 /each | 7,151 |
| | 2078.30 | Demo: Misc Walls | | | | | |
| | | Remove Movable Wall | 9,232.00 sqft | 8,962 | - | 0.97 /sqft | 8,962 |
| | | Demo: Misc Walls | 9,232.00 sqft | 8,962 | | 0.97 /sqft | 8,962 |
| | 2079.00 | Demo: Exterior Finishes | | | | | |
| | | Remove Aluminum Siding Verticle | 4,040.00 sqft | 4,406 | - | 1.09 /sqft | 4,406 |
| | | Demo: Exterior Finishes | 4,040.00 sqft | 4,406 | | 1.09 /sqft | 4,406 |
| | 2080.01 | Demo: Millwork | | | | | |
| | | Remove Wall Cabinets | 36.00 lnft | 349 | - | 9.71 /lnft | 349 |
| | | Remove Casework | 3,891.00 lnft | 12,276 | - | 3.16 /lnft | 12,276 |
| | | Remove Wood Paneling | 392.00 sqft | 438 | - | 1.12 /sqft | 438 |
| | | Remove Wood Sill | 1,086.00 lnft | 5,744 | - | 5.29 /lnft | 5,744 |
| | | Demo: Millwork | 5,405.00 sqft | 18,807 | | 3.48 /sqft | 18,807 |
| | 2084.01 | Demo: Doors & Windows | | | | | |
| | | Remove Door | 413.00 each | 8,018 | - | 19.42 /each | 8,018 |
| | | Remove Door & Frame Int Single | 41.00 each | 2,786 | - | 80.02 /each | 3,281 |
| | | Remove Door Frame Int Double | 1.00 each | 78 | - | 91.45 /each | 91 |
| | | Remove Door & Frame Ext Single | 17.00 each | 1,320 | - | 91.45 /each | 1,555 |
| | | Remove Door & Frame Ext Double | 25.00 each | 2,265 | - | 106.71 /each | 2,668 |
| | | Remove Transom or Borrowed Lite | 223.00 sqft | 1,096 | - | 4.91 /sqft | 1,096 |
| | | Remove Overhead Door | 4.00 each | 1,077 | - | 269.25 /each | 1,077 |
| | | Remove Metal Windows | 7,528.00 sqft | 11,692 | - | 1.55 /sqft | 11,692 |
| | | Remove Curtainwall | 908.00 sqft | 1,278 | - | 1.41 /sqft | 1,278 |
| | | Remove Trans Panel | 6,732.00 sqft | 10,646 | - | 1.58 /sqft | 10,646 |
| | | Remove Window Treatment | 7,528.00 sqft | 2,192 | - | 0.29 /sqft | 2,192 |
| | | Demo: Doors & Windows | 501.00 each | 42,449 | | 87.02 /each | 43,594 |
| | 2084.50 | Demo: Misc Items | | | | | |
| | | Remove Chalkboards | 2,544.00 sqft | 2,346 | - | 0.92 /sqft | 2,346 |
| | | Remove Tackboard | 848.00 sqft | 741 | - | 0.87 /sqft | 741 |
| | | Remove Toilet Partitions | 62.00 each | 3,009 | - | 48.54 /each | 3,009 |
| | | Remove Urinal Screen | 39.00 each | 1,325 | - | 33.98 /each | 1,325 |
| | | Remove Toilet Accessories | 231.00 each | 1,402 | - | 6.07 /each | 1,402 |
| | | Remove Lockers | 1,735.00 each | 24,085 | - | 13.88 /each | 24,085 |
| | | Remove Stage Curtain | 700.00 sqft | 476 | - | 0.68 /sqft | 476 |
| | | Remove Dock Bumpers | 21.00 lnft | 105 | - | 5.00 /lnft | 105 |
| | | Remover Washer | 1.00 each | 65 | - | 64.55 /each | 65 |
| | | Remove Dryer | 1.00 each | 65 | - | 64.55 /each | 65 |
| | | Remove Kitchen Equipment Allow | 1.00 each | 2,591 | - | 2,590.55 /each | 2,591 |
| | | Remove Stove | 1.00 each | 55 | - | 55.48 /each | 55 |
| | | Remove Oven | 1.00 each | 65 | - | 64.75 /each | 65 |
| | | Remove Refrigerator | 3.00 each | 387 | - | 129.11 /each | 387 |
| | | Remove Kitchen Work Table | 264.00 lnft | 2,591 | - | 9.82 /lnft | 2,591 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|---------|-------|----------------------------------|------------------------|----------------|-----------------|--------------------|----------------|
| 2084.50 | | Demo: Misc Items | | | | | |
| | | Remove Walk In Cooler | 1.00 each | 255 | - | 255.11 /each | 255 |
| | | Remove Seats | 824.00 each | 10,739 | - | 13.03 /each | 10,739 |
| | | Remove Benches | 413.00 lnft | 2,506 | - | 6.07 /lnft | 2,506 |
| | | Remove Bleachers | 1,008.00 each | 12,525 | - | 14.63 /each | 14,749 |
| | | Remove Accoustic Wall Panels | 1,320.00 sqft | 897 | - | 0.68 /sqft | 897 |
| | | Remove Basketball Backstops | 14.00 each | 6,107 | - | 436.25 /each | 6,107 |
| | | Remove Wall Padding | 720.00 sqft | 393 | - | 0.55 /sqft | 393 |
| | | Remove Shop Equipment | 11.00 each | 1,784 | - | 162.23 /each | 1,784 |
| | | Remove Elevator | 2.00 stop | 9,925 | - | 5,655.66 /stop | 11,311 |
| | | Demo: Misc Items | 10,765.00 sqft | 84,438 | | 8.18 /sqft | 88,048 |
| 2088.01 | | Demo: Finishes, Floors | | | | | |
| | | Remove Carpet & Pad | 21,735.00 sqft | 8,440 | - | 0.39 /sqft | 8,440 |
| | | Remove Vinyl Tile | 115,401.00 sqft | 89,619 | - | 0.78 /sqft | 89,619 |
| | | Remove Athletic Sheet Flooring | 29,274.00 sqft | 28,734 | - | 0.98 /sqft | 28,734 |
| | | Resilient Sheet Flooring | 2,760.00 sqft | 1,656 | - | 0.60 /sqft | 1,656 |
| | | Remove Wood Floor | 10,409.00 sqft | 17,180 | - | 1.65 /sqft | 17,180 |
| | | Remove Ceramic Tile Floor | 7,125.00 sqft | 7,954 | - | 1.12 /sqft | 7,954 |
| | | Remove Quarry Tile Floors | 430.00 sqft | 522 | - | 1.21 /sqft | 522 |
| | | Flash Patch @ Wall Removal | 1,614.00 sqft | 2,652 | 1,956 | 2.86 /sqft | 4,608 |
| | | Demo: Finishes, Floors | 188,748.00 sqft | 156,757 | 1,956 | 0.84 /sqft | 158,713 |
| 2088.21 | | Demo: Finishes, Walls | | | | | |
| | | Remove Wood Panel But No Studs | 5,690.00 sqft | 7,136 | - | 1.25 /sqft | 7,136 |
| | | Remove Tectum Walls | 1,320.00 sqft | 648 | - | 0.49 /sqft | 648 |
| | | Demo: Finishes, Walls | 7,010.00 sqft | 7,784 | | 1.11 /sqft | 7,784 |
| 2088.50 | | Demo: Finishes, Ceilings | | | | | |
| | | Rem. Acoust Tile & Grid | 156,407.00 sqft | 113,873 | - | 0.73 /sqft | 113,873 |
| | | Rem. Plastic & Grid | 980.00 sqft | 908 | - | 0.93 /sqft | 908 |
| | | Remove Tectum | 2,470.00 sqft | 1,482 | - | 0.60 /sqft | 1,482 |
| | | Remove Plaster Ceiling Framing | 16,214.00 sqft | 22,035 | - | 1.36 /sqft | 22,035 |
| | | Demo: Finishes, Ceilings | 176,071.00 sqft | 138,298 | | 0.79 /sqft | 138,298 |
| 2088.60 | | Demo: Plumbing | | | | | |
| | | Remove Sink | 59.00 each | 4,795 | - | 81.27 /each | 4,795 |
| | | Remove Water Closet | 75.00 each | 6,967 | - | 92.89 /each | 6,967 |
| | | Remove Urinal | 39.00 each | 6,339 | - | 162.54 /each | 6,339 |
| | | Remove Shower Compartment | 73.00 each | 3,387 | - | 46.40 /each | 3,387 |
| | | Demo: Plumbing | 246.00 sqft | 21,488 | | 87.35 /sqft | 21,488 |
| 2088.70 | | Demo: Mechanical | | | | | |
| | | Remove Louvers | 618.00 sqft | 4,289 | - | 6.94 /sqft | 4,289 |
| | | Remove Unit Vent | 692.00 lnft | 7,456 | - | 10.78 /lnft | 7,456 |
| | | Remove Unit Heater Clg | 3.00 each | 591 | - | 196.86 /each | 591 |
| | | Remove Ductwork Avg | 96.00 lnft | 492 | - | 5.13 /lnft | 492 |
| | | Demo: Mechanical | 1,409.00 sqft | 12,829 | | 9.11 /sqft | 12,829 |
| 2088.80 | | Demo: Electrical | | | | | |
| | | Remove Light | 242.00 each | 4,039 | - | 16.69 /each | 4,039 |
| | | Demo: Electrical | 242.00 sqft | 4,039 | | 16.69 /sqft | 4,039 |
| | | DEMOLITION | | 752,424 | 3,990 | /sqft | 816,995 |
| 2100.00 | | SITWORK | | | | | |
| 2220.15 | | Earthwk: Dispose Surplus | | | | | |
| | | Dispose Surplus | 35.00 cuyd | 128 | - | 8.26 /cuyd | 289 |
| | | Earthwk: Dispose Surplus | 35.00 cuyd | 128 | | 8.26 /cuyd | 289 |
| 2220.20 | | Earthwk: Footings (Hand) | | | | | |
| | | Excavate Footing By Hand | 2.60 cuyd | 189 | - | 72.80 /cuyd | 189 |
| | | Earthwk: Footings (Hand) | 2.60 cuyd | 189 | | 72.80 /cuyd | 189 |
| 2220.25 | | Earthwk: Footings (Mach) | | | | | |
| | | Excavate Footing By Machine | 55.42 cuyd | 187 | - | 5.35 /cuyd | 297 |
| | | Earthwk: Footings (Mach) | 55.40 cuyd | 187 | | 5.36 /cuyd | 297 |
| 2220.30 | | Earthwk: Pits, Misc Excav | | | | | |
| | | Excavate Misc By Hand | 25.40 cuyd | 1,849 | - | 72.81 /cuyd | 1,849 |
| | | Earthwk: Pits, Misc Excav | 25.40 cuyd | 1,849 | | 72.81 /cuyd | 1,849 |
| 2220.50 | | Backfill: Footing | | | | | |
| | | Backfill Footings-Exist | 39.00 cuyd | 76 | - | 3.29 /cuyd | 128 |
| | | Backfill: Footing | 39.00 cuyd | 76 | | 3.29 /cuyd | 128 |
| 2220.60 | | Backfill: Pit, etc | | | | | |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------------|---------|------------------------------|------------------|----------------|-----------------|-----------------|----------------|
| | 2220.60 | Backfill: Pit, etc | | | | | |
| | | Backfill Pits | 10.00 cuyd | 29 | 0 | 4.93 /cuyd | 49 |
| | | Backfill: Pit, etc | 10.00 cuyd | 29 | | 4.93 /cuyd | 49 |
| | | SITWORK | | 2,458 | | /sqft | 2,802 |
| 3000.00 | | CONCRETE | | | | | |
| | 3111.00 | Forms: Footings | | | | | |
| | | Footing Forms 2 Use | 156.00 sqft | 701 | 231 | 5.97 /sqft | 932 |
| | | Keyway In Footing | 76.00 lnft | 306 | 66 | 4.89 /lnft | 372 |
| | | Forms: Footings | 232.00 sqft | 1,007 | 297 | 5.62 /sqft | 1,303 |
| | 3114.00 | Forms: Walls | | | | | |
| | | Wall Forms | 608.00 sqft | 4,245 | 843 | 8.37 /sqft | 5,088 |
| | | Forms: Walls | 608.00 sqft | 4,245 | 843 | 8.37 /sqft | 5,088 |
| | 3131.00 | Forms: Ramps | | | | | |
| | | Ramp Forms 2 use | 473.00 lnft | 2,621 | 573 | 6.75 /lnft | 3,195 |
| | | Forms: Ramps | 473.00 lnft | 2,621 | 573 | 6.75 /lnft | 3,195 |
| | 3164.00 | Forms: Pits & Misc. | | | | | |
| | | Pit Forms | 328.00 sqft | 9,368 | 1,123 | 31.99 /sqft | 10,492 |
| | | Forms: Pits & Misc. | 328.00 sqft | 9,368 | 1,123 | 31.99 /sqft | 10,492 |
| | 3206.00 | Rebar: Footings | | | | | |
| | | Footing Rebar #5 | 0.12 ton | 130 | 134 | 2,196.58 /ton | 264 |
| | | Rebar: Footings | 0.12 ton | 130 | 134 | 2,196.58 /ton | 264 |
| | 3209.00 | Rebar: Walls | | | | | |
| | | Wall Rebar #5 | 0.11 ton | 83 | 123 | 1,877.46 /ton | 207 |
| | | Rebar: Walls | 0.11 ton | 83 | 123 | 1,877.46 /ton | 207 |
| | 3214.00 | Rebar: Pits & Misc | | | | | |
| | | Pit-Misc Rebar #5 | 0.51 ton | 424 | 570 | 1,949.35 /ton | 994 |
| | | Rebar: Pits & Misc | 0.51 ton | 424 | 570 | 1,949.35 /ton | 994 |
| | 3306.00 | Conc: Footings | | | | | |
| | | Footing Conc 3000 psi | 5.63 cuyd | 187 | 468 | 125.14 /cuyd | 705 |
| | | Conc: Footings | 5.60 cuyd | 187 | 468 | 125.81 /cuyd | 705 |
| | 3307.00 | Conc: Walls | | | | | |
| | | Wall Conc 4000 psi | 11.26 cuyd | 439 | 969 | 135.36 /cuyd | 1,524 |
| | | Conc: Walls | 11.30 cuyd | 439 | 969 | 134.88 /cuyd | 1,524 |
| | 3309.50 | Conc: Ramps | | | | | |
| | | Ramp Conc 4000 psi | 19.44 cuyd | 592 | 1,753 | 128.43 /cuyd | 2,497 |
| | | Conc: Ramps | 19.40 cuyd | 592 | 1,753 | 128.70 /cuyd | 2,497 |
| | 3310.01 | Conc: Slabs On Grade | | | | | |
| | | Patch Conc. Slab Trench etc. | 3,066.00 sqft | 11,852 | 21,138 | 10.76 /sqft | 32,990 |
| | | Conc: Slabs On Grade | 37.50 cuyd | 11,852 | 21,138 | 879.74 /cuyd | 32,990 |
| | 3312.00 | Conc: Pit & Misc | | | | | |
| | | Pit Conc 4000 psi | 9.00 cuyd | 353 | 789 | 136.67 /cuyd | 1,230 |
| | | Conc: Pit & Misc | 9.00 cuyd | 353 | 789 | 136.67 /cuyd | 1,230 |
| | 3326.00 | Conc: Slurry Coat | | | | | |
| | | Leveling Compound | 115,401.00 sqft | 39,313 | 123,193 | 1.50 /sqft | 173,120 |
| | | Conc: Slurry Coat | 115,401.00 sqft | 39,313 | 123,193 | 1.50 /sqft | 173,120 |
| | 3328.00 | Conc: Restoration | | | | | |
| | | Patch Concrete Wall | 12.00 sqft | 116 | 98 | 17.84 /sqft | 214 |
| | | Patch Concrete Wall | 171.00 sqft | 1,944 | 1,398 | 19.54 /sqft | 3,341 |
| | | Pressure Injected Grout | 12.00 dy | 26,342 | - | 2,367.34 /dy | 28,408 |
| | | Conc: Restoration | 195.00 sqft | 28,402 | 1,496 | 163.92 /sqft | 31,963 |
| | 3375.00 | Finish: Protect & Cure | | | | | |
| | | Cure Conc w/burlap Ramp | 10.50 sqs | 163 | 85 | 23.59 /sqs | 248 |
| | | Finish: Protect & Cure | 10.50 sqs | 163 | 85 | 23.59 /sqs | 248 |
| | 3380.01 | Finish: General | | | | | |
| | | Broom/Float Finish Ramp | 1,050.00 sqft | 660 | - | 0.63 /sqft | 660 |
| | | Finish: General | 1,050.00 sqft | 660 | | 0.63 /sqft | 660 |
| | 3381.00 | Finish: Floor Hardner | | | | | |
| | | Reseal Concrete | 7,446.00 sqft | 2,159 | 497 | 0.36 /sqft | 2,656 |
| | | Finish: Floor Hardner | 7,446.00 sqft | 2,159 | 497 | 0.36 /sqft | 2,656 |
| | | CONCRETE | | 101,999 | 154,050 | /sqft | 269,134 |
| 4000.00 | | MASONRY | | | | | |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|---------|---------------------------|---------------------------------|------------------|----------------|-----------------|-----------------|----------------|
| 4050.10 | Misc: Scaffold | | | | | | |
| | | Interior Scaffold | 20,664.00 sqft | 15,231 | 6,204 | 1.21 /sqft | 24,957 |
| | Misc: Scaffold | | 20,664.00 sqft | 15,231 | 6,204 | 1.21 /sqft | 24,957 |
| 4050.15 | Misc: Material Handling | | | | | | |
| | | Concrete Block | 23.00 m | - | - | 198.40 /m | 4,563 |
| | Misc: Material Handling | | 23.00 m | | | 198.40 /m | 4,563 |
| 4105.00 | Mortar: All Types | | | | | | |
| | | Mortar Type "N" | 60.60 cuyd | - | 8,006 | 132.11 /cuyd | 8,006 |
| | Mortar: All Types | | 60.60 cuyd | | 8,006 | 132.11 /cuyd | 8,006 |
| 4110.01 | Mortar: Grout Fill Conc | | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | 29.21 cuyd | 4,415 | 3,088 | 269.03 /cuyd | 7,858 |
| | | Grout Single Door Frame | 79.00 each | 2,699 | 852 | 47.69 /each | 3,768 |
| | | Grout Double Door Frame | 27.00 each | 1,238 | 404 | 64.48 /each | 1,741 |
| | Mortar: Grout Fill Conc | | 29.20 cuyd | 8,352 | 4,344 | 457.77 /cuyd | 13,367 |
| 4155.00 | Access: Control Joint | | | | | | |
| | | Control Joint PEJ - 4" | 211.00 lnft | 362 | 241 | 2.86 /lnft | 603 |
| | | Control Joint Sealant | 211.00 lnft | 1,374 | 101 | 6.99 /lnft | 1,475 |
| | Access: Control Joint | | 422.00 lnft | 1,736 | 342 | 4.93 /lnft | 2,078 |
| 4156.00 | Access: Wall Flashing | | | | | | |
| | | Flash Head Lead Ct. Cop 5 oz. | 1,694.00 sqft | 4,666 | 5,014 | 5.72 /sqft | 9,681 |
| | | Flash Sill Lead Ct. Cop 5 oz. | 2,419.00 sqft | 5,997 | 6,717 | 5.26 /sqft | 12,713 |
| | Access: Wall Flashing | | 4,113.00 sqft | 10,663 | 11,731 | 5.45 /sqft | 22,394 |
| 4157.00 | Reinforce: Vertical Wall | | | | | | |
| | | Re-Bar #5 & #6 | 4,130.32 lbs | 4,247 | 1,608 | 1.42 /lbs | 5,855 |
| | Reinforce: Vertical Wall | | 4,130.00 lbs | 4,247 | 1,608 | 1.42 /lbs | 5,855 |
| 4158.00 | Reinforce: Horizontl Wall | | | | | | |
| | | Horiz Wall Reinf 8" Hot Dipd | 15.12 mlf | 4,891 | 2,344 | 478.48 /mlf | 7,235 |
| | Reinforce: Horizontl Wall | | 15.12 mlf | 4,891 | 2,344 | 478.48 /mlf | 7,235 |
| 4221.15 | Conc. Block: 8" | | | | | | |
| | | Blk 8" Standard Face Reg Wt | 19,906.00 each | 137,929 | 35,452 | 8.71 /each | 173,381 |
| | | Blk 8" 2 hr Stand Face Reg Wt | 1,354.00 each | 10,962 | 3,257 | 10.50 /each | 14,219 |
| | Conc. Block: 8" | | 21,260.00 each | 148,891 | 38,709 | 8.82 /each | 187,600 |
| 4221.45 | Conc. Block: 8" Lintel | | | | | | |
| | | Lintel 8" Stand Face Reg Wt | 1,313.00 each | 13,707 | 6,772 | 16.44 /each | 21,592 |
| | Conc. Block: 8" Lintel | | 1,313.00 each | 13,707 | 6,772 | 16.44 /each | 21,592 |
| 4520.01 | Masonry Restoration | | | | | | |
| | | Cut & Repoint Brick Soft Mortr | 12.00 sqft | 50 | 4 | 5.71 /sqft | 69 |
| | | Repoint Brick Soft Mortar | 144.00 sqft | 395 | 54 | 3.12 /sqft | 449 |
| | | Remove Individual Brick | 81.00 each | 3,107 | - | 49.36 /each | 3,998 |
| | | Patch Individual Brick | 81.00 each | 756 | 58 | 10.06 /each | 815 |
| | | Remove CMU 8" | 220.00 each | 7,192 | - | 36.16 /each | 7,955 |
| | | Patch in 8" CMU | 220.00 each | 3,418 | 328 | 17.03 /each | 3,746 |
| | Masonry Restoration | | 1.35 m | 14,918 | 444 | 12,615.24 /m | 17,031 |
| 4710.10 | Cleaning: Masonry | | | | | | |
| | | Clean Exist Brick Smooth | 363.13 sqs | 45,586 | 5,734 | 141.33 /sqs | 51,320 |
| | | Clean Precast | 7,730.00 sqft | 8,611 | 361 | 1.16 /sqft | 8,972 |
| | Cleaning: Masonry | | 440.43 sqs | 54,197 | 6,095 | 136.90 /sqs | 60,292 |
| | MASONRY | | | 276,832 | 86,599 | /sqft | 374,969 |
| 5000.00 | METALS | | | | | | |
| 5510.05 | Misc: Lintels | | | | | | |
| | | Stl Angles > 4000 lbs | 19,886.00 lb | 22,153 | 14,750 | 1.86 /lb | 36,902 |
| | Misc: Lintels | | 19,886.00 lbs | 22,153 | 14,750 | 1.86 /lbs | 36,902 |
| 5510.15 | Misc: Embedded Material | | | | | | |
| | | Embedded Angle in Concrete LF | 8.00 lnft | 191 | 159 | 43.80 /lnft | 350 |
| | Misc: Embedded Material | | 8.00 each | 191 | 159 | 43.80 /each | 350 |
| 5510.35 | Misc: Bolt On Material | | | | | | |
| | | Angle Bolted To Masonry | 11,613.00 lb | 27,848 | 19,009 | 4.12 /lb | 47,828 |
| | Misc: Bolt On Material | | 11,613.00 lbs | 27,848 | 19,009 | 4.12 /lbs | 47,828 |
| 5510.61 | Misc: Ladders | | | | | | |
| | | Ladders | 4.00 vlf | 198 | 226 | 107.60 /vlf | 430 |
| | Misc: Ladders | | 4.00 vlf | 198 | 226 | 107.60 /vlf | 430 |
| 5510.63 | Misc: Channel Jambs | | | | | | |
| | | Channel Jambs 10" | 114.00 lnft | 1,509 | 2,732 | 37.62 /lnft | 4,288 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|---------|-------|--|------------------|----------------|-----------------|-----------------|----------------|
| | | Misc: Channel Jamb | 114.00 Inft | 1,509 | 2,732 | 37.62 /Inft | 4,288 |
| 5510.80 | | Stairs: Stair Parts | | | | | |
| | | Custom Steel Stairs 4'-0" | 3.00 risr | 348 | 1,221 | 526.95 /risr | 1,581 |
| | | Stair Railing Steel 1-1/2" 6 pipe | 821.00 Inft | 33,025 | 49,345 | 101.69 /Inft | 83,485 |
| | | Stair Railing Galv 1-1/2" 6 pipe | 121.00 Inft | 4,867 | 8,746 | 113.86 /Inft | 13,778 |
| | | Wall Rail Steel 1-1/2" 1 pipe | 241.00 Inft | 4,195 | 3,069 | 30.73 /Inft | 7,407 |
| | | Wall Railing Steel 1-1/2" 2 Pipe | 169.00 Inft | 4,131 | 3,937 | 48.57 /Inft | 8,208 |
| | | Landing Steel Pan | 20.00 sqft | 386 | 1,353 | 87.61 /sqft | 1,752 |
| | | Metal Riser Infill | 1,270.00 Inft | 33,042 | 7,555 | 31.97 /Inft | 40,597 |
| | | Stairs: Stair Parts | 12.00 flt | 79,994 | 75,226 | 13,067.30 /flt | 156,808 |
| | | METALS | | 131,893 | 112,102 | /sqft | 246,607 |
| 6000.00 | | WOOD & PLASTICS | | | | | |
| 6015.00 | | Fasteners: Frame Anchors | | | | | |
| | | Fastners & Misc | 1.00 lsum | - | 588 | 588.25 /lsum | 588 |
| | | Fasteners: Frame Anchors | 1.00 each | | 588 | 588.25 /each | 588 |
| 6113.20 | | Blocking: Misc. | | | | | |
| | | Block Toilet Partition | 75.00 each | 1,646 | 955 | 34.68 /each | 2,601 |
| | | Block H.C. Toilet Partition | 24.00 each | 791 | 379 | 48.75 /each | 1,170 |
| | | Block Misc Toilet Accessories | 776.00 each | 10,231 | 4,142 | 18.52 /each | 14,373 |
| | | Blocking 2 x 4 R.L. | 2,320.00 Inft | 4,741 | 1,044 | 2.49 /Inft | 5,785 |
| | | Blocking 2 x 6 R.L. | 1,996.00 Inft | 5,000 | 1,506 | 3.26 /Inft | 6,506 |
| | | Blocking: Misc. | 4.40 mbf | 22,409 | 8,027 | 6,917.12 /mbf | 30,435 |
| 6113.40 | | Blocking: Rough Bucks | | | | | |
| | | Rough Bucks 2 x 6 Doors | 1,094.00 Inft | 1,988 | 826 | 2.57 /Inft | 2,814 |
| | | Rough Bucks 2 x 6 PT Doors | 903.00 Inft | 1,641 | 992 | 2.92 /Inft | 2,633 |
| | | 2 x 6 PT Louvers | 1,280.00 Inft | 2,512 | 1,406 | 3.06 /Inft | 3,918 |
| | | Rough Bucks 2 x 6 PT Windows | 12,942.00 Inft | 35,718 | 14,216 | 3.86 /Inft | 49,934 |
| | | Blocking: Rough Bucks | 16.22 mbf | 41,859 | 17,439 | 3,655.87 /mbf | 59,298 |
| 6250.00 | | Prefinished Wood Paneling | | | | | |
| | | Raised Wood Panel Arch Grade | 2,485.00 sqft | 15,193 | 20,549 | 14.38 /sqft | 35,743 |
| | | Prefinished Wood Paneling | 2,485.00 sqft | 15,193 | 20,549 | 14.38 /sqft | 35,743 |
| 6410.03 | | I Trim: Wood Benches | | | | | |
| | | Custom Oak Bench | 64.00 Inft | 2,004 | 840 | 44.43 /Inft | 2,843 |
| | | I Trim: Wood Benches | 64.00 Inft | 2,004 | 840 | 44.43 /Inft | 2,843 |
| 6413.00 | | I Trim: Dr & Window Matrl | | | | | |
| | | Window Stools (Wood) | 1,086.00 Inft | 5,115 | 9,562 | 13.52 /Inft | 14,677 |
| | | Apron At Stools | 1,086.00 Inft | 2,520 | 2,080 | 4.24 /Inft | 4,601 |
| | | I Trim: Dr & Window Matrl | 2,172.00 Inft | 7,635 | 11,642 | 8.88 /Inft | 19,278 |
| 6440.10 | | I Trim: Wood Base | | | | | |
| | | Wood Base 6" | 176.00 Inft | 673 | 346 | 5.79 /Inft | 1,019 |
| | | I Trim: Wood Base | 176.00 Inft | 673 | 346 | 5.79 /Inft | 1,019 |
| | | WOOD & PLASTICS | | 89,773 | 59,432 | /sqft | 149,205 |
| 7000.00 | | THERMAL & MOISTURE PROT | | | | | |
| 7145.00 | | Waterproofing: Cement. | | | | | |
| | | Cement W.P. 1 ct 1/8" | 160.00 sqft | 291 | 337 | 4.12 /sqft | 659 |
| | | Waterproofing: Cement. | 160.00 sqft | 291 | 337 | 4.12 /sqft | 659 |
| 7250.01 | | Fireproofing: Spray On | | | | | |
| | | <i>Fireprfg Sprayd Cemt Beams Allow?</i> | <i>sqft</i> | | | <i>/sqft</i> | |
| 7270.00 | | Firestopping | | | | | |
| | | Firesafing | 1,674.00 Inft | 2,207 | 1,167 | 2.02 /Inft | 3,374 |
| | | Firestopping | 1,674.00 Inft | 2,207 | 1,167 | 2.02 /Inft | 3,374 |
| 7410.00 | | Metal Facing Panels | | | | | |
| | | Metal Facing Panel Ins 18ga | 4,952.00 sqft | 25,748 | 26,982 | 10.65 /sqft | 52,731 |
| | | Metal Facing Panels | 4,952.00 sqft | 25,748 | 26,982 | 10.65 /sqft | 52,731 |
| 7410.04 | | Preformed Panels | | | | | |
| | | Translucent Panel System | 6,732.00 sqft | 71,336 | 165,815 | 35.23 /sqft | 237,151 |
| | | Preformed Panels | 6,732.00 sqft | 71,336 | 165,815 | 35.23 /sqft | 237,151 |
| 7910.01 | | Sealant - Jt Filler Gaskt | | | | | |
| | | Backer Rod 1/2" | 15,125.00 Inft | 25,922 | 693 | 1.76 /Inft | 26,614 |
| | | Polysulfide Sealant 1/4" Interior | 1,094.00 Inft | 5,719 | 200 | 5.41 /Inft | 5,919 |
| | | Polyurethane Sealant 1/2" | 30,250.00 Inft | 160,713 | 11,780 | 5.70 /Inft | 172,494 |
| | | Rake Out Masonry Jt. Filler | 211.00 Inft | 442 | 33 | 3.45 /Inft | 728 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------------|---------|---|-----------------------|----------------|-----------------|------------------------|------------------|
| | | Sealant - Jt Filler Gasket | 31,555.00 Inft | 192,796 | 12,706 | 6.52 /Inft | 205,755 |
| | | THERMAL & MOISTURE PROT | | 292,379 | 207,008 | /sqft | 499,670 |
| 8000.00 | | DOORS & WINDOWS | | | | | |
| | 8110.01 | Doors: Steel with Frames | | | | | |
| | | H.M. Frame 16ga Galv Single | 17.00 each | 1,221 | 2,476 | 217.50 /each | 3,697 |
| | | H.M. Frame 16ga Galv Double | 25.00 each | 2,243 | 4,031 | 250.97 /each | 6,274 |
| | | H.M. Frame 18ga Interior Single | 62.00 each | 4,453 | 7,377 | 190.81 /each | 11,830 |
| | | H.M. Frame 18ga Interior Double | 2.00 each | 179 | 320 | 249.86 /each | 500 |
| | | Metal Sidelight Frame Only Ext | 223.00 sqft | 15,011 | 9,919 | 111.79 /sqft | 24,930 |
| | | Doors: Steel with Frames | 106.00 each | 23,107 | 24,124 | 445.58 /each | 47,231 |
| | 8210.01 | Doors: Wood | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 479.00 each | 45,301 | 151,272 | 410.38 /each | 196,573 |
| | | Doors: Wood | 479.00 each | 45,301 | 151,272 | 410.38 /each | 196,573 |
| | 8361.00 | Doors: Overhead | | | | | |
| | | Door OH Sectional Steel 8' x 8' | 3.00 each | 1,390 | 2,145 | 1,178.37 /each | 3,535 |
| | | Door OH Sectional Steel 12' x 15' | 1.00 each | 903 | 2,075 | 2,978.01 /each | 2,978 |
| | | Doors: Overhead | 4.00 each | 2,293 | 4,220 | 1,628.28 /each | 6,513 |
| | 8370.01 | Doors: Hardware | | | | | |
| | | Overhead Door Hardware | 4.00 each | 528 | 930 | 364.45 /each | 1,458 |
| | | Overhead Electric Door Operator Deluxe | 1.00 each | 66 | 636 | 702.08 /each | 702 |
| | | Doors: Hardware | 4.00 sqft | 594 | 1,566 | 539.97 /sqft | 2,160 |
| | 8410.00 | Aluminum Doors & Frames | | | | | |
| | | Alum Frame 3' x 7' Bronze Fin | 17.00 each | 3,024 | 6,333 | 550.40 /each | 9,357 |
| | | Alum Frame 6' x 7' Bronze Fin | 25.00 each | 5,188 | 10,536 | 628.97 /each | 15,724 |
| | | Alum Door Med 3'-0 x 7'-0 Half Gl | 67.00 each | 12,804 | 49,620 | 931.69 /each | 62,423 |
| | | Aluminum Doors & Frames | 67.00 each | 21,016 | 66,489 | 1,306.04 /each | 87,504 |
| | 8520.01 | Window: Aluminum | | | | | |
| | | Custom Proj 4" .125 w Ins Gl Kynar | 7,528.00 sqft | 63,863 | 311,825 | 49.91 /sqft | 375,688 |
| | | Window: Aluminum | 7,526.00 sqft | 63,863 | 311,825 | 49.92 /sqft | 375,688 |
| | 8710.01 | Hardware: Finishing | | | | | |
| | | Finishing Hardware Ext Budget | 67.00 each | 11,041 | 72,269 | 1,243.44 /each | 83,310 |
| | | Finishing Hardware Int Budget w Closure | 479.00 each | 47,363 | 239,692 | 599.28 /each | 287,054 |
| | | Hardware: Finishing | 546.00 set | 58,404 | 311,960 | 678.32 /set | 370,365 |
| | 8811.00 | Glass: All Types | | | | | |
| | | Glass Insulated | 223.00 sqft | 5,446 | 4,278 | 43.61 /sqft | 9,724 |
| | | Glass: All Types | 223.00 sqft | 5,446 | 4,278 | 43.61 /sqft | 9,724 |
| | 8920.01 | Alum Window Walls | | | | | |
| | | Curtn Wall Avg Ins Gl Bronz | 908.00 sqft | 8,911 | 60,481 | 76.42 /sqft | 69,392 |
| | | Alum Window Walls | 908.00 sqft | 8,911 | 60,481 | 76.42 /sqft | 69,392 |
| | | DOORS & WINDOWS | | 228,937 | 936,214 | /sqft | 1,165,150 |
| 9000.00 | | FINISHES | | | | | |
| | 9210.01 | Lath/Plastr: Gyp Plaster | | | | | |
| | | Plaster Patch @ Wall Removal | 1,056.00 sqft | 12,571 | 1,139 | 13.18 /sqft | 13,913 |
| | | Plaster Patch Ceiling @ Wall Removal | 1,614.00 sqft | 6,277 | 1,579 | 4.93 /sqft | 7,963 |
| | | Lath/Plastr: Gyp Plaster | 2,670.00 sqft | 18,848 | 2,718 | 8.19 /sqft | 21,876 |
| | 9211.00 | Lath/Plastr: Finish Coat | | | | | |
| | | Veneer Plaster Clgs 2 coat | 36,255.00 sqft | 110,005 | 17,739 | 3.58 /sqft | 129,889 |
| | | Lath/Plastr: Finish Coat | 36,255.00 sqft | 110,005 | 17,739 | 3.58 /sqft | 129,889 |
| | 9251.50 | GWB Ext Frame: Misc. | | | | | |
| | | 358 Soffit Track 20g | 8,706.00 Inft | 32,231 | 9,478 | 4.79 /Inft | 41,709 |
| | | 358 Soffit Stud 20g | 6,528.00 Inft | 22,410 | 5,717 | 4.31 /Inft | 28,127 |
| | | GWB Ext Frame: Misc. | 15,234.00 Inft | 54,642 | 15,194 | 4.58 /Inft | 69,836 |
| | 9253.10 | GWB: Fasteners | | | | | |
| | | Misc. Accessories | 1.00 lsum | 9,128 | 3,384 | 12,511.45 /lsum | 12,511 |
| | | GWB: Fasteners | 1.00 each | 9,128 | 3,384 | 12,511.45 /each | 12,511 |
| | 9253.30 | GWB: Boards & Sheathing | | | | | |
| | | GWB 5/8" Walls | 7,194.00 sqft | 4,358 | 2,288 | 0.92 /sqft | 6,646 |
| | | GWB 5/8" Soffit | 8,706.00 sqft | 15,823 | 3,146 | 2.18 /sqft | 18,969 |
| | | GWB 5/8" Water Resistant Clgs | 36,255.00 sqft | 24,404 | 13,288 | 1.04 /sqft | 37,692 |
| | | GWB: Boards & Sheathing | 52,155.00 sqft | 44,585 | 18,722 | 1.21 /sqft | 63,308 |
| | 9254.00 | GWB: Finish Mud/Tape | | | | | |
| | | Labor GWB Wall Finish | 3,597.00 sqft | 2,104 | 320 | 0.67 /sqft | 2,424 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|---------|-------|---------------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 9254.00 | | GWB: Finish Mud/Tape | | | | | |
| | | Labor GWB Soffit Finish | 8,706.00 sqft | 7,130 | 852 | 0.92 /sqft | 7,982 |
| | | GWB: Finish Mud/Tape | 12,303.00 sqft | 9,234 | 1,172 | 0.85 /sqft | 10,406 |
| 9260.00 | | Blueboard | | | | | |
| | | 1/2" Plaster Base Clgs | 36,255.00 sqft | 26,845 | 12,498 | 1.09 /sqft | 39,343 |
| | | Blueboard | 36,255.00 sqft | 26,845 | 12,498 | 1.09 /sqft | 39,343 |
| 9310.01 | | Ceramic Tile | | | | | |
| | | Clean Ceramic Tile Floor | 7,150.00 sqft | 1,735 | 164 | 0.27 /sqft | 1,899 |
| | | Clean Ceramic Wall Tile | 31,223.00 sqft | 10,608 | 715 | 0.36 /sqft | 11,324 |
| | | Ceramic Tile Floor Grade 2 | 7,125.00 sqft | 41,345 | 29,787 | 9.98 /sqft | 71,132 |
| | | Ceramic Tile Wall Grade 2 | 7,722.00 sqft | 67,445 | 30,947 | 12.74 /sqft | 98,392 |
| | | Ceramic Trim: Cove Base | 1,990.00 lnft | 21,191 | 6,154 | 13.74 /lnft | 27,345 |
| | | Backerboard 1/2" | 7,722.00 sqft | 23,098 | 6,706 | 3.86 /sqft | 29,804 |
| | | Ceramic Tile | 14,847.00 sqft | 165,422 | 74,473 | 16.16 /sqft | 239,895 |
| 9330.01 | | Floor: Quarry Tile | | | | | |
| | | Tile Quarry Flr Brown 8x8x3/4 Patch | 430.00 sqft | 6,225 | 2,534 | 20.37 /sqft | 8,759 |
| | | Floor: Quarry Tile | 430.00 sqft | 6,225 | 2,534 | 20.37 /sqft | 8,759 |
| 9510.10 | | Ceiling: Susp. System | | | | | |
| | | Susp Clg 1-1/2" Channel | 36,255.00 sqft | 76,275 | 28,624 | 2.89 /sqft | 104,899 |
| | | Ceiling: Susp. System | 36,255.00 sqft | 76,275 | 28,624 | 2.89 /sqft | 104,899 |
| 9510.50 | | Ceiling: 2x4 Tile | | | | | |
| | | Ceramagaurd | 6,960.00 sqft | 14,757 | 22,321 | 5.33 /sqft | 37,077 |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | 93,377.00 sqft | 115,560 | 207,484 | 3.46 /sqft | 323,043 |
| | | Ceiling: 2x4 Tile | 100,337.00 sqft | 130,316 | 229,804 | 3.59 /sqft | 360,120 |
| 9510.60 | | Ceiling: 2x2 Tile | | | | | |
| | | MinFbr Tegulr Std 2x2 3/4" 250-500 sf | 37,699.00 sqft | 42,462 | 102,334 | 3.84 /sqft | 144,796 |
| | | Plastic Luminous 2x2 3/4" 250-500sf | 980.00 sqft | 1,299 | 3,367 | 4.76 /sqft | 4,666 |
| | | Ceiling: 2x2 Tile | 38,679.00 sqft | 43,761 | 105,701 | 3.86 /sqft | 149,462 |
| 9560.01 | | Flooring Wood Strip | | | | | |
| | | Gym Floor 25/32" Maple | 5,723.00 sqft | 30,180 | 24,253 | 9.51 /sqft | 54,433 |
| | | Corkboard Underlayment 1/2" | 5,723.00 sqft | 4,150 | 5,448 | 1.68 /sqft | 9,597 |
| | | Oak Select 2-1/4" | 4,686.00 sqft | 14,541 | 19,858 | 7.34 /sqft | 34,399 |
| | | Sand & Finish Floor | 10,409.00 sqft | 13,641 | 7,524 | 2.03 /sqft | 21,165 |
| | | Flooring Wood Strip | 10,409.00 sqft | 62,512 | 57,083 | 11.49 /sqft | 119,595 |
| 9660.01 | | Flooring Resilient Tile | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | 116,297.00 sqft | 77,684 | 113,222 | 1.64 /sqft | 190,906 |
| | | Floor Resil Base 4" | 21,398.00 lnft | 20,249 | 12,499 | 1.53 /lnft | 32,748 |
| | | Floor Resil Base 6" Vent | 998.00 lnft | 1,444 | 606 | 2.05 /lnft | 2,050 |
| | | Synthetic Gym Floor 3/8" | 1,638.00 sqft | 7,583 | 5,738 | 8.13 /sqft | 13,320 |
| | | Synthetic Gym Floor 1/2" | 27,636.00 sqft | 127,936 | 113,706 | 8.74 /sqft | 241,642 |
| | | Floor Resilient Sheet Vinyl .125 | 735.00 sqft | 1,394 | 2,694 | 5.56 /sqft | 4,088 |
| | | Radial Rubber Floor 3/16" | 2,601.00 sqft | 2,031 | 11,858 | 5.34 /sqft | 13,889 |
| | | Floor Resil Tile Safety Tread | 1,114.00 lnft | 3,039 | 7,081 | 9.08 /lnft | 10,120 |
| | | Floor Resil Rubber Riser | 1,270.00 lnft | 1,555 | 3,319 | 3.84 /lnft | 4,874 |
| | | Flooring Resilient Tile | 151,291.00 sqft | 242,915 | 270,722 | 3.40 /sqft | 513,637 |
| 9685.00 | | Flooring Carpet | | | | | |
| | | Carpet Commercial 32oz | 2,461.00 sqyd | 19,179 | 59,604 | 32.01 /sqyd | 78,783 |
| | | Flooring Carpet | 2,461.00 sqyd | 19,179 | 59,604 | 32.01 /sqyd | 78,783 |
| 9910.01 | | Painting: Exterior | | | | | |
| | | Paint Overhead Door | 4.00 each | 496 | 124 | 154.87 /each | 619 |
| | | Paint Ext Bor Lt Frame | 223.00 sqft | 665 | 20 | 3.07 /sqft | 685 |
| | | Paint Ext Stair Hand 1 Rail | 726.00 lnft | 764 | 145 | 1.25 /lnft | 910 |
| | | Paint Ext Misc Exposed Metal | 7,400.00 sqft | 10,612 | 1,481 | 1.63 /sqft | 12,093 |
| | | Paint Exist Ext Soffit 2 ct | 1,692.00 sqft | 1,131 | 113 | 0.74 /sqft | 1,244 |
| | | Painting: Exterior | 10,413.00 sqft | 13,669 | 1,883 | 1.49 /sqft | 15,552 |
| 9920.01 | | Painting: Interior | | | | | |
| | | Paint Wd Door & Metal Frame | 479.00 each | 23,902 | 4,421 | 59.13 /each | 28,323 |
| | | Paint Wood Sill | 1,086.00 lnft | 2,605 | 72 | 2.47 /lnft | 2,677 |
| | | Paint Wood Apron | 1,086.00 lnft | 2,287 | 72 | 2.17 /lnft | 2,359 |
| | | Paint Exist Conc Floor | 6,796.00 sqft | 3,786 | 605 | 0.65 /sqft | 4,391 |
| | | Paint Stair Assembly | 32.00 sqft | 82 | 13 | 2.99 /sqft | 96 |
| | | Paint Louvers | 618.00 sqft | 759 | 151 | 1.47 /sqft | 910 |
| | | Paint Wood Base 3 ct | 176.00 lnft | 144 | 10 | 0.88 /lnft | 154 |
| | | Paint Int Pipe Rails | 5,505.00 lnft | 5,153 | 1,041 | 1.13 /lnft | 6,193 |
| | | Paint Ladder | 4.00 lnft | 14 | 2 | 3.98 /lnft | 16 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|----------------------------------|------------------------|------------------|------------------|-----------------------|------------------|
| 9920.01 | | Painting: Interior | | | | | |
| | | Paint Plywood Wainscot | 2,485.00 sqft | 1,163 | 166 | 0.54 /sqft | 1,329 |
| | | Paint Exist Conc Wall roller 2ct | 500.00 sqft | 167 | 33 | 0.40 /sqft | 200 |
| | | Paint GDW Wall Roller p + 2ct | 3,597.00 sqft | 1,473 | 480 | 0.54 /sqft | 1,953 |
| | | Paint Exist GDW Roller 2ct | 26,346.00 sqft | 7,706 | 2,344 | 0.38 /sqft | 10,050 |
| | | Epoxy Paint GDW Clg | 36,255.00 sqft | 59,384 | 23,786 | 2.29 /sqft | 83,170 |
| | | Epoxy Paint GDW Clg | 20,041.00 sqft | 32,681 | 13,149 | 2.29 /sqft | 45,829 |
| | | Paint GDW Soffit Roller p+2ct | 8,706.00 sqft | 6,111 | 1,162 | 0.84 /sqft | 7,273 |
| | | Paint Misc Stl Exp Deck 3 Coat | 28,284.00 sqft | 13,236 | 1,573 | 0.52 /sqft | 14,809 |
| | | Paint Exist Structure | 28,284.00 sqft | 28,632 | 1,887 | 1.08 /sqft | 30,519 |
| | | Paint Exist Mechanicals | 28,284.00 sqft | 7,878 | 944 | 0.31 /sqft | 8,822 |
| | | Paint Int CMU Spray p+2ct | 37,607.00 sqft | 24,199 | 8,364 | 0.87 /sqft | 32,563 |
| | | Paint Exist Int CMU Spray 2 ct | 126,705.00 sqft | 37,060 | 19,725 | 0.45 /sqft | 56,785 |
| | | Epoxy Paint Int CMU | 19,536.00 sqft | 31,857 | 13,034 | 2.30 /sqft | 44,892 |
| | | Epoxy Paint Exist Int CMU | 10,407.00 sqft | 10,910 | 4,745 | 1.50 /sqft | 15,654 |
| | | Paint Bench | 64.00 lnft | 242 | 13 | 3.99 /lnft | 255 |
| | | Painting: Interior | 402,463.00 sqft | 301,431 | 97,791 | 0.99 /sqft | 399,222 |
| 9960.05 | | Sound Absorbing Panels | | | | | |
| | | Sound Absorbing Panel | 1,320.00 sqft | 2,349 | 11,376 | 10.40 /sqft | 13,725 |
| | | Custom Acoustic Ceiling Panel | 2,313.00 sqft | 14,637 | 18,390 | 14.28 /sqft | 33,027 |
| | | Sound Absorbing Panels | 3,533.00 sqft | 16,987 | 29,766 | 13.23 /sqft | 46,752 |
| | | FINISHES | | 1,351,978 | 1,029,413 | /sqft | 2,383,846 |
| 10000.00 | | SPECIALTIES | | | | | |
| 10110.01 | | Chalkboards/Tackboards | | | | | |
| | | Markerboard Alum Fr | 2,544.00 sqft | 6,025 | 31,260 | 14.66 /sqft | 37,284 |
| | | Tackboard Alum Fr | 848.00 sqft | 1,998 | 4,998 | 8.25 /sqft | 6,996 |
| | | Chalkboards/Tackboards | 3,392.00 sqft | 8,022 | 36,257 | 13.05 /sqft | 44,280 |
| 10160.01 | | Toilet Partition Metal | | | | | |
| | | Urinal Screens Wall Hung | 37.00 each | 3,985 | 8,599 | 340.11 /each | 12,584 |
| | | Toilet Partition Metal | 37.00 each | 3,985 | 8,599 | 340.11 /each | 12,584 |
| 10160.02 | | Toilet Partition Phenolic | | | | | |
| | | Toilet Partition Reg Flr Mtd | 38.00 each | 5,847 | 36,889 | 1,124.65 /each | 42,737 |
| | | Toilet Partition HC Flr Mtd | 24.00 each | 3,693 | 31,198 | 1,453.81 /each | 34,891 |
| | | Toilet Partition Phenolic | 62.00 each | 9,540 | 68,088 | 1,252.07 /each | 77,628 |
| 10185.00 | | Shower/Dressing Compart | | | | | |
| | | Compartment Showers | 73.00 each | 20,942 | 65,428 | 1,183.15 /each | 86,370 |
| | | Shower/Dressing Compart | 73.00 each | 20,942 | 65,428 | 1,183.15 /each | 86,370 |
| 10410.01 | | Directory/Bulletin Boards | | | | | |
| | | Buiding Directory | 1.00 each | 431 | 1,257 | 1,687.36 /each | 1,687 |
| | | Directory/Bulletin Boards | 1.00 each | 431 | 1,257 | 1,687.36 /each | 1,687 |
| 10420.01 | | Plaques | | | | | |
| | | Custom Bronze Plaque 30" x 36" | 1.00 each | 352 | 2,383 | 2,734.57 /each | 2,735 |
| | | Plaques | 1.00 each | 352 | 2,383 | 2,734.57 /each | 2,735 |
| 10430.01 | | Signs | | | | | |
| | | Interior Stock | 178.00 each | 1,877 | 1,118 | 16.83 /each | 2,996 |
| | | Interior Custom | 104.00 each | 3,291 | 4,614 | 76.01 /each | 7,905 |
| | | Signs | 282.00 each | 5,168 | 5,733 | 38.66 /each | 10,901 |
| 10505.90 | | Lockers | | | | | |
| | | Locker Single Tier 6' | 1,182.00 each | 67,177 | 194,529 | 221.41 /each | 261,706 |
| | | Locker Single Tier 6' | 200.00 each | 11,098 | 32,915 | 220.07 /each | 44,014 |
| | | Locker Double Tier 6' | 106.00 opng | 2,550 | 13,320 | 149.71 /opng | 15,869 |
| | | Locker: Bench | 349.00 lnft | 4,370 | 8,577 | 37.10 /lnft | 12,946 |
| | | Team Lockers | 300.00 each | 17,939 | 64,385 | 274.41 /each | 82,323 |
| | | Lockers | 1,788.00 each | 103,134 | 313,725 | 233.14 /each | 416,859 |
| 10617.00 | | Partitions Operable | | | | | |
| | | Operable Partition 2-1/4" t Avg | 8,584.00 sqft | 27,735 | 359,862 | 45.15 /sqft | 387,597 |
| | | Operable Partition Track | 503.00 lnft | - | 45,362 | 90.18 /lnft | 45,362 |
| | | Partitions Operable | 8,584.00 sqft | 27,735 | 405,224 | 50.44 /sqft | 432,959 |
| 10800.01 | | Toilet Accessories | | | | | |
| | | Shower Rod | 73.00 each | 2,964 | 2,736 | 78.08 /each | 5,700 |
| | | Shower Curtain | 146.00 lnft | 183 | 958 | 7.82 /lnft | 1,141 |
| | | Shower Bench | 73.00 each | 3,856 | 7,091 | 149.95 /each | 10,946 |
| | | Grab Bar 1-1/4" S.S. 36" | 74.00 each | 1,951 | 2,839 | 64.73 /each | 4,790 |
| | | Mirror 18" x 30" S.S. | 59.00 each | 2,022 | 4,914 | 117.57 /each | 6,936 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|------------------------------------|----------------------|----------------|-----------------|-------------------------|------------------|
| 10800.01 | | Toilet Accessories | | | | | |
| | | Janitor Utility Unit | 7.00 each | 185 | 410 | 84.91 /each | 594 |
| | | Sanitary Napkin Dispenser Recessed | 23.00 each | 808 | 7,724 | 370.96 /each | 8,532 |
| | | Clothes Hook Single | 62.00 each | 907 | 703 | 25.98 /each | 1,611 |
| | | Soap Dispenser | 59.00 each | 3,111 | 8,201 | 191.74 /each | 11,312 |
| | | Stainless Steel Shelf | 89.00 lnft | 1,068 | 2,276 | 37.57 /lnft | 3,344 |
| | | Toilet Tissue Disp Dbl | 75.00 each | 1,646 | 1,330 | 39.69 /each | 2,977 |
| | | Towel Dispenser Surface Mtd | 13.00 each | 428 | 548 | 75.10 /each | 976 |
| | | Towel Disp/Waste Recpt | 23.00 each | 2,426 | 9,361 | 512.46 /each | 11,787 |
| | | Toilet Accessories | 776.00 each | 21,556 | 49,090 | 91.04 /each | 70,647 |
| | | SPECIALTIES | | 200,865 | 955,784 | /sqft | 1,156,649 |
| 11000.00 | | EQUIPMENT | | | | | |
| 11060.01 | | Equip: Stage | | | | | |
| | | Curtain Track Med Duty | 50.00 lnft | 2,992 | 1,824 | 96.32 /lnft | 4,816 |
| | | Curtain Fireproof | 700.00 sqft | 15,078 | 11,559 | 38.05 /sqft | 26,637 |
| | | Equip: Stage | 1.00 each | 18,070 | 13,383 | 31,453.09 /each | 31,453 |
| 11110.01 | | Equip: Laundry | | | | | |
| | | Washer | 1.00 each | 405 | 786 | 1,191.24 /each | 1,191 |
| | | Dryer | 1.00 each | 506 | 484 | 989.86 /each | 990 |
| | | Equip: Laundry | 2.00 each | 911 | 1,270 | 1,090.55 /each | 2,181 |
| 11164.00 | | Equip: Dock | | | | | |
| | | Dock Bumpers | 21.00 lnft | 284 | 811 | 52.16 /lnft | 1,095 |
| | | Equip: Dock | 21.00 each | 284 | 811 | 52.16 /each | 1,095 |
| 11451.00 | | Equip: Residential Food | | | | | |
| | | Electric Range & Oven | 1.00 each | 136 | 426 | 561.80 /each | 562 |
| | | Range | 1.00 each | 136 | 962 | 1,097.78 /each | 1,098 |
| | | Refrigerator 21-29 cf | 3.00 each | 553 | 3,910 | 1,487.70 /each | 4,463 |
| | | Equip: Residential Food | 5.00 each | 825 | 5,298 | 1,224.54 /each | 6,123 |
| 11460.01 | | Unit Kitchen | | | | | |
| | | Kitchen 30" Refrig/Range/Sink | 1.00 each | 727 | 3,608 | 4,335.34 /each | 4,335 |
| | | Unit Kitchen | 1.00 each | 727 | 3,608 | 4,335.34 /each | 4,335 |
| 11490.01 | | Equip: Gym | | | | | |
| | | Basketball Backboard Wall Swing | 6.00 each | 5,787 | 10,642 | 2,738.06 /each | 16,428 |
| | | Basketball Backboard Clg Swing | 8.00 each | 14,590 | 29,241 | 5,478.86 /each | 43,831 |
| | | Bleacher Manual to 15 tier | 1,008.00 seat | 34,369 | 67,926 | 101.48 /seat | 102,295 |
| | | Wall Pads | 720.00 sqft | 969 | 4,203 | 7.18 /sqft | 5,173 |
| | | Floor Sleeves | 2.00 each | 99 | 302 | 200.75 /each | 401 |
| | | Scoreboard Basketball Min | 2.00 each | 1,536 | 4,168 | 2,891.22 /each | 5,782 |
| | | Chin Up Bar | 2.00 each | 211 | 514 | 362.34 /each | 725 |
| | | Parallel Bars Wall Mounted | 2.00 set | 1,406 | 1,601 | 1,503.80 /set | 3,008 |
| | | Climbing Ropes | 2.00 each | 301 | 536 | 418.69 /each | 837 |
| | | Exercise Ladder Wall Mounted | 2.00 each | 703 | 2,502 | 1,602.55 /each | 3,205 |
| | | Equip: Gym | 1.00 lsum | 59,971 | 121,636 | 181,685.70 /lsum | 181,686 |
| 11570.01 | | Equip: Shop | | | | | |
| | | Shop Equipment Allow | 11.00 each | 2,382 | 5,309 | 699.13 /each | 7,690 |
| | | Equip: Shop | 11.00 each | 2,382 | 5,309 | 699.13 /each | 7,690 |
| | | EQUIPMENT | | 83,170 | 151,315 | /sqft | 234,564 |
| 12000.00 | | FURNISHINGS | | | | | |
| 12520.01 | | Shades | | | | | |
| | | Vinyl Heavy Wt | 7,528.00 sqft | 5,955 | 10,715 | 2.21 /sqft | 16,670 |
| | | Shades | 7,528.00 sqft | 5,955 | 10,715 | 2.21 /sqft | 16,670 |
| 12620.00 | | Furniture | | | | | |
| | | Library Charge Desk | 31.00 lnft | 2,336 | 13,065 | 496.79 /lnft | 15,401 |
| | | Furniture | 31.00 lnft | 2,336 | 13,065 | 496.79 /lnft | 15,401 |
| 12710.00 | | Misc Seating | | | | | |
| | | Aud Seat Veneer Back/Pad Seat | 224.00 each | 8,973 | 39,605 | 216.86 /each | 48,578 |
| | | Aud Fully Upholstered | 600.00 each | 24,034 | 106,752 | 217.98 /each | 130,786 |
| | | Misc Seating | 824.00 each | 33,006 | 146,357 | 217.67 /each | 179,363 |
| | | FURNISHINGS | | 41,297 | 170,137 | /sqft | 211,434 |
| 14000.00 | | CONVEYING SYSTEMS | | | | | |
| 14001.00 | | Elevators | | | | | |
| | | Elevator Hyd Passenger 2 stop | 1.00 each | 18,216 | 33,467 | 54,231.04 /each | 54,231 |
| | | Capacity Upgrade 3500# Hyd | 1.00 lsum | - | 6,695 | 6,695.36 /lsum | 6,695 |

| Group | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|---------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 14001.00 | | Elevators | | | | | |
| | | Speed Upgrade 125 fpm Hyd | 1.00 lsum | - | 1,123 | 1,123.12 /lsum | 1,123 |
| | | Emergency Power | 1.00 lsum | - | 2,068 | 2,068.32 /lsum | 2,068 |
| | | Maint Contract 12 mos | 1.00 lsum | - | 2,641 | 2,640.99 /lsum | 2,641 |
| | | Sig Device Hall Latern | 2.00 each | - | 867 | 433.68 /each | 867 |
| | | Elevators | 1.00 each | 18,216 | 46,862 | 67,626.19 /each | 67,626 |
| 14405.00 | | Lifts | | | | | |
| | | Lift Commercial | 1.00 each | 2,082 | 12,382 | 14,743.55 /each | 14,744 |
| | | Lifts | 1.00 each | 2,082 | 12,382 | 14,743.55 /each | 14,744 |
| | | CONVEYING SYSTEMS | | 20,298 | 59,244 | /sqft | 82,370 |
| 15500.00 | | HVAC SYSTEMS | | | | | |
| 15856.00 | | Louvers/Filters | | | | | |
| | | Fixed Blade Stormproof | 618.00 sqft | 16,228 | 20,479 | 59.40 /sqft | 36,707 |
| | | Louvers/Filters | 618.00 sqft | 16,228 | 20,479 | 59.40 /sqft | 36,707 |
| | | HVAC SYSTEMS | | 16,228 | 20,479 | /sqft | 36,707 |

Estimate Totals

| | | | | |
|------------------------|---------------|------------------|------------|-----|
| Labor | 3,590,530 | | 57,476.391 | hrs |
| Material | 3,945,767 | | | |
| Equipment | <u>93,805</u> | | 5,742.177 | hrs |
| | 7,630,102 | 7,630,102 | | |
| Contingency Reno Study | 1,144,515 | | 15.000 % | |
| | Total | 8,774,617 | | |

BELMONT HIGH SCHOOL ADJUSTMENTS BASE RENOVATION

8-24-04

BELMONT, MA

Project name

Belmont H.S. Adj Reno

Belmont
MA

Architect

TDPC

Estimator

Essential Estimating

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|-----------------------------|-------|-------------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| Phase 1A | | | | | | | |
| DEMOLITION | | | | | | | |
| 2071.01 | | <i>Demo: General</i> | | | | | |
| | | General Disposal | 9.10 cuyd | 131 | - | 19.52 /cuyd | 178 |
| 2075.00 | | <i>Demo: Concrete</i> | | | | | |
| | | Remove Concrete Walls 12" | 129.00 sqft | 2,050 | - | 17.37 /sqft | 2,240 |
| | | Remove Slab on Grade | 301.00 sqft | 1,412 | - | 5.13 /sqft | 1,543 |
| 2077.00 | | <i>Demo: Steel</i> | | | | | |
| | | Remove Ladder | 3.00 lnft | 31 | - | 10.25 /lnft | 31 |
| 2084.50 | | <i>Demo: Misc Items</i> | | | | | |
| | | Remove Benches | 32.00 lnft | 218 | - | 6.82 /lnft | 218 |
| SITEWORK | | | | | | | |
| 2220.15 | | <i>Earthwk: Dispose Surplus</i> | | | | | |
| | | Dispose Surplus | 34.00 cuyd | 124 | - | 8.27 /cuyd | 281 |
| 2220.30 | | <i>Earthwk: Pits, Misc Excav</i> | | | | | |
| | | Excavate Misc By Hand | 33.44 cuyd | 2,735 | - | 81.80 /cuyd | 2,735 |
| CONCRETE | | | | | | | |
| 3136.00 | | <i>Forms: Stairs</i> | | | | | |
| | | Stair Forms | 66.00 sqft | 855 | 125 | 14.85 /sqft | 980 |
| 3164.00 | | <i>Forms: Pits & Misc.</i> | | | | | |
| | | Pad Forms | 48.00 sqft | 1,554 | 258 | 37.75 /sqft | 1,812 |
| 3215.10 | | <i>Rebar: Steps & Stairs</i> | | | | | |
| | | Step-Stair Rebar #5 | 0.01 ton | 15 | 12 | 2,666.00 /ton | 27 |
| 3225.00 | | <i>Rebar: WWM @ Ramp/Misc</i> | | | | | |
| | | Wiremesh - Pad 6x6 6/6 | 0.30 sqs | 14 | 10 | 80.17 /sqs | 24 |
| 3312.00 | | <i>Conc: Pit & Misc</i> | | | | | |
| | | Pad Conc 4000 psi | 1.00 cuyd | 12 | 85 | 97.00 /cuyd | 97 |
| 3314.00 | | <i>Conc: Stairs & Steps</i> | | | | | |
| | | Stair/Step Conc 4000 psi | 1.10 cuyd | 27 | 98 | 120.14 /cuyd | 132 |
| 3375.00 | | <i>Finish: Protect & Cure</i> | | | | | |
| | | Cure Conc w/burlap Ext Stair | 0.20 sqs | 3 | 2 | 25.90 /sqs | 5 |
| | | Conc Cure w/burlap Pad | 0.28 sqs | 5 | 2 | 27.64 /sqs | 8 |
| 3380.01 | | <i>Finish: General</i> | | | | | |
| | | Trowel Finish Pad | 28.00 sqft | 48 | - | 1.71 /sqft | 48 |
| | | Stair Finish | 20.00 sqft | 45 | 0 | 2.28 /sqft | 46 |
| | | Rub Risers | 23.00 lnft | 78 | 2 | 3.48 /lnft | 80 |
| 3381.00 | | <i>Finish: Floor Hardner</i> | | | | | |
| | | Floor Hardner Med Service | 28.00 sqft | 27 | 8 | 1.27 /sqft | 36 |
| METALS | | | | | | | |
| 5510.80 | | <i>Stairs: Stair Parts</i> | | | | | |
| | | Stair Railing Galv 1-1/2" 2 pipe | 12.00 lnft | 216 | 322 | 45.47 /lnft | 546 |
| FINISHES | | | | | | | |
| 9920.01 | | <i>Painting: Interior</i> | | | | | |
| | | Paint Int Pipe Rails | 24.00 lnft | 22 | 5 | 1.12 /lnft | 27 |
| SPECIAL CONSTRUCTION | | | | | | | |
| 13159.00 | | <i>Swimming Pool Equipment</i> | | | | | |
| | | Pool Ladder 4 Step | 1.00 each | 180 | 645 | 825.41 /each | 825 |
| | | Access Ramp | 1.00 each | 436 | 6,878 | 7,313.96 /each | 7,314 |
| | | Concrete Bottom & Sides Tile Finish | 472.00 sqft | 19,832 | 9,684 | 65.99 /sqft | 31,149 |
| CONVEYING SYSTEMS | | | | | | | |
| 14405.00 | | <i>Lifts</i> | | | | | |
| | | Lift Commercial | 1.00 each | 2,082 | 12,382 | 14,743.55 /each | 14,744 |
| Phase 1B | | | | | | | |
| DEMOLITION | | | | | | | |
| 2071.01 | | <i>Demo: General</i> | | | | | |
| | | General Disposal | 13.00 cuyd | 188 | - | 19.52 /cuyd | 254 |
| | | Shore - Screw Jack | 5.00 each | 3,332 | 242 | 756.66 /each | 3,783 |
| 2076.00 | | <i>Demo: Masonry</i> | | | | | |
| | | Cut Out Brick & Block | 94.00 sqft | 3,682 | - | 42.88 /sqft | 4,030 |
| | | Sawcut 16" CMU | 94.00 lnft | 18,532 | - | 225.86 /lnft | 21,231 |
| | | Remove Brick & Block Wall | 234.00 sqft | 1,549 | - | 7.25 /sqft | 1,696 |
| SITEWORK | | | | | | | |
| 2220.15 | | <i>Earthwk: Dispose Surplus</i> | | | | | |
| | | Dispose Surplus | 759.00 cuyd | 2,774 | - | 8.26 /cuyd | 6,269 |
| 2220.20 | | <i>Earthwk: Footings (Hand)</i> | | | | | |
| | | Excavate Footing By Hand | 25.90 cuyd | 1,886 | - | 72.81 /cuyd | 1,886 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|-----------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 2220.20 | | <i>Earthwk: Footings (Hand)</i> | | | | | |
| | | Excavate Isolated Footing By Hand | 7.40 cuyd | 605 | - | 81.80 /cuyd | 605 |
| | | Excavate Engaged Footing By Hand | 14.80 cuyd | 1,211 | - | 81.80 /cuyd | 1,211 |
| 2220.25 | | <i>Earthwk: Footings (Mach)</i> | | | | | |
| | | Excavate Footing By Machine | 580.00 cuyd | 1,958 | - | 5.35 /cuyd | 3,105 |
| | | Excavate Isolated Footing Machine | 58.00 cuyd | 429 | - | 11.65 /cuyd | 676 |
| 2220.45 | | <i>Earthwk: Fine Grade</i> | | | | | |
| | | Fine Grade SOG | 1,919.67 sqyd | 2,798 | - | 2.39 /sqyd | 4,591 |
| 2220.50 | | <i>Backfill: Footing</i> | | | | | |
| | | Backfill Footings-Exist | 420.00 cuyd | 814 | | 3.29 /cuyd | 1,381 |
| | | Backfill Isol. Footings - Exist | 39.00 cuyd | 69 | | 3.26 /cuyd | 127 |
| 2220.62 | | <i>Backfill: Slab on Grade</i> | | | | | |
| | | Gravel Fill 6" | 319.94 cuyd | 5,262 | 4,501 | 33.05 /cuyd | 10,574 |
| | | CONCRETE | | | | | |
| 3111.00 | | <i>Forms: Footings</i> | | | | | |
| | | Footing Forms 2 Use | 838.66 sqft | 3,770 | 1,239 | 5.97 /sqft | 5,009 |
| | | Footing Forms 2 Use Radial | 372.66 sqft | 2,236 | 799 | 8.14 /sqft | 3,035 |
| | | Engaged Footing Forms 2 use | 810.88 sqft | 4,097 | 1,289 | 6.64 /sqft | 5,386 |
| | | Isolated Footing Forms 2 Use | 480.00 sqft | 2,607 | 786 | 7.07 /sqft | 3,393 |
| | | Keyway In Footing | 417.00 lnft | 1,677 | 363 | 4.89 /lnft | 2,040 |
| | | Keyway In Footing Radial | 184.00 lnft | 741 | 210 | 5.17 /lnft | 951 |
| 3114.00 | | <i>Forms: Walls</i> | | | | | |
| | | Wall Forms | 3,336.00 sqft | 23,292 | 4,623 | 8.37 /sqft | 27,915 |
| | | Wall Forms Radial | 1,472.00 sqft | 13,627 | 2,967 | 11.27 /sqft | 16,594 |
| 3126.00 | | <i>Forms: Piers</i> | | | | | |
| | | Pier Forms | 512.00 sqft | 5,105 | 815 | 11.56 /sqft | 5,920 |
| 3127.00 | | <i>Forms: Edgeform Slabs</i> | | | | | |
| | | EdgeForm (Any Depth, LF) | 1,728.00 lnft | 5,783 | 1,089 | 3.98 /lnft | 6,872 |
| 3163.00 | | <i>Forms: Expand/Control Jts</i> | | | | | |
| | | Premolded Exp Jt - 4" | 336.00 lnft | 385 | 377 | 2.27 /lnft | 761 |
| 3206.00 | | <i>Rebar: Footings</i> | | | | | |
| | | Footing Rebar #5 | 0.65 ton | 702 | 734 | 2,210.20 /ton | 1,437 |
| | | Footing Rebar #5 Radial | 0.29 ton | 437 | 370 | 2,782.93 /ton | 807 |
| | | Isolated Footing Rebar #5 | 0.42 ton | 508 | 412 | 2,191.14 /ton | 920 |
| | | Engaged Footing Rebar #5 | 0.83 ton | 1,035 | 938 | 2,376.23 /ton | 1,972 |
| 3209.00 | | <i>Rebar: Walls</i> | | | | | |
| | | Wall Rebar #4 | 2.23 ton | 1,769 | 2,519 | 1,922.71 /ton | 4,288 |
| | | Wall Rebar #4 Radial | 0.98 ton | 1,036 | 1,251 | 2,333.93 /ton | 2,287 |
| 3211.00 | | <i>Rebar: Piers</i> | | | | | |
| | | Pier Rebar #3 | 0.16 ton | 179 | 181 | 2,247.70 /ton | 360 |
| | | Pier Rebar #6 | 0.86 ton | 886 | 971 | 2,159.94 /ton | 1,858 |
| 3226.00 | | <i>Rebar: Wiremesh @ S.O.G.</i> | | | | | |
| | | Wiremesh - S.O.G. 6x6 6/6 | 172.77 sqs | 7,093 | 5,820 | 74.74 /sqs | 12,913 |
| 3230.01 | | <i>Rebar: Mesh On Corruform</i> | | | | | |
| | | Wiremesh-Corruform 6x6 6/6 | 133.61 sqs | 5,624 | 4,501 | 75.78 /sqs | 10,125 |
| 3306.00 | | <i>Conc: Footings</i> | | | | | |
| | | Footing Conc 3000 psi | 51.90 cuyd | 1,726 | 4,463 | 128.08 /cuyd | 6,647 |
| | | Engaged Footing Conc 3000 psi | 30.60 cuyd | 1,187 | 2,392 | 126.67 /cuyd | 3,876 |
| | | Isolated Footing Conc 3000 psi | 22.20 cuyd | 1,565 | 1,735 | 166.34 /cuyd | 3,693 |
| 3307.00 | | <i>Conc: Walls</i> | | | | | |
| | | Wall Conc 4000 psi | 118.70 cuyd | 4,625 | 10,582 | 138.45 /cuyd | 16,434 |
| 3309.00 | | <i>Conc: Piers</i> | | | | | |
| | | Pier Conc 4000 psi | 4.20 cuyd | 370 | 374 | 199.36 /cuyd | 837 |
| 3310.01 | | <i>Conc: Slabs On Grade</i> | | | | | |
| | | S.O.G. Conc 4000 psi | 213.30 cuyd | 6,027 | 19,920 | 128.71 /cuyd | 27,455 |
| 3316.00 | | <i>Conc: Fill Pan Stairs</i> | | | | | |
| | | Fill Pan Stairs 3000 psi | 1.60 cuyd | 68 | 131 | 124.71 /cuyd | 200 |
| 3319.00 | | <i>Conc: Slab On Corruform</i> | | | | | |
| | | Conc @ Corruform 4000 psi | 154.64 cuyd | 4,429 | 13,786 | 124.97 /cuyd | 19,325 |
| 3375.00 | | <i>Finish: Protect & Cure</i> | | | | | |
| | | Cure Conc w/burlap S.O.G. | 172.77 sqs | 2,742 | 1,463 | 24.33 /sqs | 4,204 |
| | | Cure Conc w/burlap Elv. Slab | 172.77 sqs | 3,297 | 1,393 | 27.15 /sqs | 4,690 |
| 3380.01 | | <i>Finish: General</i> | | | | | |
| | | Trowel Finish | 2,544.00 sqft | 2,892 | - | 1.14 /sqft | 2,892 |
| | | Broom/Float Finish S.O.G. | 14,733.00 sqft | 9,211 | - | 0.63 /sqft | 9,211 |
| | | Broom/Float Finish Elv. Slab | 13,361.00 sqft | 9,871 | - | 0.74 /sqft | 9,871 |
| 3381.00 | | <i>Finish: Floor Hardner</i> | | | | | |
| | | Floor Hardner Med Service | 2,544.00 sqft | 2,458 | 772 | 1.27 /sqft | 3,230 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|--|------------------|--------------|-----------------|-----------------|--------------|
| 3610.01 | | <i>Grout</i> | | | | | |
| | | Grout Base PI Metallic 2" (sf) | 48.00 sqft | 873 | 937 | 37.70 /sqft | 1,810 |
| 3940.01 | | <i>Misc: Saw Concrete</i> | | | | | |
| | | Saw New Concrete | 1,382.00 lnft | 1,256 | 523 | 1.53 /lnft | 2,114 |
| | | MASONRY | | | | | |
| 4050.10 | | <i>Misc: Scaffold</i> | | | | | |
| | | Exterior Scaffold | 2,174.00 sqft | 2,188 | 653 | 1.56 /sqft | 3,398 |
| | | Interior Scaffold | 8,318.00 sqft | 6,131 | 2,497 | 1.21 /sqft | 10,046 |
| 4050.15 | | <i>Misc: Material Handling</i> | | | | | |
| | | Concrete Block | 14.00 m | - | - | 198.40 /m | 2,778 |
| 4105.00 | | <i>Mortar: All Types</i> | | | | | |
| | | Mortar Type "N" | 30.99 cuyd | - | 4,094 | 132.11 /cuyd | 4,094 |
| | | Mortar Color | 192.00 lbs | 1,089 | 1,726 | 14.66 /lbs | 2,815 |
| 4110.01 | | <i>Mortar: Grout Fill Conc</i> | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | 14.43 cuyd | 2,181 | 1,526 | 269.03 /cuyd | 3,882 |
| | | Grout Single Door Frame | 15.00 each | 512 | 162 | 47.69 /each | 715 |
| | | Grout Double Door Frame | 8.00 each | 367 | 120 | 64.48 /each | 516 |
| 4156.00 | | <i>Access: Wall Flashing</i> | | | | | |
| | | Flash Head Lead Ct. Cop 5 oz. | -144.00 sqft | (397) | (426) | 5.72 /sqft | (823) |
| | | Flash Sill Lead Ct. Cop 5 oz. | -172.00 sqft | (426) | (478) | 5.26 /sqft | (904) |
| 4157.00 | | <i>Reinforce: Vertical Wall</i> | | | | | |
| | | Re-Bar #5 & #6 | 2,336.56 lbs | 2,403 | 909 | 1.42 /lbs | 3,312 |
| 4158.00 | | <i>Reinforce: Horizontl Wall</i> | | | | | |
| | | Horiz Wall Reinf 8" Hot Dippd | 22.60 mlf | 7,311 | 3,503 | 478.48 /mlf | 10,814 |
| 4159.00 | | <i>Reinforce: Brick Anchors</i> | | | | | |
| | | Brick Anchors Z Ties 8" | 1,223.00 each | 963 | 171 | 0.93 /each | 1,134 |
| 4220.00 | | <i>Conc. Block: Backup</i> | | | | | |
| | | Blk 8" Standard Face Reg Wt | 756.00 each | 5,197 | 1,102 | 8.33 /each | 6,298 |
| | | Blk 8" Standard Face Reg Wt radial | 1,690.00 each | 11,617 | 2,463 | 8.33 /each | 14,080 |
| 4221.15 | | <i>Conc. Block: 8"</i> | | | | | |
| | | Blk 8" Standard Face Reg Wt | 5,475.00 each | 37,936 | 9,751 | 8.71 /each | 47,687 |
| | | Blk 8" Standard Face Reg Wt - Infill | 2,662.00 each | 28,261 | 4,636 | 12.36 /each | 32,897 |
| 4221.30 | | <i>Conc. Block: 4" SplitFace</i> | | | | | |
| | | 4" Blk Split Face Color-2 LtWt | 756.00 each | 6,583 | 1,819 | 11.11 /each | 8,401 |
| | | 4" Blk Split Face Color-2 LtWt radial | 1,690.00 each | 14,715 | 4,065 | 11.11 /each | 18,780 |
| 4221.45 | | <i>Conc. Block: 8" Lintel</i> | | | | | |
| | | Lintel 8" Stand Face Reg Wt | 438.00 each | 4,573 | 2,259 | 16.44 /each | 7,203 |
| 4710.10 | | <i>Cleaning: Masonry</i> | | | | | |
| | | Clean Exist Brick Smooth | -30.73 sqs | (3,858) | (485) | 141.33 /sqs | (4,343) |
| | | METALS | | | | | |
| 5055.00 | | <i>Fastener: Col Anchor Bolt</i> | | | | | |
| | | 3/4" d. 12" long | 192.00 each | 4,132 | 386 | 23.54 /each | 4,518 |
| 5110.01 | | <i>Structural: Framing</i> | | | | | |
| | | Floor Structure Cols & Beams | 13,361.00 sqft | 18,705 | 108,311 | 10.13 /sqft | 135,351 |
| | | Roof Framing Beams & Cols | 19,105.00 sqft | 24,072 | 144,889 | 9.37 /sqft | 178,968 |
| 5210.01 | | <i>Structural: Joist K</i> | | | | | |
| | | Floor Structure Steel Joist | 13,361.00 sqft | 8,017 | 24,663 | 2.60 /sqft | 34,760 |
| | | Roof Framing Steel Joists | 19,105.00 sqft | 8,597 | 21,670 | 1.75 /sqft | 33,454 |
| 5312.10 | | <i>Structural: Deck Roof/Fl</i> | | | | | |
| | | Slab Form 1-1/2" 20 ga Galv | 13,361.00 sqft | 7,845 | 30,458 | 2.89 /sqft | 38,582 |
| | | Deck Steel 1 1/2" Deep 20 ga 50-500 sq | 19,105.00 sqft | 12,821 | 22,944 | 1.89 /sqft | 36,165 |
| 5510.05 | | <i>Misc: Lintels</i> | | | | | |
| | | Stl Angles > 4000 lbs | -1,509.00 lb | (1,681) | (1,119) | 1.86 /lb | (2,800) |
| 5510.15 | | <i>Misc: Embedded Material</i> | | | | | |
| | | Bearing Plates | 48.00 each | 720 | 1,348 | 43.07 /each | 2,067 |
| 5510.35 | | <i>Misc: Bolt On Material</i> | | | | | |
| | | Angle Bolted To Masonry | 1,773.00 lb | 4,252 | 2,902 | 4.12 /lb | 7,302 |
| 5510.80 | | <i>Stairs: Stair Parts</i> | | | | | |
| | | Custom Steel Stairs 6'-0" | 22.00 risr | 2,960 | 11,278 | 651.50 /risr | 14,333 |
| | | Stair Railing Steel 1-1/2" 6 pipe | 36.00 lnft | 1,448 | 2,164 | 101.69 /lnft | 3,661 |
| | | Wall Rail Steel 1-1/2" 1 pipe | 30.00 lnft | 522 | 382 | 30.73 /lnft | 922 |
| | | Landing Steel Pan | 120.00 sqft | 2,319 | 8,120 | 87.61 /sqft | 10,513 |
| | | WOOD & PLASTICS | | | | | |
| 6015.00 | | <i>Fasteners: Frame Anchors</i> | | | | | |
| | | Fastners & Misc | 1.00 lsum | - | 30 | 30.03 /lsum | 30 |
| 6113.20 | | <i>Blocking: Misc.</i> | | | | | |
| | | Block Toilet Partition | 3.00 each | 66 | 38 | 34.68 /each | 104 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|--|------------------|--------------|-----------------|-----------------|--------------|
| 6113.20 | | <i>Blocking: Misc.</i> | | | | | |
| | | Block H.C. Toilet Partition | 1.00 each | 33 | 16 | 48.75 /each | 49 |
| | | Block Misc Toilet Accessories | 32.00 each | 422 | 171 | 18.52 /each | 593 |
| | | Blocking 2 x 4 R.L. | 984.00 lnft | 2,011 | 443 | 2.49 /lnft | 2,454 |
| | | Blocking 2 x 6 R.L. | 489.00 lnft | 1,225 | 369 | 3.26 /lnft | 1,594 |
| 6113.40 | | <i>Blocking: Rough Bucks</i> | | | | | |
| | | Rough Bucks 2 x 6 Doors | 1,355.00 lnft | 2,463 | 1,023 | 2.57 /lnft | 3,485 |
| | | Rough Bucks 2 x 6 PT Doors | 105.00 lnft | 191 | 115 | 2.92 /lnft | 306 |
| | | Rough Bucks 2 x 6 PT Windows | -1,104.00 lnft | (3,047) | (1,213) | 3.86 /lnft | (4,260) |
| 6410.05 | | <i>I Trim: Shelving</i> | | | | | |
| | | Custom Wood Shelving | 95.00 lnft | 3,014 | 3,109 | 64.46 /lnft | 6,123 |
| 6413.00 | | <i>I Trim: Dr & Window Matrl</i> | | | | | |
| | | Window Stools (Wood) | -102.00 lnft | (480) | (898) | 13.52 /lnft | (1,378) |
| | | Apron At Stools | -102.00 lnft | (237) | (195) | 4.24 /lnft | (432) |
| | | THERMAL & MOISTURE PROT | | | | | |
| 7186.00 | | <i>Damproofing: Bituminous</i> | | | | | |
| | | Ashphalt Ct. Sprayed 2 cts. | 2,174.00 sqft | 3,209 | 498 | 1.71 /sqft | 3,707 |
| | | Ashphalt Ct. Troweled 1/8" | 2,404.00 sqft | 3,717 | 1,184 | 2.04 /sqft | 4,901 |
| 7192.00 | | <i>Dampproofing: VaprBarrier</i> | | | | | |
| | | Poly Vapor Barrier 6 mil | 172.77 sqs | 3,992 | 697 | 27.14 /sqs | 4,690 |
| 7211.20 | | <i>Insulation: Sound Blankt</i> | | | | | |
| | | Sound Blanket 16" x 3- 5/8" | 159.00 sqft | 105 | 135 | 1.51 /sqft | 240 |
| | | Sound Blanket 16" x 6.00 " | 13,827.00 sqft | 9,129 | 15,045 | 1.75 /sqft | 24,174 |
| 7211.80 | | <i>Insulation: Perimeter</i> | | | | | |
| | | Insul Board Polystyrene 2" | 1,668.00 sqft | 1,432 | 723 | 1.29 /sqft | 2,155 |
| | | Insul Board Polystyrene 2" Radial | 736.00 sqft | 826 | 319 | 1.56 /sqft | 1,145 |
| | | Insul Board Polystyrene 2" | 17,277.00 sqft | 14,828 | 7,493 | 1.29 /sqft | 22,321 |
| 7212.00 | | <i>Insulation: Board</i> | | | | | |
| | | Extruded Polystyrene 2.0" | 672.00 sqft | 532 | 616 | 1.71 /sqft | 1,148 |
| | | Extruded Polystyrene 2.0" radial | 1,502.00 sqft | 1,587 | 1,416 | 2.00 /sqft | 3,003 |
| 7217.00 | | <i>Insulation: Protection Bd</i> | | | | | |
| | | Hardbd Protection Bd 1/4" | 19,105.00 sqft | 10,273 | 6,138 | 0.86 /sqft | 16,411 |
| 7222.10 | | <i>Insulation: Roof 1st Lay</i> | | | | | |
| | | Poly Iso 3.5" Layer 1 | 191.05 sqs | 10,977 | 19,519 | 159.63 /sqs | 30,496 |
| 7222.20 | | <i>Insulation: Roof 2nd Lay</i> | | | | | |
| | | Perlite Tapered | 28.66 sq | 2,032 | 2,158 | 146.18 /sq | 4,190 |
| 7270.00 | | <i>Firestopping</i> | | | | | |
| | | Firesafing | 1,850.00 lnft | 2,439 | 1,290 | 2.02 /lnft | 3,729 |
| 7410.00 | | <i>Metal Facing Panels</i> | | | | | |
| | | Metal Facing Panel Ins 18ga | -496.00 sqft | (2,579) | (2,703) | 10.65 /sqft | (5,282) |
| 7410.04 | | <i>Preformed Panels</i> | | | | | |
| | | Translucent Panel System | -1,056.00 sqft | (11,190) | (26,010) | 35.23 /sqft | (37,200) |
| 7531.00 | | <i>Membrane: EPDM</i> | | | | | |
| | | Roof Elastic Sheet EPDM 60 mil Full Ad | 19,105.00 sqft | 24,015 | 9,628 | 1.84 /sqft | 35,164 |
| 7620.30 | | <i>Sheetmetal: Fascia</i> | | | | | |
| | | Exterior Edge | 601.00 lnft | 11,629 | 14,101 | 42.81 /lnft | 25,731 |
| 7630.05 | | <i>Sheetmetal: Exp Joints</i> | | | | | |
| | | Interior Edge | 386.00 lnft | 4,883 | 9,186 | 36.45 /lnft | 14,068 |
| 7630.10 | | <i>Sheetmetal: Vents/Accsry</i> | | | | | |
| | | Misc Roof Access | 19,105.00 sqft | 13,208 | 20,132 | 1.75 /sqft | 33,340 |
| 7910.01 | | <i>Sealant - Jt Filler Gaskt</i> | | | | | |
| | | Backer Rod 1/2" | -999.00 lnft | (1,712) | (46) | 1.76 /lnft | (1,758) |
| | | Polysulfide Sealant 1/4" Interior | 1,355.00 lnft | 7,083 | 248 | 5.41 /lnft | 7,331 |
| | | Polyurethane Sealant 1/2" | -1,998.00 lnft | (10,615) | (778) | 5.70 /lnft | (11,393) |
| | | DOORS & WINDOWS | | | | | |
| 8110.01 | | <i>Doors: Steel with Frames</i> | | | | | |
| | | H.M. Frame 18ga Interior Single | 41.00 each | 2,945 | 4,878 | 190.81 /each | 7,823 |
| | | H.M. Frame 18ga Interior Double | 20.00 each | 1,795 | 3,203 | 249.86 /each | 4,997 |
| | | Metal Sidelight Frame Only Int | 448.00 sqft | 3,122 | 17,287 | 45.56 /sqft | 20,409 |
| 8210.01 | | <i>Doors: Wood</i> | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 81.00 each | 7,661 | 25,580 | 410.38 /each | 33,241 |
| 8361.00 | | <i>Doors: Overhead</i> | | | | | |
| | | Door OH Sectional Steel 8' x 10' | 1.00 each | 579 | 773 | 1,352.03 /each | 1,352 |
| 8370.01 | | <i>Doors: Hardware</i> | | | | | |
| | | Overhead Door Hardware | 1.00 each | 132 | 232 | 364.45 /each | 364 |
| | | Overhead Electric Door Operator Deluxe | 1.00 each | 66 | 636 | 702.08 /each | 702 |
| 8410.00 | | <i>Aluminum Doors & Frames</i> | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|---|------------------|--------------|-----------------|-----------------|--------------|
| 8410.00 | | <i>Aluminum Doors & Frames</i> | | | | | |
| | | Alum Frame 3' x 7' Bronze Fin | 1.00 each | 186 | 376 | 562.22 /each | 562 |
| | | Alum Frame 6' x 7' Bronze Fin | 3.00 each | 652 | 1,278 | 643.31 /each | 1,930 |
| | | Alum Door Med 3'-0 x 7'-0 Full Gl | 7.00 each | 1,399 | 6,632 | 1,147.23 /each | 8,031 |
| 8520.01 | | <i>Window: Aluminum</i> | | | | | |
| | | Custom Proj 4" .125 w Ins Gl Kynar | -772.00 sqft | (6,549) | (31,978) | 49.91 /sqft | (38,527) |
| 8710.01 | | <i>Hardware: Finishing</i> | | | | | |
| | | Finishing Hardware Int Budget w Closure | 81.00 each | 8,009 | 40,532 | 599.28 /each | 48,542 |
| | | Residential Hardware Ext Budget | 7.00 set | 578 | 1,860 | 348.29 /set | 2,438 |
| 8811.00 | | <i>Glass: All Types</i> | | | | | |
| | | Glass Sheet 1/4" Tempered | 448.00 sqft | 6,633 | 4,334 | 24.48 /sqft | 10,967 |
| 8920.01 | | <i>Alum Window Walls</i> | | | | | |
| | | Curtn Wall Monumental Ins Gl Bronz Allow | 6,021.00 sqft | 61,271 | 527,594 | 97.80 /sqft | 588,864 |
| | | Curtn Wall Mon Ins Gl Bronz Radial Allow | 1,315.00 sqft | 16,072 | 99,947 | 88.23 /sqft | 116,019 |
| | | Curtain Wall Monumental w Metal Panel Allow | 2,042.00 sqft | 17,151 | 134,993 | 74.51 /sqft | 152,145 |
| | | Curtain Wall Mon w Metal Panel Radial Allow | 480.00 sqft | 4,626 | 27,462 | 66.85 /sqft | 32,088 |
| | | FINISHES | | | | | |
| 9251.50 | | <i>GWB Ext Frame: Misc.</i> | | | | | |
| | | 358 Soffit Track 20g | 1,656.00 lnft | 6,131 | 1,803 | 4.79 /lnft | 7,934 |
| | | 358 Soffit Stud 20g | 1,244.00 lnft | 4,271 | 1,089 | 4.31 /lnft | 5,360 |
| 9252.10 | | <i>GWB Int Frame: S Studs</i> | | | | | |
| | | S Stud 358 x 12' 20 ga | 14.00 each | 261 | 143 | 28.90 /each | 405 |
| | | S Stud 600 x 12' 20 ga | 960.00 each | 19,775 | 14,123 | 35.31 /each | 33,898 |
| 9252.16 | | <i>GWB Int Frame: Furring</i> | | | | | |
| | | FurrDwn Track 1-5/8 20g | 1,264.00 lnft | 2,138 | 1,237 | 2.67 /lnft | 3,375 |
| | | FurrDwn Stud 1-5/8 20g | 5,844.00 lnft | 8,304 | 4,231 | 2.15 /lnft | 12,534 |
| 9252.30 | | <i>GWB Int Frame: Track</i> | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 30.00 lnft | 53 | 37 | 2.98 /lnft | 89 |
| | | Track: Standard 20 ga 6.00 " | 2,406.00 lnft | 8,895 | 3,061 | 4.97 /lnft | 11,956 |
| 9253.10 | | <i>GWB: Fasteners</i> | | | | | |
| | | Misc. Accessories | 1.00 lsum | 5,001 | 1,853 | 6,853.95 /lsum | 6,854 |
| 9253.30 | | <i>GWB: Boards & Sheathing</i> | | | | | |
| | | GWB 5/8" Walls | 62,979.00 sqft | 38,154 | 20,029 | 0.92 /sqft | 58,183 |
| | | GWB 5/8" Soffit | 1,656.00 sqft | 3,010 | 598 | 2.18 /sqft | 3,608 |
| | | GWB 5/8" Water Resistant Clgs | 3,104.00 sqft | 2,089 | 1,138 | 1.04 /sqft | 3,227 |
| 9254.00 | | <i>GWB: Finish Mud/Tape</i> | | | | | |
| | | Labor GWB Wall Finish | 29,105.00 sqft | 17,026 | 2,589 | 0.67 /sqft | 19,615 |
| | | Labor GWB Ceiling Finish | 3,104.00 sqft | 2,350 | 242 | 0.84 /sqft | 2,592 |
| | | Labor GWB Soffit Finish | 1,656.00 sqft | 1,356 | 162 | 0.92 /sqft | 1,518 |
| 9310.01 | | <i>Ceramic Tile</i> | | | | | |
| | | Clean Ceramic Wall Tile | 2,646.00 sqft | 899 | 61 | 0.36 /sqft | 960 |
| | | Ceramic Tile Floor Grade 2 | 3,104.00 sqft | 18,012 | 12,976 | 9.98 /sqft | 30,988 |
| | | Ceramic Trim: Cove Base | 498.00 lnft | 5,303 | 1,540 | 13.74 /lnft | 6,843 |
| 9510.10 | | <i>Ceiling: Susp. System</i> | | | | | |
| | | Susp Clg 1-1/2" Channel | 3,104.00 sqft | 6,530 | 2,451 | 2.89 /sqft | 8,981 |
| 9510.50 | | <i>Ceiling: 2x4 Tile</i> | | | | | |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | 24,162.00 sqft | 29,902 | 53,688 | 3.46 /sqft | 83,590 |
| 9660.01 | | <i>Flooring Resilient Tile</i> | | | | | |
| | | Floor Resil Base 4" | 3,931.00 lnft | 3,720 | 2,296 | 1.53 /lnft | 6,016 |
| | | Radial Rubber Floor 3/16" | 240.00 sqft | 187 | 1,094 | 5.34 /sqft | 1,282 |
| | | Floor Resil Tile Safety Tread | 120.00 lnft | 327 | 763 | 9.08 /lnft | 1,090 |
| | | Floor Resil Rubber Riser | 132.00 lnft | 162 | 345 | 3.84 /lnft | 507 |
| 9685.00 | | <i>Flooring Carpet</i> | | | | | |
| | | Carpet Commercial 32oz | 99.66 sqyd | 777 | 2,414 | 32.01 /sqyd | 3,190 |
| 9910.01 | | <i>Painting: Exterior</i> | | | | | |
| | | Paint Overhead Door | 1.00 each | 124 | 31 | 154.87 /each | 155 |
| 9920.01 | | <i>Painting: Interior</i> | | | | | |
| | | Paint Shelves 3 ct | 95.00 lnft | 227 | 12 | 2.51 /lnft | 238 |
| | | Paint Wd Door & Metal Frame | 81.00 each | 4,042 | 748 | 59.13 /each | 4,789 |
| | | Paint Int Bor. Lt. Frame | 448.00 sqft | 1,200 | 60 | 2.81 /sqft | 1,260 |
| | | Paint Wood Sill | -102.00 lnft | (245) | (7) | 2.47 /lnft | (251) |
| | | Paint Wood Apron | -102.00 lnft | (215) | (7) | 2.17 /lnft | (222) |
| | | Paint Stair Assembly | 252.00 sqft | 649 | 104 | 2.99 /sqft | 752 |
| | | Paint Int Pipe Rails | 246.00 lnft | 230 | 47 | 1.13 /lnft | 277 |
| | | Paint GDW Wall Roller p + 2ct | 29,105.00 sqft | 11,918 | 3,884 | 0.54 /sqft | 15,802 |
| | | Epoxy Paint GDW Clg | 3,104.00 sqft | 5,084 | 2,036 | 2.29 /sqft | 7,121 |
| | | Paint GDW Soffit Roller p+2ct | 1,656.00 sqft | 1,162 | 221 | 0.84 /sqft | 1,383 |
| | | Paint Misc Stl Exp Deck 3 Coat | 2,544.00 sqft | 1,191 | 141 | 0.52 /sqft | 1,332 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|----------|-----------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| | 9920.01 | <i>Painting: Interior</i> | | | | | |
| | | Paint Exist Structure | 2,544.00 sqft | 2,575 | 170 | 1.08 /sqft | 2,745 |
| | | Paint Exist Mechanicals | 2,544.00 sqft | 709 | 85 | 0.31 /sqft | 793 |
| | | Paint Int CMU Spray p+2ct | 6,183.00 sqft | 3,979 | 1,375 | 0.87 /sqft | 5,354 |
| | | Paint Exist Int CMU Spray 2 ct | -94.00 sqft | (27) | (15) | 0.45 /sqft | (42) |
| | | Epoxy Paint Int CMU | 1,947.00 sqft | 3,175 | 1,299 | 2.30 /sqft | 4,474 |
| | 9960.05 | <i>Sound Absorbing Panels</i> | | | | | |
| | | Sound Absorbing Panel | 115.00 sqft | 205 | 991 | 10.40 /sqft | 1,196 |
| | | Custom Acoustic Ceiling Panel | 105.00 sqft | 664 | 835 | 14.28 /sqft | 1,499 |
| | | SPECIALTIES | | | | | |
| | 10110.01 | <i>Chalkboards/Tackboards</i> | | | | | |
| | | Markerboard Alum Fr | 816.00 sqft | 1,932 | 10,027 | 14.66 /sqft | 11,959 |
| | | Tackboard Alum Fr | 816.00 sqft | 1,922 | 4,809 | 8.25 /sqft | 6,732 |
| | 10160.01 | <i>Toilet Partition Metal</i> | | | | | |
| | | Urinal Screens Wall Hung | 1.00 each | 108 | 232 | 340.10 /each | 340 |
| | 10160.02 | <i>Toilet Partition Phenolic</i> | | | | | |
| | | Toilet Partition Reg Flr Mtd | 2.00 each | 308 | 1,942 | 1,124.66 /each | 2,249 |
| | | Toilet Partition HC Flr Mtd | 1.00 each | 154 | 1,300 | 1,453.80 /each | 1,454 |
| | 10185.00 | <i>Shower/Dressing Compart</i> | | | | | |
| | | Compartment Showers | 7.00 each | 2,008 | 6,274 | 1,183.15 /each | 8,282 |
| | 10410.01 | <i>Directory/Bulletin Boards</i> | | | | | |
| | | Buiding Directory | 1.00 each | 431 | 1,257 | 1,687.36 /each | 1,687 |
| | 10420.01 | <i>Plaques</i> | | | | | |
| | | Custom Bronze Plaque 30" x 36" | 1.00 each | 352 | 2,383 | 2,734.56 /each | 2,735 |
| | 10430.01 | <i>Signs</i> | | | | | |
| | | Interior Stock | 29.00 each | 306 | 182 | 16.83 /each | 488 |
| | | Interior Custom | 11.00 each | 348 | 488 | 76.01 /each | 836 |
| | 10505.90 | <i>Lockers</i> | | | | | |
| | | Locker Single Tier 6' | 250.00 each | 14,208 | 41,144 | 221.41 /each | 55,352 |
| | | Locker Single Tier 6' | 150.00 each | 8,324 | 24,686 | 220.07 /each | 33,010 |
| | | Locker Double Tier 6' | 48.00 opng | 1,155 | 6,031 | 149.71 /opng | 7,186 |
| | | Locker: Bench | 173.00 lnft | 2,166 | 4,252 | 37.10 /lnft | 6,418 |
| | 10523.00 | <i>Fire Extinguishers</i> | | | | | |
| | | Fire Ext Cabinet | 4.00 each | 528 | 636 | 291.06 /each | 1,164 |
| | 10535.00 | <i>Canopies</i> | | | | | |
| | | Walkway Canopie Monumental | 698.00 sqft | 8,433 | 19,754 | 41.90 /sqft | 29,247 |
| | 10800.01 | <i>Toilet Accessories</i> | | | | | |
| | | Shower Rod | 7.00 each | 284 | 262 | 78.08 /each | 547 |
| | | Shower Curtain | 21.00 lnft | 26 | 138 | 7.82 /lnft | 164 |
| | | Grab Bar 1-1/4" S.S. 36" | 6.00 each | 158 | 230 | 64.73 /each | 388 |
| | | Mirror 18" x 30" S.S. | 4.00 each | 137 | 333 | 117.57 /each | 470 |
| | | Clothes Hook Single | 3.00 each | 44 | 34 | 25.98 /each | 78 |
| | | Soap Dispenser | 4.00 each | 211 | 556 | 191.74 /each | 767 |
| | | Stainless Steel Shelf | 6.00 lnft | 72 | 153 | 37.57 /lnft | 225 |
| | | Toilet Tissue Disp Dbl | 5.00 each | 110 | 89 | 39.69 /each | 198 |
| | | Towel Dispenser Surface Mtd | 2.00 each | 66 | 84 | 75.11 /each | 150 |
| | | Towel Disp/Waste Recpt | 2.00 each | 211 | 814 | 512.46 /each | 1,025 |
| | | Phase 2A | | | | | |
| | | SITWORK | | | | | |
| | 2220.15 | <i>Earthwk: Dispose Surplus</i> | | | | | |
| | | Dispose Surplus | 7.00 cuyd | 26 | - | 8.27 /cuyd | 58 |
| | 2220.20 | <i>Earthwk: Footings (Hand)</i> | | | | | |
| | | Excavate Isolated Footing By Hand | 1.19 cuyd | 97 | - | 81.80 /cuyd | 97 |
| | 2220.25 | <i>Earthwk: Footings (Mach)</i> | | | | | |
| | | Excavate Isolated Footing Machine | 18.52 cuyd | 137 | - | 11.65 /cuyd | 216 |
| | 2220.50 | <i>Backfill: Footing</i> | | | | | |
| | | Backfill Isol. Footings - Exist | 14.00 cuyd | 25 | - | 3.26 /cuyd | 46 |
| | | CONCRETE | | | | | |
| | 3111.00 | <i>Forms: Footings</i> | | | | | |
| | | Isolated Footing Forms 2 Use | 48.00 sqft | 261 | 79 | 7.07 /sqft | 339 |
| | 3126.00 | <i>Forms: Piers</i> | | | | | |
| | | Pier Forms | 64.00 sqft | 638 | 102 | 11.56 /sqft | 740 |
| | 3206.00 | <i>Rebar: Footings</i> | | | | | |
| | | Isolated Footing Rebar #5 | 0.07 ton | 85 | 69 | 2,191.10 /ton | 153 |
| | 3211.00 | <i>Rebar: Piers</i> | | | | | |
| | | Pier Rebar #3 | 0.02 ton | 22 | 23 | 2,247.50 /ton | 45 |
| | | Pier Rebar #6 | 0.02 ton | 21 | 23 | 2,160.50 /ton | 43 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|-----------------|-------|--|------------------|--------------|-----------------|-----------------|--------------|
| 3306.00 | | <i>Conc: Footings</i> | | | | | |
| | | Isolated Footing Conc 3000 psi | 3.60 cuyd | 254 | 281 | 166.34 /cuyd | 599 |
| 3309.00 | | <i>Conc: Piers</i> | | | | | |
| | | Pier Conc 4000 psi | 2.40 cuyd | 212 | 214 | 199.36 /cuyd | 478 |
| 3610.01 | | <i>Grout</i> | | | | | |
| | | Grout Base Pl Metallic 2" (sf) | 1.00 sqft | 18 | 26 | 43.71 /sqft | 44 |
| | | MASONRY | | | | | |
| 4050.10 | | <i>Misc: Scaffold</i> | | | | | |
| | | Exterior Scaffold | 80.00 sqft | 81 | 24 | 1.56 /sqft | 125 |
| 4050.15 | | <i>Misc: Material Handling</i> | | | | | |
| | | Concrete Block | 1.00 m | - | - | 198.40 /m | 198 |
| | | Brick | 2.00 m | - | - | 66.66 /m | 133 |
| 4105.00 | | <i>Mortar: All Types</i> | | | | | |
| | | Mortar Type "N" | 1.40 cuyd | - | 185 | 132.11 /cuyd | 185 |
| | | Mortar Color | 42.00 lbs | 238 | 378 | 14.66 /lbs | 616 |
| 4110.01 | | <i>Mortar: Grout Fill Conc</i> | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | 0.79 cuyd | 126 | 84 | 276.99 /cuyd | 219 |
| 4157.00 | | <i>Reinforce: Vertical Wall</i> | | | | | |
| | | Re-Bar #7 & #8 | 171.70 lb | 135 | 92 | 1.32 /lb | 227 |
| 4159.00 | | <i>Reinforce: Brick Anchors</i> | | | | | |
| | | Brick Anchors Z Ties 8" | 126.00 each | 99 | 18 | 0.93 /each | 117 |
| 4202.00 | | <i>Brick: All Types</i> | | | | | |
| | | Standard Size Face Brick Pier | 1.51 m | 7,174 | 715 | 5,224.50 /m | 7,889 |
| 4220.00 | | <i>Conc. Block: Backup</i> | | | | | |
| | | Blk 8" Stand Face Reg Wt - Infill/Pier | 252.00 each | 2,502 | 388 | 11.47 /each | 2,891 |
| 4710.10 | | <i>Cleaning: Masonry</i> | | | | | |
| | | Clean Brick - General | 2.24 sqs | 351 | 6 | 159.34 /sqs | 357 |
| | | METALS | | | | | |
| 5055.00 | | <i>Fastener: Col Anchor Bolt</i> | | | | | |
| | | 3/4" d. 12" long | 4.00 each | 86 | 8 | 23.54 /each | 94 |
| 5510.15 | | <i>Misc: Embedded Material</i> | | | | | |
| | | Bearing Plates | 1.00 each | 15 | 28 | 43.06 /each | 43 |
| | | WOOD & PLASTICS | | | | | |
| 6113.40 | | <i>Blocking: Rough Bucks</i> | | | | | |
| | | Rough Bucks 2 x 6 PT Doors | -24.00 lnft | (44) | (26) | 2.93 /lnft | (70) |
| | | THERMAL & MOISTURE PROT | | | | | |
| 7910.01 | | <i>Sealant - Jt Filler Gasket</i> | | | | | |
| | | Backer Rod 1/2" | -24.00 lnft | (42) | (1) | 1.80 /lnft | (43) |
| | | Polyurethane Sealant 1/2" | -48.00 lnft | (260) | (19) | 5.81 /lnft | (279) |
| | | DOORS & WINDOWS | | | | | |
| 8361.00 | | <i>Doors: Overhead</i> | | | | | |
| | | Door OH Sectional Steel 8' x 8' | -1.00 each | (463) | (715) | 1,178.36 /each | (1,178) |
| 8370.01 | | <i>Doors: Hardware</i> | | | | | |
| | | Overhead Door Hardware | -1.00 each | (132) | (234) | 365.56 /each | (366) |
| | | FINISHES | | | | | |
| 9910.01 | | <i>Painting: Exterior</i> | | | | | |
| | | Paint Overhead Door | -1.00 each | (123) | (31) | 154.32 /each | (154) |
| | | SPECIALTIES | | | | | |
| 10535.00 | | <i>Canopies</i> | | | | | |
| | | Walkway Canopie Monumental | 1,558.00 sqft | 18,822 | 44,092 | 41.90 /sqft | 65,281 |
| Phase 2B | | | | | | | |
| | | DEMOLITION | | | | | |
| 2071.01 | | <i>Demo: General</i> | | | | | |
| | | General Disposal | 134.00 cuyd | 1,834 | - | 18.83 /cuyd | 2,523 |
| | | Shore - Screw Jack | 16.00 each | 11,722 | 775 | 822.83 /each | 13,165 |
| 2075.00 | | <i>Demo: Concrete</i> | | | | | |
| | | Saw Concrete Slab to 6" | 324.00 lnft | 1,289 | - | 5.04 /lnft | 1,633 |
| | | Remove Slab on Grade | 381.00 sqft | 1,787 | - | 5.13 /sqft | 1,953 |
| 2076.00 | | <i>Demo: Masonry</i> | | | | | |
| | | Cut Out Opng 8" CMU | 357.00 sqft | 7,288 | - | 22.34 /sqft | 7,977 |
| | | Sawcut 8" CMU | 275.00 lnft | 27,049 | - | 112.68 /lnft | 30,988 |
| | | Remove CMU 8" | 4,920.00 sqft | 11,869 | - | 2.67 /sqft | 13,129 |
| 2084.01 | | <i>Demo: Doors & Windows</i> | | | | | |
| | | Remove Door | -6.00 each | (131) | - | 21.81 /each | (131) |
| | | Remove Door Frame Int Double | 2.00 each | 175 | - | 101.04 /each | 202 |
| 2088.01 | | <i>Demo: Finishes, Floors</i> | | | | | |
| | | Flash Patch @ Wall Removal | 410.00 sqft | 674 | 506 | 2.88 /sqft | 1,180 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|---------|---|------------------|--------------|-----------------|-----------------|--------------|
| | | SITEWORK | | | | | |
| | 2220.15 | Earthwk: Dispose Surplus Dispose Surplus | 13.00 cuyd | 48 | - | 8.27 /cuyd | 107 |
| | 2220.30 | Earthwk: Pits, Misc Excav Excavate Misc By Hand | 21.40 cuyd | 1,558 | - | 72.81 /cuyd | 1,558 |
| | 2220.60 | Backfill: Pit, etc Backfill Pits | 9.00 cuyd | 26 | | 4.93 /cuyd | 44 |
| | | CONCRETE | | | | | |
| | 3164.00 | Forms: Pits & Misc. Pit Forms | 292.00 sqft | 8,340 | 1,000 | 31.99 /sqft | 9,340 |
| | 3214.00 | Rebar: Pits & Misc Pit-Misc Rebar #5 | 0.44 ton | 366 | 497 | 1,961.21 /ton | 863 |
| | 3310.01 | Conc: Slabs On Grade Patch Conc. Slab Trench etc. | 304.00 sqft | 1,175 | 2,096 | 10.76 /sqft | 3,271 |
| | 3312.00 | Conc: Pit & Misc Pit Conc 4000 psi | 7.70 cuyd | 302 | 700 | 139.83 /cuyd | 1,077 |
| | | MASONRY | | | | | |
| | 4050.10 | Misc: Scaffold Interior Scaffold | 2,304.00 sqft | 1,701 | 692 | 1.21 /sqft | 2,786 |
| | 4050.15 | Misc: Material Handling Concrete Block | 3.00 m | - | - | 198.40 /m | 595 |
| | 4105.00 | Mortar: All Types Mortar Type "N" | 6.99 cuyd | - | 923 | 132.11 /cuyd | 923 |
| | 4110.01 | Mortar: Grout Fill Conc Grout Fill 3000 psi, 1/2" Gravl | 4.62 cuyd | 735 | 488 | 276.92 /cuyd | 1,279 |
| | | Grout Single Door Frame | 19.00 each | 683 | 205 | 49.48 /each | 940 |
| | | Grout Double Door Frame | 3.00 each | 145 | 45 | 66.87 /each | 201 |
| | 4157.00 | Reinforce: Vertical Wall Re-Bar #5 & #6 | 736.97 lbs | 774 | 385 | 1.57 /lbs | 1,159 |
| | 4158.00 | Reinforce: Horizontal Wall Horiz Wall Reinf 8" Hot Dippp | 1.70 mlf | 561 | 264 | 485.25 /mlf | 825 |
| | 4221.15 | Conc. Block: 8" Blk 8" Standard Face Reg Wt | 2,220.00 each | 16,108 | 3,723 | 8.93 /each | 19,831 |
| | | Blk 8" Standard Face Reg Wt - Infill | 144.00 each | 1,529 | 251 | 12.36 /each | 1,780 |
| | 4221.45 | Conc. Block: 8" Lintel Lintel 8" Stand Face Reg Wt | 156.00 each | 1,714 | 1,091 | 18.83 /each | 2,937 |
| | | METALS | | | | | |
| | 5510.15 | Misc: Embedded Material Embedded Angle in Concrete LF | 8.00 lnft | 191 | 159 | 43.80 /lnft | 350 |
| | 5510.35 | Misc: Bolt On Material Angle Bolted To Masonry | 672.00 lb | 1,691 | 1,160 | 4.33 /lb | 2,908 |
| | 5510.61 | Misc: Ladders Ladders | 4.00 vlf | 198 | 226 | 107.59 /vlf | 430 |
| | | WOOD & PLASTICS | | | | | |
| | 6015.00 | Fasteners: Frame Anchors Fastners & Misc | 1.00 lsum | - | 16 | 15.57 /lsum | 16 |
| | 6105.00 | Framing: Floor Joist Floor Joist 2x10 RL | 138.00 lnft | 168 | 194 | 2.62 /lnft | 362 |
| | | Ledger 2" x 10" RL | 60.00 lnft | 146 | 88 | 3.91 /lnft | 234 |
| | 6112.00 | Framing: Stairs Stair Ledger 2x12 | 4.00 lnft | 15 | 8 | 5.85 /lnft | 23 |
| | | Stair Stringer 2x12 | 8.00 lnft | 67 | 16 | 10.38 /lnft | 83 |
| | | Stair Risers Fir | 20.00 lnft | 165 | 52 | 10.87 /lnft | 217 |
| | | Stair Tread Oak 1-1/16" x 9-1/2" | 16.00 lnft | 155 | 531 | 42.92 /lnft | 687 |
| | 6113.20 | Blocking: Misc. Block Toilet Partition | -4.00 each | (88) | (51) | 34.72 /each | (139) |
| | | Block H.C. Toilet Partition | -2.00 each | (66) | (32) | 48.80 /each | (98) |
| | | Block Misc Toilet Accessories | 17.00 each | 224 | 91 | 18.54 /each | 315 |
| | | Blocking 2 x 4 R.L. | 8.00 lnft | 16 | 4 | 2.50 /lnft | 20 |
| | | Blocking 2 x 6 R.L. | 1.00 lnft | 3 | 1 | 3.27 /lnft | 3 |
| | 6113.40 | Blocking: Rough Bucks Rough Bucks 2 x 6 Doors | 610.00 lnft | 1,114 | 460 | 2.58 /lnft | 1,575 |
| | 6114.00 | Plywood: Subfloor Subfloor 3/4" T & G Plywood | 180.00 sqft | 158 | 236 | 2.19 /sqft | 394 |
| | | THERMAL & MOISTURE PROT | | | | | |
| | 7145.00 | Waterproofing: Cement. Cement W.P. 1 ct 1/8" | 132.00 sqft | 240 | 278 | 4.12 /sqft | 544 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|----------|---|------------------|--------------|-----------------|-----------------|--------------|
| | 7211.20 | <i>Insulation: Sound Blankt</i> | | | | | |
| | | Sound Blanket 16" x 3- 5/8" | 588.00 sqft | 388 | 498 | 1.51 /sqft | 887 |
| | | Sound Blanket 16" x 6.00 " | 7,611.00 sqft | 5,025 | 8,281 | 1.75 /sqft | 13,306 |
| | 7270.00 | <i>Firestopping</i> | | | | | |
| | | Firesafing | 789.00 Inft | 1,042 | 550 | 2.02 /Inft | 1,592 |
| | 7910.01 | <i>Sealant - Jt Filler Gaskt</i> | | | | | |
| | | Polysulfide Sealant 1/4" Interior | 610.00 Inft | 3,255 | 112 | 5.52 /Inft | 3,367 |
| | | DOORS & WINDOWS | | | | | |
| | 8110.01 | <i>Doors: Steel with Frames</i> | | | | | |
| | | H.M. Frame 18ga Interior Single | 30.00 each | 2,166 | 3,570 | 191.18 /each | 5,736 |
| | | H.M. Frame 18ga Interior Double | 5.00 each | 451 | 751 | 240.31 /each | 1,202 |
| | 8210.01 | <i>Doors: Wood</i> | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 28.00 each | 2,662 | 8,843 | 410.87 /each | 11,504 |
| | 8710.01 | <i>Hardware: Finishing</i> | | | | | |
| | | FINISHING Hardware Int Budget w Closure | 28.00 each | 2,773 | 14,229 | 607.22 /each | 17,002 |
| | 9210.01 | <i>Lath/Plastr: Gyp Plaster</i> | | | | | |
| | | Plaster Patch @ Wall Removal | 312.00 sqft | 3,714 | 337 | 13.18 /sqft | 4,111 |
| | | Plaster Patch Ceiling @ Wall Removal | 410.00 sqft | 1,594 | 401 | 4.93 /sqft | 2,023 |
| | 9252.10 | <i>GWB Int Frame: S Studs</i> | | | | | |
| | | S Stud 358 x 12' 20 ga | 48.00 each | 896 | 491 | 28.90 /each | 1,387 |
| | | S Stud 600 x 12' 20 ga | 516.00 each | 10,629 | 7,591 | 35.31 /each | 18,220 |
| | 9252.30 | <i>GWB Int Frame: Track</i> | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 112.00 Inft | 197 | 137 | 2.98 /Inft | 334 |
| | | Track: Standard 20 ga 6.00 " | 1,314.00 Inft | 4,858 | 1,913 | 5.15 /Inft | 6,771 |
| | 9253.10 | <i>GWB: Fasteners</i> | | | | | |
| | | Misc. Accessories | 1.00 lsum | 2,050 | 761 | 2,810.77 /lsum | 2,811 |
| | 9253.30 | <i>GWB: Boards & Sheathing</i> | | | | | |
| | | GWB 5/8" Walls | 31,620.00 sqft | 19,255 | 9,669 | 0.92 /sqft | 28,925 |
| | | GWB 5/8" Water Resistant Clgs | 97.00 sqft | 66 | 34 | 1.03 /sqft | 100 |
| | 9254.00 | <i>GWB: Finish Mud/Tape</i> | | | | | |
| | | Labor GWB Wall Finish | 13,630.00 sqft | 7,938 | 1,061 | 0.66 /sqft | 8,999 |
| | | Labor GWB Ceiling Finish | 97.00 sqft | 73 | 8 | 0.84 /sqft | 81 |
| | 9310.01 | <i>Ceramic Tile</i> | | | | | |
| | | Ceramic Tile Floor Grade 2 | 97.00 sqft | 608 | 406 | 10.45 /sqft | 1,013 |
| | | Ceramic Tile Wall Grade 2 | -882.00 sqft | (7,704) | (3,535) | 12.74 /sqft | (11,238) |
| | | Ceramic Trim: Cove Base | -147.00 Inft | (1,691) | (455) | 14.59 /Inft | (2,145) |
| | 9510.10 | <i>Ceiling: Susp. System</i> | | | | | |
| | | Susp Clg 1-1/2" Channel | 97.00 sqft | 219 | 79 | 3.06 /sqft | 297 |
| | 9510.50 | <i>Ceiling: 2x4 Tile</i> | | | | | |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | -97.00 sqft | (129) | (216) | 3.55 /sqft | (344) |
| | 9660.01 | <i>Flooring Resilient Tile</i> | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | -515.00 sqft | (345) | (495) | 1.63 /sqft | (840) |
| | | Floor Resil Base 4" | 1,557.00 Inft | 1,476 | 910 | 1.53 /Inft | 2,386 |
| | 9685.00 | <i>Flooring Carpet</i> | | | | | |
| | | Carpet Commercial 32oz | 46.44 sqyd | 363 | 1,125 | 32.03 /sqyd | 1,487 |
| | 9920.01 | <i>Painting: Interior</i> | | | | | |
| | | Paint Wd Door & Metal Frame | 28.00 each | 1,391 | 258 | 58.91 /each | 1,649 |
| | | Paint Ladder | 4.00 Inft | 14 | 2 | 3.98 /Inft | 16 |
| | | Paint GDW Wall Roller p + 2ct | 13,630.00 sqft | 5,557 | 1,819 | 0.54 /sqft | 7,375 |
| | | Epoxy Paint GDW Clg | 97.00 sqft | 158 | 64 | 2.29 /sqft | 222 |
| | | Paint Int CMU Spray p+2ct | 4,552.00 sqft | 2,916 | 1,012 | 0.86 /sqft | 3,929 |
| | | Paint Exist Int CMU Spray 2 ct | -8,938.00 sqft | (2,603) | (1,391) | 0.45 /sqft | (3,994) |
| | | Epoxy Paint Int CMU | -491.00 sqft | (801) | (328) | 2.30 /sqft | (1,128) |
| | | SPECIALTIES | | | | | |
| | 10160.01 | <i>Toilet Partition Metal</i> | | | | | |
| | | Urinal Screens Wall Hung | -1.00 each | (108) | (232) | 340.67 /each | (341) |
| | 10160.02 | <i>Toilet Partition Phenolic</i> | | | | | |
| | | Toilet Partition Reg Flr Mtd | -3.00 each | (464) | (2,912) | 1,125.45 /each | (3,376) |
| | | Toilet Partition HC Flr Mtd | -2.00 each | (309) | (2,600) | 1,454.60 /each | (2,909) |
| | 10430.01 | <i>Signs</i> | | | | | |
| | | Interior Stock | 8.00 each | 85 | 50 | 16.85 /each | 135 |
| | | Interior Custom | 1.00 each | 32 | 44 | 76.06 /each | 76 |
| | 10617.00 | <i>Partitions Operable</i> | | | | | |
| | | Operable Partition 2-1/4" t Avg | -96.00 sqft | (310) | (4,025) | 45.15 /sqft | (4,335) |
| | | Operable Partition Track | -12.00 Inft | - | (1,082) | 90.18 /Inft | (1,082) |
| | 10800.01 | <i>Toilet Accessories</i> | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|-----------------|-------|------------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 10800.01 | | <i>Toilet Accessories</i> | | | | | |
| | | Grab Bar 1-1/4" S.S. 36" | 4.00 each | 106 | 153 | 64.77 /each | 259 |
| | | Mirror 18" x 30" S.S. | 5.00 each | 172 | 416 | 117.62 /each | 588 |
| | | Sanitary Napkin Dispenser Recessed | -1.00 each | (35) | (336) | 371.01 /each | (371) |
| | | Clothes Hook Single | -5.00 each | (73) | (57) | 26.00 /each | (130) |
| | | Soap Dispenser | 5.00 each | 264 | 695 | 191.82 /each | 959 |
| | | Stainless Steel Shelf | 8.00 Inft | 96 | 205 | 37.59 /Inft | 301 |
| | | Toilet Tissue Disp Dbl | -1.00 each | (22) | (18) | 39.71 /each | (40) |
| | | Towel Dispenser Surface Mtd | 4.00 each | 132 | 169 | 75.16 /each | 301 |
| | | Towel Disp/Waste Recpt | -2.00 each | (211) | (814) | 512.63 /each | (1,025) |
| | | CONVEYING SYSTEMS | | | | | |
| 14001.00 | | <i>Elevators</i> | | | | | |
| | | Elevator Hyd Passenger 2 stop | 1.00 each | 18,237 | 33,467 | 54,251.94 /each | 54,252 |
| | | Capacity Upgrade 2500# Hyd | 1.00 lsum | - | 1,972 | 1,971.58 /lsum | 1,972 |
| | | Speed Upgrade 125 fpm Hyd | 1.00 lsum | - | 1,123 | 1,123.12 /lsum | 1,123 |
| | | Emergency Power | 1.00 lsum | - | 2,068 | 2,068.32 /lsum | 2,068 |
| | | Rear Opening Door | 1.00 each | - | 4,494 | 4,493.59 /each | 4,494 |
| | | Maint Contract 12 mos | 1.00 lsum | - | 2,641 | 2,641.00 /lsum | 2,641 |
| | | Sig Device Hall Latern | 2.00 each | - | 867 | 433.68 /each | 867 |
| 14405.00 | | <i>Lifts</i> | | | | | |
| | | Lift Commercial | 1.00 each | 2,084 | 12,382 | 14,745.93 /each | 14,746 |
| Phase 3A | | | | | | | |
| | | DEMOLITION | | | | | |
| 2071.01 | | <i>Demo: General</i> | | | | | |
| | | General Disposal | 3.00 cuyd | 43 | - | 19.53 /cuyd | 59 |
| | | Shore - Screw Jack | 1.00 each | 733 | 48 | 822.83 /each | 823 |
| 2075.00 | | <i>Demo: Concrete</i> | | | | | |
| | | Saw Concrete Slab to 6" | 148.00 Inft | 585 | - | 5.01 /Inft | 742 |
| | | Remove Slab on Grade | 132.00 sqft | 619 | - | 5.13 /sqft | 677 |
| 2076.00 | | <i>Demo: Masonry</i> | | | | | |
| | | Cut Out Opng 8" CMU | 21.00 sqft | 429 | - | 22.34 /sqft | 469 |
| | | Sawcut 8" CMU | 17.00 Inft | 1,672 | - | 112.68 /Inft | 1,916 |
| | | CONCRETE | | | | | |
| 3310.01 | | <i>Conc: Slabs On Grade</i> | | | | | |
| | | Patch Conc. Slab Trench etc. | 132.00 sqft | 600 | 947 | 11.72 /sqft | 1,547 |
| | | MASONRY | | | | | |
| 4050.10 | | <i>Misc: Scaffold</i> | | | | | |
| | | Interior Scaffold | -600.00 sqft | (443) | (180) | 1.21 /sqft | (725) |
| 4050.15 | | <i>Misc: Material Handling</i> | | | | | |
| | | Concrete Block | -1.00 m | - | - | 198.40 /m | (198) |
| 4105.00 | | <i>Mortar: All Types</i> | | | | | |
| | | Mortar Type "N" | -1.88 cuyd | - | (248) | 132.11 /cuyd | (248) |
| 4110.01 | | <i>Mortar: Grout Fill Conc</i> | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | -0.83 cuyd | (132) | (88) | 276.98 /cuyd | (230) |
| | | Grout Single Door Frame | 1.00 each | 36 | 11 | 49.48 /each | 49 |
| 4157.00 | | <i>Reinforce: Vertical Wall</i> | | | | | |
| | | Re-Bar #5 & #6 | -112.64 lbs | (118) | (59) | 1.57 /lbs | (177) |
| 4158.00 | | <i>Reinforce: Horizontl Wall</i> | | | | | |
| | | Horiz Wall Reinf 8" Hot Dippd | -0.45 mlf | (149) | (70) | 485.42 /mlf | (218) |
| 4221.15 | | <i>Conc. Block: 8"</i> | | | | | |
| | | Blk 8" Standard Face Reg Wt | -638.00 each | (4,629) | (1,070) | 8.93 /each | (5,699) |
| 4221.45 | | <i>Conc. Block: 8" Lintel</i> | | | | | |
| | | Lintel 8" Stand Face Reg Wt | -38.00 each | (417) | (266) | 18.83 /each | (715) |
| | | METALS | | | | | |
| 5510.35 | | <i>Misc: Bolt On Material</i> | | | | | |
| | | Angle Bolted To Masonry | -186.00 lb | (468) | (321) | 4.33 /lb | (805) |
| | | WOOD & PLASTICS | | | | | |
| 6015.00 | | <i>Fasteners: Frame Anchors</i> | | | | | |
| | | Fastners & Misc | -1.00 lsum | - | (1) | 1.11 /lsum | (1) |
| 6113.20 | | <i>Blocking: Misc.</i> | | | | | |
| | | Block Toilet Partition | -8.00 each | (176) | (102) | 34.72 /each | (278) |
| 6113.40 | | <i>Blocking: Rough Bucks</i> | | | | | |
| | | Rough Bucks 2 x 6 Doors | 34.00 Inft | 62 | 26 | 2.58 /Inft | 88 |
| | | THERMAL & MOISTURE PROT | | | | | |
| 7211.20 | | <i>Insulation: Sound Blankt</i> | | | | | |
| | | Sound Blanket 16" x 6.00 " | 231.00 sqft | 153 | 251 | 1.75 /sqft | 404 |
| 7270.00 | | <i>Firestopping</i> | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-----------------|---|------------------|--------------|-----------------|-----------------|--------------|
| | 7270.00 | Firestopping | | | | | |
| | | Firesafing | 21.00 Inft | 28 | 15 | 2.02 /Inft | 42 |
| | 7910.01 | Sealant - Jt Filler Gaskt | | | | | |
| | | Polysulfide Sealant 1/4" Interior | 51.00 Inft | 272 | 9 | 5.52 /Inft | 282 |
| | | DOORS & WINDOWS | | | | | |
| | 8110.01 | Doors: Steel with Frames | | | | | |
| | | H.M. Frame 18ga Interior Single | 3.00 each | 217 | 357 | 191.18 /each | 574 |
| | 8210.01 | Doors: Wood | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 3.00 each | 285 | 947 | 410.87 /each | 1,235 |
| | 8710.01 | Hardware: Finishing | | | | | |
| | | Finishing Hardware Int Budget w Closure | 3.00 each | 297 | 1,525 | 607.21 /each | 1,822 |
| | | FINISHES | | | | | |
| | 9252.10 | GWB Int Frame: S Studs | | | | | |
| | | S Stud 358 x 4' 20 ga | 261.00 each | 1,568 | 1,085 | 10.17 /each | 2,653 |
| | | S Stud 600 x 12' 20 ga | 18.00 each | 371 | 265 | 35.31 /each | 636 |
| | 9252.30 | GWB Int Frame: Track | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 576.00 Inft | 1,013 | 705 | 2.98 /Inft | 1,718 |
| | | Track: Standard 20 ga 6.00 " | 42.00 Inft | 155 | 61 | 5.15 /Inft | 216 |
| | 9253.10 | GWB: Fasteners | | | | | |
| | | Misc. Accessories | 1.00 lsum | 379 | 140 | 519.02 /lsum | 519 |
| | 9253.30 | GWB: Boards & Sheathing | | | | | |
| | | GWB 5/8" Walls | 3,228.00 sqft | 1,966 | 987 | 0.92 /sqft | 2,953 |
| | | GWB 5/8" Water Resistant Clgs | 566.00 sqft | 383 | 201 | 1.03 /sqft | 584 |
| | 9254.00 | GWB: Finish Mud/Tape | | | | | |
| | | Labor GWB Wall Finish | 2,682.00 sqft | 1,562 | 209 | 0.66 /sqft | 1,771 |
| | | Labor GWB Ceiling Finish | 566.00 sqft | 429 | 44 | 0.84 /sqft | 473 |
| | 9310.01 | Ceramic Tile | | | | | |
| | | Ceramic Tile Floor Grade 2 | 566.00 sqft | 3,548 | 2,366 | 10.45 /sqft | 5,914 |
| | | Ceramic Tile Wall Grade 2 | 336.00 sqft | 1,650 | 1,020 | 7.95 /sqft | 2,670 |
| | | Ceramic Trim: Cove Base | 56.00 Inft | 644 | 173 | 14.59 /Inft | 817 |
| | 9510.10 | Ceiling: Susp. System | | | | | |
| | | Susp Clg 1-1/2" Channel | 566.00 sqft | 1,275 | 459 | 3.06 /sqft | 1,734 |
| | 9510.50 | Ceiling: 2x4 Tile | | | | | |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | -566.00 sqft | (750) | (1,258) | 3.55 /sqft | (2,008) |
| | 9660.01 | Flooring Resilient Tile | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | -566.00 sqft | (379) | (545) | 1.63 /sqft | (923) |
| | | Floor Resil Base 4" | 462.00 Inft | 438 | 270 | 1.53 /Inft | 708 |
| | 9920.01 | Painting: Interior | | | | | |
| | | Paint Wd Door & Metal Frame | 3.00 each | 149 | 28 | 58.91 /each | 177 |
| | | Paint GDW Wall Roller p + 2ct | 2,682.00 sqft | 1,093 | 358 | 0.54 /sqft | 1,451 |
| | | Epoxy Paint GDW Clg | 566.00 sqft | 923 | 371 | 2.29 /sqft | 1,294 |
| | | Paint Exist Int CMU Spray 2 ct | -1,560.00 sqft | (454) | (243) | 0.45 /sqft | (697) |
| | | Epoxy Paint Int CMU | 224.00 sqft | 365 | 149 | 2.30 /sqft | 515 |
| | | SPECIALTIES | | | | | |
| | 10160.01 | Toilet Partition Metal | | | | | |
| | | Urinal Screens Wall Hung | -8.00 each | (866) | (1,859) | 340.67 /each | (2,725) |
| | Phase 3B | | | | | | |
| | | DEMOLITION | | | | | |
| | 2071.01 | Demo: General | | | | | |
| | | General Disposal | 3.00 cuyd | 43 | - | 19.53 /cuyd | 59 |
| | | Shore - Screw Jack | 1.00 each | 733 | 48 | 822.83 /each | 823 |
| | 2075.00 | Demo: Concrete | | | | | |
| | | Saw Concrete Slab to 6" | 148.00 Inft | 585 | - | 5.01 /Inft | 742 |
| | | Remove Slab on Grade | 132.00 sqft | 619 | - | 5.13 /sqft | 677 |
| | 2076.00 | Demo: Masonry | | | | | |
| | | Cut Out Opng 8" CMU | 21.00 sqft | 429 | - | 22.34 /sqft | 469 |
| | | Sawcut 8" CMU | 17.00 Inft | 1,672 | - | 112.68 /Inft | 1,916 |
| | | CONCRETE | | | | | |
| | 3310.01 | Conc: Slabs On Grade | | | | | |
| | | Patch Conc. Slab Trench etc. | 132.00 sqft | 600 | 947 | 11.72 /sqft | 1,547 |
| | | MASONRY | | | | | |
| | 4050.10 | Misc: Scaffold | | | | | |
| | | Interior Scaffold | -600.00 sqft | (443) | (180) | 1.21 /sqft | (725) |
| | 4050.15 | Misc: Material Handling | | | | | |
| | | Concrete Block | -1.00 m | - | - | 198.40 /m | (198) |
| | 4105.00 | Mortar: All Types | | | | | |
| | | Mortar Type "N" | -1.88 cuyd | - | (248) | 132.11 /cuyd | (248) |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|---|------------------|--------------|-----------------|-----------------|--------------|
| 4110.01 | | <i>Mortar: Grout Fill Conc</i> | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | -0.83 cuyd | (132) | (88) | 276.98 /cuyd | (230) |
| | | Grout Single Door Frame | 1.00 each | 36 | 11 | 49.47 /each | 49 |
| 4157.00 | | <i>Reinforce: Vertical Wall</i> | | | | | |
| | | Re-Bar #5 & #6 | -112.64 lbs | (118) | (59) | 1.57 /lbs | (177) |
| 4158.00 | | <i>Reinforce: Horizontal Wall</i> | | | | | |
| | | Horiz Wall Reinf 8" Hot Dippd | -0.45 mlf | (149) | (70) | 485.44 /mlf | (218) |
| 4221.15 | | <i>Conc. Block: 8"</i> | | | | | |
| | | Blk 8" Standard Face Reg Wt | -638.00 each | (4,629) | (1,070) | 8.93 /each | (5,699) |
| 4221.45 | | <i>Conc. Block: 8" Lintel</i> | | | | | |
| | | Lintel 8" Stand Face Reg Wt | -38.00 each | (417) | (266) | 18.83 /each | (715) |
| | | METALS | | | | | |
| 5510.35 | | <i>Misc: Bolt On Material</i> | | | | | |
| | | Angle Bolted To Masonry | -186.00 lb | (468) | (321) | 4.33 /lb | (805) |
| | | WOOD & PLASTICS | | | | | |
| 6015.00 | | <i>Fasteners: Frame Anchors</i> | | | | | |
| | | Fastners & Misc | -1.00 lsum | - | (1) | 1.11 /lsum | (1) |
| 6113.20 | | <i>Blocking: Misc.</i> | | | | | |
| | | Block Toilet Partition | -8.00 each | (176) | (102) | 34.72 /each | (278) |
| 6113.40 | | <i>Blocking: Rough Bucks</i> | | | | | |
| | | Rough Bucks 2 x 6 Doors | 34.00 lnft | 62 | 26 | 2.58 /lnft | 88 |
| | | THERMAL & MOISTURE PROT | | | | | |
| 7211.20 | | <i>Insulation: Sound Blankt</i> | | | | | |
| | | Sound Blanket 16" x 6.00 " | 231.00 sqft | 153 | 251 | 1.75 /sqft | 404 |
| 7270.00 | | <i>Firestopping</i> | | | | | |
| | | Firesafing | 21.00 lnft | 28 | 15 | 2.02 /lnft | 42 |
| 7910.01 | | <i>Sealant - Jt Filler Gasket</i> | | | | | |
| | | Polysulfide Sealant 1/4" Interior | 51.00 lnft | 272 | 9 | 5.52 /lnft | 282 |
| | | DOORS & WINDOWS | | | | | |
| 8110.01 | | <i>Doors: Steel with Frames</i> | | | | | |
| | | H.M. Frame 18ga Interior Single | 3.00 each | 217 | 357 | 191.18 /each | 574 |
| 8210.01 | | <i>Doors: Wood</i> | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 3.00 each | 285 | 947 | 410.87 /each | 1,233 |
| 8710.01 | | <i>Hardware: Finishing</i> | | | | | |
| | | Finishing Hardware Int Budget w Closure | 3.00 each | 297 | 1,525 | 607.21 /each | 1,822 |
| | | FINISHES | | | | | |
| 9252.10 | | <i>GWB Int Frame: S Studs</i> | | | | | |
| | | S Stud 358 x 4' 20 ga | 261.00 each | 1,568 | 1,085 | 10.17 /each | 2,653 |
| | | S Stud 600 x 12' 20 ga | 18.00 each | 371 | 265 | 35.31 /each | 636 |
| 9252.30 | | <i>GWB Int Frame: Track</i> | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 576.00 lnft | 1,013 | 705 | 2.98 /lnft | 1,718 |
| | | Track: Standard 20 ga 6.00 " | 42.00 lnft | 155 | 61 | 5.15 /lnft | 216 |
| 9253.10 | | <i>GWB: Fasteners</i> | | | | | |
| | | Misc. Accessories | 1.00 lsum | 379 | 140 | 519.02 /lsum | 519 |
| 9253.30 | | <i>GWB: Boards & Sheathing</i> | | | | | |
| | | GWB 5/8" Walls | 3,228.00 sqft | 1,966 | 987 | 0.92 /sqft | 2,953 |
| | | GWB 5/8" Water Resistant Clgs | 566.00 sqft | 383 | 201 | 1.03 /sqft | 584 |
| 9254.00 | | <i>GWB: Finish Mud/Tape</i> | | | | | |
| | | Labor GWB Wall Finish | 2,682.00 sqft | 1,562 | 209 | 0.66 /sqft | 1,771 |
| | | Labor GWB Ceiling Finish | 566.00 sqft | 429 | 44 | 0.84 /sqft | 473 |
| 9310.01 | | <i>Ceramic Tile</i> | | | | | |
| | | Ceramic Tile Floor Grade 2 | 566.00 sqft | 3,548 | 2,366 | 10.45 /sqft | 5,914 |
| | | Ceramic Tile Wall Grade 2 | 336.00 sqft | 1,650 | 1,020 | 7.95 /sqft | 2,670 |
| | | Ceramic Trim: Cove Base | 56.00 lnft | 644 | 173 | 14.59 /lnft | 817 |
| 9510.10 | | <i>Ceiling: Susp. System</i> | | | | | |
| | | Susp Clg 1-1/2" Channel | 566.00 sqft | 1,275 | 459 | 3.06 /sqft | 1,734 |
| 9510.50 | | <i>Ceiling: 2x4 Tile</i> | | | | | |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | -566.00 sqft | (750) | (1,258) | 3.55 /sqft | (2,008) |
| 9660.01 | | <i>Flooring Resilient Tile</i> | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | -566.00 sqft | (379) | (545) | 1.63 /sqft | (923) |
| | | Floor Resil Base 4" | 462.00 lnft | 438 | 270 | 1.53 /lnft | 708 |
| 9920.01 | | <i>Painting: Interior</i> | | | | | |
| | | Paint Wd Door & Metal Frame | 3.00 each | 149 | 28 | 58.91 /each | 177 |
| | | Paint GDW Wall Roller p + 2ct | 2,682.00 sqft | 1,093 | 358 | 0.54 /sqft | 1,451 |
| | | Epoxy Paint GDW Clg | 566.00 sqft | 923 | 371 | 2.29 /sqft | 1,294 |
| | | Paint Exist Int CMU Spray 2 ct | -1,560.00 sqft | (454) | (243) | 0.45 /sqft | (697) |
| | | Epoxy Paint Int CMU | 224.00 sqft | 365 | 149 | 2.30 /sqft | 515 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|--------------------|----------|---|------------------|--------------|-----------------|-----------------|--------------|
| SPECIALTIES | | | | | | | |
| | 10160.01 | Toilet Partition Metal Urinal Screens Wall Hung | -8.00 each | (866) | (1,859) | 340.67 /each | (2,725) |
| Phase 4A | | | | | | | |
| DEMOLITION | | | | | | | |
| | 2071.01 | Demo: General General Disposal | 44.00 cuyd | 635 | - | 19.52 /cuyd | 859 |
| | | Shore - Screw Jack | 5.00 each | 3,663 | 242 | 822.83 /each | 4,114 |
| | 2076.00 | Demo: Masonry Cut Out Brick & Block | 372.00 sqft | 14,572 | - | 42.88 /sqft | 15,949 |
| | | Sawcut 16" CMU | 122.00 lnft | 24,052 | - | 225.86 /lnft | 27,555 |
| | | Remove Brick & Block Wall | 720.00 sqft | 4,767 | - | 7.25 /sqft | 5,217 |
| | | Remove CMU 8" | 120.00 sqft | 324 | - | 2.96 /sqft | 355 |
| | 2088.01 | Demo: Finishes, Floors Flash Patch @ Wall Removal | 10.00 sqft | 19 | 12 | 3.17 /sqft | 32 |
| SITWORK | | | | | | | |
| | 2220.15 | Earthwk: Dispose Surplus Dispose Surplus | 128.00 cuyd | 469 | - | 8.27 /cuyd | 1,056 |
| | 2220.20 | Earthwk: Footings (Hand) Excavate Footing By Hand | 6.20 cuyd | 507 | - | 81.80 /cuyd | 507 |
| | | Excavate Isolated Footing By Hand | 3.20 cuyd | 262 | - | 81.80 /cuyd | 262 |
| | | Excavate Engaged Footing By Hand | 3.20 cuyd | 262 | - | 81.80 /cuyd | 262 |
| | 2220.25 | Earthwk: Footings (Mach) Excavate Footing By Machine | 119.00 cuyd | 402 | - | 5.36 /cuyd | 638 |
| | | Excavate Isolated Footing Machine | 25.00 cuyd | 185 | - | 11.65 /cuyd | 291 |
| | | Excavate Engaged Footing By Machine | 17.00 cuyd | 92 | - | 8.57 /cuyd | 145 |
| | 2220.45 | Earthwk: Fine Grade Fine Grade SOG | 252.00 sqyd | 367 | - | 2.39 /sqyd | 603 |
| | 2220.50 | Backfill: Footing Backfill Footings-Exist | 98.00 cuyd | 158 | - | 2.97 /cuyd | 291 |
| | | Backfill Isol. Footings - Exist | 18.00 cuyd | 32 | - | 3.26 /cuyd | 59 |
| | 2220.62 | Backfill: Slab on Grade Gravel Fill 6" | 42.00 cuyd | 691 | 526 | 31.51 /cuyd | 1,324 |
| CONCRETE | | | | | | | |
| | 3111.00 | Forms: Footings Footing Forms 2 Use | 92.66 sqft | 427 | 176 | 6.51 /sqft | 603 |
| | | Footing Forms 2 Use radial | 204.66 sqft | 1,228 | 439 | 8.14 /sqft | 1,667 |
| | | Engaged Footing Forms 2 use | 177.24 sqft | 895 | 282 | 6.64 /sqft | 1,177 |
| | | Isolated Footing Forms 2 Use | 210.00 sqft | 1,140 | 344 | 7.07 /sqft | 1,484 |
| | | Keyway In Footing | 44.00 lnft | 177 | 49 | 5.14 /lnft | 226 |
| | | Keyway In Footing radial | 100.00 lnft | 403 | 116 | 5.18 /lnft | 518 |
| | 3114.00 | Forms: Walls Wall Forms | 352.00 sqft | 2,507 | 629 | 8.91 /sqft | 3,136 |
| | | Wall Forms radial | 800.00 sqft | 7,406 | 1,612 | 11.27 /sqft | 9,019 |
| | 3126.00 | Forms: Piers Pier Forms | 149.33 sqft | 1,489 | 238 | 11.56 /sqft | 1,727 |
| | 3127.00 | Forms: Edgeform Slabs EdgeForm (Any Depth, LF) | 227.00 lnft | 760 | 143 | 3.98 /lnft | 903 |
| | 3163.00 | Forms: Expand/Control Jts Premolded Exp Jt - 4" | 314.00 lnft | 360 | 352 | 2.27 /lnft | 712 |
| | 3206.00 | Rebar: Footings Footing Rebar #5 | 0.07 ton | 79 | 80 | 2,268.90 /ton | 159 |
| | | Footing Rebar #5 radial | 0.16 ton | 241 | 204 | 2,782.90 /ton | 445 |
| | | Isolated Footing Rebar #5 | 0.18 ton | 218 | 177 | 2,191.17 /ton | 394 |
| | | Engaged Footing Rebar #5 | 0.18 ton | 224 | 203 | 2,375.60 /ton | 428 |
| | 3209.00 | Rebar: Walls Wall Rebar #4 | 0.23 ton | 182 | 260 | 1,924.65 /ton | 443 |
| | | Wall Rebar #4 radial | 0.53 ton | 560 | 677 | 2,333.94 /ton | 1,237 |
| | 3211.00 | Rebar: Piers Pier Rebar #3 | 0.05 ton | 56 | 57 | 2,257.40 /ton | 113 |
| | | Pier Rebar #6 | 0.16 ton | 165 | 181 | 2,159.94 /ton | 346 |
| | 3226.00 | Rebar: Wiremesh @ S.O.G. Wiremesh - S.O.G. 6x6 6/6 | 22.68 sqs | 931 | 764 | 74.74 /sqs | 1,695 |
| | 3230.01 | Rebar: Mesh On Corruform Wiremesh-Corruform 6x6 6/6 | 37.10 sqs | 1,562 | 1,250 | 75.78 /sqs | 2,812 |
| | 3306.00 | Conc: Footings Footing Conc 3000 psi | 12.40 cuyd | 437 | 1,066 | 130.08 /cuyd | 1,613 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|--|------------------|--------------|-----------------|-----------------|--------------|
| 3306.00 | | <i>Conc: Footings</i> | | | | | |
| | | Engaged Footing Conc 3000 psi | 6.70 cuyd | 260 | 524 | 126.67 /cuyd | 849 |
| | | Isolated Footing Conc 3000 psi | 9.70 cuyd | 684 | 758 | 166.34 /cuyd | 1,614 |
| 3307.00 | | <i>Conc: Walls</i> | | | | | |
| | | Wall Conc 4000 psi | 28.40 cuyd | 1,173 | 2,532 | 140.80 /cuyd | 3,999 |
| 3309.00 | | <i>Conc: Piers</i> | | | | | |
| | | Pier Conc 4000 psi | 1.40 cuyd | 123 | 125 | 199.35 /cuyd | 279 |
| 3310.01 | | <i>Conc: Slabs On Grade</i> | | | | | |
| | | S.O.G. Conc 4000 psi | 28.00 cuyd | 791 | 2,615 | 128.72 /cuyd | 3,604 |
| 3319.00 | | <i>Conc: Slab On Corruform</i> | | | | | |
| | | Conc @ Curruform 4000 psi | 42.94 cuyd | 1,230 | 3,828 | 124.97 /cuyd | 5,366 |
| 3375.00 | | <i>Finish: Protect & Cure</i> | | | | | |
| | | Cure Conc w/burlap S.O.G. | 22.68 sqs | 360 | 192 | 24.33 /sqs | 552 |
| | | Cure Conc w/burlap Elv. Slab | 37.10 sqs | 708 | 299 | 27.15 /sqs | 1,007 |
| 3380.01 | | <i>Finish: General</i> | | | | | |
| | | Broom/Float Finish S.O.G. | 2,268.00 sqft | 1,418 | - | 0.63 /sqft | 1,418 |
| | | Broom/Float Finish Elv. Slab | 3,710.00 sqft | 2,741 | - | 0.74 /sqft | 2,741 |
| 3610.01 | | <i>Grout</i> | | | | | |
| | | Grout Base Pl Metallic 2" (sf) | 14.00 sqft | 255 | 357 | 43.71 /sqft | 612 |
| 3940.01 | | <i>Misc: Saw Concrete</i> | | | | | |
| | | Saw New Concrete | 181.00 lnft | 164 | 68 | 1.53 /lnft | 277 |
| | | MASONRY | | | | | |
| 4050.15 | | <i>Misc: Material Handling</i> | | | | | |
| | | Concrete Block | 3.00 m | - | - | 198.40 /m | 595 |
| 4105.00 | | <i>Mortar: All Types</i> | | | | | |
| | | Mortar Type "N" | 6.89 cuyd | - | 910 | 132.11 /cuyd | 910 |
| 4110.01 | | <i>Mortar: Grout Fill Conc</i> | | | | | |
| | | Grout Single Door Frame | 2.00 each | 72 | 22 | 49.48 /each | 99 |
| | | Grout Double Door Frame | 1.00 each | 48 | 15 | 66.86 /each | 67 |
| 4156.00 | | <i>Access: Wall Flashing</i> | | | | | |
| | | Flash Head Lead Ct. Cop 5 oz. | -207.00 sqft | (557) | (613) | 5.65 /sqft | (1,169) |
| | | Flash Sill Lead Ct. Cop 5 oz. | -207.00 sqft | (501) | (575) | 5.20 /sqft | (1,076) |
| 4158.00 | | <i>Reinforce: Horizontl Wall</i> | | | | | |
| | | Horiz Wall Reinf 8" Hot Dippd | 1.57 mlf | 519 | 243 | 485.29 /mlf | 762 |
| 4220.00 | | <i>Conc. Block: Backup</i> | | | | | |
| | | Blk 8" Stand Face Reg Wt - Infill | 2,480.00 each | 24,624 | 3,822 | 11.47 /each | 28,447 |
| 4710.10 | | <i>Cleaning: Masonry</i> | | | | | |
| | | Clean Exist Brick Smooth | -29.34 sqs | (3,760) | (463) | 143.96 /sqs | (4,224) |
| | | METALS | | | | | |
| 5055.00 | | <i>Fastener: Col Anchor Bolt</i> | | | | | |
| | | 3/4" d. 12" long | 56.00 each | 1,205 | 108 | 23.45 /each | 1,313 |
| 5110.01 | | <i>Structural: Framing</i> | | | | | |
| | | Floor Structure Cols & Beams | 3,710.00 sqft | 5,194 | 30,075 | 10.13 /sqft | 37,583 |
| | | Roof Framing Beams & Cols | 4,897.00 sqft | 6,170 | 37,138 | 9.37 /sqft | 45,873 |
| 5210.01 | | <i>Structural: Joist K</i> | | | | | |
| | | Floor Structure Steel Joist | 3,710.00 sqft | 2,226 | 6,848 | 2.60 /sqft | 9,652 |
| | | Roof Framing Steel Joists | 4,897.00 sqft | 2,204 | 5,554 | 1.75 /sqft | 8,575 |
| 5312.10 | | <i>Structural: Deck Roof/FI</i> | | | | | |
| | | Slab Form 1-1/2" 20 ga Galv | 3,710.00 sqft | 2,178 | 8,457 | 2.89 /sqft | 10,713 |
| | | Deck Steel 1 1/2" Deep 20 ga 50-500 sq | 3,329.00 sqft | 2,234 | 3,998 | 1.89 /sqft | 6,302 |
| 5510.05 | | <i>Misc: Lintels</i> | | | | | |
| | | Stl Angles > 4000 lbs | -2,083.00 lb | (2,369) | (1,625) | 1.92 /lb | (3,994) |
| 5510.15 | | <i>Misc: Embed Material</i> | | | | | |
| | | Bearing Plates | 14.00 each | 210 | 393 | 43.07 /each | 603 |
| 5510.80 | | <i>Stairs: Stair Parts</i> | | | | | |
| | | Stair Railing Steel 1-1/2" 6 pipe | 108.00 lnft | 4,560 | 6,491 | 103.68 /lnft | 11,198 |
| | | WOOD & PLASTICS | | | | | |
| 6015.00 | | <i>Fasteners: Frame Anchors</i> | | | | | |
| | | Fastners & Misc | -1.00 lsum | - | (32) | 32.25 /lsum | (32) |
| 6113.20 | | <i>Blocking: Misc.</i> | | | | | |
| | | Blocking 2 x 4 R.L. | 6.00 lnft | 12 | 3 | 2.50 /lnft | 15 |
| | | Blocking 2 x 6 R.L. | 2.00 lnft | 5 | 2 | 3.27 /lnft | 7 |
| 6113.40 | | <i>Blocking: Rough Bucks</i> | | | | | |
| | | Rough Bucks 2 x 6 Doors | 85.00 lnft | 155 | 64 | 2.58 /lnft | 219 |
| | | Rough Bucks 2 x 6 PT Doors | 60.00 lnft | 110 | 66 | 2.93 /lnft | 176 |
| | | Rough Bucks 2 x 6 PT Windows | -1,326.00 lnft | (3,679) | (1,457) | 3.87 /lnft | (5,135) |
| 6413.00 | | <i>I Trim: Dr & Window Matr</i> | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|--|------------------|--------------|-----------------|-----------------|--------------|
| 6413.00 | | <i>I Trim: Dr & Window Matr</i> | | | | | |
| | | Window Stools (Wood) | -176.00 Inft | (856) | (1,550) | 13.67 /Inft | (2,406) |
| | | Apron At Stools | -176.00 Inft | (422) | (335) | 4.30 /Inft | (757) |
| | | THERMAL & MOISTURE PROT | | | | | |
| 7186.00 | | <i>Damproofing: Bituminous</i> | | | | | |
| | | Ashphalt Ct. Sprayed 2 cts. | 2,204.00 sqft | 3,253 | 505 | 1.71 /sqft | 3,758 |
| | | Ashphalt Ct. Troweled 1/8" | 576.00 sqft | 891 | 270 | 2.02 /sqft | 1,161 |
| 7192.00 | | <i>Damproofing: VaprBarrier</i> | | | | | |
| | | Poly Vapor Barrier 6 mil | 22.68 sqs | 524 | 92 | 27.14 /sqs | 616 |
| 7211.20 | | <i>Insulation: Sound Blankt</i> | | | | | |
| | | Sound Blanket 16" x 3- 5/8" | 1,287.00 sqft | 850 | 1,091 | 1.51 /sqft | 1,941 |
| 7211.80 | | <i>Insulation: Perimeter</i> | | | | | |
| | | Insul Board Polystyrene 2" | 176.00 sqft | 151 | 76 | 1.29 /sqft | 227 |
| | | Insul Board Polystyrene 2" radial | 400.00 sqft | 449 | 173 | 1.56 /sqft | 622 |
| | | Insul Board Polystyrene 2" Slab | 2,268.00 sqft | 1,797 | 984 | 1.23 /sqft | 2,780 |
| 7212.00 | | <i>Insulation: Board</i> | | | | | |
| | | Extruded Polystyrene 2.0" | 2,204.00 sqft | 1,746 | 2,020 | 1.71 /sqft | 3,766 |
| 7217.00 | | <i>Insulation: Protection Bd</i> | | | | | |
| | | Hardbd Protection Bd 1/4" | 2,368.00 sqft | 1,273 | 761 | 0.86 /sqft | 2,034 |
| 7222.10 | | <i>Insulation: Roof 1st Lay</i> | | | | | |
| | | Poly Iso 3.5" Layer 1 | 23.68 sqs | 1,361 | 2,419 | 159.62 /sqs | 3,780 |
| 7222.20 | | <i>Insulation: Roof 2nd Lay</i> | | | | | |
| | | Perlite Tapered | 3.55 sq | 252 | 267 | 146.18 /sq | 519 |
| 7270.00 | | <i>Firestopping</i> | | | | | |
| | | Firesafing | 116.00 Inft | 153 | 81 | 2.02 /Inft | 234 |
| 7531.00 | | <i>Membrane: EPDM</i> | | | | | |
| | | Roof Elastic Sheet EPDM 60 mil Full Ad | 2,368.00 sqft | 2,977 | 1,193 | 1.84 /sqft | 4,358 |
| 7620.01 | | <i>Sheetmetal: Flashing</i> | | | | | |
| | | Flash Skylights | 202.00 Inft | 1,032 | 294 | 6.57 /Inft | 1,326 |
| 7620.30 | | <i>Sheetmetal: Fascia</i> | | | | | |
| | | Exterior Edge | 144.00 Inft | 2,786 | 3,379 | 42.81 /Inft | 6,165 |
| 7630.05 | | <i>Sheetmetal: Exp Joints</i> | | | | | |
| | | Interior Edge | 322.00 Inft | 4,073 | 7,663 | 36.45 /Inft | 11,736 |
| 7630.10 | | <i>Sheetmetal: Vents/Accsry</i> | | | | | |
| | | Misc Accessories | 2,368.00 sqft | 1,208 | 2,291 | 1.48 /sqft | 3,499 |
| 7810.00 | | <i>Plastic Skylights</i> | | | | | |
| | | Skylight Curb Pre Fab | 202.00 Inft | 1,092 | 2,235 | 16.47 /Inft | 3,327 |
| 7820.00 | | <i>Metal Framed Skylights</i> | | | | | |
| | | Lean to Skyroof Double Med Span | 1,568.00 sqft | 27,129 | 69,483 | 61.62 /sqft | 96,612 |
| 7910.01 | | <i>Sealant - Jt Filler Gaskt</i> | | | | | |
| | | Backer Rod 1/2" | -1,266.00 Inft | (2,215) | (58) | 1.80 /Inft | (2,273) |
| | | Polysulfide Sealant 1/4" Interior | 119.00 Inft | 635 | 22 | 5.52 /Inft | 657 |
| | | Polyurethane Sealant 1/2" | -2,532.00 Inft | (13,734) | (986) | 5.81 /Inft | (14,720) |
| | | DOORS & WINDOWS | | | | | |
| 8110.01 | | <i>Doors: Steel with Frames</i> | | | | | |
| | | H.M. Frame 16ga Galv Double | 1.00 each | 90 | 168 | 258.10 /each | 258 |
| | | H.M. Frame 18ga Interior Single | 7.00 each | 505 | 833 | 191.18 /each | 1,338 |
| | | H.M. Door Ins 16ga Galv 3-0 x 7-0 Vision | 2.00 each | 145 | 781 | 462.85 /each | 926 |
| 8210.01 | | <i>Doors: Wood</i> | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 7.00 each | 665 | 2,211 | 410.87 /each | 2,876 |
| 8340.01 | | <i>Doors: Coiling Grilles</i> | | | | | |
| | | Door Coiling Grille Stainless | 288.00 sqft | 6,631 | 15,580 | 77.12 /sqft | 22,212 |
| 8410.00 | | <i>Aluminum Doors & Frames</i> | | | | | |
| | | Alum Frame 6' x 7' Bronze Fin | 2.00 each | 435 | 852 | 643.31 /each | 1,287 |
| | | Alum Door Med 3'-0 x 7'-0 Full Gl | 4.00 each | 799 | 3,790 | 1,147.23 /each | 4,589 |
| 8520.01 | | <i>Window: Aluminm</i> | | | | | |
| | | Custom Proj 4" .125 w Ins Gl Kynar | -1,584.00 sqft | (13,049) | (66,845) | 50.44 /sqft | (79,894) |
| 8710.01 | | <i>Hardware: Finishing</i> | | | | | |
| | | Finishing Hardware Ext Budget | 6.00 each | 990 | 6,585 | 1,262.60 /each | 7,576 |
| | | Finishing Hardware Int Budget w Closure | 7.00 each | 693 | 3,557 | 607.22 /each | 4,251 |
| 8920.01 | | <i>Alum Window Walls</i> | | | | | |
| | | Curtn Wall Mon Ins Gl Bronz | 396.00 sqft | 4,030 | 34,700 | 97.80 /sqft | 38,729 |
| | | Curtn Wall Mon Ins Gl Bronz radial | 900.00 sqft | 11,000 | 68,405 | 88.23 /sqft | 79,405 |
| | | Curtn Wall Avg Ins Gl Bronz | -620.00 sqft | (5,909) | (41,711) | 76.81 /sqft | (47,620) |
| | | Curtain Wall Mon w Metal Panel | 264.00 sqft | 2,217 | 17,453 | 74.51 /sqft | 19,670 |
| | | Curtain Wall Mon w Metal Panel radial | 300.00 sqft | 2,891 | 17,164 | 66.85 /sqft | 20,055 |
| | | FINISHES | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|-----------------|-------|---------------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 9210.01 | | Lath/Plastr. Gyp Plaster | | | | | |
| | | Plaster Patch @ Wall Removal | 24.00 sqft | 273 | 26 | 12.65 /sqft | 304 |
| | | Plaster Patch Ceiling @ Wall Removal | 10.00 sqft | 37 | 10 | 4.76 /sqft | 48 |
| 9252.10 | | GWB Int Frame: S Studs | | | | | |
| | | S Soffit Stud 358 20 ga | 508.00 lnft | 1,811 | 578 | 4.70 /lnft | 2,389 |
| | | S Stud 358 x 12' 20 ga | 93.00 each | 1,737 | 1,160 | 31.15 /each | 2,896 |
| 9252.16 | | GWB Int Frame: Furring | | | | | |
| | | FurrDwn Track 1-5/8 20g | 852.00 lnft | 1,441 | 834 | 2.67 /lnft | 2,275 |
| | | FurrDwn Stud 1-5/8 20g | 4,212.00 lnft | 5,985 | 3,049 | 2.15 /lnft | 9,034 |
| 9252.30 | | GWB Int Frame: Track | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 232.00 lnft | 408 | 284 | 2.98 /lnft | 692 |
| | | Track: Soffit 20 ga 3-5/8" | 676.00 lnft | 2,767 | 902 | 5.43 /lnft | 3,669 |
| 9253.10 | | GWB: Fasteners | | | | | |
| | | Misc. Accessories | 1.00 lsum | 1,056 | 391 | 1,446.95 /lsum | 1,447 |
| 9253.30 | | GWB: Boards & Sheathing | | | | | |
| | | GWB 5/8" Walls | 11,790.00 sqft | 7,180 | 3,605 | 0.92 /sqft | 10,785 |
| | | GWB 5/8" Soffit | 676.00 sqft | 1,235 | 235 | 2.17 /sqft | 1,470 |
| 9254.00 | | GWB: Finish Mud/Tape | | | | | |
| | | Labor GWB Wall Finish | 5,866.00 sqft | 3,416 | 457 | 0.66 /sqft | 3,873 |
| | | Labor GWB Soffit Finish | 676.00 sqft | 551 | 58 | 0.90 /sqft | 609 |
| 9510.50 | | Ceiling: 2x4 Tile | | | | | |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | 4,072.00 sqft | 5,396 | 9,048 | 3.55 /sqft | 14,444 |
| 9660.01 | | Flooring Resilient Tile | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | 2,041.00 sqft | 1,366 | 1,964 | 1.63 /sqft | 3,330 |
| | | Floor Resil Base 4" | 820.00 lnft | 778 | 479 | 1.53 /lnft | 1,256 |
| 9685.00 | | Flooring Carpet | | | | | |
| | | Carpet Commercial 32oz | 443.00 sqyd | 3,459 | 10,729 | 32.03 /sqyd | 14,188 |
| 9910.01 | | Painting: Exterior | | | | | |
| | | Paint Ext Door & Frame | 2.00 each | 109 | 22 | 65.52 /each | 131 |
| 9920.01 | | Painting: Interior | | | | | |
| | | Paint Wd Door & Metal Frame | 7.00 each | 348 | 65 | 58.91 /each | 412 |
| | | Paint Wood Sill | -176.00 lnft | (420) | (12) | 2.45 /lnft | (432) |
| | | Paint Wood Apron | -176.00 lnft | (369) | (12) | 2.16 /lnft | (381) |
| | | Paint Int Pipe Rails | 648.00 lnft | 604 | 123 | 1.12 /lnft | 726 |
| | | Paint GDW Wall Roller p + 2ct | 5,866.00 sqft | 2,391 | 783 | 0.54 /sqft | 3,174 |
| | | Paint GDW Soffit Roller p+2ct | 676.00 sqft | 472 | 90 | 0.83 /sqft | 563 |
| | | Paint Exist Int CMU Spray 2 ct | -200.00 sqft | (58) | (31) | 0.45 /sqft | (89) |
| | | SPECIALTIES | | | | | |
| 10430.01 | | Signs | | | | | |
| | | Interior Stock | 6.00 each | 63 | 38 | 16.85 /each | 101 |
| | | Interior Custom | 2.00 each | 63 | 89 | 76.06 /each | 152 |
| 10535.00 | | Canopies | | | | | |
| | | Walkway Canopie Monumental | 1,852.00 sqft | 14,916 | 52,412 | 37.36 /sqft | 69,194 |
| Phase 4B | | | | | | | |
| | | DEMOLITION | | | | | |
| 2071.01 | | Demo: General | | | | | |
| | | General Disposal | 118.00 cuyd | 1,704 | - | 19.52 /cuyd | 2,304 |
| | | Shore - Screw Jack | 10.00 each | 7,326 | 484 | 822.83 /each | 8,228 |
| 2075.00 | | Demo: Concrete | | | | | |
| | | Saw Concrete Slab to 6" | 264.00 lnft | 1,044 | - | 5.01 /lnft | 1,324 |
| | | Remove Slab on Grade | 296.00 sqft | 1,388 | - | 5.13 /sqft | 1,517 |
| 2076.00 | | Demo: Masonry | | | | | |
| | | Cut Out Opng 8" CMU | 294.00 sqft | 6,002 | - | 22.34 /sqft | 6,569 |
| | | Sawcut 8" CMU | 182.00 lnft | 17,902 | - | 112.68 /lnft | 20,508 |
| | | Remove CMU 8" | 3,960.00 sqft | 10,706 | - | 2.96 /sqft | 11,718 |
| 2077.00 | | Demo: Steel | | | | | |
| | | Remove Metal Stair 4' | 40.00 risr | 2,997 | - | 91.69 /risr | 3,668 |
| 2080.05 | | Demo: Roofing | | | | | |
| | | Cut Out Opening over 5 sf | 300.00 sqft | 3,079 | - | 10.26 /sqft | 3,079 |
| 2084.01 | | Demo: Doors & Windows | | | | | |
| | | Remove Door | -6.00 each | (131) | - | 21.81 /each | (131) |
| 2088.01 | | Demo: Finishes, Floors | | | | | |
| | | Flash Patch @ Wall Removal | 330.00 sqft | 638 | 407 | 3.17 /sqft | 1,045 |
| | | CONCRETE | | | | | |
| 3230.01 | | Rebar: Mesh On Corruform | | | | | |
| | | Wiremesh-Corruform 6x6 6/6 | 26.72 sqs | 1,125 | 900 | 75.78 /sqs | 2,025 |
| 3310.01 | | Conc: Slabs On Grade | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|--------------------------------------|------------------|--------------|-----------------|-----------------|--------------|
| 3310.01 | | Conc: Slabs On Grade | | | | | |
| | | Patch Conc. Slab Trench etc. | 264.00 sqft | 1,200 | 1,894 | 11.72 /sqft | 3,094 |
| 3316.00 | | Conc: Fill Pan Stairs | | | | | |
| | | Fill Pan Stairs 3000 psi | 1.19 cuyd | 51 | 98 | 124.74 /cuyd | 149 |
| 3319.00 | | Conc: Slab On Corruform | | | | | |
| | | Conc @ Curruform 4000 psi | 30.93 cuyd | 886 | 2,757 | 124.97 /cuyd | 3,865 |
| 3375.00 | | Finish: Protect & Cure | | | | | |
| | | Cure Conc w/burlap Elv. Slab | 26.72 sqs | 510 | 215 | 27.15 /sqs | 725 |
| 3380.01 | | Finish: General | | | | | |
| | | Broom/Float Finish Elv. Slab | 2,672.00 sqft | 1,974 | - | 0.74 /sqft | 1,974 |
| | | MASONRY | | | | | |
| 4050.10 | | Misc: Scaffold | | | | | |
| | | Interior Scaffold | 3,672.00 sqft | 2,711 | 1,102 | 1.21 /sqft | 4,440 |
| 4050.15 | | Misc: Material Handling | | | | | |
| | | Concrete Block | 5.00 m | - | - | 198.40 /m | 992 |
| 4105.00 | | Mortar: All Types | | | | | |
| | | Mortar Type "N" | 11.59 cuyd | - | 1,531 | 132.11 /cuyd | 1,531 |
| 4110.01 | | Mortar: Grout Fill Conc | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | 4.81 cuyd | 765 | 509 | 276.93 /cuyd | 1,332 |
| | | Grout Single Door Frame | 7.00 each | 252 | 76 | 49.48 /each | 346 |
| | | Grout Double Door Frame | 8.00 each | 386 | 120 | 66.87 /each | 535 |
| 4157.00 | | Reinforce: Vertical Wall | | | | | |
| | | Re-Bar #5 & #6 | 638.32 lbs | 670 | 334 | 1.57 /lbs | 1,004 |
| 4158.00 | | Reinforce: Horizontal Wall | | | | | |
| | | Horiz Wall Reinf 8" Hot Dipd | 2.64 mlf | 872 | 409 | 485.25 /mlf | 1,281 |
| 4221.15 | | Conc. Block: 8" | | | | | |
| | | Blk 8" Standard Face Reg Wt | 3,638.00 each | 26,397 | 6,101 | 8.93 /each | 32,498 |
| | | Blk 8" Standard Face Reg Wt - Infill | 284.00 each | 3,015 | 495 | 12.36 /each | 3,510 |
| 4221.45 | | Conc. Block: 8" Lintel | | | | | |
| | | Lintel 8" Stand Face Reg Wt | 251.00 each | 2,757 | 1,216 | 16.68 /each | 4,186 |
| | | METALS | | | | | |
| 5110.01 | | Structural: Framing | | | | | |
| | | Floor Structure Cols & Beams | 2,672.00 sqft | 3,741 | 21,661 | 10.13 /sqft | 27,068 |
| 5210.01 | | Structural: Joist K | | | | | |
| | | Floor Structure Steel Joist | 2,672.00 sqft | 1,603 | 4,932 | 2.60 /sqft | 6,951 |
| 5312.10 | | Structural: Deck Roof/FI | | | | | |
| | | Slab Form 1-1/2" 20 ga Galv | 2,672.00 sqft | 1,569 | 6,091 | 2.89 /sqft | 7,716 |
| 5510.35 | | Misc: Bolt On Material | | | | | |
| | | Angle Bolted To Masonry | 1,101.00 lb | 2,771 | 1,901 | 4.33 /lb | 4,764 |
| 5510.80 | | Stairs: Stair Parts | | | | | |
| | | Custom Steel Stairs 6'-0" | 22.00 risr | 2,960 | 11,278 | 651.50 /risr | 14,333 |
| | | Stair Railing Steel 1-1/2" 6 pipe | 20.00 lnft | 844 | 1,202 | 103.68 /lnft | 2,074 |
| | | Landing Steel Pan | 60.00 sqft | 1,159 | 2,969 | 69.43 /sqft | 4,166 |
| | | WOOD & PLASTICS | | | | | |
| 6015.00 | | Fasteners: Frame Anchors | | | | | |
| | | Fastners & Misc | 1.00 lsum | - | 4 | 4.45 /lsum | 4 |
| 6113.20 | | Blocking: Misc. | | | | | |
| | | Block Toilet Partition | 3.00 each | 66 | 38 | 34.72 /each | 104 |
| | | Block Misc Toilet Accessories | 23.00 each | 304 | 123 | 18.54 /each | 426 |
| | | Blocking 2 x 4 R.L. | -11.00 lnft | (23) | (5) | 2.50 /lnft | (27) |
| | | Blocking 2 x 6 R.L. | 38.00 lnft | 95 | 29 | 3.26 /lnft | 124 |
| 6113.40 | | Blocking: Rough Bucks | | | | | |
| | | Rough Bucks 2 x 6 Doors | 324.00 lnft | 592 | 245 | 2.58 /lnft | 836 |
| | | THERMAL & MOISTURE PROT | | | | | |
| 7211.20 | | Insulation: Sound Blankt | | | | | |
| | | Sound Blanket 16" x 3- 5/8" | 858.00 sqft | 566 | 727 | 1.51 /sqft | 1,294 |
| | | Sound Blanket 16" x 6.00 " | 5,091.00 sqft | 3,361 | 5,539 | 1.75 /sqft | 8,901 |
| 7270.00 | | Firestopping | | | | | |
| | | Firesafing | 522.00 lnft | 689 | 364 | 2.02 /lnft | 1,053 |
| 7620.01 | | Sheetmetal: Flashing | | | | | |
| | | Flash Skylights | 120.00 lnft | 613 | 175 | 6.57 /lnft | 788 |
| 7810.00 | | Plastic Skylights | | | | | |
| | | Skylight Curb Pre Fab | 120.00 lnft | 649 | 1,328 | 16.47 /lnft | 1,977 |
| 7820.00 | | Metal Framed Skylights | | | | | |
| | | Lean to Skyroof Double Med Span | 300.00 sqft | 5,190 | 13,294 | 61.62 /sqft | 18,484 |
| 7910.01 | | Sealant - Jt Filler Gaskt | | | | | |
| | | Polysulfide Sealant 1/4" Interior | 506.00 lnft | 2,700 | 93 | 5.52 /lnft | 2,793 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|---|------------------|--------------|-----------------|-----------------|--------------|
| | | DOORS & WINDOWS | | | | | |
| 8110.01 | | Doors: Steel with Frames | | | | | |
| | | H.M. Frame 18ga Interior Single | 24.00 each | 1,733 | 2,856 | 191.18 /each | 4,588 |
| | | H.M. Frame 18ga Interior Double | 10.00 each | 902 | 1,646 | 254.77 /each | 2,548 |
| 8210.01 | | Doors: Wood | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | 35.00 each | 3,327 | 11,053 | 410.87 /each | 14,381 |
| 8710.01 | | Hardware: Finishing | | | | | |
| | | Finishing Hardware Int Budget w Closure | 35.00 each | 3,466 | 17,786 | 607.22 /each | 21,253 |
| | | FINISHES | | | | | |
| 9210.01 | | Lath/Plastr: Gyp Plaster | | | | | |
| | | Plaster Patch @ Wall Removal | 588.00 sqft | 6,690 | 634 | 12.65 /sqft | 7,438 |
| | | Plaster Patch Ceiling @ Wall Removal | 330.00 sqft | 1,227 | 323 | 4.76 /sqft | 1,571 |
| 9252.10 | | GWB Int Frame: S Studs | | | | | |
| | | S Stud 358 x 12' 20 ga | 69.00 each | 1,289 | 860 | 31.15 /each | 2,149 |
| | | S Stud 600 x 12' 20 ga | 340.00 each | 7,004 | 5,002 | 35.31 /each | 12,006 |
| 9252.30 | | GWB Int Frame: Track | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 164.00 lnft | 289 | 201 | 2.98 /lnft | 489 |
| | | Track: Standard 20 ga 6.00 " | 880.00 lnft | 3,254 | 1,281 | 5.15 /lnft | 4,534 |
| 9253.10 | | GWB: Fasteners | | | | | |
| | | Misc. Accessories | 1.00 lsum | 1,610 | 596 | 2,206.39 /lsum | 2,206 |
| 9253.30 | | GWB: Boards & Sheathing | | | | | |
| | | GWB 5/8" Walls | 24,048.00 sqft | 14,644 | 7,354 | 0.92 /sqft | 21,998 |
| | | GWB 5/8" Clgs | 512.00 sqft | 346 | 157 | 0.98 /sqft | 503 |
| 9254.00 | | GWB: Finish Mud/Tape | | | | | |
| | | Labor GWB Wall Finish | 9,810.00 sqft | 5,713 | 764 | 0.66 /sqft | 6,477 |
| | | Labor GWB Ceiling Finish | 512.00 sqft | 388 | 40 | 0.84 /sqft | 427 |
| 9310.01 | | Ceramic Tile | | | | | |
| | | Ceramic Tile Floor Grade 2 | 512.00 sqft | 3,209 | 2,140 | 10.45 /sqft | 5,350 |
| | | Ceramic Tile Wall Grade 2 | 720.00 sqft | 3,536 | 2,185 | 7.95 /sqft | 5,721 |
| | | Ceramic Trim: Cove Base | 120.00 lnft | 1,380 | 371 | 14.59 /lnft | 1,751 |
| 9510.10 | | Ceiling: Susp. System | | | | | |
| | | Susp Clg 1-1/2" Channel | 512.00 sqft | 1,153 | 416 | 3.06 /sqft | 1,569 |
| 9510.50 | | Ceiling: 2x4 Tile | | | | | |
| | | MinFbr Tegulr Std 2x4 3/4" 250-500 sf | -512.00 sqft | (678) | (1,138) | 3.55 /sqft | (1,816) |
| 9537.00 | | Stone Flooring | | | | | |
| | | Bluestone Paver 1" | 1,632.00 sqft | 24,843 | 13,085 | 23.24 /sqft | 37,928 |
| 9660.01 | | Flooring Resilient Tile | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | -1,302.00 sqft | (871) | (1,253) | 1.63 /sqft | (2,124) |
| | | Floor Resil Base 4" | 1,072.00 lnft | 1,016 | 626 | 1.53 /lnft | 1,643 |
| | | Radial Rubber Floor 3/16" | -4.00 sqft | (3) | (18) | 5.34 /sqft | (21) |
| | | Floor Resil Tile Safety Tread | -24.00 lnft | (66) | (153) | 9.09 /lnft | (218) |
| | | Floor Resil Rubber Riser | -28.00 lnft | (34) | (73) | 3.84 /lnft | (108) |
| 9685.00 | | Flooring Carpet | | | | | |
| | | Carpet Commercial 32oz | 203.34 sqyd | 1,588 | 4,925 | 32.03 /sqyd | 6,513 |
| 9920.01 | | Painting: Interior | | | | | |
| | | Paint Wd Door & Metal Frame | 35.00 each | 1,739 | 323 | 58.91 /each | 2,062 |
| | | Paint Int Pipe Rails | 120.00 lnft | 112 | 23 | 1.12 /lnft | 135 |
| | | Paint GDW Wall Roller p + 2ct | 9,810.00 sqft | 3,999 | 1,309 | 0.54 /sqft | 5,308 |
| | | Epoxy Paint GDW Clg | 512.00 sqft | 835 | 336 | 2.29 /sqft | 1,171 |
| | | Paint Int CMU Spray p+2ct | 4,504.00 sqft | 2,885 | 1,002 | 0.86 /sqft | 3,887 |
| | | Paint Exist Int CMU Spray 2 ct | -6,184.00 sqft | (1,801) | (963) | 0.45 /sqft | (2,763) |
| | | Epoxy Paint Int CMU | 512.00 sqft | 835 | 342 | 2.30 /sqft | 1,177 |
| | | Epoxy Paint Exist Int CMU | -32.00 sqft | (34) | (15) | 1.50 /sqft | (48) |
| | | SPECIALTIES | | | | | |
| 10160.01 | | Toilet Partition Metal | | | | | |
| | | Urinal Screens Wall Hung | -1.00 each | (108) | (232) | 340.67 /each | (341) |
| 10160.02 | | Toilet Partition Phenolic | | | | | |
| | | Toilet Partition Reg Fir Mtd | 4.00 each | 619 | 3,883 | 1,125.45 /each | 4,502 |
| 10430.01 | | Signs | | | | | |
| | | Interior Stock | -11.00 each | (116) | (69) | 16.85 /each | (185) |
| 10800.01 | | Toilet Accessories | | | | | |
| | | Clothes Hook Single | 4.00 each | 59 | 45 | 26.00 /each | 104 |
| | | Soap Dispenser | 6.00 each | 317 | 834 | 191.82 /each | 1,151 |
| | | Stainless Steel Shelf | 9.00 lnft | 108 | 230 | 37.59 /lnft | 338 |
| | | Toilet Tissue Disp Dbl | 4.00 each | 88 | 71 | 39.72 /each | 159 |
| | | FURNISHINGS | | | | | |
| 12620.00 | | Furniture | | | | | |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|-----------------|----------|---|------------------|--------------|-----------------|-----------------|--------------|
| | 12620.00 | <i>Furniture</i> | | | | | |
| | | Library Charge Desk | 38.00 Inft | 2,868 | 16,015 | 496.91 /Inft | 18,883 |
| Phase 5A | | | | | | | |
| | | CONCRETE | | | | | |
| | 3131.00 | <i>Forms: Ramps</i> | | | | | |
| | | Ramp Forms 2 use | 108.00 Inft | 614 | 168 | 7.24 /Inft | 782 |
| | 3225.00 | <i>Rebar: WWM @ Ramp/Misc</i> | | | | | |
| | | Wiremesh - Ramp 6x6 6/6 | 2.20 sqs | 99 | 74 | 78.83 /sqs | 173 |
| | 3309.50 | <i>Conc: Ramps</i> | | | | | |
| | | Ramp Conc 4000 psi | 4.07 cuyd | 131 | 380 | 133.51 /cuyd | 543 |
| | 3375.00 | <i>Finish: Protect & Cure</i> | | | | | |
| | | Cure Conc w/burlap Ramp | 2.20 sqs | 38 | 18 | 25.51 /sqs | 56 |
| | 3380.01 | <i>Finish: General</i> | | | | | |
| | | Broom/Float Finish Ramp | 220.00 sqft | 163 | - | 0.74 /sqft | 163 |
| | | MASONRY | | | | | |
| | 4050.15 | <i>Misc: Material Handling</i> | | | | | |
| | | Concrete Block | 1.00 m | - | - | 198.40 /m | 198 |
| | 4105.00 | <i>Mortar: All Types</i> | | | | | |
| | | Mortar Type "N" | 0.13 cuyd | - | 17 | 132.08 /cuyd | 17 |
| | 4158.00 | <i>Reinforce: Horizontal Wall</i> | | | | | |
| | | Horiz Wall Reinf 8" Hot Dipdd | 0.03 mlf | 10 | 5 | 487.67 /mlf | 15 |
| | 4221.15 | <i>Conc. Block: 8"</i> | | | | | |
| | | Blk 8" Standard Face Reg Wt - Infill | 48.00 each | 510 | 84 | 12.36 /each | 593 |
| | | METALS | | | | | |
| | 5510.80 | <i>Stairs: Stair Parts</i> | | | | | |
| | | Stair Railing Steel 1-1/2" 6 pipe | 44.00 Inft | 1,858 | 2,645 | 103.68 /Inft | 4,562 |
| | | Wall Railing Steel 1-1/2" 2 Pipe | 44.00 Inft | 1,129 | 1,025 | 49.78 /Inft | 2,190 |
| | | THERMAL & MOISTURE PROT | | | | | |
| | 7211.20 | <i>Insulation: Sound Blankt</i> | | | | | |
| | | Sound Blanket 16" x 3- 5/8" | 384.00 sqft | 254 | 325 | 1.51 /sqft | 579 |
| | 7270.00 | <i>Firestopping</i> | | | | | |
| | | Firesafing | 32.00 Inft | 42 | 22 | 2.02 /Inft | 65 |
| | | DOORS & WINDOWS | | | | | |
| | 8210.01 | <i>Doors: Wood</i> | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | -2.00 each | (190) | (632) | 410.88 /each | (822) |
| | 8710.01 | <i>Hardware: Finishing</i> | | | | | |
| | | Finishing Hardware Int Budget w Closure | -2.00 each | (198) | (1,016) | 607.21 /each | (1,214) |
| | | FINISHES | | | | | |
| | 9252.10 | <i>GWB Int Frame: S Studs</i> | | | | | |
| | | S Stud 358 x 12' 20 ga | 25.00 each | 467 | 312 | 31.15 /each | 779 |
| | 9252.30 | <i>GWB Int Frame: Track</i> | | | | | |
| | | Track: Standard 20 ga 3-5/8" | 64.00 Inft | 113 | 78 | 2.98 /Inft | 191 |
| | 9253.10 | <i>GWB: Fasteners</i> | | | | | |
| | | Misc. Accessories | 1.00 lsum | 88 | 32 | 120.21 /lsum | 120 |
| | 9253.30 | <i>GWB: Boards & Sheathing</i> | | | | | |
| | | GWB 5/8" Walls | 1,536.00 sqft | 935 | 470 | 0.92 /sqft | 1,405 |
| | 9254.00 | <i>GWB: Finish Mud/Tape</i> | | | | | |
| | | Labor GWB Wall Finish | 640.00 sqft | 373 | 50 | 0.66 /sqft | 423 |
| | 9660.01 | <i>Flooring Resilient Tile</i> | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | -220.00 sqft | (147) | (212) | 1.63 /sqft | (359) |
| | | Floor Resil Base 4" | 64.00 Inft | 61 | 37 | 1.53 /Inft | 98 |
| | | Radial Rubber Floor 3/16" | 220.00 sqft | 172 | 1,003 | 5.34 /sqft | 1,175 |
| | 9920.01 | <i>Painting: Interior</i> | | | | | |
| | | Paint Wd Door & Metal Frame | -2.00 each | (99) | (18) | 58.91 /each | (118) |
| | | Paint Int Pipe Rails | 352.00 Inft | 328 | 67 | 1.12 /Inft | 395 |
| | | Paint GDW Wall Roller p + 2ct | 640.00 sqft | 261 | 85 | 0.54 /sqft | 346 |
| | | Paint Int CMU Spray p+2ct | 84.00 sqft | 54 | 19 | 0.86 /sqft | 72 |
| Phase 5B | | | | | | | |
| | | DEMOLITION | | | | | |
| | 2071.01 | <i>Demo: General</i> | | | | | |
| | | General Disposal | 13.20 cuyd | 191 | - | 19.52 /cuyd | 258 |
| | | Shore - Screw Jack | 1.00 each | 733 | 48 | 822.83 /each | 823 |
| | 2076.00 | <i>Demo: Masonry</i> | | | | | |
| | | Cut Out Opng 8" CMU | 160.00 sqft | 3,266 | - | 22.34 /sqft | 3,575 |
| | | Sawcut 8" CMU | 36.00 Inft | 3,541 | - | 112.68 /Inft | 4,057 |
| | | Remove CMU 8" | 480.00 sqft | 1,298 | - | 2.96 /sqft | 1,420 |

| Location | Phase | Description | Takeoff Quantity | Labor Amount | Material Amount | Total Cost/Unit | Total Amount |
|----------|-------|---|------------------|--------------|-----------------|-----------------|--------------|
| 2088.01 | | <i>Demo: Finishes, Floors</i> | | | | | |
| | | Flash Patch @ Wall Removal | 40.00 sqft | 77 | 49 | 3.17 /sqft | 127 |
| | | MASONRY | | | | | |
| 4050.10 | | <i>Misc: Scaffold</i> | | | | | |
| | | Interior Scaffold | 672.00 sqft | 496 | 202 | 1.21 /sqft | 813 |
| 4050.15 | | <i>Misc: Material Handling</i> | | | | | |
| | | Concrete Block | 1.00 m | - | - | 198.40 /m | 198 |
| 4105.00 | | <i>Mortar: All Types</i> | | | | | |
| | | Mortar Type "N" | 2.10 cuyd | - | 277 | 132.11 /cuyd | 277 |
| 4110.01 | | <i>Mortar: Grout Fill Conc</i> | | | | | |
| | | Grout Fill 3000 psi, 1/2" Gravl | 2.03 cuyd | 323 | 215 | 276.94 /cuyd | 562 |
| 4157.00 | | <i>Reinforce: Vertical Wall</i> | | | | | |
| | | Re-Bar #5 & #6 | 757.01 lbs | 795 | 396 | 1.57 /lbs | 1,190 |
| 4158.00 | | <i>Reinforce: Horizontal Wall</i> | | | | | |
| | | Horiz Wall Reinf 8" Hot Dippd | 0.50 mlf | 165 | 77 | 485.24 /mlf | 243 |
| 4221.15 | | <i>Conc. Block: 8"</i> | | | | | |
| | | Blk 8" 2 hr Stand Face Reg Wt | 102.00 each | 826 | 231 | 10.36 /each | 1,057 |
| | | Blk 8" 2 hr Stand Face Reg Wt radial | 612.00 each | 6,451 | 1,441 | 12.89 /each | 7,891 |
| 4221.45 | | <i>Conc. Block: 8" Lintel</i> | | | | | |
| | | Lintel 8" Stand Face Reg Wt | 6.00 each | 66 | 29 | 16.68 /each | 100 |
| | | Lintel 8" Stand Face Reg Wt radial | 36.00 each | 515 | 181 | 20.43 /each | 735 |
| | | METALS | | | | | |
| 5510.35 | | <i>Misc: Bolt On Material</i> | | | | | |
| | | Angle Bolted To Masonry | 200.00 lb | 503 | 343 | 4.31 /lb | 863 |
| | | DOORS & WINDOWS | | | | | |
| 8210.01 | | <i>Doors: Wood</i> | | | | | |
| | | Door M Core 3-0 x 7-0 Vision | -2.00 each | (190) | (632) | 410.88 /each | (822) |
| 8340.01 | | <i>Doors: Coiling Grilles</i> | | | | | |
| | | Door Coiling Grille Stainless | 160.00 sqft | 3,684 | 8,656 | 77.12 /sqft | 12,340 |
| 8710.01 | | <i>Hardware: Finishing</i> | | | | | |
| | | Finishing Hardware Int Budget w Closure | -2.00 each | (198) | (1,016) | 607.22 /each | (1,214) |
| | | FINISHES | | | | | |
| 9210.01 | | <i>Lath/Plastr: Gyp Plaster</i> | | | | | |
| | | Plaster Patch @ Wall Removal | 24.00 sqft | 273 | 26 | 12.65 /sqft | 304 |
| | | Plaster Patch Ceiling @ Wall Removal | 40.00 sqft | 149 | 39 | 4.76 /sqft | 190 |
| 9253.10 | | <i>GWB: Fasteners</i> | | | | | |
| | | Misc. Accessories | 1.00 lsum | 7 | 2 | 9.00 /lsum | 9 |
| 9310.01 | | <i>Ceramic Tile</i> | | | | | |
| | | Ceramic Tile Wall Grade 2 | 336.00 sqft | 1,650 | 1,020 | 7.95 /sqft | 2,670 |
| | | Ceramic Trim: Cove Base | 56.00 lnft | 644 | 173 | 14.59 /lnft | 817 |
| 9537.00 | | <i>Stone Flooring</i> | | | | | |
| | | Bluestone Paver 1" | 404.00 sqft | 6,150 | 3,239 | 23.24 /sqft | 9,389 |
| 9660.01 | | <i>Flooring Resilient Tile</i> | | | | | |
| | | Floor Vinyl Composition Tile 1/8" | -404.00 sqft | (270) | (389) | 1.63 /sqft | (659) |
| | | Floor Resil Base 4" | -64.00 lnft | (61) | (37) | 1.53 /lnft | (98) |
| 9920.01 | | <i>Painting: Interior</i> | | | | | |
| | | Paint Wd Door & Metal Frame | -2.00 each | (99) | (18) | 58.91 /each | (118) |
| | | Paint Int CMU Spray p+2ct | 784.00 sqft | 502 | 174 | 0.86 /sqft | 677 |
| | | Paint Exist Int CMU Spray 2 ct | -1,120.00 sqft | (326) | (174) | 0.45 /sqft | (500) |

Estimate Totals

| | | | |
|------------------------|------------------|------------|-----|
| Labor | 1,676,193 | 24,469.660 | hrs |
| Material | 2,516,721 | | |
| Equipment | 98,121 | 4,401.611 | hrs |
| | 4,291,035 | 4,291,035 | |
| Contingency Reno Study | 643,655 | 15.000 % | |
| Total | 4,934,690 | | |

MASTER PLAN AND FEASIBILITY STUDY FOR BELMONT HIGH SCHOOL
Conceptual Design Estimate for Mechanical and Electrical Trade Costs

PHASE 1A = \$878,885.00

Fire Protection (\$54,949.00)

- Install new water service.
- Install sprinklers throughout Phase 1A.

Plumbing (\$59,000)

- Replace existing steam fired domestic water heater with gas fired unit.

HVAC (\$636,236.00)

- Replace one boiler.
- Replace Gym H&V units.
- Install new HW supply and return piping to phase limits of work.
- Replace Pool HVAC System.

Electrical (\$129,000.00)

- New emergency Generator.
- Replace locker room lighting.

PHASE 1B = \$1,875,772.00

Fire Protection (\$66,750.00)

- Install sprinklers throughout new addition.

Plumbing (\$320,000.00)

- Install new Plumbing throughout new addition.

HVAC (\$875,022.00)

- Install new HVAC systems throughout new addition.
- Replace second boiler.
- Install gas fired RTU's and ductwork for Drama addition.

Electrical (\$614,000.00)

- Install new electrical systems throughout new addition.
- Install new electric service.
- Install new switchgear.

Conceptual Design Estimate for Mechanical and Electrical Trade Costs

PHASE 2A = \$474,158.00

Fire Protection (\$232,925.00)

- Install sprinklers throughout Gym and renovated spaces.

Plumbing (\$85,000.00)

- Renovate existing locker rooms.

HVAC (\$111,233.00)

- New HVAC in locker rooms

Electrical (\$45,000.00)

- New power distribution throughout renovated classrooms.
- New lighting throughout

PHASE 2B = \$1,960,157.00

Fire Protection (\$145,200.00)

- Install sprinklers throughout renovated "Science" spaces.
- Install sprinkler piping in Drama addition & Courtyard infill (no heads).

Plumbing (\$120,000.00)

- Renovate existing toilet rooms.
- Install Drama addition & Courtyard infill Plumbing.

HVAC (\$961,957.00)

- Extend new HW supply and return piping to new RTU's.
- Replace existing "Science Area" RTU's and ductwork.
- Install new Unit Ventilators in renovated classrooms.
- Install gas fired RTU's and ductwork for Drama addition & Courtyard infill.
- New fan coil units and ductwork.

Electrical (\$733,000.00)

- New power distribution throughout renovated classrooms.
- New lighting throughout renovated classrooms.
- New power and lighting for Drama addition & Courtyard infill.

PHASE 3A & B = \$1,890,000.00

Fire Protection (\$140,000.00)

- Install sprinklers throughout renovated spaces.

Conceptual Design Estimate for Mechanical and Electrical Trade Costs

Plumbing (\$215,000.00)

- Renovate existing toilet rooms.

HVAC (\$891,000.00)

- Extend new HW supply and return piping to new RTU's.
- Replace existing RTU's and ductwork.
- Install new Unit Ventilators in renovated classrooms.
- New fan coil units and ductwork.

Electrical (\$644,000.00)

- New power distribution throughout renovated classrooms.
- New lighting throughout renovated classrooms.
- Secondary switchgear.

PHASE 4A & B = \$1,682,947.00

Fire Protection (\$117,737.00)

- Install sprinklers throughout renovated spaces.

Plumbing(\$119,000.00)

- Renovate existing toilet rooms.
- Café addition piping.

HVAC (\$993,210.00)

- Extend new HW supply and return piping to new RTU's.
- Replace existing RTU's and ductwork.
- Install third boiler.
- Additions (café)

Electrical (\$453,000.00)

- New power distribution throughout renovated spaces.
- New lighting throughout renovated spaces.

PHASE 5A & B = \$1,249,987.00

Fire Protection (\$83,187.00)

- Install sprinklers throughout renovated spaces.

Plumbing (\$130,000.00)

- Renovate existing toilet rooms.

Conceptual Design Estimate for Mechanical and Electrical Trade Costs

HVAC (\$662,800.00)

- Extend new HW supply and return piping to new RTU's.
- Replace existing RTU's.
- Classroom LIV's

Electrical (\$374,000.00)

- New power distribution throughout renovated spaces.
- New lighting throughout renovated spaces.

TOTAL OF ALL PHASES \$10,011,906.00 (\$34.30 per square foot)

BELMONT HIGH SCHOOL

Conceptual Design Estimate for Master Plan and Feasibility Study

TECHNOLOGY SYSTEMS

**Prepared by Peter Constable, Principal
Design Partnership of Cambridge, Inc.**

The following estimate includes furnish and install:
Wiring Infrastructure (data, voice and video)
Telephone System (integrated with intercom).
Design contingency of 7.5% is included in estimated costs.

Total Building Cost

| | |
|---|-----------------------------|
| Area of Building: | 291,945 Sq.Ft. |
| Area of "light" technology (Locker Rooms, Storage, Mechanical, etc.) | <u>45,850 Sq.Ft.</u> |
| Net Area | 246,100 Sq.Ft. |

246,100 Sq.Ft. x \$1.75/Sq.Ft. = Total Building Cost = **\$ 430,675**

Cost per Phase

| | |
|------------------|-------------------------|
| Phase I | \$ 121,926 |
| Phase II | \$ 80,990 |
| Phase III | \$ 79,406 |
| Phase IV | \$ 79,867 |
| Phase V | <u>\$ 68,486</u> |
| Total | \$ 430,675 |



UEC

September 2, 2004

Mr. Bob Vogel
Design Partnership of Cambridge
500 Rutherford Avenue
Charlestown, MA 02129

SEP 07 2004

Reference: Asbestos Abatement Project
Belmont High School

Dear Mr. Vogel:

Thank you for providing Universal Environmental Consultants (UEC) the opportunity to serve your environmental needs.

Below please find cost estimates for hazardous materials abatement at the Belmont High School. The cost estimates include removal and disposal of accessible asbestos containing materials (ACM) and an allowance for removal of inaccessible or hidden ACM that may be found during the renovation and demolition project. The estimates also include anticipated engineering fees for design, construction monitoring and air sampling.

Lead abatement is not required. However, OSHA regulations must be implemented during renovation.

Roofing material is not required to be removed by a licensed asbestos contractor. However, OSHA and DEP regulations must be implemented during demolition.

| <i>Location</i> | <i>Type of Materials</i> | <i>Estimated Cost</i> |
|--------------------|---------------------------------|-----------------------|
| Throughout | Hard Joint Insulation | 50,000.00 |
| | Vinyl Floor Tile and Mastic | 250,000.00 |
| | Fireproofing ¹ | 2,200,000.00 |
| | Blackboard and Glue | 25,000.00 |
| | Ceiling Demolition ² | 185,000.00 |
| | Wall Demolition ³ | 125,000.00 |
| Auditorium/Theater | Soft Ceiling Plaster | 180,000.00 |
| Various Locations | Wood Fire Doors | 5,000.00 |
| | Interior Windows ⁴ | 2,500.00 |
| | Transite Panels | 5,000.00 |
| | Transite Window Sill | 10,000.00 |
| | Pipe Insulation | 5,000.00 |

Universal Environmental Consultants
1151 Worcester Rd
Framingham, MA 01701
Tel: (508) 628-5486
Fax: (508) 628-5488

| | | |
|---|--------------------------------|---------------------|
| Boiler Room | Thermal Insulation | 50,000.00 |
| | Boiler Demolition ⁵ | 25,000.00 |
| Stage | Stage Curtain | 5,000.00 |
| Exterior | Windows and Doors ⁴ | 45,000.00 |
| | Transite Panels | 25,000.00 |
| Throughout the School | Misc. and Hidden Asbestos | 50,000.00 |
| | Oil Tank | 15,000.00 |
| Engineering fees for Design, Construction Monitoring and Air Sampling | | 342,500.00 |
| | Total: | 3,600,000.00 |

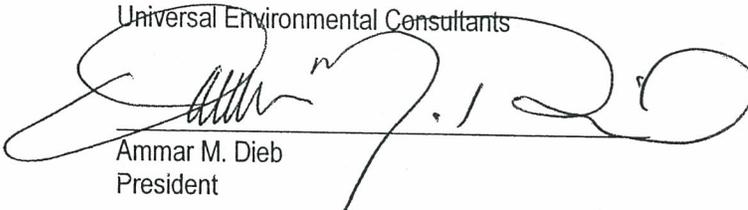
- 1: ACM fireproofing was found on columns, beams, wires, ceilings, ducts and roof deck
ACM fireproofing was also found in pipe chases as debris.
2: To access to ACM fireproofing
3: To access to ACM fireproofing
4: Caulking was found to contain asbestos
5: ACM may be found inside the boilers

A comprehensive survey of all hazardous materials is needed prior to design services.

Please feel free to call me should you have any question.

Very truly yours,

Universal Environmental Consultants



Ammar M. Dieb
President

UEC:\24111\COST902.DOC

Opinion of Probable Construction Cost

SITWORK

02100 SITE CLEARING AND PREPARATION

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|------|-----------------------------|------|--------|-----------|------------|--|
| 1 | Clear and Grub | AC | 1 | 6,775.00 | 6,775.00 | |
| 2 | Tree removal | EA | 10 | 200.00 | 2,000.00 | |
| 3 | Asphalt Paving Removal | SY | 18,000 | 4.00 | 72,000.00 | Assume 4" Depth |
| 4 | Gravel Base Removal | CY | 6,000 | 4.50 | 27,000.00 | Where needed for base prep of new improvements |
| 5 | Asphalt Pulverize & Regrade | SY | 18,000 | 3.25 | 58,500.00 | |
| 6 | Concrete Paving Removal | SF | 8,000 | 1.75 | 14,000.00 | |
| 7 | Silt Fence Erosion Control | LF | 1,000 | 5.00 | 5,000.00 | Includes maintenance and removal |
| 8 | Construction Fencing | LF | 4,500 | 8.00 | 36,000.00 | |
| 9 | Misc. Phasing Costs | LS | 1 | 35,000.00 | 35,000.00 | Temp. paving |
| 10 | Miscellaneous Removal | LS | 1 | 50,000.00 | 50,000.00 | Lights, curbing, fence |

Section Total: **\$306,275.00**

02200 EARTHWORK

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|------|----------------------------------|------|--------|-----------|------------|--|
| 1 | Strip, screen, stockpile topsoil | CY | 1,750 | 5.25 | 9,187.50 | Stockpile on-site (25% loss) |
| 3 | Excavation for Site | CY | 1,000 | 4.25 | 4,250.00 | To design subgrade. No unsuitables included. |
| 4 | Load & Haul Unsuitables | CY | 1,000 | 7.50 | 7,500.00 | 5 mile radius from site |
| 5 | Ordinary Fill | CY | 18,000 | 4.25 | 76,500.00 | All site fill areas to design subgrade |
| 6 | Gravel Borrow | CY | 8,000 | 16.00 | 128,000.00 | Beneath asphalt pvmt. |
| 7 | Drainage Fill | CY | 1,500 | 15.50 | 23,250.00 | 12" drainage under field |
| 8 | Structural Fill | CY | 4,000 | 16.00 | 64,000.00 | under conc. pvmt. |
| 9 | Crushed stone | CY | 70 | 22.00 | 1,540.00 | Misc. drainage trenches |
| 10 | Perf. Drainage Pipe | LF | 1,850 | 2.00 | 3,700.00 | 4" corrugated ADS pipe |
| 11 | Filter Fabric | SY | 1,110 | 2.50 | 2,775.00 | Around misc. drainage trenches |

Section Total: **\$320,702.50**

02510 ASPHALT CONCRETE PAVING

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|------|----------------------|------|--------|-----------|------------|-----------------------------------|
| 1 | Vehicular Bit. Conc. | SY | 18,000 | 10.75 | 193,500.00 | 3.5" Depth |
| | Gravel Borrow | CY | 7,000 | | | 12" Depth. Included in earthwork. |
| 2 | Bit. Conc. Walk | SY | 4,000 | 11.75 | 47,000.00 | 2-1/2" Depth |
| | Gravel Borrow | CY | 900 | | | 8" Depth. Included in earthwork. |

Section Total: **\$240,500.00**

02525 CURBING

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|------|-----------------------------|------|-------|-----------|------------|-------------------|
| 1 | Vertical Granite Curb | LF | 4,000 | 28.50 | 114,000.00 | 6"x18" VA curb |
| 2 | Reset Vertical Granite Curb | LF | 900 | 22.50 | 20,250.00 | |
| 3 | Sloped Granite Edge | LF | 1,200 | 15.00 | 18,000.00 | |
| 4 | Bit. Conc. Curb | LF | 4,000 | 4.00 | 16,000.00 | Type 2 and Type 3 |

Section Total: **\$168,250.00**

02705 Sanitary and Storm Sewer Systems

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|-----------------------|--------------------|------|-------|------------|---------------------|---|
| 1 | Structures | EA | 26 | 2,000.00 | 52,000.00 | |
| 2 | Drain Pipe | LF | 4,500 | 35.00 | 157,500.00 | |
| 3 | Detention Basins | EA | 2 | 100,000.00 | 200,000.00 | Underground basins |
| 4 | Special Structures | EA | 4 | 30,000.00 | 120,000.00 | Grease trap, Stormwater treatment units |
| 5 | Misc. Utilities | LS | 1 | 35,000.00 | 35,000.00 | Electric trench, patch |
| Section Total: | | | | | \$564,500.00 | |

02800 SITE IMPROVEMENTS

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|-----------------------|--------------------------|------|--------|-----------|---------------------|---|
| 1 | Concrete Filled Bollards | EA | 8 | 400.00 | 3,200.00 | Loading Areas |
| 2 | Concrete Paving | SF | 13,000 | 4 | 52,000.00 | Main Entry, front sidewalks |
| | Structural Fill | CY | 4,000 | | | 8" Depth. Included in earthwork. |
| 3 | Retaining wall | SFF | 360 | 25.00 | 9,000.00 | CMU split-face block wallat fire lane |
| 4 | Concrete seat walls | CY | 30 | 150.00 | 4,500.00 | Seat walls at front plaza (263 LF) |
| 5 | Chain Link Fence 8' BVC | LF | 600 | 24.00 | 14,400.00 | Off gym |
| 6 | Chain Link Fence 4' BVC | LF | 500 | 14.50 | 7,250.00 | Outfield softball fence |
| 7 | Guard rail | LF | 1,000 | 22.00 | 22,000.00 | Along pond edge |
| 8 | Flagpole | EA | 1 | 3,700.00 | 3,700.00 | |
| 9 | Site Lighting | EA | 25 | 1,000.00 | 25,000.00 | Excavation, concrete footing, trenching & fixture |
| 10 | Site Furniture | LS | 1 | 15,000.00 | 15,000.00 | Benches, Trash Receptacles, bicycle racks, etc. |
| 11 | Signs | EA | 50 | 300.00 | 15,000.00 | |
| Section Total: | | | | | \$171,050.00 | |

02900 Athletic Fields

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|-----------------------|--------------------|------|------|-----------|--------------------|----------|
| 1 | New Softball Field | LS | 1 | 38,000.00 | 38,000.00 | |
| Section Total: | | | | | \$38,000.00 | |

02900 LANDSCAPING

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|-----------------------|---------------------|------|--------|-----------|--------------------|--------------------------------|
| 1 | Topsoil | CY | 1,500 | 7.25 | 10,875.00 | on-site stockpile with compost |
| 2 | Seed Lawn | SF | 50,000 | 0.25 | 12,500.00 | |
| 3 | Plant Material | | | | | |
| | a. Shade Trees | EA | 25 | 400.00 | 10,000.00 | 2.5-3" Caliper |
| | b. Ornamental Trees | EA | 10 | 400.00 | 4,000.00 | 2.5-3" Caliper |
| | c. Shrubs | EA | 100 | 90.00 | 9,000.00 | |
| Section Total: | | | | | \$46,375.00 | |

TOTAL:

\$1,855,653

BID ALTERNATES

| ITEM | Description | Unit | Qty. | Unit Cost | Total Cost | Comments |
|-----------------------|---------------|------|-------|------------|---------------------|-------------------------------------|
| | Tennis Courts | | | | | |
| 1 | Demo Paving | SY | 7,000 | 4.00 | 28,000.00 | Removal- bit conc |
| 2 | Demo fencing | LF | 1,250 | 2.00 | 2,500.00 | |
| 3 | New Courts | LS | 1 | 250,000.00 | 250,000.00 | Base course, surface, nets, fencing |
| Section Total: | | | | | \$280,500.00 | |

TOTAL with Bid Alternates

\$2,136,153

