Junior College Construction Act of 1967

1974-75
Preliminary Plan Package
For
VOCATIONAL TECHNOLOGY BUILDING CONSTRUCTION
AND EQUIPMENT

Santa Barbara Community College District
Santa Barbara City College
October 1, 1973
Preliminary Plan Package

VOCATIONAL TECHNOLOGY BUILDING CONSTRUCTION AND EQUIPMENT

SANTA BARBARA CITY COLLEGE
October 1, 1973

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APPLICATION, ASSURANCES, AND AUTHENTICATION

District: Santa Barbara Community College  College: Santa Barbara City College

Project: Vocational Technology Building  Budget Year 1974-74
Construction and Equipment

1. The applicant hereby requests state funds in the amount prescribed by law for the project named herein. All parts and exhibits contained in or referred to in this application are submitted with and made part of this application.

2. The applicant hereby assures the Board of Governors of the California Community Colleges that:

   a. Pursuant to the provisions of Section 20052 of the Education Code no part of this application includes a request for funding the planning or construction of dormitories, stadia, the improvement of site for student or staff parking, single-purpose auditoriums or student centers other than cafeterias. The facilities included in the proposed projects will be used for one or more of the purposes authorized in Section 20052 of the Education Code.

   b. Any state funds received pursuant to this application shall be used solely for defraying the development costs of the proposed project.

      If the application is approved, the construction covered by the application shall be undertaken in an economical manner and will not be of elaborate or extravagant design or materials.

   c. Pursuant to the provisions of Sections 15302 and 15409 of the Education Code, approval of the final plans and specifications for construction will be obtained from both the Board of Governors of the California Community Colleges and the Department of General Services, Office of Architecture and Construction before any contract is let for the construction.

   d. No changes in construction plans or specifications made after approval of final plans which would alter the scope of work, function, assignable and/or gross areas, utilities, or safety of the facility will be made without prior approval of the Board of Governors of the California Community Colleges and the Department of General Services, Office of Architecture and Construction.

   e. Pursuant to the provisions of Section 20058 of the Education Code, an adequate and separate accounting and fiscal records and accounts of all funds received from any source to pay the cost of the proposed construction will be maintained, and audit of such records and accounts will be permitted at any reasonable time, during the project, at the completion of the project, or both.
f. Architectural or engineering supervision and inspection will be provided at the construction site to insure that the work was completed in compliance with the provisions of Section 15451 of the Education Code and that it conforms with the approved plans and specifications.

g. Pursuant to the provisions of Section 8 of the Budget Act, no contract will be awarded prior to the approval of the Public Works Board, unless excepted by the conditions of Section 20084 of the Education Code.

3. It is understood by the applicant that:

a. No claim against any funds awarded on this application shall be approved which is for work or materials not a part of the project presented in this application as it will be finally approved by the Public Works Board.

b. The failure to abide by each of the assurances made herein entitles the Board of Governors of the California Community Colleges to withhold all or some portion of any funds awarded on this application.

c. Any fraudulent statement which materially affects any substantial portion of the project presented in this application, as it may be finally approved, entitles the Board of Governors of the California Community Colleges to terminate this application or payment of any funds awarded on the project presented in this application.

4. It is further understood that:

a. The appropriation which may be made for the project presented in this application does not make an absolute grant of that amount to the applicant.

b. The appropriation is made only to fund the project presented in this application, as it is finally approved, regardless of whether the actual cost is less than or equals the appropriation.

c. A reduction in the scope of the project or assignable areas shall result in a proportionate reduction in the funds available from the appropriation.
IN WITNESS WHEREOF, THE APPLICANT HAS CAUSED THIS APPLICATION TO BE DULY EXECUTED IN ITS NAME ON THE DATE SHOWN BELOW.

Santa Barbara Community College District
(Legal Name of Applicant District)

721 Cliff Drive, Santa Barbara, California 93109 (805) 965-0581
(District Office Address) (Telephone number)

Vocational Technology Building Construction and Equipment
(Project Name)

The Governing Board of the District has approved the submission of this application to the Board of Governors of the California Community Colleges and makes the assurances listed in the foregoing.

KATHRYN O. ALEXANDER
(President of the Board of Trustees)

September 27, 1973
(Date)

GLENN G. GOODER, Superintendent-President and
(Secretary of the Board of Trustees)

Attached is a copy of the Board Resolutions substantiating the approval of the application and the making of the assurances by the Governing Board.
RESOLUTION NO. 9

SANTA BARBARA COMMUNITY COLLEGE DISTRICT

WHEREAS, the submission of preliminary plan packages are required as part of the Ten Year Construction Plan (1974-75) under the provisions of The Community College Construction Act of 1967;

NOW, THEREFORE, BE IT RESOLVED that the Board of Trustees of the Santa Barbara Community College District has approved submission of the Preliminary Plan Package for the Vocational Technology Building Construction and Equipment dated October 1, 1973, to the Board of Governors of the California Community Colleges in accordance with the Assurances listed therein.

PASSED AND ADOPTED THIS 27th day of September, 1973 by the following vote of the Board of Trustees:

(7) Ayes: Mrs. Alexander, Mrs. Gutshall, Dr. Dobbs, Mr. Frank, Mr. Garvin, Mrs. Powell, Mr. Wells

(0) Noes: None

(0) Absent: None

Kathryn O. Alexander, President
Board of Trustees
Santa Barbara Community College District
1974-75
Preliminary Plan Package

VOCATIONAL TECHNOLOGY BUILDING CONSTRUCTION AND EQUIPMENT

Santa Barbara City College
October 1, 1973

PROJECT DESCRIPTION

INTRODUCTION

This submittal represents the Preliminary Plan Package for Vocational Technology Building Construction and Equipment funds in the 1974-75 Capital Improvement Program. A Revised Preliminary Plan was submitted in February 1973 to effect changes requested under the 1972-73 capital improvement program. There have been no changes from the Preliminary Plans submitted in February 1973.

BUILDING DESCRIPTION

The Vocational Technology Project will provide teaching laboratories and peripheral facilities for programs in Auto Service, Welding, and Machine Shop. It will also provide classroom and study facilities for students in these and other existing vocational programs.

The project will consist of the construction of a new Type I Building adjacent to the existing Administration Building. The new construction will enclose an existing court within which auxiliary work areas for existing and proposed programs can be serviced. The teaching laboratories will be on the main level and on grade with the existing service court. The classroom and study areas will be on the lower level and open to natural grade and easily accessible by students from other parts of the campus. The building space includes the following types of space:

<table>
<thead>
<tr>
<th>General Academic</th>
<th>1690</th>
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</thead>
<tbody>
<tr>
<td>Auto Shop</td>
<td>3293</td>
</tr>
<tr>
<td>Machine Shop</td>
<td>3350</td>
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<td>Welding</td>
<td>2350</td>
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<td>Offices</td>
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<td>Library Service</td>
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<td>General Service</td>
<td>915</td>
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<tr>
<td>Total</td>
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</tr>
</tbody>
</table>

EQUIPMENT DESCRIPTION

General Academic—includes Classrooms and will be equipped with tablet arm chairs.

Auto Shop—includes an Engine Lab and Tool Storage. The lab will complement the existing Auto Service Lab and will provide instruction in all aspects of automotive engine theory and skills. The lab will be equipped with various engine types, both operable and in model components. Hoisting,
cleaning, testing and servicing equipment for engine use will be provided. Storage lockers and student work benches will be included.

Machine Shop---will include the required equipment to cut, mill, shape, grind, polish and clean various types of metal as well as heat treatment and testing services. Appropriate existing machine tools will be retained for use.

Welding Lab---will be equipped and arranged to meet a variety of welding instruction needs. A total of 25 booths will be installed in a manner to maximize floor area by use of perimeter arrangement of welding stations and grouping specialized equipment. This will allow maximum instructor contact and safety. Twelve of the booths in one grouping will provide combination TIG and shielded metal arc. Eight booths will provide AD/DC for shielded metal arc. Five booths will provide metallic inert gas welders. The twelve TIG and eight AC/DC booths will also have oxyacetylene capability. In addition to booths with related welding units and accessories, open work area for fabrication processes will be provided. Equipment for this area will include grinders, a radiograph, and drill press.

Offices---will be equipped with faculty desks, chairs, storage units, and typewriters where required.

Library Service---will be a resource center for all vocational disciplines and will include in addition to printed material, a basic Audio Visual Study Core with capabilities of many modes of material dissemination.

General Service---includes lockers in the service area serving all of the vocational shops.
The following justification statements are for single units of equipment with an estimated unit cost exceeding $1,000. These statements will follow the same format as the detailed equipment lists shown on pages IV-6 through IV-12.

0800 GENERAL ACADEMIC
No single units of equipment with an estimated cost exceeding $1,000.

6815 MECHANICAL, AUTO

Lab #205 Item #1
Kleer-Flo Powermaster-Hot Degreaser---This type of cleaner is capable of cleaning difficult materials off of metalics (such as varnish, encrusted carbon), through a forced agitation process. Further, this unit is essential in an engine overhaul laboratory where cleanliness of component parts is of top instructional priority. The unit has the capacity for large castings such as engine blocks, manifolds, etc... $2700

Item #3
Hydraulic Press Assembly---A hydraulic press of approximately 100 ton capacity is standard equipment in most commercial automotive shops. Component parts such as bearings, gears, axles, require (press fit) assembly or separation. Also, this piece of equipment is often essential in bending, straightening or broaching........................................ $1900

Item #18
Boring Bar--- A universally used piece of equipment where engine block cylinders must be rebored. Equipment is used in shops which specialize in engine (short block) overhaul.
........................................................................................................ $1770

Item #31
Steam Cleaner---A hot water/chemical cleaner which is essential for fast cleaning of surface grease. This is the least expensive process and is standard in most small to large automotive tuneup, repair, and major overhaul shops........ $1000

Item #32
Engine Performance Tester---A diagnostic piece of equipment with which students can determine malfunctions of automotive power systems. It also can be used in teaching theory of ignition fuel supply, carburation, and mechanical operations. ................................................................. $6000
MECHANICAL, MACHINE

Lab # 208 Item #1
10" Lathes--- is the piece of equipment which is essential in the instruction of principles of shaping metalics. A wide variety of ferrous and non-ferrous metals are cut, knurled, and threaded by the use of a lathe. Further, theory and practice of speeds, ratios can be taught with the use of a lathe. Use of the lathe is an integral part of many "job-shop" operations....................... $2700

Item #7
Clamping Vert. Mill---with vertical knee and column is a heavy duty milling machine with power table, knee, saddle and hydraulic tracing attachment. The vertical milling machine is used extensively to machine flat and irregular surfaces and can also be used to drill and bore holes. Its extensive use in industry makes it essential that adequate machine coverage be provided to the student................... $7000

Item #8
Horiz. Mill---Universal knee and column type is a heavy duty milling machine with power table, knee and saddle. The Horiz. Mill is used to machine flat and irregular surfaces, cut splines, gears, threads, and drill holes. A variety of industrial machining practices are taught on this machine................. $8000

Item #13
Surface Grinders---with hydraulic table traverse and automatic cross feed. The process of shaping metal by means of abrasive wheels is taught on this machine. The shop must be equipped with two of these machines to allow adequate coverage to the student........................................ $4000

Item #15
Heat Treatment 1600°F Electric Range---with pyrometer control. This furnace is used to change the physical properties of metal through heating and cooling.................................. $2000

Item #16
Banjo Saw---16" vertical metal cutting with variable speed control and blade welder. This saw is used for accurate sawing of curved shapes. Unusual and irregular curves that are impossible to machine by any other method can be cut on the vertical band saw. This is an important industrial machine which all machine shop students must be familiar with................................................ $2250
6819 WELDING

Lab #210 Item #1
Welding Booth Assembly—Combination AC/DC/TIG Tungsten Inert Gas Welders. Tungsten inert gas welding is where coalescence is achieved by heating with an electric arc produced by a virtually nonconsumable tungsten electrode. During the welding cycle a shield of inert gas expels the air from the welding area and prevents oxidation of the electrode, weld puddle, and surrounding heat affected zone. This process is used extensively by industry to weld aluminum, stainless steel, carbon steel, copper and its alloys, and nickel and its alloys.............................. $1120

Item #2
Welding Booth Assembly—Combination AC/DC welder for shielded arc welding. This is an important industrial welding process where coalescence is achieved by generating an electric arc between a coated metallic electrode and the workpiece........................................ $ 800

Item #3
Metallic Inert Gas Welder—is a process where coalescence is achieved by striking an electric arc between the workpiece a continuous consumable wire electrode which is fed through a torch at controlled speeds. A shielding gas flows through the torch and forms a blanket over the weld puddle to protect it from atmospheric contamination. This process is used extensively by industry to weld aluminum, carbon steels, low alloy steels, stainless steels, nickel, copper, magnesium and titanium.................................................. $ 725

Item #5
Oxyacetylene Welding Assembly—Oxyacetylene welding is a process in which coalescence is achieved by directing a gas flame over metal where a filler rod may or may not be used to intermix with the molten puddle......................... $ 150

NOTE: The movable equipment listed above will be used in booth structures that is included as fixed equipment in the building structural contract as is the oxyacetylene gas manifold system. The equipment listed above is all portable and may be moved. All 25 booth structures will be constructed in such a manner to be capable of housing any of the assemblies listed above.

Item #10
Combination Brake/Shear—A brake shear is necessary for cutting of welding coupons, shaping of coupons, and use in general fabrication operations. Most welding fabrication shops use this piece of equipment on shearing of gage size plate.................................................. $2000

II-5
LRC #103  Item #7
Sony TV Porta Pak—is a video camera that will have the versatility of taking audio-visual tapes of actual occupational skills. This system would allow for student support in Independent Study classes, and for programmed instruction types of classes. Also, the system would be used for student review of laboratory materials. Instant playback is a major convenience and necessity.......................... $1600

NOTE:

Functional Capabilities of Resource Center

All the trade/technical instruction staff should be able to refer their students to the center for the following purposes:
   a. Review material which was missed during regular class session.
   b. Use materials for student subject matter reinforcement (tutorial).
   c. Testing
   d. Learn units of programmed instruction.

Equipment Use and Specification

Essentially, we would seek standardization to recommending basic equipment for audio-visual purposes. Students should have the minimum types of equipment to learn how to operate.

8400 GENERAL SERVICES

No single units of equipment with an estimated cost exceeding $1000.
### OUTLINE OF BUILDING SPACES

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<th>Class</th>
<th>Subject Field &amp; Type of Space</th>
<th>Item Type</th>
<th>Size</th>
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<th>Dept. Total ASF</th>
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**TOTAL BUILDING**

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**Prepared by** Don Trent

**Date** Revised February 22, 1973

Revised March 1, 1973

(No Change) October 1, 1973
A Project Planning Guide for Working Drawings Funds on this project was submitted January 1, 1971 and a Preliminary Plan Package on October 15, 1971. The project was approved for Working Drawings for the 1972-73 budget year contingent upon revising the program deleting 5,186 ASF of Marine Diving Lab and recommending against converting existing Administration Building space into machine and welding shops.

A Revised Project Planning Guide reflecting these changes was submitted January 15; 1973. This Preliminary Plan Package is consistent with that Revised Project Planning Guide.

The architectural firm of Daniel, Mann, Johnson, and Mendenhall have completely redesigned this project in accordance with the revised program.

1. Design Change
   The building configuration remains adjacent to the existing Administration Building and encloses the service court that presently relates to existing auto shop, printing shop, and maintenance areas. The court will continue to serve these existing facilities and will in addition serve the proposed Vocational Technology Building areas of auto service, machine, and welding. The lower level of the building which houses classroom and study areas relates to and is on grade with main circulation patterns of the existing campus.

2. Plan Change
   The total plan has been changed to reflect the revised program. Basic differences from the previous Preliminary Plan Package are:
   a. Classroom size increased for better campus-wide utilization. Fewer separate rooms required.
   b. Combining tool and storage areas for Welding and Machine Technology to conserve space, improve circulation, and lower operational cost.
   c. No remodeling required.
   d. Diving Lab removed.
   e. Improved student circulation patterns.

Revised March 1, 1973
(No Change) October 1, 1973
DIAGRAM OF BUILDING AREAS

SANTA BARBARA DISTRICT COMMUNITY COLLEGES

COLLEGE SANTA BARBARA CITY COLLEGE

PROJECT VOCATIONAL TECHNOLOGY FACILITY

DMUM PROJECT NO. 31-1-45

BUILDING AREAS

① 32'-6" x 72'-3" + 53'-5" x 51'-0"

10'-1" x 37'-0"

= 5,449

COVERED AREAS

② 9'-0" x 13'-3" x 1/2

③ 10'-0" x 13'-3" x 1/2

= 611

= 66

LOWER LEVEL (OBSF) 6,126

PREPARED BY N.R. Antonio, A.S.A.

DATE February 1973 (No Change)

October 1, 1973
DIAGRAM OF BUILDING AREAS

SANTA BARBARA COMMUNITY COLLEGE COLLEGE SANTA BARBARA CITY COLLEGE

PROJECT VOCATIONAL TECHNOLOGY FACILITY
DMJM PROJECT NO. 31-1-45

BUILDING AREAS
1. 7'-10" X 41'-8" + 52'-4" X 56'-4" = 3,274
2. 10'-1" X 14'-8" + 10'-1" X 50'-10"
   52'-0" X 74'-0" = 4,503
3. 41'-8" X 93'-7" + 8'-10" X 31'-5" = 4,184

COVERAGE AREAS
4. 20'-2" X 29'-0" X 1/2 = 297

MAIN LEVEL (OSSF) 12,263

MAIN LEVEL (OSSF) 12,263
LOWER LEVEL (OSSF) 6,120

TOTAL OUTSIDE GROSS BUILDING AREA 18,389

PREPARED BY W. P. TESSA M.S.A.

DATE February 1, 1973 Revised March 1, 1973

III-4
The California Community Colleges
Fiscal Affairs, Facilities Planning
JCAF 32 (PPP 7/71)

District  Santa Barbara Community College
College  Santa Barbara City College
Project  Vocational-Technology Building
Construction and Equipment

Preliminary Plan Cost Estimate 1974 - 75
(All Cost @ ENR 2080)

1. Site
   A. Purchase price of property  $0
   B. Appraisals
   C. Costs incurred in escrow
   D. Surveys
   E. Other costs*  $0
   Total (Acquisition of Site)  $0

2. Plans
   A. Architect's fee for plans  $76,345
   B. Office of Architecture, plan check fee  4,444
   C. Community College, plan check fee  2,249
   D. Preliminary tests
   E. Other costs*  Legal Advertising $689  814
   Total (Plans)  Physically Handicapped $125  $84,296

3. Construction
   A. Utility service*  $16,575
   B. Site development service*  19,112
   C. Site development general*  29,768
   D. Other site development*  4,761
   E. Reconstruction*  0
   F. New Construction (Building)
      (1) General Work  640,148
      (2) Mechanical  68,865
      (3) Plumbing  45,283
      (4) Electrical  129,799
      (5) Other  0
   Total (Construction)  884,095

4. Tests and Inspection  $9,085 + (1,405 x 12)  25,945

5. Contingency (5% Of Item 3)  47,716

6. Total Building Project (Items 1 through 5 above)  1,112,268

7. Furniture and movable equipment  139,082

8. Total project cost (Items 6 and 7)  1,251,350

*Define with detail description on attachment.

<table>
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<tr>
<th>Project Data</th>
<th>Totals</th>
<th>Ratio</th>
<th>New Constr. Unit Cost a/</th>
<th>Total Bldg. Project Unit Cost b/</th>
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<td>66.15</td>
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Prepared by  Don Trent
Date  October 1, 1973

JCAF 32
IV-1
PRELIMINARY PLAN COST ESTIMATE

SANTA BARBARA COMMUNITY COLLEGE DISTRICT
SANTA BARBARA CITY COLLEGE
VOCATIONAL-TECHNOLOGY BUILDING

1. SITE (District Owned) None

2. PLANS

A. Architect's Fee for Plans
   954,311 @ 8% $ 76,345

B. Office of Architecture, Plan Check Fee
   New Construction $ 884,095
   Retaining walls - 4,761
   Exterior lighting (1) Structural fee 888,856 @ 1/2% $4,444
   (2) Physically handicapped fee 125 4,569

C. Community College, Plan Check Fee
   888,856 @ 1/20% 444

D. Preliminary Test (soil test) 2,249

E. Other Costs (legal advertising) 689

Total Plans $ 84,296

3. CONSTRUCTION

A. Utility Service
   (1) Electrical
      (a) Trench & Backfill, 210 LF @ 1.86 $ 390
      (b) 4" C-3 #2/0 5kv Shielded, 210 LF @ 22.04 4,628
      (c) 2" C-3 #12 & 7 pairs, 210 LF @ 5.42 1,138
      (d) 3" C.O. 630 LF @ 5.41 3,407
      (e) Exterior Lighting 11 ea. @ 433.00 4,761
      Total - Electrical $ 14,324

   (2) Mechanical/Plumbing
      (a) Water: 2-1/2" P.V.C. Sch. 40, 155 LF @ 3.09 479
          2-1/2" Gate Valve & Box, 1 ea. @ 141 141
          2-1/2" Tap to Exist, 6" A.C. Main LS 84
          Pressure Regulator LS 169

IV-2
3. CONSTRUCTION (Continued)

A. Utility Service (Continued)
   (2) Mechanical/Plumbing (Continued)
     (b) Sanitary Sewer: 6" V.C.P. 60 LF @ 6.46 $388
         Connect to Exist. LS 112
         Adjust M.H. 562
     (c) Gas: 1" R.V.C. Sch. 80 75 LF @ 3.09 232
         Tap to Exist. 4" Main LS 84
         Total - Mechanical 2,251
         Total - Utility Service 16,575

B. Site Development Service
   (1) Demolition
       (a) Concrete Apron 120 SF @ 0.56 67
       (b) Asphalt Paving 21,000 SF @ 0.17 3,542
       (c) Trees 2" to 4" Size -10 ea. @ 28.10 281
       (d) Conc. Steps 120 SF @ 2.53 304
       (e) 6' High Wood Fence 205 LF @ 1.69 346
       (f) Catch Basin 1 ea. @ 84.00 84
       (g) 6" Conc. Pipe 90 LF @ 1.41 127
       Total - Demolition 4,751

   (2) Rough Grade
       (a) Clear and grub, 38,700 SF @ 0.07 2,611
       (b) Rough grade, 38,700 SF @ 0.03 1,305
       (c) Excavation, 2,022 CY @ 0.84 1,705
       (d) Fill and Compact, 1,038 CY @ 2.53 2,625
       (e) Export Surplus, 984 CY @ 1.69 1,659
       Total - Rough Grading 9,907

   (3) Storm Drains
       (a) Catch Basins, 6 ea. @ 309.18 1,855
       (b) 4" A.C. Pipe, 30 LF @ 4.23 127
       (c) 6" A.C. Pipe, 20 LF @ 5.65 101
       (d) 8" A.C. Pipe, 100 LF @ 5.34 534
       (e) 10" A.C. Pipe, 78 LF @ 6.18 482
       (f) 12" A.C. Pipe, 70 LF @ 7.31 512
       (g) Water - Oil Separator - LS 843
       Total - Storm Drains 4,454
       Total - Site Development 19,112

C. Site Development: General
   (1) Paving and Walks
       (a) 6" Conc. Pum't. 12, 700 SF @ 0.79 9,995
       (b) 2" Asphalt Pavement & 6" Base w/seal coat
           6,500 SF @ 0.51 3,289

IV-1
3. CONSTRUCTION (Continued)

C. Site Development: General (Continued)
   (1) Paving and Walks (Continued)
       (c) 6" A.C. Curb, 265 LF @ 1.12 $298
       (d) 2 x 4 Redwood Headers, 720 LF @ 0.62 445
       (e) Site Steps, 200 SF @ 11.24 2,249
       Total - Paving and Walks $16,276

   (2) Landscaping
       (a) Lawns & Planting, 15,000 SF @ 0.46 6,914
       (b) Irrigation, 15,000 SF @ 0.39 5,903
       (c) Finish Grading, 15,000 SF @ 0.045 675
       Total - Landscaping $13,492

D. Other Site Development

E. Reconstruction
   None

F. New Construction
   General Work
      (Arch. & Struct.) 18,389 SF @ 34.81 640,148
      Mechanical, 18,389 SF @ 3.74 68,865
      Plumbing, 18,389 SF @ 2.46 45,283
      Electrical, 18,389 SF @ 7.06 1,297,799
      Total - General Work $884,095

   Total - Construction Cost $954,311
CALCULATION OF ESTIMATED EQUIPMENT COSTS

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Prepared by Don Trent
Date October 1, 1973
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Prepared By: Don Trent
Date: October 1, 1973
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*See Justification Statements

Prepared By: Don Trent
Date: October 1, 1973
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Total Mechanical, Auto: $40,460 $8,400 $32,060

*See Justification Statements

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Date: October 1, 1973
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<th>Code</th>
<th>Space Name</th>
<th>No.</th>
<th>Units</th>
<th>Equipment Item Description</th>
<th>Unit Cost</th>
<th>Total Cost</th>
<th>Exist. Inv.</th>
<th>Total Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>6815</td>
<td>MECHANICAL MACHINE LAB 208</td>
<td>3</td>
<td>(1)</td>
<td>10&quot; Lathes 208/220 V, 3 Phase</td>
<td>*2700</td>
<td>8100</td>
<td>--</td>
<td>8100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>(2)</td>
<td>14&quot; Lathes 208/220 V, 6,2 AMP, 3 Phase</td>
<td>3000</td>
<td>9000</td>
<td>9000</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(3)</td>
<td>W.S. Turret Lathe 220V, 7.9 AMP, 3 Phase</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(4)</td>
<td>Harding Chuckler 220V, 1.6 AMP, 3 Phase</td>
<td>8000</td>
<td>8000</td>
<td>8000</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(5)</td>
<td>12&quot; Turret Lathe 208-220V, 6.2 AMP</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(7)</td>
<td>Clamping Vert. Mill w/Vert. Knee &amp; Col. Type H.D.</td>
<td>*7000</td>
<td>7000</td>
<td>--</td>
<td>7000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(9)</td>
<td>Cylindrical Grinder 220/440V, 20 AMP, 3 Phase</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(10)</td>
<td>Tool &amp; Cutter Grinder 220V, 4.0 AMP, 3 Phase</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>(11)</td>
<td>Pedestal Grinders 115/230 V, 2.6/3.1 AMP, 1 Phase</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(12)</td>
<td>Carbide Tool Grinder 115 V, 5.0 AMP, 1 Phase</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>(13)</td>
<td>Surface Grinders 6&quot; x 18&quot; 230/460 V, 3.7/1.8 AMP, 3 Phase</td>
<td>*4000</td>
<td>8000</td>
<td>4000</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>(15)</td>
<td>Heat Treatment 1600° Range Elect.</td>
<td>*2000</td>
<td>4000</td>
<td>--</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(16)</td>
<td>Band Saw, Vert. Metal Cutting H.D.</td>
<td>*2250</td>
<td>2250</td>
<td>--</td>
<td>2250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>(17)</td>
<td>Drill Presses 220/440V, 2.8 AMP, 3 Phase</td>
<td>600</td>
<td>2400</td>
<td>1200</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
<td>(18)</td>
<td>Work Benches w/ Stor. Under. 24&quot; x 33&quot; x 48&quot;</td>
<td>400</td>
<td>3200</td>
<td>3200</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>(19)</td>
<td>Bench Grinders 115V, 8.5 AMP</td>
<td>120</td>
<td>480</td>
<td>480</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>(20)</td>
<td>Metal Storage Csb, Drawer Type</td>
<td>350</td>
<td>350</td>
<td>--</td>
<td>350</td>
</tr>
</tbody>
</table>

*See Justification Statements Total Mechanical, Machine $77,180 $38,600 $38,580

Prepared By: Don Trent
Date: October 1, 1973
## Detailed Equipment List

**District:** Santa Barbara Community College  
**College:** Santa Barbara City College  
**Project:** Vocational Technology  
**Building Equipment**

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<th>Code</th>
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<th>Equipment Item Description</th>
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<th>Inv.</th>
<th>Total Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>6819</td>
<td>WELDING LAB #210</td>
<td>12</td>
<td>Welding Booth Assembly, Combination AC/DC/TIG Welders Type 320 AP/B 200 AMP</td>
<td>*1120</td>
<td>13,440</td>
<td>--</td>
<td>13,440</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&quot; &quot;</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8</td>
<td>Welding Booth Assembly, Combination AC/DC Welders 200 AMP</td>
<td>*800</td>
<td>6,400</td>
<td>--</td>
<td>6,400</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>Metallic Inert Gas Welders</td>
<td>*725</td>
<td>3,625</td>
<td>--</td>
<td>3,625</td>
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<tr>
<td></td>
<td></td>
<td>1</td>
<td>Miller Dip Rig, 200</td>
<td>*545</td>
<td>545</td>
<td>--</td>
<td>545</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td>Radiograph, With Two 5 Ft. Tracks with Machine Torch</td>
<td>*545</td>
<td>545</td>
<td>--</td>
<td>545</td>
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<tr>
<td></td>
<td></td>
<td>25</td>
<td>Oxyacetylene Welding Assembly</td>
<td>*150</td>
<td>3,000</td>
<td>--</td>
<td>3,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Welding Screens, Prominent 72&quot; x 108&quot; 773-D Duck-Hard Finish Shield</td>
<td>90</td>
<td>2,250</td>
<td>--</td>
<td>2,250</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>Pedestal Grinders,</td>
<td>600</td>
<td>1,200</td>
<td>--</td>
<td>1,200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>Bench Grinders, 1/2 HP</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>Drill Presses</td>
<td>150</td>
<td>300</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Combination Brake/Shear</td>
<td>2000</td>
<td>2,000</td>
<td>--</td>
<td>2,000</td>
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<tr>
<td></td>
<td></td>
<td>1</td>
<td>Lino-Graph Burning Machine, with Track</td>
<td>700</td>
<td>700</td>
<td>--</td>
<td>700</td>
</tr>
</tbody>
</table>

Total Welding: $33,760  
Prepared By: Don Trent  
Date: October 1, 1973  

*See Justification Statements*
# Detailed Equipment List

**District:** Santa Barbara Community College  
**College:** Santa Barbara City College  
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**Building Equipment**

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<th>Equipment Item Description</th>
<th>Unit Cost</th>
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<th>Exist. Inven.</th>
<th>Total Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>7500</td>
<td>LIBRARY LRC #103</td>
<td>12 (1)</td>
<td>Howe Double Carrels (III), with Rear View Projection Screen Assembly-48&quot; with AC Power and Light</td>
<td>440</td>
<td>5280</td>
<td>--</td>
<td>5280</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (2)</td>
<td>Howe Single Carrels (II), with Rear View Projection Screen Assembly-48&quot; with AC Power and Light</td>
<td>220</td>
<td>440</td>
<td>--</td>
<td>440</td>
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<tr>
<td></td>
<td></td>
<td>26 (3)</td>
<td>Kodak Ektographic Slide Projectors, Mod B2 AV 310Z</td>
<td>200</td>
<td>5200</td>
<td>--</td>
<td>5200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26 (4)</td>
<td>Wollensak Cassette Sync. Playback Deck Units Mod. 2560 AV</td>
<td>280</td>
<td>7280</td>
<td>--</td>
<td>7280</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26 (5)</td>
<td>Headphones, Wollensak Mod. A-0483</td>
<td>15</td>
<td>390</td>
<td>--</td>
<td>390</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 (6)</td>
<td>Kodak Super 8 Cartridge Projectors. Ektographic 120 Movie Projector</td>
<td>150</td>
<td>600</td>
<td>--</td>
<td>600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 (7)</td>
<td>Sony TV Porta Pak, Video Corder AV-3400 Video Camera AV-3400</td>
<td>1600</td>
<td>1600</td>
<td>--</td>
<td>1600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (8)</td>
<td>Kodak Super 8 Projectors Ektographic Mod. MFS-8</td>
<td>350</td>
<td>700</td>
<td>--</td>
<td>700</td>
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<tr>
<td></td>
<td></td>
<td>2 (9)</td>
<td>Wollensak Cassette Recorders Mod.2550 AV</td>
<td>300</td>
<td>600</td>
<td>--</td>
<td>600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 (10)</td>
<td>Ektographic Slide Projectors Kodak Mod. B-2 Mobile A-V Centers For Storage and Projection Table. Mod. MEC</td>
<td>200</td>
<td>400</td>
<td>--</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 (12)</td>
<td>Over-Head Projectors, Bell &amp; Howell Specialist Mod. 362 A</td>
<td>170</td>
<td>510</td>
<td>--</td>
<td>510</td>
</tr>
</tbody>
</table>

**Total Library** | **$23,400** | **--** | **$23,400**

*See Justification Statements*

**Prepared By:** Don Trent  
**Date:** October 1, 1973
# Detailed Equipment List

**District:** Santa Barbara Community College  
**College:** Santa Barbara City College

**Project:** Vocational Technology  
**Building Equipment**

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<th>Total Cost</th>
<th>Exist. Inven.</th>
<th>Total Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>8400</td>
<td>GENERAL SERVICES</td>
<td>50 (1)</td>
<td>Student Lockers 12&quot; x 12&quot; x 36</td>
<td>35</td>
<td>1750</td>
<td>--</td>
<td>1750</td>
</tr>
</tbody>
</table>

**Total General Services**

1750 -- 1750

Prepared By: Don Trent  
Date: October 1, 1973
Submit Preliminary Plan Package for Construction and Equipment
Authorize working drawings
Submit Environmental Impact Report
Submit Coastal Commission Report
OAC plan check begins
Approval by environmental agencies
Approval by Coastal Commission
OAC plan check approval
Request FWB approval of working drawings and use of District funds for construction per Education Code 20084
FWB approve working drawings and use of District funds
Advertise for construction bids
Advertise for construction bids
Bids due
Begin construction
Equipment bids due
Complete building construction (12 months)
Deliver furniture and equipment
Occupy

Oct. 1, 1973
Oct. 30, 1973
Feb. 1, 1974
Feb. 1, 1974
Feb. 21, 1974
April 1, 1974
April 1, 1974
April 4, 1974
April 4, 1974
April 4, 1974
May 14, 1974
May 21, 1974
June 11, 1974
June 20, 1974
Feb. 4, 1975
June 20, 1975
Aug. 4, 1975
Sept. 2, 1975
FEDERAL FUNDS

District: Santa Barbara Community College  College: Santa Barbara City

Project: Vocational Technology Building  Construction and Equipment

There are no Federal applications for funds pending on this project. All funding will be matching from the State of California Junior College Construction Act of 1967 and local bond funds.
OUTLINE SPECIFICATIONS

FOR

SANTA BARBARA CITY COLLEGE

SANTA BARBARA COMMUNITY COLLEGE DISTRICT

SANTA BARBARA, CALIFORNIA

VOCATIONAL TECHNOLOGY FACILITY

JOB NO. 51-1-45

January 1973
I. GENERAL INFORMATION

A. LOCATION

The new building shall be located adjacent to and southeast of the existing shop building and northwest of the Life Science Building of the existing Santa Barbara City College.

B. DESCRIPTION OF PROJECT

The project consists of classrooms, faculty offices, locker room, machine shop, welding shop, auto engine shop, rest rooms, general service areas, and ancillary spaces.

C. SITE DEVELOPMENT

1. Utilities (connected to existing lines)
   a. Water
   b. Gas
   c. Sewer
   d. Electricity
   e. Telephone

D. OFF-SITE DEVELOPMENT

None

E. ON-SITE DEVELOPMENT

1. Service
   a. Grading
   b. Storm drain system connected to existing lines
   c. Retaining walls.
2. General
   
a. Finish grading
   
b. Concrete stairs, non-skid finish
   
c. Brick paving. Alberhill pavers as manufactured by Pacific Clay Products.
   
d. A.C. paving and A.C. curbs and gutters
   
e. Landscaping and erosion control
   
f. Irrigation system for landscaping.
   
g. Area lighting
   
h. Storage shed - concrete fencing and chain link fencing
   
i. Concrete paving
   
3. Demolition and Site Clearing
   
a. Remove concrete steps on grade (and handrail) southeast of existing Shop Building
   
b. Remove paving as indicated on demolition plan
   
II. BUILDING CONSTRUCTION AND OCCUPANCY CLASSIFICATION
   
A. Building shall comply with the requirements of the California Administrative Code, Title 24; Public Safety, Title 21; Public Works, General Industry Safety Orders, State of California, Title 8 and the American Standard Specifications for Handicapped.
   
B. OCCUPANCY "C"
   
C. TYPE CONSTRUCTION: Type I
   
1-hour between shops and dissimilar spaces.
D. **STRUCTURAL SYSTEM**

1. General: Reinforced concrete construction

2. Foundations: Reinforced concrete designed for allowable soil pressure as determined by soils investigation

3. Floors
   a. On grade - concrete slab over polyethylene membrane
   b. Upper floors - double concrete floor over concrete pan joists (at all floors with rooms under)
   c. Design upper floors for forklift - 250 psf at all floors over rooms
   d. Depress slab at tile finish

4. Columns: Cast-in-place concrete

5. Walls: Cast-in-place concrete with waterproof membrane where occurring below grade

6. Roof: Steel deck with vermiculite fill and fireproofed as required

7. Stairs: Reinforced concrete with cast-in-place, non-slip nosing

E. **ARCHITECTURAL**

1. Building Exterior
   a. Roofing and insulation - built-up roof with rigid insulation and crushed rock to match existing
   b. Soffits - cement plaster
   c. Columns
   d. Walls - horizontal board formed concrete, painted.
      - plywood formed concrete, light sand blasted.
e. Glass - low transmission, Solar Bronze

f. Windows - steel, factory finish or job finish, contractor option

g. Door frames - steel factory finish or job finish

h. Doors - solid core wood U.S. plywood with "Vigular" finish of DuPont Tedlar. Colors as selected by Architect. Welding Shop and Machine Shop shall receive "Superior" canopy doors (electrically operated). Auto Shop and Storage and Material Rooms shall have "overhead" roll up doors, electrically operated

i. Louvers - steel, see e. and f. above for finish

j. Building designation - aluminum anodized, 6" high. Detail of mounting, type and type of anodizing as per Architectural Designer. Names of buildings to be verified

k. Guardrails and handrails - as detailed by Architect, galvanized pipes

l. Roof hatch.

2. Building Interior

a. Floors - concrete exposed, concrete with hardener, brick paving, vinyl asbestos tile 12 inches square

b. Base - rubber, tile and concrete

c. Wainscot - tile

d. Walls - gypsum plaster, Keenes cement, concrete painted and concrete exposed

e. Ceilings - acoustical tile, lay-in; exposed concrete; exposed concrete painted, gypsum plaster and Keene's cement plaster

f. Doors - solid core birch, suited for natural finish; steel doors in Shop areas. All doors except to toilets, custodian, mechanical, storage and locker rooms shall have wire glass vision panels
g. Door frames - pressed metal

h. Chalkboard - composition with aluminum trim, chalkrail, tackstrip and maphooks, Claridge or equal

i. Tackboard - vinyl covered cork with aluminum trim

j. Casework - WIC Premium grade. Watson-Dreps or equal

l. Projection screens - N.I.C.

m. Toilet room accessories - Bobrick B-360, towel cabinet, Bobrick B-307 soap dispenser, Bobrick B-350 sanitary napkin dispenser and Bobrick B-271 napkin disposal

n. Toilet compartments - Sany Metal Academy with paper holders and coat hooks to match existing Life Science unit

o. Mirrors - registered safety mirrors with stainless-steel frame and shelf by Tyre Bros.

p. Hardware - institutional quality and masterkeyed to existing system

q. Lockers - N.I.C. (steel lockers only)

r. Painting - to follow schools standard all areas

s. Fire extinguished cabinets - fully recessed (where possible) steel prime coated

t. Hydraulic lift at Auto Shop - Wayne 2 post swivel arm frame, model GF77

u. Monorail at Auto Shop and Welding Shop - 2-ton electric "Coffing" hoist. Provide electrically operated trolley and traveling beam
v. Welding booths - steel frame, cement asbestos 3 sides and asbestos curtain. Bench with fire-brick surface

w. Refer to letter dated 17 September 1971 from Bolt, Beraneck and Newman for soundproofing considerations

x. Stair rails - galvanized pre-oxidized steel pipe rails

y. Relocation of existing equipment - equipment presently existing at Nopal Street facilities shall be relocated by Owner to locations shown on plan and connected to utilities, by Owner

F. PLUMBING

1. General

a. Furnish all labor, materials, fixtures, drains, equipment, tools and appurtenances necessary and incidental for the installation of complete plumbing systems.

b. All work and materials shall conform to the rules and regulations of the Uniform Plumbing Code and all current applicable state and local codes, laws and ordinances

c. All pipe and fittings shall conform to latest applicable standards for type of materials as herein specified

2. Scope of Work: This section specifies a complete and fully operable installation consisting of, but not limited to, the following systems:

a. Domestic cold water distribution system

b. Domestic hot water (140°F) supply and return distribution piping including water heaters, storage tanks, pumps and controls

c. Compressed air systems - auto shop

d. Gas distribution systems
e. Sanitary waste and vent systems and interceptor.

f. Rainwater systems

g. Fire protection systems, including automatic sprinklers, and flow switch alarms, for custodian and storage rooms

h. Installation of plumbing fixtures, trim, equipment and appurtenances

i. Plumbing rough-in and connections to all fixtures and equipment furnished in other sections of the specifications or by the Owner

j. Complete systems for welding gases - welding shop.

k. All exposed lines to be color coded

G. MECHANICAL

HEATING VENTILATING AND AIR CONDITIONING

Scope of Work

1. The scope of work consists of the installation of all materials to be furnished under this section, and without limiting the generality thereof, includes heating units, air conditioning units, air handling units, necessary ductwork and controls.

2. Air conditioning shall be provided for classrooms and office areas. Unit shall consist of central station packaged, multizone, air handling unit located in the lower level Mechanical Room. Unit shall supply low velocity zoned air through insulated ductwork to the individual room zones, terminating at conventional ceiling supply diffusers. The ceiling furred space shall be used as a return air plenum system.

3. Refrigeration unit shall consist of a roof top mounted, packaged, air cooled water chiller unit serving the
air handling unit cooling coil by means of inter-
connecting insulated chilled water piping and pump.

4. Hot water heating boiler shall be located in the lower
level Mechanical Room. Unit shall serve the air
handling unit heating coil as well as suspended Shop
area space unit heaters by means of interconnecting
insulated hot water piping and pumps.

5. Shop areas shall have heating and ventilating only.
Heating shall consist of suspended hot water space
unit heaters thermostatically controlled. Ventilation
shall be provided with roof mounted power exhausters
with roof mounted air intakes. Exhausters shall be
thermostatically controlled and two-speed operation.

6. Special carbon monoxide exhaust system shall be
provided for shop engine test stands.

7. Special supply and exhaust air system shall be provided
for welding booths and welding Shop area.

8. Exhaust ventilation shall be provided for toilet rooms,
storage rooms, custodian rooms, exhaust hoods, equip-
ment rooms, and electrical rooms. The ventilation
systems shall consist of low velocity ductwork terminating
at centrifugal type exhaust fans located on the roof areas
of the buildings.

H. ELECTRICAL

1. Check blue sheets for equipment power requirements.

2. Power at 4160 volt will be supplied from existing feeder
No. 1 in pull box No. 3 and stepped down to low voltage
for distribution to various electrical equipment.

3. Lighting will be per schools standard.

4. Clock system will be connected to master system.

5. Break station will be installed in fire extinguisher
cabinet. Alarm will be connected to the master system.

6. Landscape lighting will match existing. Coordinate
with Landscape Architect.
7. Telephone conduit system and outlets in offices and other designated areas.

8. Television conduit system and outlets in all teaching stations.

***************
# Material Legend

**Finish No. (Material List):**

1. Concrete Exposed
2. Exposed Structure Unpainted
3. Concrete Painted
4. Concrete with Integral Color
5. Wood
6. Asphalt Tile
7. Vinyl Asbestos Tile
8. Vinyl Tile
9. Carpet
10. Special Flooring
11. Quarry Tile
12. Terrazzo
13. Ceramic Tile
14. Cement
15. Vinyl
16. Rubber
17. Concrete Block, Painted to 6'-0"
18. Brick Paver
19. 5/8" Gypsum Board U.L. 1-Hour Fire Rated
20. 1/2" Gypsum Board
21. Gypsum Plaster - Smooth Finish
21a. Gypsum Plaster - Dash Finish
22. Keene's Cement Finish
23. Cement Plaster - Smooth
23a. Cement Plaster - Sand
23b. Cement Plaster - Dash
24. Laminated Plastic
25. Acoustical Tile
26. Luminous Ceiling
27. Vinyl Wall Covering
28. Exposed Structure Painted
29. Epoxy Surface
30. Vermiculite Plaster
31. Exterior Plaster
32. Special Wall Finishing
33. Chain Link Fence, 8'-0" High
34. Concrete with Hardener
35. Chain Link Fence Above Block Wall to Structure

---

**Fire Rating of Partitions:**

I. 1-Hour
II. 2-Hours
III. 3-Hours
IV. 4-Hours

**Notes:**

A. Every stud and the wall finishes both sides extends to the underside of the roof or floor above.
B. Every stud and the wall finish one side only extends to the underside of the roof or floor above.
C. Every third stud extends to the underside of the roof or floor above.
D. Studs and wall finishes extend to the finish ceiling or as detailed.
E. Material No. 21 or No. 22 on concrete
F. Concrete Painted to 3'-6". Window Wall Above
G. Existing (Patch and/or Paint as required to match)

---

VIII-11
<table>
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<th>Floor</th>
<th>Base</th>
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Notes:
- CLG. = Ceiling Height
- NOTES: blank
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Preliminary Plan Package

VOCATIONAL TECHNOLOGY BUILDING CONSTRUCTION
AND EQUIPMENT

Santa Barbara City College
October 1, 1973

Preliminary Plans

Drawings are bound separately and are included with this application.
1. Site Plan
2. Main Level Floor Plan
3. Lower Level Floor Plan
4. Elevations
5. Sections
6. Roof Plan

PE-1 Electrical Site Plan