PRELIMINARY PLAN PACKAGE
October 15, 1971
Revised February 22, 1973

1972-73 Capital Improvement Program

SANTA BARBARA CITY COLLEGE

Vocational Technology Building

INTRODUCTION

This represents the Revised Preliminary Plan submittal for the Vocational Technology Building for Santa Barbara City College, for which workings funds have been requested in the 1972-73 State Budget. Construction and equipment have been requested in the 1974-75 budget year.

The project cost for which support is being requested in the 1974-75 budget year under the Junior College Construction Act of 1967 is estimated to be $1,150,269 at ENR Index 1850.

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The Marine Technology Laboratory has been omitted from this project as has all remodeling of existing spaces.

Because of the support nature of the Auto, Machine, Welding, and Marine Technology programs, approximately 600 ASF from Auto and 775 ASF of Marine Technology will be combined with the welding area to provide tool and material storage and a multi-use work area for all programs included in this project.
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**TOTAL BUILDING**

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Prepared by  Don Trent

Date  Revised February 22, 1973

* Projects work area is shared by Auto Service, Welding and Marine Technology
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The architectural firm of Daniel, Mann, Johnson, and Mendenhall have completely redesigned this project in accordance with the revised program.

1. Design Change

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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, Machine and Marine Technology to conserve space, improve circulation, and lower operational cost.
   c. No remodeling required.
   d. Diving Lab removed.
   e. Improved student circulation patterns.
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

PRELIMINARY PLAN COST ESTIMATE 1974-75
ALL COST @ ENR 1850

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

2. Plans
   A. Architect's fee for plans $  67,904
   B. Office of Architecture, plan check fee 3,953
   C. Community College, plan check fee 395
   D. Preliminary tests 2,000
   E. Other costs* Legal Advertising $600 725
   Total (Plans) Physically Handicapped $125
       $  74,977

3. Construction
   A. Utility service* 14,742
   B. Site development service* 17,000
   C. Site development general* 26,476
   D. Other site development* 4,235
   E. Reconstruction* 0
   F. New Construction (Building)
      (1) General Work $ 569,375
      (2) Mechanical 61,251
      (3) Plumbing 40,271
      (4) Electrical 115,449
   G. Other* 0
   Total (Construction) $  848,805

4. Tests and Inspection $8,077 + (1,250 x 12) 23,077

5. Contingency (5% of Item 3) 42,440

6. Total Building Project (Items 1 through 5 above) 989,299 b/

7. Furniture and movable equipment 160,970

8. Total project cost (Items 6 and 7) $ 1,150,269

*Define with detail description on attachment.

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<th>Total Building Project (Unit Cost)</th>
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Prepared by W. B. Jepson A.M.
Date February 22, 1973
CONSTRUCTION SCHEDULE

Submit revised Project Planning Guide for construction funds 1974-75
January 1973

Submit revised Preliminary Plan Package/W.D.
February 1973

Authorize working drawings
April 1973

Submit Preliminary Plan Package/Const. & Equip.
October 1973

Complete working drawings
December 1973

Advertise for bids
February 1974

Construction bids due
March 1974

Begin construction
March 1974

Equipment bids due
February 1975

Complete construction
August 1975

Deliver furniture and equipment
August 1975

Occupy
September 1975
JUNIOR COLLEGE CONSTRUCTION ACT OF 1967
1972-73
Preliminary Plan Package

VOCATIONAL TECHNOLOGY BUILDING

SANTA BARBARA CITY COLLEGE
Santa Barbara Community College District

October 15, 1971
Revised February 22, 1973
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   Statement to Accompany JCAF 31
   Diagram of Building Areas

IV. ESTIMATE OF COST
   Preliminary Plan Cost Estimate (JCAF 32)
   Cost Estimate Detail Sheets

V. CONSTRUCTION SCHEDULE

VI. STATEMENT REGARDING FEDERAL FUNDS

VII. CAMPUS PLOT PLAN

VIII. OUTLINE SPECIFICATIONS

IX. PRELIMINARY PLANS
    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
APPLICATION, ASSURANCES, AND AUTHENTICATION

District: Santa Barbara Community College
Project: Vocational Technology Building

College: Santa Barbara City College
Revised February 22, 1973
Budget Year 1972-73

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 THEREOF, 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  
(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.

(President of the Board of Trustees)

February 22, 1973  
(Date)

(Secretary of the Board of Trustees)

Attached is a copy of the Board Resolution substantiating the approval of the application and the making of the assurances by the Governing Board.
RESOLUTION NO. 27
SANTA BARBARA COMMUNITY COLLEGE DISTRICT

WHEREAS, the submission of Preliminary Plan Packages are required as part of the Ten Year Construction Plan (1974-74) 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 revised Preliminary Plan Package for the Vocational Technology Building dated February 22, 1973 to the Board of Governors of the California Community Colleges in accordance with the Assurances listed therein.

PASSED AND ADOPTED this 22nd day of February 1973, by the following vote of the Board of Trustees:

Ayes: Mr. Frank, Mr. Wells, Mrs. Alexander, Mr. Garvin, Mrs. Gutshall, Mrs. Meigs
Noes: None
Absent: Dr. Dobbs

Sidney R. Frank, President
Board of Trustees
Santa Barbara Community College District
PRELIMINARY PLAN PACKAGE
October 15, 1971
Revised February 22, 1973

1972-73 Capital Improvement Program

SANTA BARBARA CITY COLLEGE

Vocational Technology Building

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a. Classroom size increased for better campus-wide utilization. Fewer separate rooms required.

b. Combining tool and storage areas for Welding, Machine and Marine Technology to conserve space, improve circulation, and lower operational cost.

c. No remodeling required.

d. Diving Lab removed.

e. Improved student circulation patterns.
DIAGRAM OF BUILDING AREAS

SANTA BARBARA
DISTRICT COMMUNITY COLLEGE  |  COLLEGE SANTA BARBARA CITY COLLEGE
PROJECT VOCATIONAL TECHNOLOGY FACILITY
DMJM PROJECT NO. 31-1-45

BUILDING AREAS
① 32'-6" x 72'-3" + 53'-5" x 51'-0"
   + 10'-11" x 37'-0"
   = 5449

COVERED AREAS
② 9'-0" x 155'-3" x 1/2
   = 611
③ 10'-0" x 13'-3" x 1/2
   = 66

LOWER LEVEL (OSSF)
   = 6126
DIAGRAM OF BUILDING AREAS

SANTA BARBARA COMMUNITY COLLEGE

PROJECT VOCATIONAL TECHNOLOGY FACILITY

DMJMJ PROJECT NO. 51-1-45

BUILDING AREAS
1. 7'-10" x 41'-8" + 52'-4" x 50'-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

COVERED AREAS
4. 20'-2" x 29'-6" x 1/2 = 297
5. \( \frac{\pi r^2}{2} + (6'-0" x 23'-0" x 1/2) + \frac{\pi r^2}{2} + (6'-0" x 15'-6" x 1/2) = 172 \)

MAIN LEVEL (O.S.F.) 12,435

LOWER LEVEL (O.S.F.)

TOTAL OUTSIDE GROSS BUILDING AREA 18,561

PREPARED BY W. J. Lipton A.I.A.

DATE February 1977
PRELIMINARY PLAN COST ESTIMATE 1974-75
ALL COST @ ENR 1850

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

2. Plans
   A. Architect's fee for plans $ 67,904
   B. Office of Architecture, plan check fee 3,953
   C. Community College, plan check fee 395
   D. Preliminary tests 2,000
   E. Other costs* Legal Advertising $600 725
   Total (Plans) Physically Handicapped $125 $ 74,977

3. Construction
   A. Utility service* $ 14,742
   B. Site development service* 17,000
   C. Site development general* 26,476
   D. Other site development* 4,235
   E. Reconstruction* 0
   F. New Construction (Building)
      (1) General Work $ 569,375
      (2) Mechanical $ 61,251
      (3) Plumbing $ 40,271
      (4) Electrical $ 115,449
      Total (Construction) 786,352
   G. Other* 0
   Total Building Project (Items 1 through 5 above) $ 848,805

4. Tests and Inspection $8,077 + (1,250 x 12) 42,077

5. Contingency (5% of Item 3) 42,440

6. Total Building Project (Items 1 through 5 above) 989,299

7. Furniture and movable equipment 160,970

8. Total project cost (Items 6 and 7) $ 1,150,269

*Define with detail description on attachment.

<table>
<thead>
<tr>
<th>Project Data</th>
<th>Totals</th>
<th>Ratio</th>
<th>New Construction Unit Cost a/</th>
<th>Total Building Project Unit Cost b/</th>
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<td>Outside Gross Square Feet (OGSF)</td>
<td>18,439</td>
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<td>Assignable Sq. Feet (ASF)</td>
<td>13,179</td>
<td>.71%</td>
<td>59.67</td>
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Prepared by W.R. [Signature]
Date February 22, 1973
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
   848,805 @ 8% $67,904

B. Office of Architecture, Plan Check Fee
   New Construction $786,352
   Retaining walls -
   Exterior lighting 4,235
   (1) Structural fee $790,587 @ 1/2% $3,953
   (2) Physically handicapped fee 125 4,078

C. Community College, Plan Check Fee 790,587 @ 1/20% 395

D. Preliminary Test (soil test) 2,000

E. Other Costs (legal advertising) Total Plans 600 $74,977

3. CONSTRUCTION

A. Utility Service
   (1) Electrical
      (a) Trench & Backfill, 210 LF @ 1.65 $347
      (b) 4" C-3 #2/0 5kv Shielded, 210 LF @ 19.60 4,116
      (c) 2" C-3 #12 & 7 pairs, 210 LF @ 4.02 1,012
      (d) 3" C.O. 630 LF @ 4.01 3,030
      (e) Exterior Lighting 11 ea. @ 385.00 4,235
      Total - Electrical $12,740

   (2) Mechanical/Plumbing
      (a) Water: 2-1/2" P.V.C. Sch. 40, 155 LF @ 2.75 426
         2-1/2" Gate Valve & Box, 1 ea. @ 125 125
         2-1/2" Tap to Exist. 6" A.C. Main LS 75
         Pressure Regulator LS 150
3. CONSTRUCTION (Continued)

A. Utility Service (Continued)

(2) Mechanical/Plumbing (Continued)

(b) Sanitary Sewer: 6" V. C. P. 60 LF @ 5.75 $ 345
   Connect to Exist. LS 100
   Adjust M. H. 500
   (c) Gas: 1" R. V. C. Sch. 80 75 LF @ 2.75 206
   Tap to Exist. 4" Main LS 75
   Total - Mechanical
   Total - Utility Service $ 14,742

B. Site Development Service

(1) Demolition

(a) Concrete Apron 120 SF @ 0.50 60
(b) Asphalt Paving 21,000 SF @ 0.15 3,150
(c) Trees 2" to 4" Size -10 ea. @ 25.00 250
(d) Conc. Steps 120 SF @ 2.25 270
(e) 6' High Wood Fence 205 LF @ 1.50 308
(f) Catch Basin 1 ea. @ 75.00 75
(g) 6" Conc. Pipe 90 LF @ 1.25 113
   Total - Demolition $ 4,226

(2) Rough Grade

(a) Clear and grub, 38,700 SF @ 0.06 2,322
(b) Rough grade, 38,700 SF @ 0.03 1,161
(c) Excavation, 2,022 CY @ 0.75 1,517
(d) Fill and Compact, 1,038 CY @ 2.25 2,336
(e) Export Surplus, 984 CY @ 1.50 1,476
   Total - Rough Grading $ 8,812

(3) Storm Drains

(a) Catch Basins, 6 ea. @ 275.00 1,650
(b) 4" A. C. Pipe, 30 LF @ 3.75 113
(c) 6" A. C. Pipe, 20 LF @ 4.50 90
(d) 8" A. C. Pipe, 100 LF @ 4.75 475
(e) 10" A. C. Pipe, 78 LF @ 5.50 429
(f) 12" A. C. Pipe, 70 LF @ 6.50 455
(g) Water - Oil Separator - LS 750
   Total - Storm Drains $ 3,962

C. Site Development: General

(1) Paving and Walks

(a) 6" Conc. Pum't. 12,700 SF @ 0.70 8,890
(b) 2" Asphalt Pavement & 6" Base w/seal coat
   6,500 SF @ 0.45 2,925

IV-3
3. CONSTRUCTION (Continued)

C. Site Development: General (Continued)
   (1) Paving and Walks (Continued)
       (c) 6" A.C. Curb, 265 LF @ 1.00 $ 265
       (d) 2 x 4 Redwood Headers, 720 LF @ 0.55 396
       (e) Site Steps, 200 SF @ 10.00 2,000
           Total - Paving and Walks $14,476

   (2) Landscaping
       (a) Lawns & Planting, 15,000 SF @ 0.41 6,150
       (b) Irrigation, 15,000 SF @ 0.35 5,250
       (c) Finish Grading, 15,000 SF @ 0.04 600
           Total - Landscaping $12,000

       $26,476

D. Other Site Development 4,235

E. Reconstruction None

F. New Construction
   General Work
   (Arch. & Struct.) 18,561 SF @ 30.67 569,375
   Mechanical, 18,561 SF @ 3.30 61,251
   Plumbing, 18,561 SF @ 2.17 40,277
   Electrical, 18,561 SF @ 6.22 115,449
   Total - General Work $786,352

   Total - Construction Cost $848,805
CONSTRUCTION SCHEDULE

Submit revised Project Planning Guide for construction funds 1974-75  January 1973
Submit revised Preliminary Plan Package/W.D. February 1973
Authorize working drawings April 1973
Submit Preliminary Plan Package/Const. & Equip. October 1973
Complete working drawings December 1973
Advertise for bids February 1974
Construction bids due March 1974
Begin construction March 1974
Equipment bids due February 1975
Complete construction August 1975
Deliver furniture and equipment August 1975
Occupy September 1975
FEDERAL FUNDS

District: Santa Barbara Community College  
College: Santa Barbara City

Project: Vocational Technology Building

There are no Federal applications for funds pending on this project. All funding will be matching from the State of California Construction Act of 1967 and local bond funds.
SANTA BARBARA CITY COLLEGE

MASTER PLAN LEGEND

EXISTING BUILDINGS

A ADMINISTRATION
   (Convert Auditorium)
   (Graphic Arts Remodel)
B VOCATIONAL EDUCATION
C VOCATIONAL EDUCATION
D LIBRARY (Remodel)
E CAMPUS CENTER (Addition)
F LIFE SCIENCE/GEOLGY
G P.E. OFFICES/SHOWERS AND LOCKERS
H AUXILIARY GYMNASIUM/SHOWERS
   AND LOCKERS
J MAIN GYMNASIUM
K SCIENCE LABORATORIES
L SCIENCE LECTURE
M STADIUM AND OUTDOOR P.E.

FUTURE BUILDINGS

N HEALTH OCCUPATIONS
O HUMANITIES BUILDING
P PROPOSED PROJECT - VOCATIONAL TECHNOLOGY
Q DRAMA AND MUSIC FACILITIES
R AUXILIARY GYMNASIUM
S BUSINESS EDUCATION
T BUSINESS EDUCATION
U SOCIAL SCIENCE
V CLASSROOM CENTER
W PHYSICS/CHEMISTRY
X ENGLISH
Y CAMPUS CENTER ADDITION
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 "Vigilar" 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 interconnecting 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, equipment 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.

7. Telephone conduit system and outlets in offices and other designated areas.

8. Television conduit system and outlets in all teaching stations.
<table>
<thead>
<tr>
<th>Finish No. (Material List)</th>
<th>See Notes for Type, Size, Method of Application and Detail No.</th>
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</thead>
<tbody>
<tr>
<td><strong>CONCRETE EXPOSED</strong></td>
<td><strong>FIRE RATING OF PARTITIONS:</strong></td>
</tr>
<tr>
<td><strong>EXPOSED STRUCTURE UNPAINTED</strong></td>
<td>I. 1-HOUR</td>
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<tr>
<td><strong>CONCRETE PAINTED</strong></td>
<td>II. 2-HOURS</td>
</tr>
<tr>
<td><strong>CONCRETE WITH INTEGRAL COLOR</strong></td>
<td>III. 3-HOURS</td>
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<tr>
<td><strong>WOOD</strong></td>
<td>IV. 4-HOURS</td>
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<tr>
<td><strong>ASPHALT TILE</strong></td>
<td><strong>NOTES:</strong></td>
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<tr>
<td><strong>VINYL ASBESTOS TILE</strong></td>
<td>A. EVERY STUD AND THE WALL FINISHES BOTH SIDES EXTENDS TO THE UNDERSIDE OF THE ROOF OR FLOOR ABOVE.</td>
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<tr>
<td><strong>VINYL TILE</strong></td>
<td>B. EVERY STUD AND THE WALL FINISH ONE SIDE ONLY EXTENDS TO THE UNDERSIDE OF THE ROOF OR FLOOR ABOVE.</td>
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<tr>
<td><strong>CARPET</strong></td>
<td>C. EVERY THIRD STUD EXTENDS TO THE UNDERSIDE OF THE ROOF OR FLOOR ABOVE.</td>
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<td><strong>SPECIAL FLOORING</strong></td>
<td>D. STUDS AND WALL FINISHES EXTEND TO THE FINISH CEILING OR AS DETAILED.</td>
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<td><strong>QUARRY TILE</strong></td>
<td>E. MATERIAL NO. 21 OR NO. 22 ON CONCRETE</td>
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<td><strong>TERRAZZO</strong></td>
<td>F. CONCRETE PAINTED TO 3'-6&quot; WINDOW WALL ABOVE</td>
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<td><strong>CERAMIC TILE</strong></td>
<td>G. EXISTING (PATCH AND/OR PAINT AS REQUIRED TO MATCH)</td>
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<td><strong>CEMENT</strong></td>
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<td><strong>VINYL</strong></td>
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<td><strong>RUBBER</strong></td>
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<tr>
<td><strong>CONCRETE BLOCK, PAINTED TO 6'-0&quot;</strong></td>
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<td><strong>BRICK PAVER</strong></td>
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<tr>
<td><strong>5/8&quot; GYPSUM BOARD U.L.</strong></td>
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<td><strong>1-HOUR FIRE RATED</strong></td>
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<td><strong>1/2&quot; GYPSUM BOARD</strong></td>
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<td><strong>GYPSUM PLASTER - SMOOTH FINISH</strong></td>
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<td><strong>GYPSUM PLASTER - DASH FINISH</strong></td>
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<td><strong>KEENE'S CEMENT FINISH</strong></td>
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<td><strong>SPECIAL WALL FINISHING</strong></td>
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<td><strong>CHAIN LINK FENCE, 3'-0&quot; HIGH</strong></td>
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<td><strong>CONCRETE WITH HARDENER</strong></td>
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<td><strong>CHAIN LINK FENCE ABOVE BLOCK WALL TO STRUCTURE</strong></td>
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<tr>
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<td>Res. Center</td>
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<td>Storage</td>
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<td>Vestibule</td>
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<td>Men</td>
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<td>Women</td>
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<td>109</td>
<td>Lockers</td>
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<td>110</td>
<td>Custodian</td>
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<td>Gov. Passage</td>
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<tr>
<td>112</td>
<td>Mechanical</td>
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WALL OR CLG. FIN. NO. | WALL OR CLG. FIRE RATING | NOTES | WAINSCOT FINISH NO. | WAINSCOT OR CEILING HT.
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<th>Room</th>
<th>Floor</th>
<th>Base</th>
<th>North Wall</th>
<th>East Wall</th>
<th>South Wall</th>
<th>West Wall</th>
<th>Ceiling Height</th>
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<td>202 Corridor</td>
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<td>21 A</td>
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<td>203 Tool Storage</td>
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<td>209 Tool and Material Storage</td>
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<td>210 Welding Shop</td>
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WALL OR CLG. FIRE RATING: 21 - 1 - A
WALL OR CLG. FIN. NO.: 21 - 1 - A
WAINSCOT FINISH NO.: 5 - H - 1 - 6
NOTES: VIII-13
CEILING HT.: 9'-0"

BUILDING:
WALL OR CLG. FIRE RATING
WALL OR CLG. FIN. NO.
WAINSCOT FINISH NO.
NOTES
CEILING HT.
REvised
preliminary plan package
February 22, 1973

vocational technology building

Drawings are rolled separately and 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