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### PROJECT NUMBER

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<td>5701</td>
<td>Ingomar Junior High School</td>
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<td>5802</td>
<td>North Park Ice Skating Rink</td>
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Master Plan for long range development of semi-conductor Manufacturing Plan, in a campus type environment. Plan arranged for three phases of construction.
Research and development, pilot plant and manufacturing facilities were included in this complete master site plan. The first phase of the plan, a Materials Building with research facilities, was constructed in 1960.
PROJECT NAME: WESTINGHOUSE YOUNGWOOD
Youngwood Materials Building

PROJECT NO: 1002
PROJECT MANAGER: S. E. Zions
PROJECT DESIGNER: John Kozak

DATE OF DRS CONTRACT: March 23, 1960
DESIGN DOC. STARTED: May 10, 1960
DESIGN DOC. COMPLETED: 
CONTRACT DOC. STARTED: 
CONTRACT DOC. COMPLETED: 

OWNER: Westinghouse Electric Corporation

REQUESTING AGENCY: 

CONSULTANTS

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<td>General</td>
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<td>$675,000</td>
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6/26/69
Since 1958, DRSA has worked continually on the additions and renovations to the Presbyterian-University and Eye & Ear Hospitals, major components of the University Health Center Complex. During that time, no less than 36 separate projects have been executed ranging in size from a Hanging Microscope Investigation to the 153,000 square foot Front Wing Addition and covering, in scope, virtually every facet of the hospital function.

New or renovated facilities include everything from Patient Care Units to Surgical Suites, Clinical Labs, Diagnostic and Treatment Services, Kitchens, and Administrative Areas. Specialties include: Emergency Departments, Renal Dialysis, Coronary Care, Intensive Care, Rehabilitation, Radiology, and Bio Physics. In summary, it may be said, the DRSA Health Center Projects represent, in their totality, the complete renewal of a hospital.

**PROJECT DESCRIPTION:**
Alterations and additions to an existing hospital enabling it to assume the role as the major teaching and research hospital in the tri-state area.

**MECHANICAL SYSTEMS:**
Air-conditioning and laboratory exhaust system utilizing normal laboratory hoods with face velocities varying from 75 - 100 feet per minute. Laboratories were used for various biological and pathological functions. Atmospheric contaminants included ether, formaldehyde and other medical gases. Laboratory piping includes provisions for air, gas, oxygen, vacuum and acid waste and vent.

**AWARDS:**
- 1965 Construction Specifications Institute
  First Place - Category "P"
- Presbyterian-University Hospital
  Alterations and Additions

2/27/73
PROJECT NAME: ALCOA TECHNICAL CENTER  
Merwin, Pennsylvania

OWNER: Aluminum Company of America  
Alco Building  
Pittsburgh, Pa.

REQUESTING AGENCY: Harrison & Abramavitz Architects  
630 Fifth Avenue  
New York, New York

CONSULTANTS  NAME  ADDRESS  TELEPHONE

Architects  Harrison & Abramavitz  630 Fifth Avenue  
New York, New York  CO5-4884

Associated Architects  Deeter Ritchey  Four Gateway Center  
Pittsburgh, Pa.  15222  391-4850

Structural Engineer  

Mechanical Engineer  Syska & Hennessy  

5/30/69
**PROJECT NAME:** DUQUESNE CLUB  
Ground Floor Rehabilitation  
Pittsburgh, Pa.  

**OWNER:**  
Duquesne Club  
Sixth Street  
Pittsburgh, Pa. 15222  

**REQUESTING AGENCY:**  

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<td>M. L. Tepper</td>
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**PROJECT NO:** 1006  
**PROJECT DESCR:**  
**DATE OF DRS Contract**  
Documents Completed  
Bid Date  
Construction Start  
Construction Completed  
Total Cost  
Sq. Ft. Area  
Cost/SF  
Fee  

**7/7/69**
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<td>Carl J. Long</td>
<td>100 Fifth Avenue Building</td>
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<td>Charles F. Campbell, Inc</td>
<td>1340 Ridge Avenue</td>
<td>231-4343</td>
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<td>Coleman - Good, Inc.</td>
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PROJECT NAME: PRESBYTERIAN-UNIVERSITY HOSPITAL FRONT WING ADDITION

PROJECT NO: 1007.2
PROJECT MANAGER: A. H. Pfeider
PROJECT DESIGNER: L. H. Minnerly

Date of DRS Contract: 11/3/61
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 

Bld Date: 5/15/63
Construction Start: 8/63
Construction Completed: 9/65

Total Cost: $5,311,162.35
Sq. Ft. Area: 107,700 SF
Cost/SF: 49.31
Fee 7%
Total Cost Alterations $949,497.65
SF Area Alterations 45,000
Cost/SF Alterations $21.10
Fee Alterations 9%

CONSULTANTS

NAME
ADDRESS
TELEPHONE

Structural
DRS - E. V. Dotter
4 Gateway Center, Pgh.
391-4850

Plumbing
DRS - M. L. Tepper
4 Gateway Center, Pgh.
391-4850

HVAC
DRS - M. L. Tepper
4 Gateway Center, Pgh.
391-4850

Electrical
Borinfeck Engr., Inc.
711 Penn Ave. Bldg., Pgh.
391-5644

Electrical
Peter F. Loftus Corp.
Chamber of Commerce Bldg.
391-2280

Lighting Exterior
Stanley K. Petersen/John F.
Box 245, R.D. 2, Cheswick,
376-4283

Landscape
Simonds & Simonds (Maguire)
100 Ross St., Pgh.
261-3808

CONTRACTORS

Dick Corporation
Dick Corporation
P.O.Box 10896, Pgh.
462-5700

E.C. Ernst, Inc.
3424 Liberty Ave., Pgh.
621-6411

Sauer, Inc.
30 - 51st St. Pgh.
682-6408

Steel City Piping Co.
1231 Grove Rd., Pgh.
884-5559

The Fyr-Fyter Co.
1 Cedar Blvd., Pgh.
343-0755

The Powers Regulator Co.
2893 Banksville Rd., Pgh.
563-6600

COST DATA

ESTIMATE (as of: 4/63) BID (as of: 5/63 ) FINAL ( as of: 1/66 )

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL
$7,018,179.00 $6,932,357.00 $6,260,660.00

1/26/73

$40.99/SF
DESCRIPTION: Structural steel frame with poured concrete floor slabs. Site excavated two full floors below First Floor of the existing structure. Reinforced concrete footings generally rest upon solid rock bed.

Interior partitions consist of plastered gypsum lath on steel studs. Wood panelling in public waiting areas, ceramic tile in operating rooms, and plastic wall covering in recovery and intensive care units.

Floor materials range from vinyl tile in the corridors to conductive neoprene terrazzo in the operating rooms to carpet in the new Third Floor Nursing Unit.

Exterior of the building is a combination of tinted glass, and precast concrete panels with a medium rough texture.

This addition serves not only as the new Front Entrance to the Presbyterian-University Hospital and the Eye & Ear Hospital but it also becomes the Main Entrance and symbol of progress of the University Health Center of Pittsburgh. It contains new entrance facilities for emergency patients and visitors, admitting department, administrative offices, medical records and library, central supply and a whole body counter (low level radiation). While the main area is devoted to a 14 room operating suite with recovery room and intensive care unit, the addition also contains a physical therapy department, cardiac catheter laboratories and a 35 bed nursing unit.

CONVEYING SYSTEMS: The key to pedestrian traffic is two banks of escalators which move people between the two lower levels. Two new elevators and 7 refurbished ones handle the balance of the load and connect the new unit with the patient rooms. A dumbwaiter and a pneumatic-tube system deliver goods, supplies and messages throughout the Health Center Complex.

HVAC: New Addition is air conditioned throughout with individual controls in patient rooms and operating rooms, all in accordance with latest hospital standards.

PLUMBING: Oxygen and suction lines are piped to patient beds, and oxygen suction, air, and nitrous oxide are piped to each operating room.

FIRE PROTECTION: Standpipes to fire hose cabinets on each floor. Sprinklers in unoccupied areas.

ELECTRIC: Both fluorescent and incandescent lights have been used. New exterior lighting system was disregarded. Various systems such as paging, nurses call, doctors register and fire alarm have been extended to serve the whole hospital. A new system of snow melting by means of electric cables buried in the driveway has been installed from DeSoto to Lothrop Street. This was vital since our new entrance serves ambulances as well as automobiles and must be kept safe at all times.
AWARDS:

1967  Pennsylvania Society of Architects
      Honorable Mention
      Presbyterian-University Hospital
      Front Wing Addition

1964  Construction Specifications Institute
      Third Place - Division "A"
      Presbyterian-University Hospital
      Front Wing Addition
PROJECT NAME: PRESBYTERIAN UNIVERSITY HOSPITAL
Falk Clinic Alterations Phase I

OWNER: Presbyterian University Hospital
230 Lothrop Street
Pittsburgh, Pa. 15213

REQUESTING AGENCY:

CONSULTANTS

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>E. V. Dotter</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
</tr>
<tr>
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<td>Pittsburgh, Pa. 15222</td>
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<tr>
<td>Mechanical</td>
<td>M. L. Tepper</td>
<td>Four Gateway Center</td>
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<td>Pittsburgh, Pa. 15222</td>
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<tr>
<td>Electrical</td>
<td>Peter F. Loftus</td>
<td>400 Chamber of Commerce Bldg.</td>
<td>391-2280</td>
</tr>
<tr>
<td></td>
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<td>Pittsburgh, Pa. 15219</td>
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Contractors

<table>
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<tr>
<th>Contractors</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tbody>
<tr>
<td>General</td>
<td>F. J. Busse Company, Inc.</td>
<td>1575 Noblestown Road</td>
<td>921-1231</td>
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<tr>
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<td>Pittsburgh, Pa. 15220</td>
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<tr>
<td>Mechanical</td>
<td>Limbach Company</td>
<td>521 Pressley</td>
<td>471-0500</td>
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<tr>
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<td>Pittsburgh, Pa. 15212</td>
<td></td>
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<tr>
<td>Electrical</td>
<td>Hanlon Electric Company</td>
<td>414 Rodn Road</td>
<td>241-3900</td>
</tr>
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<td>Pittsburgh, Pa. 15235</td>
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PROJECT NO. 1007.4
PROJECT MANAGER W. B. Sloan
PROJECT DESIGNER

Date of DRS Contract Documents Completed 3/13/68
Bid Date 2/13/68
Construction Start 4/68
Construction Completed 5/69
Total Cost $1,109,522.00
Sq. Ft. Area 
Cost/SF - Not applicable to this project
**PROJECT NAME:** PRESBYTERIAN-UNIVERSITY HOSPITAL ALTERATIONS & ADDITIONS

**PROJECT NO:** 1007.8

**PROJECT MANAGER:** W. B. Sloan

**PROJECT DESIGNER:**

**OWNER:** Presbyterian-University Hospital
230 Lothrop St.
Pgh., Penna. 15213

**REQUESTING AGENCY:**

**CONSULTANTS** | **NAME** | **ADDRESS** | **TELEPHONE**
--- | --- | --- | ---

**COST DATA**

<table>
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<tr>
<th>GENERAL</th>
<th>ESTIMATE (as of: 8/14/64)</th>
<th>BID (as of: 12/1/64)</th>
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<td>$1,541,700.00</td>
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1/17/75
PROJECT NAME: PRESBYTERIAN-UNIVERSITY HOSPITAL
BRIDGE TO CHILDRENS HOSPITAL

OWNER: Presbyterian-University Hospital
230 Lothrop St.
Pittsburgh, Pa. 15213

CONSULTANTS:

CONSULTANTS NAME ADDRESS TELEPHONE

PROJECT NO: 1007.11
PROJECT MANAGER: J.F. Schonder
PROJECT DESIGNER:

Date of DRS Contract:
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:
Sq. Ft. Area:
Cost/SP:
Fee

COST DATA

ESTIMATE (as of: 9/64) $173,333.00
BID (as of: 4/65) $196,587.00
FINAL (as of: 1/7/73)

Included in Frost Wing-Clamp Order: 1007.2
PROJECT NAME: PRESBYTERIAN-UNIVERSITY HOSPITAL
PASSAGE TO FALK CLINIC

PROJECT NO: 1007.13
PROJECT MANAGER: C.J. Brooks
PROJECT DESIGNER:

OWNER: Presbyterian-University Hospital
230 Lothrop St.
Pittsburgh, Penna. 15213

REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE

COST DATA

ESTIMATE (as of: 6/66) BID (as of: 7/66) FINAL (as of: 12/67)

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL $236,143.00 $204,290.00 $214,717.00

1/7/73
PROJECT NAME: PRESBYTERIAN-UNIVERSITY HOSPITAL
DIAGNOSTIC RADIOLOGY EXPANSION

OWNER: Presbyterian-University Hospital
230 Lothrop Street
Pittsburgh, Pa. 15222

REQUESTING AGENCY: Same

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
<td>Structural Plumbing</td>
<td>Peter F. Loftus Corp.</td>
<td>Chamber of Commerce Bldg.</td>
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<td>HVAC</td>
<td>(Owner's Contultant)</td>
<td>Pittsburgh, Pa. 15219</td>
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CONTRACTORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Telephone</th>
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<tr>
<td>Landau Bros. Building Co.</td>
<td>125 First Avenue</td>
<td>261-5960</td>
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<td>Pgh., Penna. 15222</td>
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PROJECT NO: 1007.20
PROJECT MANAGER: J.D. Kling
PROJECT DESIGNER: J.D. Kling

Date of DRS Contract: October 12, 1970
Design Doc. Started: November, 1970
Design Doc. Completed: Continuing
Contract Doc. Started: Continuing
Contract Doc. Completed: Continuing
Bid Date: Continuing
Construction Start: Continuing
Construction Completed: Continuing
Total Cost: $200.00 (Actual)
Sq. Ft. Area: 13,250
Cost/SF: $200.00
Fee: Multiple
(2.85 X Direct Personnel Exp.)

COST DATA

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<td>$345,245.00</td>
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1/26/73
PROJECT NAME: PRESBYTERIAN-UNIVERSITY HOSP. 
SUNPORCH ADDITION
EAST WING
TENTH, ELEVENTH & TWELFTH FL.

OWNER: PRESBYTERIAN-UNIVERSITY HOSP.
230 Lothrop St.
Pittsburgh, Pa. 15213

REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE
Structural P. F. Loftus Corporation Chamber of Commerce Bldg. 391-2280
Pittsburgh, Pa. 15219
Plumbing P.F. Loftus Corporation Chamber of Commerce Bldg. 391-2280
Pittsburgh, Pa. 15219
HVAC P. F. Loftus Corporation Chamber of Commerce Bldg. 391-2280
Pittsburgh, Pa. 15219
Electrical P. F. Loftus Corporation Chamber of Commerce Bldg. 391-2280
Pittsburgh, Pa. 15219

* Original Contract for East Wing Extension and including Sunporches. This Project was dropped after Feasibility Study; DRSA authorized to proceed with Sunporches.

COST DATA
ESTIMATE (as of: 3/1/72) BID (as of: 4/22/73) FINAL (as of: )
GENERAL $138,000.00
PLUMBING 800.00
HVAC 3,200.00
ELECTRICAL 2,400.00

TOTAL $144,400.00 $118,700.00

4/16/73
### Project Information

**Project Name:** NEW BUILDING FOR DENTISTRY  
**University of Pittsburgh**

**Owner:** The General State Authority  
18th & Herr Sts.  
Harrisburg, Penna. 17120

**Requesting Agency:** University of Pittsburgh  
School of Dentistry  
William G. Fisher, Director  
Physical Plant

**Consultants**

<table>
<thead>
<tr>
<th>Consultant Type</th>
<th>Name</th>
</tr>
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<tbody>
<tr>
<td>Structural</td>
<td>R. M. Gensert Assoc.</td>
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<tr>
<td>Mechanical</td>
<td>M. L. Tepper, DRS</td>
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<td>Plumbing</td>
<td>M. L. Tepper, DRS</td>
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<td>Electrical</td>
<td>Edward Wiesmann</td>
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<tr>
<td>Landscape</td>
<td>Simonds &amp; Simonds</td>
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**Contractors**

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<tr>
<th>Type</th>
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<td>General</td>
<td>Dick Corporation</td>
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<tr>
<td>Mechanical</td>
<td>Schneider, Inc.</td>
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<td>Nass Corporation</td>
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<td>E.C. Ernst, Inc.</td>
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**Cost Data**

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<td>HVAC</td>
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<tr>
<td>Electrical</td>
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</tbody>
</table>

**Total** $3,121,634.00 $3,204,319.00 $3,481,798.00

1/26/73
UNIVERSITY OF PITTSBURGH
SCHOOL OF DENTISTRY
PITTSBURGH, PENNSYLVANIA

DRSA #1008

CLIENT: The General State Authority

LOCATION: Terrace Street at Darragh
University of Pittsburgh
Pittsburgh, Pa.
New Wing to present Salk Hall

CAPACITY: 236 Dental Chairs in Clinic Areas

AREA: Improved Site 53,440 Sq. Ft.

VOLUME: 95,082 Sq. Ft.
1,337,200 Cu. Ft.

PROJECT DESCRIPTION: Three story, concrete frame structure providing examination diagnostic and surgical areas; six clinical areas of 20 to 32 chairs, X-ray rooms and seminar rooms.

Rooms: General Reception Area-3 levels, Office area, Examination and Diagnostic area, Surgical Area, Six clinical areas of 20 to 32 chairs, Laboratory/Research Area, Seminar Area

Description: Structural Concrete Frame and Floor System. Brick exterior and interior in general areas. Metal stud and plaster partitions in minor areas. Transom windows in interior partitions.

Floors: Terrazzo in First Floor Lobby. Vinyl asbestos resilient tile floors general areas. Ceramic tile, toilet areas. Cement fill or Concrete in Service Areas.

Walls: Brick, block and block plastered, general areas. Glazed structural facing tile in toilet areas.

Ceiling: Suspended acoustic tile-ventilating ceiling system and exposed concrete structure. Fixed glazing through, floor to ceiling with 1/4" Solar Bronze glass.

Mechanical: Heating and air-conditioning thru acoustic-ventilating ceiling.

Electrical fixtures, recessed fluorescent throughout.

Two passenger elevators, one records lift and records chute.

MECHANICAL SYSTEMS: New dental techniques required the design of an extensive compressed air system and a low vacuum (less than 8 inches mercury) oral evacuation system. Laboratory equipment required custom design of heat hoods, as well as use of normal laboratory hoods. Air condition distribution system was double-duct utilizing a perforated ceiling for space distribution. The chilled water system was designed to be operational year-round.
University of Pittsburgh, Dental School.

This building is a 95,000 sq. ft. new wing addition to Salk Hall on the University of Pittsburgh Medical Campus. The three-story structure includes offices, examination and diagnostic areas, and seminar facilities.

The basic organizational element for the building was the functional module developed for the Clinical Areas. This 23'-0" module, containing 8 work areas, was the result of coordinating the criteria for Dental functions with Structural, Mechanical, and Plumbing requirements.

A new concept in the Dental Function itself was developed in conjunction with the design of the individual work stations. The traditional stationary equipment module was replaced by a mobile unit capable of functioning from any position around the dental chair, or being stored in a recess along the casework wall. This mobility was accomplished by the development of an umbilical cord connection from the unit to a preset floor box, under the chair, containing full water, air, vacuum and electric services. Exterior materials and scale reiterate those of the existing structures.
PROJECT NAME: UNIVERSITY OF PITTSBURGH MENS DORMITORIES
                             (TOWER DORMS)

OWNER: University of Pittsburgh
       Cathedral of Learning
       Pittsburgh, Pa. 15213

REQUESTING AGENCY: Housing and Home Finance Agency, Washington, D.C.
                      Project No. PA 36-CH-91(D)

CONSULTANTS

Structural Martin C. Knabe, Inc.
Mechanical John Mullin & Assoc.
Plumbing Parros & Cost, Inc.
Electrical Carl Long & Assoc.
Landscape Simonds & Simonds
Architect Stacey Keates Assocs.
Facilities

Soil Analysis A.C. Ackenheil

CONTRACTORS

General Dick Corporation
Mechanical Sauer, Inc.
Plumbing Sauer, Inc.
Electrical E.C. Ernst, Inc.
Landscaping South Hills Nurseries
Food Facilities Tyson Metal Products, Inc.

PROJECT NO: 1011
PROJECT MANAGER: S.E. Zientz
PROJECT DESIGNER: H.B. Grant

Date of DRS Contract: 2/2/60
Design Doc. Started: 2/2/60
Design Doc. Completed: 2/2/60
Contract Doc. Started: 2/2/60
Contract Doc. Completed: 2/2/60
Bid Date: 6/28/61
Construction Start: 8/1/61
Construction Completed: 7/30/63
Total Cost: $11,573,414.00
Sq. Ft. Area: 495,110 SF
Cost/SF: $23.37 SF
Fee: 5%
Cu. Ft. Volume: 4,400,000 CF

ADDRESS

TeLePHONE

300 Mt. Lebanon Blvd.
Pittsburgh, Penna. 531-7676
Keystone Building, Pgh.Pa. 281-6077
1014 West Penn Blvd., Pgh. Penna.
233 Oliver Bldg.Pgh., Penna. 471-9100
100 Ross St., Pgh., Pa.
908 Penna. Blvd.
Pgh., Pa. 15228 531-5397
1000 Banksville Road 531-7111

COST DATA

ESTIMATE (as of: 7/61)  BID (as of: 8/61 )  FINAL (as of: 1/64)
GENERAL $7,987,414
PLUMBING $660,000
HVAC $1,400,000
ELECTRICAL $981,000
BUILT-IN FURNITURE $545,000

TOTAL $10,778,822.00 $10,929,222.00 $11,573,414.00

1868 students @ $6,195.61 per student

3/2/73
The University of Pittsburgh is constructing an unusual dormitory structure comprised of three cylindrical towers designed to accommodate 1,433 undergraduate and 435 graduate students and have scheduled occupancy for the fall semester of 1963. The towers are located within a few hundred yards of the University's towering "Cathedral of Learning".

Pittsburgh architects, Deeter & Ritchey, designers of the dormitory complex, decided on the unique cylindrical shape for several reasons. First, they had to shape a limited and irregular space in a built-up urban area surrounding the University to accommodate a large number of students. Secondly, this approach created an airy space between the towers with garden terraces, promenades and an open view not obtainable with typical rectangularly shaped buildings. Third, the circular floor area provided for maximum utilization of space within each tower.

The smallest of the three structures, the 15-story tower on the northwest side of the site, will house 435 graduate students and the 18 and 21-story towers will provide facilities for 666 and 767 undergraduate students respectively.

The architects have maintained the traditional university concept of a student house, comprised of students and counselor, by dividing the two undergraduate areas into "houses" of three stories. Thus, one tower will contain six houses, the other, seven — each comprised of 110 students and a counselor.

In order to help maintain intramural integrity within these student houses, elevators will stop only at the center floor of each three-storied unit, providing entry only through the activity center. This area contains counselor accommodations, study space, snack bar, lounge and recreation facilities belonging to that house only. The remainder of the floor and each of the other two floors in the "house unit" are devoted to single and double rooms for students.

Entrance to the dormitory will be from a landscaped promenade deck or terrace which will surround the structures and serve as an outdoor area common to all three towers. This terrace is also joined to the Schenley Quadrangle, an apartment complex recently remodelled by the University to provide additional student dormitories, and is staffed by members of the BSEIU Local Union No. 29, as will be the new dormitories.

AWARDS:

1960 Pennsylvania Society of Architects
Honor Award in Multiple Residential Architecture
University of Pittsburgh Men's Dormitories
DESCRIPTION: Poured-in-place reinforced concrete structure consisting of three cylindrical towers of 15, 18 and 21 stories, connected at the First Floor by a Lobby and Lounge Area which opens to a landscaped promenade deck. Each of the three towers is topped by a Penthouse and a perimeter Sun Deck. The structure is supported on drilled caissons.

Each of the towers has a central core which houses three elevators, a (pair) scissors Stairs, Toilets and Showers, Janitors Closets, and mechanical ducts and pipes.

Exterior of the building is covered with limestone facing and channel shaped precast concrete panels matching the limestone. Interior finished include plaster, fabric wall covering, ceramic tile, flazed tile, face brick, concrete block and concrete at walls; plaster, acoustical tile and exposed structural concrete at ceilings; and terrazzo, ceramic tile, quarry tile and resilient tile at floors. Doors to Bed Study Rooms have Micarta facing. Exterior doors and windows are aluminum.

The Dormitory houses 1,868 students, consisting of 1,433 undergraduate and 435 graduate students. The two undergraduate towers are divided into houses of three stories, each having 110 students and a counsellor.

ELEVATORS: All nine elevators are 3,000 lb, 500 SPM, and automatically controlled. Elevators serve every third Dormitory floor, first floor and the two lower floors. Intermediate floors may be served by key operation of the middle elevator in each group.

HVAC: The building is provided with heating and cooling at all floors except for Penthouses and the Garage Level. Cooling tower is located in Penthouse atop one of the towers. A limited amount of fresh air is supplied to each of the Bed Study Rooms and exhausted through the Toilet and Shower Rooms on each floor. 100% fresh air is supplied to the Dining Area and exhausted through the Kitchen. The Garage Level is provided with a separate exhaust system.

PLUMBING: All three floors of the graduate tower; provisions for the handicapped is incorporated into the design of one water closet compartment, one laboratory and one shower or tub. Domestic water is divided into two zones with electrically operated pumps to maintain suitable pressure.

FIRE PROTECTION: Fire hose cabinets are provided at entrance to the two stairs in each tower, and elsewhere at the lower floors. Sprinkler system is provided at the Garage Level.

ELECTRICAL: Fluorescent and incandescent lighting. Emergency lighting is provided by introducing power from two substations Telephone conduit system to each Bed Study Room. Sound system at lower levels. Fire alarm system connected to City.
PROJECT NAME: EYE AND EAR HOSPITAL
WEST WING ADDITION

OWNER: Eye & Ear Hospital
230 Lothrop St.
Pittsburgh, Penna. 15213

REQUESTING AGENCY:

CONSULTANTS
Structural Robert DePierre
Mechanical M. L. Tepper, DRSI
Theodore F. Rockwell
Electrical Carl J. Long, Assoc.
Peter F. Loftus Corp.

PROJECT NO: 1012
PROJECT MANAGER: Charles J. Brooks
PROJECT DESIGNER: L. H. Minnerly

Date of DRS Contract: 4/21/61
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date: 6/22/62
Construction Start:
Construction Completed: 2/1/64
Total Cost: $2,710,808.00
Sq. Ft. Area: 80,000 SF
Cost/SP: $33.88 SF
Fee

ADDRESS
Oliver Building
Pgh., Penna. 15222
Four Gateway Center Pgh., Pa. 391-4850
233 Oliver Ave., Pgh., Pa.

TELEPHONE
261-2871
471-9100
391-2280

CONTRACTORS
General Dick Corporation
Mechanical Wayne-Crouse, Inc.
Electrical E. C. Ernst Corp.

ADDRESS
Large, Penna.
3370 Stafford St.
Pgh., Penna. 15204
3424 Liberty Ave.
Pgh., Pa.

TELEPHONE
462-5700
771-5176
631-6411

COST DATA

ESTIMATE (as of: 1/61) BID (as of: 6/62) FINAL (as of: 2/64)
10% increase in scope

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL

$1,734,360.00

$1,554,200.00

$2,710,808.00

1/17/73
PROJECT NAME: EYE & EAR HOSPITAL  
(General Review)

OWNER: Eye & Ear Hospital  
230 Lothrop St.  
Pittsburgh, Pa. 15213  
Lyle W. Byers, Executive Director

REQUESTING AGENCY: None (N.I.H.)

CONSULTANTS NAME ADDRESS TELEPHONE
Structural E. V. Dotter DRS-4 Gateway Center, Pgh., Pa. 391-4850
Mechanical M. L. Tepper DRS-4 Gateway Center, Pgh., Pa. 391-4850
Plumbing M. L. Tepper DRS-4 Gateway Center, Pgh., Pa. 391-4850
Electrical Peter F. Loftus Chamber of Commerce Bldg. 391-2280
Sam Lyon

CONTRACTORS:
General Dick Corporation Large, Pa. 462-5700
Mechanical Wayne Crouse Inc. One Oliver Plaza Bldg., Pgh., Pa. 261-7897
Plumbing Steel City Piping 3424 Liberty Avenue., Pgh. Pa. 621-6411
Electrical Ernst Electric

CORRESPONDENCE:
Dick Corporation  
Ray Volpatt

NOTE - The General remodeling of the entire building, at this time, is being done in small portions. Attached is a contract list which shows all active and inactive Projects.
DESCRIPTION - **Existing Structure**  
Steel structure with exterior limestone walls, tile and concrete floor slabs and tile and plaster interior walls.

New work being done with metal stud and plaster walls. Mineral fiber hung ceilings in corridor.

**New Structure - West Wing 1012 and 1007.8**  
Steel structure with exterior limestone, concrete slabs and metal stud and plaster interior partitions.

USE - Patient areas, offices, storage and nurses work areas.

ELEVATORS - 2 existing, 2 new  
2,000 lb. capacity 350 F.P.M.

HVAC - Central hot water and chilled water systems existing radiators new West Wing convector units.

PLUMBING - Existing systems and down feed in West Wing.

FIRE PROTECTION - Wet system - Standpipe in stair towers.  
Fire extinguishers all floors in nurses stations.

ELECTRICAL - Switch gear rooms in basement. Fire alarms in all areas.  
Telephone switch boards. Incandescent and fluorescent lighting.  
Emergency power.
10/61 * 1012  Eye and Ear Hospital
  * 1012-1  "  "  "  Biophysics and Eye Research - 10th Floor
  * 1012-2  "  "  "  Temporary Facilities
  * 1012-3  "  "  "  Snack Bar
  * 1012-4  "  "  "  5th & 6th Floors - West Wing
  1012.5  "  "  "  Alterations 4th thru 10th Floors
  2/67  1012.5A  "  "  "  Fourth Floor Alterations
  * 1012.6  "  "  "  Changes to Rockwell's Mechanical Design on West Wing Add.
    1012.6A  "  "  "  Cooling Cycle
  6/66 * 1012.7  "  "  "  Storage Room Alterations
  6/66 * 1012.8  "  "  "  10th Floor Office Alterations
  8/66 * 1012.9  "  "  "  Storage Room 124 Alterations
  8/66 * 1012.10  "  "  "  Linen Storage Room 125 Alterations
  9/66 * 1012.11  "  "  "  Porch Windows and Roofs (Roof portion Only) to be finished 1968
  10/66 * 1012.12  "  "  "  Sprinkler Head at Existing Linen Room E-209
  11/66 * 1012.13  "  "  "  Fourth Floor Nurses' Station
  2/67 * 1012.14  "  "  "  Elevators 2 and 3 Alterations
  2/67 * 1012.15  "  "  "  Pathology Department -10th Floor
  2/67  1012.16  "  "  "  Emergency Facilities - Study
  6/67  1012.17  "  "  "  Ninth Floor Alterations
  7/67  1012.18  "  "  "  Seventh Floor Alterations (By Owner)

* Completed
PROJECT NAME: EYE AND EAR HOSPITAL
Eye Pathology

OWNER: Eye and Ear Hospital
230 Lothrop Street
Pittsburgh, Pa. 15213

REQUESTING AGENCY: Mr. Lyle Byers
Executive Administrator
Eye and Ear Hospital

CONSULTANTS

Electrical
Peter F. Loftus Corp.
Mr. S. Lyon

Mechanical
Peter F. Loftus Corp.
M. R. Christopher

Contractors
St. Charles Custom Kitchens
450 Colhman Road
Mr. Ralph Isner
(Casework)
Easily and Rivers
Mr. Dan Belli
(Plastering)

ADDRESS
Chamber of Commerce Bldg.
Pittsburgh, Pa. 15219
Chamber of Commerce Bldg.
Pittsburgh, Pa. 15219
450 Colhman Road
Pittsburgh, Pa. 15228
Townsend Drive
Monroeville, Pa. 15146
(Moved new address unlisted)

TELEPHONE
391-2280
391-2280
341-5030
242-9510

6/27/69
<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
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<th>TELEPHONE</th>
</tr>
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<tbody>
<tr>
<td>Electrical Engineer</td>
<td>Peter F. Loftus</td>
<td>900 Chamber of Commerce Bldg.</td>
<td>391-2280</td>
</tr>
<tr>
<td></td>
<td>Sam Lyon</td>
<td>Pittsburgh, Pa. 15219</td>
<td></td>
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<tr>
<td>Mechanical Engineer</td>
<td>Peter F. Loftus</td>
<td>900 Chamber of Commerce Bldg</td>
<td>391-2280</td>
</tr>
<tr>
<td></td>
<td>Robert Christopher</td>
<td>Pittsburgh, Pa. 15219</td>
<td></td>
</tr>
<tr>
<td>Contractor</td>
<td>General</td>
<td>Nass Corporation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>801-811 V Street</td>
<td>322-2300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pittsburgh, Pa. 15212</td>
<td></td>
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</table>
PROJECT NAME: EYE & EAR HOSPITAL
TENTH FLOOR ALTERATIONS
OPTOMETRY

OWNER: Eye & Ear Hospital
230 Lothrop Street
Pittsburgh, Penna. 15213

REQUESTING AGENCY:

CONSULTANTS NAME
Structural Peter F. Loftus Corp.
Plumbing (Owner's Consultant)
HVAC Chamber of Commerce Building 391-2280
Electrical Pgh., Penna. 15219

TRACTOR
Mellen Stuart Company
1425 Beaver Ave.
Pgh., Pa. 15233

PROJECT NO: 1012.24 & 1012.24A
PROJECT MANAGER: J.D. Kling
PROJECT DESIGNER: T.L. Stanton

Date of DRS Contract: 
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 
Bid Date: 
Construction Start: 10/1/71 
Construction Completed: 6/30/72
Total Cost: $204,720.39
Sq. Ft. Area: 3,150
Cost/SF: $65.00
Fee $18.00/Hr.

ADDRESS TELEPHONE

COST DATA

ESTIMATE (as of: 3/1/71) BID (as of: 10/5/71) FINAL (as of: 6/30/72)

GENERAL

1012.24 $120,000.00 $191,766.00 $209,997.39
1012.24A 4,723.00 4,723.00

1/26/73
**PROJECT NAME:** WASHINGTON PLAZA APARTMENTS  
(BUILDING A)  
Centre Ave., Crawford St. &  
Colwell St., Pittsburgh, Pa.

**OWNER:** ALCOA RESIDENCES, INC.

**REQUESTING AGENCY:** Federal Housing Administration  
Washington, D.C., FHA No. 033 32001  
for Alcoa Residences, Inc.

**CONSULTANTS**

<table>
<thead>
<tr>
<th>NAME</th>
<th>OWNER &amp; ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architect</td>
<td>I.M. Pei &amp; Associates</td>
</tr>
<tr>
<td>Structural</td>
<td>R.M. Gensert &amp; Associates</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Mullin &amp; Waida &amp; Co.</td>
</tr>
<tr>
<td>Plumbing</td>
<td>Parros &amp; Cost, Inc.</td>
</tr>
<tr>
<td>Electrical</td>
<td>Carl Long &amp; Assoc.</td>
</tr>
<tr>
<td>Landscaping</td>
<td>Simonds &amp; Simonds</td>
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**CONTRACTORS**

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<tr>
<td>General</td>
<td>5917 Penn Ave., Pgh. 361-2600</td>
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<tr>
<td>Mechanical</td>
<td>521 Pressley Ave., Pgh. 471-8000</td>
</tr>
<tr>
<td>Plumbing</td>
<td>3370 Strafford St., Pgh.</td>
</tr>
<tr>
<td>Electrical</td>
<td>3424 Liberty Ave., Pgh. 621-6411</td>
</tr>
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<td>Landscaping</td>
<td>219 E. Pearl, Butler 287-3703</td>
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**AWARDS**

1964 Federal Housing Authority  
Award for Residential Design  
Alcoa Properties, Inc.  
Washington Plaza Apartments

**COST DATA**

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<th>CATEGORY</th>
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<td>GENERAL</td>
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<td>$7,099,160.00</td>
<td>$7,385,454.00</td>
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</table>

1/26/73
DESCRIPTION: Poured-in-place concrete frame with exterior surface of the concrete providing the finished face of the building. Flat slab floor construction supported on two interior shear walls and exterior walls. Windows are Duranodic Aluminum with Solar Bronze plate glass. Built-up roofing over 1-1/2" insulation.

Apartments - Plaster walls and ceilings, and asphalt tile floors, except for vinyl asbestos tile floors in Kitchens, and ceramic tile at tubs and floors in Bath Rooms. Corridors-Plaster walls and ceilings and carpeted floors.

Vestibule and Lobby - Plaster ceiling, Travertine marble walls and carpeted floor. Doors, mail boxes, telephone directory panels, etc., are Duranodic aluminum.

Three garage levels, provide attendant parking for 396 cars. Three basement levels provide central laundry facilities, incinerator room and dead storage. Some commercial area is provided at Ground Floor and First Basement.

Large Plaza and turn around provided at Ground Level above Garage Area.

ELEVATORS: Four 2,000 lb. capacity, 350 FPM.

HVAC: Rooms are heated and cooled by High Boy Units located at interior shear walls with auxiliary radiation at exterior walls. Bath Rooms and Kitchens are exhausted by two separate systems. Corridors are supplied with hot or cool air (pressurized).

Lobby and Vestibule have separate air-conditioning unit. Commercial Area will be heated and cooled by individual units.

Single central Heating and Chilled Water Plant at Third Basement Level with provision for future buildings "B" and "C". Cooling Tower on roof of building with provision for future buildings.

PLUMBING: Water to Apartments divided into two zones with electrically operated pumps to maintain required pressure. Downfeed water systems.

FIRE PROTECTION: Both dry and wet systems included with provisions for future Buildings "B" and "C". Standpipe at all Stair Towers with fire hose cabinets at all floor levels.

ELECTRIC LIGHT & POWER: Transformer Vault which will have provision for future Building "C". Fire Alarm System with connection to City. Apartment Telephone System, and Television Antenna System. Incandescent lighting.
**PROJECT NAME:** Washington Plaza Swimming Pool Pittsburgh, Pennsylvania

**OWNER:** Alcoa Properties, Inc.
Three Allegheny Center Pittsburgh, Penna. 15213

**REQUESTING AGENCY:** Alcoa Properties, Inc.

**CONSULTANTS**
- Structural: DRS - E. V. Dotter
- Mechanical: DRS - M. L. Tepper
- Plumbing: DRS - M. L. Tepper
- Electrical: DRS - C. Penaifield
- Landscaping: DRS - E. Koudela

**DATE OF DRS CONTRACT:** 3/12/65

**PROJECT NO.:** 1018.19

**PROJECT MANAGER:** F. Knoble

**PROJECT DESIGNER:**

**DATE OF DRS CONTRACT:** 3/12/65

**DESIGN DOC. STARTED:**

**DESIGN DOC. COMPLETED:**

**CONTRACT DOC. STARTED:**

**CONTRACT DOC. COMPLETED:**

**BID DATE:** 5/65

**CONSTRUCTION START:**

**CONSTRUCTION COMPLETED:**

**TOTAL COST:** $198,000.00

**SQUARE FT. AREA:** N/A

**COST/SF:** N/A

**FEE:** N/A

**AS OF 8/65**

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Gateway Center</td>
<td>391-4850</td>
</tr>
<tr>
<td>4 Gateway Center</td>
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<tr>
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**COST DATA**

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<td>$117,758.00</td>
<td>$111,312.00</td>
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<tr>
<td>ELECTRICAL</td>
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</table>

**TOTAL** $117,758.00 $111,312.00 $198,000.00

1/27/73
**PROJECT NAME:** Beckwith Machinery Company
Office Building & Plant
Route 22
West Newton, Pennsylvania

**OWNER:** Beckwith Machinery Company
Route 22
West Newton, Pennsylvania

**CONSULTANTS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Engineer</td>
<td>Theodore F. Rockwell 233 Liberty Avenue Pittsburgh, Pa. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Mechanical Engineer</td>
<td>M. L. Tepper Four Gateway Center Pittsburgh, Pa. 15222</td>
<td>471-9100</td>
</tr>
<tr>
<td>Electrical Engineer</td>
<td>Carl J. Long 100 Fifth Avenue Building Pittsburgh, Pa. 15222</td>
<td>462-7070</td>
</tr>
</tbody>
</table>

**PROJECT NO.** 1021 D&K 5914
**PROJECT MANAGER** S. E. Zionts
**PROJECT DESIGNER** J. Kozak

**Date of DRS Contract**
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost $803,700.00
Sq. Ft. Area 53,000 SF
Cost/SF $15.16 per SF

**FEES**

**CONSULTANTS**

<table>
<thead>
<tr>
<th>General</th>
<th>L. D Building Co. P.O. Box 472 Latrobe, Pa.</th>
<th></th>
<th></th>
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</table>

8/13/69
**PROJECT NAME:** UNIVERSITY OF PITTSBURGH BOOK STORE  
Fifth Avenue  
Pittsburgh, Pa.

**OWNER:**  
University of Pittsburgh  
Cathedral of Learning  
Pittsburgh, Pa.

**REQUESTING AGENCY:**  
Physical Plant  
University of Pittsburgh

**CONSULTANTS**  
<p>|</p>
<table>
<thead>
<tr>
<th><strong>NAME</strong></th>
<th><strong>ADDRESS</strong></th>
<th><strong>TELEPHONE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Engineer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Mechanical Engineer | M. L. Tepper | DRS Four Gateway Center  
Pittsburgh, Pa.  15222 | 391-4850 |
| Electrical Engineer | Hornfeck Engineering | 711 Penn Avenue Bldg.  
Pittsburgh, Pa.  15222 | 381-0360 |
| Store Design & Merchandise Engineer | Henery Berry Associates, Inc. | 316 East Silver Spring Drive  
Milwaukee, Wisconsin |

**Contractors**  
<p>|</p>
<table>
<thead>
<tr>
<th><strong>TYPE</strong></th>
<th><strong>NAME</strong></th>
<th><strong>ADDRESS</strong></th>
<th><strong>TELEPHONE</strong></th>
</tr>
</thead>
</table>
| General | O. H. Martin Company | 18 First Street  
Pittsburgh, Pa.  15215 |
| Mechanical | W. J. Keist & Sons, Inc | 322 Perryville Road  
Pittsburgh, Pa.  15229 |
| Electrical | Ross Electrical | 506 South Milvale  
Pittsburgh, Pa.  15224 |
PROJECT NAME: ALLEGHENY GENERAL HOSPITAL
EAST WING ADDITION

OWNER: Allegheny General Hospital
320 East North Ave.
Pgh., Penna. 15212

REQUESTING AGENCY: Same

CONSULTANTS  NAME
Structural  Martin C. Knabe
Plumbing & HVAC  Theo. F. Rockwell, Inc.
Electrical  Carl J. Long

CONTRACTOR  General  Mellon-Stuart Co.

PROJECT NO: #1024 (Construction)
PROJECT MANAGER: A. Fiedler

Date of DRS Contract:  
Design Doc. Started:  
Design Doc. Completed:  
Contract Doc. Started:  
Contract Doc. Completed:  
Bid Date:  
Construction Start:  
Construction Completed: 1960
Total Cost: $2,300,000.00
Sq. Ft. Area: 81,000 SF
Cost/SF: $28.50
Fee  Cost + 40 O.H.
161 Beds 14,200/Bed

ADDRESS  TELEPHONE
945 Oliver Bldg.  261-2871
233 Oliver Ave.
Pgh., Pa. 15222  281-2840
233 Oliver Ave.
Pgh., Pa. 15222  471-2100
1425 Beaver Ave.
Pgh., Pa. 15233  322-0800

COST DATA
ESTIMATE (as of:  )  BID (as of:  )  FINAL (as of:  )

GENERAL
PLUMBING
HVAC
ELECTRICAL

TOTAL
1/26/73  $2,300,000.00  $2,200,000.00
1024 ALLEGHENY GENERAL HOSPITAL
EAST WING ADDITION

DESCRIPTION: New Maternity Wing containing:

106 Adult beds
146 Regular bassinets (counted as 1/3 bed)
20 Premature bassinets (counted as 1/3 bed)
161 Total Beds

Facility also contains:

10 Labor rooms
4 Delivery rooms
  Individual nurseries - 6 to 8 bassinets each
  Suspect nurseries
  Isolation nurseries
  Premature nurseries
  Formula Room

STRUCTURE: Structural steel frame - poured concrete floor slabs - brick exterior masonry walls - aluminum and glass window wall - metal and plaster partitions - conductive terrazzo floor in delivery rooms and labor rooms - vinyl floor covering elsewhere - acoustical tile ceiling in corridors, work areas and classrooms - built-up roofing - paint or vinyl fabric wall covering - entire wing heated and air conditioned by dual duct system - gases piped in - fluorescent lights recessed - elevators, automatic pneumatic tube system.

1/26/73
**PROJECT NAME:** ALLEGHENY GENERAL HOSPITAL  
Alterations & Additions to Food Facilities

**OWNER:** Allegheny General Hospital  
320 East North Avenue  
Pittsburgh, Pa. 15212

**REQUESTING AGENCY:**

<table>
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<tr>
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<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
<td>Structural Engineer</td>
<td>Martin C. Knabe</td>
<td>945 Oliver Bldg.</td>
<td>261-2871</td>
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<tr>
<td>Mechanical Engineer</td>
<td>Theo. F. Rockwell, Inc</td>
<td>233 Oliver Avenue</td>
<td>281-2840</td>
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<tr>
<td>Electrical Engineer</td>
<td>Carl J. Long</td>
<td>100 Fifth Avenue</td>
<td>471-9100</td>
</tr>
<tr>
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**PROJECT NO.** 1025 (5817)  
**PROJECT MANAGER**  
**PROJECT DESIGNER**

Date of DRS Contract  
Documents Completed  
Bid Date  
Construction Start  
Construction Completed  
Total Cost  
Sq. Ft. Area  
Cost/SF  
Fee

6/27/69
**PROJECT NAME:** FOUR GATEWAY CENTER  
Office Building  
Pittsburgh, Pa.  

**OWNER:** Equitable Life Assurance Society  
Gateway Center  
Pittsburgh, Pa. 15222  

**REQUESTING AGENCY:** Harrison & Abramovitz  
Architects  
630 Fifth Avenue  
New York, N. Y.  

**CONSULTANTS**  

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
</table>
| Architects | Harrison & Abramovitz | 630 Fifth Avenue  
New York, 20, N.Y. | CO5-4884 |
| Associated Architects | Deeter & Ritchey | Four Gateway Center  
Pittsburgh, Pa. 15222 | 391-4850 |
| Structural Engineer | Edwards & Hjorth | 67 West 44th Street  
New York, 36, New York | MU7-0380 |
| Mechanical Engineer | Meyer, Strong and Jones | 230 Park Avenue  
New York, 17, New York | MU9-4360 |
| Electrical Engineer | Meyer, Strong and Jones | 230 Park Avenue  
New York, 17, New York | MU9-4360 |
| Landscape Architect | Simonds & Simonds | 100 Ross Street  
Pittsburgh, Pa. 15222 | MU9-4360 |

**CONTRACTORS**  

| General | George A. Fuller Co. |
| HVAC & Plumbing | Wayne-Crouse Co. | 3370 Stafford Street  
Pittsburgh, Pa. 15204 |
PROJECT NO. 1031.0
PROJECT MANAGER J. C. Armstrong
PROJECT DESIGNER John Kozak

Date of DRS Contract
Documents Completed (Prel. Only) (9-29-61)
Bid Date
Construction Start
Construction Completed
Total Cost $21,344,000.00
Sq. Ft. Area
Cost/SF
Fee 5.2%

PROJECT NAME: PITTSBURGH AND ALLEGHENY COUNTY STADIUM

OWNER: Public Auditorium Authority of Pittsburgh and Allegheny County
Pittsburgh, Pennsylvania

REQUESTING AGENCY: Public Auditorium Authority of
Pittsburgh and Allegheny County
Pittsburgh, Pennsylvania

CONSULTANTS

<table>
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<tr>
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<tr>
<td>Mechanical</td>
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<tr>
<td>Plumbing</td>
<td>Osborn Engineering</td>
<td>666 Euclid Ave., Cleveland, Ohio 44114</td>
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CONTRACTORS

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<td>&quot; &quot;</td>
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CORRESPONDENCE

Project abandoned after submittal of Preliminaries
County and City could not agree in financing arrangements.
PROJECT NAME: PITTSBURGH STADIUM

OWNER: Stadium Authority of the City of Pittsburgh
       Pittsburgh, Pa.

REQUESTING AGENCY: Stadium Authority of the City
                    of Pittsburgh
                    Pittsburgh, Pa.

CONSULTANTS NAME
Structural                  Michael Baker Jr., Inc.
Mechanical Plumbing
Electrical

PROJECT NO: 1031.1
PROJECT MANAGER: J.C. Armstrong
PROJECT DESIGNER: John Kozak

Date of DRS Contract: 9/10/64
Bid Date: Bids Rejected
Construction Start: Construction Completed:
Total Cost: $26,298,900.00
Sq. Ft. Area: 728,021
Cost/SP: $33.66
Percentage: 5 1/2%
55,000 Seats @ $627.86 per seat based on low bid.

ADJ. RES. ADDRESS
Baker Bldg.
Rochester, Pa. 15024
666 Euclid Ave.
Cleveland, Ohio 44114

TELEPHONE

CONTRACTORS (Low Bidders)
General                    Dick Corporation
Mechanical                 Limbach
Plumbing                   Steel City Piping
Electrical                 Broadway Maint.
Seating                    American Seating

All bids rejected by STADIUM AUTHORITY - See Three Rivers Stadium #1031.6

COST DATA

ESTIMATE (as of:       BID (as of: 6/28/66)       FINAL (as of:
$31,333,333.00

GENERAL
PLUMBING 1,047,700.00
HVAC 1,272,000.00
ELECTRICAL 3,140,000.00
SEATING 872,514.72

TOTAL $37,672,547.72

1/26/73
DESCRIPTION: The Stadium site encompasses approximately 70 acres in its entirety, and the structure itself will be located on that part of the site bounded by the existing Manchester Bridge, Reedsdale Street, the new Fort Duquesne Bridge and the Allegheny River.

The design calls for a crescent shape structure opening to the southeast -- facing across the river to Point Park and providing a breathtaking vista of the skyline of the Golden Triangle, the rivers and the hills.

With a seating capacity of 55,000, the Stadium will consist of two tiers -- a lower tier of 29,000 seats and an upper of 26,000. In the future, the seating capacity of the Stadium could be expanded appreciably.

Approximately 70 per cent of the seats will be under cover, protecting the spectators from inclement weather.

The entire second tier of the structure will be supported on 12 piers to be situated behind the seats of the first deck, creating an unobstructed view of the field from any seat. Its crescent shape will provide a maximum number of seats close to the field.

Diameter of the structure will be 800 feet. It will rise from a podium 950 feet in diameter. The circular playing field will measure 500 feet, allowing for 340 foot foul lines and 434 foot center field for baseball and more than adequate space for a 360 foot football field. The Stadium will rise to the same height as Monument Hill or 160 feet directly behind home plate.

The new Auditorium in the Lower Hill could be placed on the playing field of the new Stadium with 50 feet of space left over, all around.

Latest techniques in field lighting, electronic scoreboards and other advance stadium features have been incorporated in the design. All seats will have backs and arms. The tarpaulin will fit into the wall in center field. In the outfield, the wall will be padded to minimize player injuries.

Parking space for approximately 4,500 cars has been provided on the Stadium site. Doubling of the parking space on the site could be achieved at anytime by decking the parking areas, as the demand arises and as the traffic pattern of travel to the Stadium develops.

In addition, another 17,120 parking spaces are within one-mile radium of the Stadium. Another 2,200 off-street spaces will be built as part of the Allegheny Center Project.

AWARD: 1967 Construction Specifications Institute First Place - Category "G" Stadium Authority of the City of Pittsburgh Three Rivers Stadium
<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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Stadium Authority of the City of Pittsburgh  
1002 Frick Building  
Pittsburgh, Pa. 15219

Date of DRS Contract:  
Design Doc. Started:  
Design Doc. Completed:  
Contract Doc. Started:  
Contract Doc. Completed:  
Bid Date:  
Construction Start:  
Construction Completed:  
Total Cost:  
Sq. Ft. Area:  
Cost/sf:  
Fee:  

3/2/73
The objective of this study was to illustrate a concept for the most desirable and optimal development of land area within the 30.5 acre site with the stadium as the focal point. This development study also attempted to give direction to the development of adjacent areas, recognizing their function and visual relationships.

The entire area considered in the study is called the near North Side. It extends for one and one quarter mile along the Allegheny River opposite the Golden Triangle of Pittsburgh. It is bounded on the east by the proposed Crosstown Interchange (I279) and on the west by a proposed motel and industrial land-use area. An elevated Interstate Highway System and railroad tracks defines the northern edge beyond which occurs a residential and commercial area, of which Allegheny Center is a part. Also to the north above Three Rivers Stadium on Monument Hill, is located the Allegheny County Community College. The major amenities of this site are immediate access to the Golden Triangle, major highways and a striking visual relationship to the river and the Central Business District.

Air Rights Development implies Platform Development over existing ground level functions and the inclusion of circulation systems connected to, yet independent of, those which exist at ground level. The stadium site area is given to parking areas at ground level and is penetrated by an elevated highway network, on the Eastern site. It is possible to build under the highway providing the function is given to municipal purpose with proper clearances (8 feet) and adequate protection of the structure. It is similarly possible to build over the highway with no restriction on function, but special permission must be obtained. Air Rights Development of the stadium area was investigated in three separate sections in this study leading to a suggested plan:

PARKING PLATFORMS would be the first function to accommodate in order to support upper level development. The physical possibilities of locating parking platforms were explored, along with ramping for vertical vehicular circulation and future building cores on the periphery for vertical pedestrian circulation. CIRCULATION consisted of the diagramatic representation of the various means of circulation applied to the site area. These included Autos, Pedestrian and Public Transportation made comparable with the Phase I and Phase II development. Special emphasis is given to automobile movement applied to future platforms structures, yet relating to the initial Phase I in and out movements of the parking areas.
BUILDING VOLUMES illustrates a desirable intensity of development and a concept and module for the placement of building volumes on an incremental basis. Volumetric growth diversity was illustrated indicating the various building forms applied to the development concept leading to the final plans of full development for the Stadium Site Area and to the entire Near North Side. An examination was made of the pedestrian mall to the stadium, the riverfront park with platform structures, and the future rapid mass transportation which will penetrate the area.

PRELIMINARY INTENSITY CONCEPT:

The elevated highway system establishes a wall at the rear of the site area. A primary amenity for building development would be the view of the city. There the most intensive and highest development should first occur adjacent and parallel to the highway at the rear of the site area, gradually becoming lower nearer the riverfront. This would afford maximum viewing possibilities and eliminate the occurrences of undesirable building areas which could happen if high intensity development were created parallel to the riverfront creating a wall which would block the areas behind it and the elevated highway. Also, high intensity development adjacent to the highway would be in a physically scaled relationship to that function.

FINGER CONCEPT AND DEVELOPMENT MODULE:

The majority of building areas extend to the city perpendicular to the riverfront, parallel to the existing streets (where most of the building cores would occur), and approximately 250 feet apart (to afford maximum viewing over open plazas). This establishes a module on which incremental staging of development can occur on a reasonable area basis. This development form physically recognizes the river and the Pittsburgh CBD and is further illustrated in section drawings. The elevated pedestrian mall is diagrammatically illustrated in section drawings. The elevated pedestrian mall is diagrammatically illustrated through the development area. The main approach from the CBD is on Federal Street leading to Allegheny Center. A 300 feet width between the building areas (fingers) is shown creating an open "gateway" effect. The parking platforms would be situated adjacent to the street and could contain shops at street level.

CONCLUSION:

The proposed stadium site development scheme offers a striking contrast to the Gateway Center directly across the River. Herewith is proposed a unified developmental approach which could be implemented to the entire Near North Side Area. The stadium site area, with only three proposed highrise buildings contains more than twice the square footage of Gateway Center including the proposed Gateway No. 6 building. If the stadium site development were all office space, a working population of 42,000 persons would be accommodated daily with 10,160 parking spaces made available on only three levels. Stadium events which would occur primarily on weekends and nights would accommodate a maximum crowd of 50,000 persons. The availability of in-
creased parking would certainly be welcome. With the advent of the Stadium and Rapid Transportation to the area, developmental interest will be paramount, and surely be extended to the Near North Side Site. A Convention or Exhibition Center would be an excellent anchor use to the Stadium functions. It is hoped that the guidelines for physical development illustrated in this proposal would be economically viable, functionally operable, visually exciting, and fully integral with the CBD of Pittsburgh, to be made possible with astute implementation and administration.
PROJECT NAME: THREE RIVERS STADIUM

PROJECT NO: 1031.6
PROJECT MANAGER: J.C. Armstrong, Jr.
PROJECT DESIGNER: John Kozak

Date of DRS Contract: April 13, 1967
Design Doc. Started: 
Design Doc. Completed:
Contract Doc. Started:
Bid Date: March 28, 1968
Construction Start: May 2, 1968
Construction Completed: July, 1970
Total Cost: $30,565,737.00
Sq. Ft. Area: N/A
Cost/SF: N/A
Fee: Fixed

50,235 seats @ $596.58 per seat

OWNER: Stadium Authority of the City of Pittsburgh
1002 Frick Building
Pittsburgh, Pa. 15219

REQUESTING AGENCY: Same

CONSULTANTS

JOINT VENTURE

Structural Michael Baker, Jr., Inc. Beaver, Penna. 774-3010
Mechanical Osborn Engineering Co. Cleveland, Ohio 861-2020
Plumbing Osborn Engineering Co. Cleveland, Ohio 861-2020
Electrical Osborn Engineering Cleveland, Ohio 861-2020

CONTRACTORS

General Huber, Hunt & Nichols Indy., Ind. 241-6301
Job Site P.O. Box 6757
Pgh., Penna. 15212
Mechanical Limbach Co. 521 Pressley St.
Pgh., Penna. 15212
Plumbing Limbach Co. 521 Pressley St.
Pgh., Penna. 15212
Electrical Broadway Maintenance Corp. 1333 Banksville Rd.
Pgh., Penna. 15216
Seating American Seating 901 S. Tropper Rd.
Norristown, Penna. 19401

COST DATA

ESTIMATE (as of: 6/67 ) BID (as of: 3/68 ) FINAL ( as of: 8/71 )
GENERAL $23,961,079.12
PLUMBING $1,462,335.17
HVAC $849,596.46
ELECTRICAL $3,285,040.75
SEATING $1,007,685.39

TOTAL $28,500,000.00 $26,122,086.00 $30,565,736.89
GRAPHICS (separate contract) 111,943.00
PLAYING FIELD (separate contract)

1/17/73
THREE RIVERS STADIUM
Stadium Authority of the City of Pittsburgh
Pittsburgh, Pennsylvania

DRSA Project No. 1031.6

DESCRIPTION: The 50,000 seat multi-use stadium is located on an 84 acre
redevelopment area on the lower North Side of Pittsburgh
across the Allegheny River from the Golden Triangle. The
stadium is readily accessible by pedestrians, vehicles,
and river traffic with a 4500 car parking area, riverfront
park, and marina located on the site.

There are four main pedestrian entrances to the Stadium with
16 ramps and 4 escalator banks serving the 5 levels. Movable
seating provides ideal seats for both baseball and football.
Other features of the Stadium include a computerized electro-
nic scoreboard, press facilities, a public restaurant, and a
private Stadium Club, theatre-type seats, and complete dressing
room facilities.

Structure consists of poured-in-place concrete and steel bents,

AWARDS:

1971 Pennsylvania Society of Architects
Honor Award
Stadium Authority of the City of Pittsburgh
Three Rivers Stadium

1967 Construction Specifications Institute
First Place - Category "C"
Stadium Authority of the
City of Pittsburgh
Three Rivers Stadium
THREE JAYS STADIUM
PITTSBURGH, PENNSYLVANIA

STADIUM AUTHORITY OF THE CITY OF PITTSBURGH

Completed: June, 1970

Contract Cost:

<table>
<thead>
<tr>
<th>Contract</th>
<th>Cost to Date</th>
<th>Cost per Seat</th>
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</thead>
<tbody>
<tr>
<td>1. General</td>
<td>$23,962,749.00</td>
<td>$ 477.01</td>
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<tr>
<td>2. HVAC</td>
<td>$ 852,976.00</td>
<td>$ 16.97</td>
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<td>3. Electrical</td>
<td>$ 3,270,160.00</td>
<td>$ 65.09</td>
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<td>4. Plumbing</td>
<td>$ 1,463,855.00</td>
<td>$ 29.14</td>
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<td>5. Seating</td>
<td>$ 1,007,685.00</td>
<td>$ 20.05</td>
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<tr>
<td>6. Total</td>
<td>$30,557,425.00</td>
<td>$ 608.28</td>
</tr>
</tbody>
</table>

Facilities:

Seating Baseball and Football:

- Field Boxes: 8,058
- Loge Boxes: 7,288
- Special Boxes: 954
- Terrace Boxes: 2,848
- Terrace Reserved: 13,800
- General Admission: 17,287
- Total: 50,235

Baseball Distances:

- At Home Plate: 60'
- At 1st & 3rd: 42'
- Foul Lines: 340'
- Center Field: 410'

Football Distances (at 50 Yard Line):

- Lower Deck: 66'
- Upper Deck: 187'
- Farthest Seat: 259'

Highest Seat: 122'
Height of Special Boxes: 42' & 56'
Height of First Seat in Upper Deck: 70'
Covered Seats: 50% covered

Major Entrances - 4

1 Home Plate - End Zone
2 First Base - 50 Yard Line
3 Center Field - End Zone
4 Third Base - 50 Yard Line
Total Approach Ramp Width - 325 Feet

Vertical Circulation:

Vertical Ramps - 16 - four per entrance - 10 feet wide
Escalators - 4

- Baseball - 1st & 3rd; Left and Right Field
- Football - Near the End Zones on the north side; Approximately 20 Yard Line on south side.
- Elevators - 3 - two to Allegheny Club and one to Press Lounge.

Site Features:

- Area of Stadium Structure - approximately 10 acres
- Number of On-Site Public Parking Spaces - approx. 4,500
- Pedestrian Overpasses and Underpasses - 5
- Riverfront Park and Boat Dock
Special Features:

Administrative Offices and Team Facilities

Pirates:

Team Rooms - 10,000 square feet
Offices - 16,000 square feet

Steelers:

Team Rooms - 11,000 square feet
Offices - 10,600 square feet

Visiting Team Rooms - 11,000 square feet

Combined Ticket Offices - 8,400 square feet

All-Purpose Tartan Turf Playing Surface

Special Field Lights for Color Television Transmission

Mass Transit Terminal (At Level One)

Press Lounge at Level 4

Area - 2,500 square feet

Allegheny Club

Area - 22,000 square feet
Seating Capacity - 900
300 Dining with view of Field
400 Dining with view of Downtown

Banquet Rooms - 8

Area - 4,227 square feet
Capacity - 200 total

Public

Level 2, South - View to Downtown
Area - 8,000 square feet
Capacity - 350

Public Restaurant - Quick Service

At Home Plate, Left Field & Right Field
Area - 2,800 square feet

Rest Rooms Fixture Count

1 per 85 people

Public Drinking Fountains - 25

Ticket Windows

44 on Level 2
7 Advance Windows on Level 1

Scoreboard Message Center

Main Scoreboard - 30' x 274'
Computerized Message Center
Auxiliary Board

Public Information Message

Boards - 2

Hall of Fame Sports Theater
<table>
<thead>
<tr>
<th></th>
<th>Pittsburgh - Three Rivers Stadium</th>
<th>Anaheim</th>
<th>Atlanta</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STADIUM OWNERSHIP</strong></td>
<td>Stadium Authority of the City of Pittsburgh</td>
<td>City of Anaheim</td>
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<tr>
<td><strong>STADIUM OPERATOR</strong></td>
<td>Three Rivers Management Corporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR BUILT</strong></td>
<td>1971</td>
<td></td>
<td></td>
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<tr>
<td><strong>STADIUM LOCATION</strong></td>
<td>Downtown</td>
<td>1/4 hour from Los Angeles</td>
<td>In City - 1 mile from downtown</td>
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<tr>
<td><strong>TYPE OF CONSTRUCTION</strong></td>
<td>Concrete &amp; steel</td>
<td></td>
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<tr>
<td><strong>LAND</strong></td>
<td>$2,138,850 Paid By City &amp; County</td>
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<td><strong>COST STRUCTURE</strong></td>
<td>$30,565,736</td>
<td></td>
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<td><strong>TOTAL</strong></td>
<td>$32,704,586</td>
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<tr>
<td><strong>S(STRUCTURE PARKING)</strong></td>
<td>10</td>
<td></td>
<td>35.3</td>
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<tr>
<td><strong>ACREAGE MISCELLANEOUS</strong></td>
<td>84</td>
<td>140</td>
<td>62</td>
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<tr>
<td><strong>FINANCED</strong></td>
<td>Revenue Bond 6.4% issue guaranteed by City and secured by three primary leases</td>
<td>City Public Revenue Bonds</td>
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<tr>
<td><strong>PRIMARY TENANTS</strong></td>
<td>Steelers</td>
<td>Angels</td>
<td>Falcons</td>
</tr>
<tr>
<td><strong>FOOTBALL</strong></td>
<td>Pirates</td>
<td></td>
<td>Braves</td>
</tr>
<tr>
<td><strong>BASEBALL</strong></td>
<td>Stadium Club</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SEATING CAPACITY</strong></td>
<td>Football 50,235</td>
<td>47,000</td>
<td>59,000</td>
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<tr>
<td></td>
<td>Baseball 50,235</td>
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<td>52,000</td>
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<tr>
<td></td>
<td>Other 50,235</td>
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<tr>
<td><strong>USES OTHER THAN FOOTBALL/BASEBALL</strong></td>
<td>Concerts Circus Rallies</td>
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<tr>
<td><strong>COVERED SEATING</strong></td>
<td>Football 25,000</td>
<td></td>
<td></td>
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<tr>
<td><strong>BASEBALL</strong></td>
<td>25,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SPECIAL BOXES</strong></td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TV-RADIO FEATURES</strong></td>
<td>Separate Press Areas</td>
<td></td>
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<tr>
<td><strong>ESCALATORS</strong></td>
<td>4</td>
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<tr>
<td><strong>OTHER</strong></td>
<td>Allegheny Club</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Press Lounge</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PITTSBURGH — THREE RIVERS STADIUM</td>
<td>ANAHEIM</td>
<td>ATLANTA</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------------------------------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td><strong>LENGTH</strong></td>
<td>FOOTBALL OF BASEBALL LEASES OTHER</td>
<td>40 Years</td>
<td>40 Years</td>
</tr>
<tr>
<td><strong>LEASE INCOME</strong></td>
<td>$160,000 or 7% of take, whichever is greater</td>
<td>Falcons 5% on all tickets sold</td>
<td>Braves 5% on first million people, 7 1/2% 1-1 1/2 million</td>
</tr>
<tr>
<td><strong>OTHER INCOME</strong></td>
<td>Concessions</td>
<td>Concessions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BALTIMORE</td>
<td>CINCINNATI</td>
<td>CLEVELAND</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------------------</td>
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<td>------------------------------</td>
</tr>
<tr>
<td><strong>STADIUM OWNERSHIP</strong></td>
<td>City</td>
<td>City</td>
<td>City</td>
</tr>
<tr>
<td><strong>STADIUM OPERATOR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YEAR BUILT</strong></td>
<td>1947 &amp; 1953</td>
<td>1971</td>
<td>1930</td>
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<tr>
<td><strong>STADIUM LOCATION</strong></td>
<td>Downtown</td>
<td>Downtown</td>
<td>City</td>
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<tr>
<td><strong>TYPE OF CONSTRUCTION</strong></td>
<td>Reinforced Concrete</td>
<td>Steel Concrete</td>
<td>Concrete Decks</td>
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<td><strong>LAND COST STRUCTURE</strong></td>
<td>City Owned</td>
<td>Site-Filled Land thru City</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$16 million plus</td>
<td>$1,500,000 improvements</td>
<td>$44,000,000</td>
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<td><strong>SITE ACREAGE</strong></td>
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<td><strong>TOTAL</strong></td>
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<tr>
<td><strong>FINANCED</strong></td>
<td>General Obligation Bond Issue</td>
<td>5% City Guarantee Revenue Bonds - City</td>
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<tr>
<td><strong>PRIMARY TENANTS</strong></td>
<td>Colts</td>
<td>Bengals</td>
<td>Browns</td>
</tr>
<tr>
<td><strong>FOOTBALL BASEBALL</strong></td>
<td>Orioles</td>
<td>Reds</td>
<td>Indians</td>
</tr>
<tr>
<td><strong>OTHER</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>SEATING CAPACITY</strong></td>
<td>60,065 including 2,641 temporary</td>
<td>55,000</td>
<td>78,166</td>
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<tr>
<td><strong>FOOTBALL BASEBALL</strong></td>
<td>53,028</td>
<td>50,000</td>
<td>78,166</td>
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<tr>
<td><strong>OTHER</strong></td>
<td>53,028</td>
<td></td>
<td>78,166</td>
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<tr>
<td><strong>USES OTHER THAN FOOTBALL/BASEBALL</strong></td>
<td>Concerts, Ice Shows, Circuses, Boxing, Meetings, Pageants</td>
<td>Boxing, Circus, Political Meetings, Pageants</td>
<td></td>
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<tr>
<td><strong>COVERED SEATING</strong></td>
<td>Football 8,444</td>
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<tr>
<td><strong>BASEBALL</strong></td>
<td>2,180</td>
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<td><strong>58,000</strong></td>
<td>58,000</td>
<td>58,000</td>
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<tr>
<td><strong>SPECIAL FEATURES</strong></td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>SPECIAL BOXES</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>TV-RADIO</strong></td>
<td>Yes</td>
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<tr>
<td><strong>ESCALATORS</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>OTHER</strong></td>
<td>Ice Rink/Business Offices</td>
<td>Business Offices/Bar-Restaurant</td>
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<tr>
<td><strong>LENGTH OF LEASE</strong></td>
<td>Football 10 Years</td>
<td>15 Yrs. - 10 Yr. Option</td>
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<tr>
<td><strong>OF BASEBALL</strong></td>
<td>20 Years</td>
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<tr>
<td><strong>OTHER</strong></td>
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<tr>
<td><strong>LEASE INCOME</strong></td>
<td>Guaranteed $75,000 per Year</td>
<td>$1,435,000</td>
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<td>BALTIMORE</td>
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<td>CLEVELAND</td>
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<td>-----------</td>
<td>-----------</td>
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<td></td>
</tr>
<tr>
<td>BA</td>
<td>7% Gross Baseball</td>
<td>7% Baseball</td>
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</tr>
<tr>
<td>OF</td>
<td>10% Concessions</td>
<td>6% Football</td>
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<tr>
<td>LEASE</td>
<td>Share of parking with prime tenants</td>
<td>29% per capita concessions</td>
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<td>OTHER INCOME</td>
<td>Advertising</td>
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<td></td>
<td>Parking</td>
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<tr>
<td></td>
<td>Office Rental</td>
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<tr>
<td></td>
<td>DALLAS</td>
<td>DETROIT</td>
<td>HOUSTON</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------</td>
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<td>----------------------</td>
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<tr>
<td><strong>STADIUM OWNERSHIP</strong></td>
<td>Detroit Stadium Authority</td>
<td>Harris County</td>
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<td><strong>STADIUM OPERATOR</strong></td>
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<td>Houston Sports Associates</td>
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<tr>
<td><strong>YEAR BUILT</strong></td>
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<td>1964</td>
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<td><strong>LAND COST STRUCTURE TOTAL</strong></td>
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<td><strong>SITE ACREAGE TOTAL</strong></td>
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<td>260</td>
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<tr>
<td><strong>FINANCED</strong></td>
<td>Revenue Bonds (Including 25% Revenue Bonds to be purchased by Season Ticket Holders).</td>
<td>Harris County Bond issue for $31.6 million and $3.75 million from State Highway Dept. &amp; City of Houston</td>
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<td><strong>PRIMARY TENANTS</strong></td>
<td>Cowboys</td>
<td>Lions</td>
<td>Oilers</td>
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<td><strong>SEATING CAPACITY</strong></td>
<td>65,000</td>
<td>70,000</td>
<td>52,000</td>
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<td><strong>USES OTHER THAN FOOTBALL/BASEBALL</strong></td>
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<td></td>
<td>Conventions, boxing, rodeo, political rallies</td>
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<td><strong>COVERED SEATING BASEBALL</strong></td>
<td>100%</td>
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<td><strong>SPECIAL FEATURES</strong></td>
<td>SPECIAL BOXES TV-RADIO ESCALATORS OTHER</td>
<td>Stadium Club Special Areas Yes</td>
<td>Stadium Club Special Areas Yes</td>
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<td><strong>LENGTH OF LEASES</strong></td>
<td>40 Years</td>
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<td></td>
<td>DALLAS</td>
<td>DETROIT</td>
<td>HOUSTON</td>
</tr>
<tr>
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PROJECT NAME: PITTSBURGH STADIUM
RIVERFRONT PARK

OWNER: City of Pittsburgh
Department of Parks & Recreation

REQUESTING AGENCY: City of Pittsburgh
Dept. of Parks & Recreation

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tbody>
<tr>
<td>Structural</td>
<td>Michael Baker Jr., Inc.</td>
<td>4301 Dutch Ridge Road, Beaver, Penna. 15009</td>
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<td>Plumbing</td>
<td>Michael Baker Jr., Inc.</td>
<td>P.O. BOX 280, &quot;</td>
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<tr>
<td>Electrical</td>
<td>Osborn Engineering Co.</td>
<td>666 Euclid Ave., Cleveland, Ohio 44114</td>
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<tr>
<td>Landscape</td>
<td>Environmental Planning &amp; Design</td>
<td>100 Ross St., Pgh., Penna. 15219</td>
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<tr>
<td>General No. 1</td>
<td>Dravo Corporation</td>
<td>Neville Island, Pgh., Penna. 15225</td>
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<td>Plumbing&amp;Electrical</td>
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<td>6012 Heberton Drive, Verona, Pa. 15147</td>
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COST DATA

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PLUMBING

HVAC

ELECTRICAL

No. 1 Landscape | 226,416.00 | (4/1/71) | (11/17/72) |

TOTAL | 2,844,393.00 | 2,941,834.00 | 3,547,652.25* |

* D of P & R Requisition Data
1/17/73
**PROJECT NAME:** BRADFORDWOODS ELEMENTARY SCHOOL ADDITION - 1956

**OWNER:** North Allegheny Joint Authority  
350 Cumberland Road  
Pittsburgh, Penna. 15237

**REQUESTING AGENCY:** Owner

**CONSULTANTS**

<table>
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<tr>
<th>NAME</th>
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<tr>
<td>Structural</td>
<td>R.A. Zern</td>
<td>611 Investment Bldg.</td>
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<tr>
<td>Mechanical</td>
<td>Alex Dzubay (Deceased)</td>
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<td>Plumbing</td>
<td>Jefferson Bedsole</td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>Carl J. Long &amp; Assoc.</td>
<td>100 Fifth Ave.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pgh., Pa. 15222</td>
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**CONTRACTORS**

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<tr>
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<tr>
<td>General</td>
<td>Suburban Building Co.</td>
<td>555 Linden Way</td>
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<td>Bellevue, Pa. 15202</td>
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<td>Mechanical</td>
<td>Coleman-Good</td>
<td>1340 Ridge Avenue</td>
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<td>Plumbing</td>
<td>Steel City Plumbing Co.</td>
<td>1231 Grove Rd, Pgh, Pa.</td>
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<td>Tico Electric</td>
<td>1224-32 Lysle Blvd.</td>
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**COST DATA**

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</table>

1/29/73
DESCRIPTION: Structural steel frame with exposed brick, interior-exterior walls forming division between major areas.

Building consists of six classrooms, grouped in wings of two each served by a connecting corridor that leads to main entry. Entry area serves as connecting link between classrooms to the left and on all-purposed gymnasium and cafeteria to the right. There is a small pantry adjacent to the all-purpose room for the use of faculty and parent groups. Along one wall of all-purpose room are concealed tables and benches. There is also a small stage arrangement for the presentation of plays and other school functions.

Connected also to the entry area are the toilet facilities for boys and girls, the health room, teachers rooms, general offices and principal offices as well as a heating room.

The classrooms, in groups of two, are formed as protections from the corridor, providing two exterior glass & panel walls for each room with a common connecting wall. The roofs of these classrooms are butterfly wing shaped, being high at the exterior and low at the dividing wall. The classrooms are each provided with chalkboards, tackboards and built-in shelving, sinks and heating units along exterior walls.

The corridors are exposed brick construction with no lockers. Students clothes are hung along the walls, exposed from hook rails beneath shelving for storage of books and hats. In winter weather, the student boots form neat lines beneath their coats along the walls.

All floors throughout are poured-in-place concrete covered with vinyl asbestos tile with the exception of toilet areas, where ceramic tile was used.

The walls of toilet areas were constructed of glazed structural facing tile and ceilings, cement plaster.

The roof, throughout, was constructed of metal acoustic deck, providing acoustical qualities as well as a roof structure. The entire deck was covered with 1-1/2" rigid insulation, built-up roofing and gravel.

Heating is by hot water unit ventilators and fin connectors designed for future expansion.

1037 - ADDITION

For general description of construction refer to original project 5414, as this project was an addition of six classrooms, boys and girls toilet areas and an additional entry.
DESCRIPTION: For general description of construction, refer to original project 5414, as this project was an addition of six classrooms, boys and girls toilet areas and an additional entry.
**PROJECT NAME:** GIANT EAGLE WAREHOUSE ADDITION

**OWNER:** Iris Corporation  
31-35th Street  
Pittsburgh, Pa. 15201

**REQUESTING AGENCY:**

**CONSULTANTS** | **NAME** | **ADDRESS** | **TELEPHONE**
--- | --- | --- | ---
Structural Engineer | R. A. Zern | 1611 Investment Building  
Pittsburgh, Pa. 15222 | 391-4067
Electrical Engineer | Lawrence W. Hornfeck | 711 Penn Avenue Building  
Pittsburgh, Pa. 15222 | 281-5644
Mechanical Engineer | Parros and Cost, Inc. | 1004 West Penn Building  
Pittsburgh, Pa. 15222 | 281-5934

**Contractor**

General | Dick Corporation | Route 51  
Large, Pa. | 462-5700

**PROJECT NO.** 1048  
**PROJECT MANAGER** J. C. Armstrong  
**PROJECT DESIGNER**

Date of DRS Contract  
Documents Completed  
Bid Date  
Construction Start  
Construction Completed  
Total Cost  
Sq. Ft. Area  
Cost/SF  
Fee

7/7/69
PROJECT NAME: NORTHVIEW HEIGHTS ELEMENTARY SCHOOL

OWNER: Board of Public Education
341 South Bellefield St.
Pittsburgh, Pa. 15213

REQUESTING AGENCY:

CONSULTANTS

Structural
R.A. Zern
1611 Investment Bldg.
391-4067

Mechanical
Deeter Ritchey Sippel
4 Gateway, Pgh., Pa. 15222
391-4850

Electrical
M. L. Tepper
C. J. Long
100 Fifth Avenue
Pittsburgh, Pa. 15222
471-9100

CONTRACTORS

General
Rea Construction Co.
136 Bradford Avenue
Pittsburgh, Pa.
921-3030

Electrical
Tico Electric, Inc.
124-30 Lysle Boulevard
McKeesport, Pa.
461-5818

Mechanical
Dougherty Company, Inc.
Freeport, Pa.

COST DATA

ESTIMATE (as of: 8/60 ) $954,643.00
BID (as of: 2/61 ) $1,033,776.00
FINAL (as of: 3/63 ) $1,045,825

3/1/73
NORTHVIEW HEIGHTS ELEMENTARY SCHOOL

DRSA Project #1050

LOCATION: Mt. Pleasant Road
Northview Heights
Pittsburgh, Pa.

CAPACITY: 700 Students

AREAS: 14 Acres Land
48,000 SF Building

VOLUME: 737,110 CF Building

DESCRIPTION: Two wings of one and two stories, nestled into a wooded hillside site, are connected by a multi-level entrance lobby. Facilities included in this building are administration offices, classrooms, kindergarten, library, and gymnasium. Plans for the entrance lobby included Architect-designed cast-concrete animal sculptures. The building structural system consists of precast columns and beams, field connected by weld plates.

ROOMS: 21 Classrooms - 13 Other

CONSTRUCTION: Precast Concrete Frame
Floors & Roof Deck
Brick & Aluminum
Curtain Walls
Hot Water Unit Ventilators
Radiant Floor in Kindergarten

Rooms - vinyl floors covering, acoustical tile ceiling in corridors, work areas, and classrooms - built-up roofing-paint or vinyl fabric wall covering-entire wing heated and air-conditioned by Dual Duct System - gases piped in - fluorescent lights recessed - elevators, automatic pneumatic tube system.
PROJECT NAME: NORTHVIEW HEIGHTS ELEMENTARY SCHOOL ADDITION

PROJECT NO: 1050.2 1964
PROJECT MANAGER: J. C. Armstrong
PROJECT DESIGNER:

Date of DRS Contract: Jan. 17, 1963
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 6/12/64
Bid Date: 7/7/64
Construction Start: 9/64
Construction Completed: 7/66
Total Cost: $519,415.00
Sq. Ft. Area: 18,792 SF
Cost/SF:
Fee: 6%

OWNER:
Board of Public Education of the School District of Pittsburgh
341 South Bellefield Ave.
Pittsburgh, Pa.

REQUESTING AGENCY:
Board of Public Education of the School District of Pittsburgh

CONSULTANTS

Structural
E. V. Dotter
DRS Four Gateway Center
Pittsburgh, Pa. 15222
Telephone 391-4850

Mechanical
M. L. Tepper
DRS Gateway Center
Pittsburgh, Pa. 15222
Telephone 391-4850

Plumbing
M. L. Tepper
DRS Gateway Center
Pittsburgh, Pa. 15222
Telephone 391-4850

Electrical
Carl J. Penfield
DRS Gateway Center
Pittsburgh, Pa. 15222
Telephone 391-4850

Landscape Architects
Simonds & Simonds
100 Ross Street
Pittsburgh, Pa. 15222
Telephone 261-3808

CONTRACTORS

General
Branna Construction Co.
Arrott Blvd.
Pittsburgh, Pa.
Telephone 281-2082

Mechanical
Penn Plumbing & Heating Company
645 Collins Street
Pittsburgh, Pa. 15206
Telephone 441-3346

Plumbing
W. G. Tomko Plumbing Company
5404 Second Avenue
Pittsburgh, Pa. 15207
Telephone 521-6600

Electrical
Daniels Electric
4203 Murray Avenue
Pittsburgh, Pa. 15217
Telephone 521-6435

COST DATA

ESTIMATE (as of: 6/64) $503,136.00
BID (as of: 9/64) $516,725.00
FINAL (as of: 7/66) $519,415.00

3/1/73
DESCRIPTION: General construction followed that of the original project, namely, wall bearing masonry, poured-in-place exposed concrete columns, precast concrete unit floors and roofs and glass panel walls of aluminum.

This addition consisted of a new gymnasium and all purpose room with folding partitions dividing the area for boys and girls. Separate locker rooms, toilets, and showers for boys and girls adjacent to the gymnasium and offices for the instructors.

The gymnasium is provided with two sets of cross court basketball baskets and one set of main court baskets.

At one end of the gymnasium is a raised platform for the use of students and parents. There is also a small kitchen adjacent thereto for use of teachers and parents.

Beneath this gymnasium area about one half of the area is used as a large room that opens to the outside and may be used by the community for evening recreation as well as a remedial gymnasium. Adjacent to this room are boys and girls toilet rooms that can be entered directly from outside or by a connecting corridor.

This lower area also houses a small heating room used to house the hot water heating equipment for the shower and toilet areas above. Also provided is a room with overhead door for housing grounds equipment.

At the upper level there was created a new entry stair and corridor leading from the driveway. This entry section connects the existing school building with the new wing and also houses mens and womens toilet facilities.

The original all purpose room was sub-divided providing an additional classroom and a new library.

The original library is to be used for a general classroom.

One recessed court area was filled in with two new classrooms at each of two levels with folding dividing partitions between so that the area might be used as four separate rooms or as two rooms.

The original teachers room was taken over as a classroom and a minor area used as storage was remodeled to provide for a new teachers area.

Slight modifications were carried out throughout other areas such as installation of a private toilet area in one classroom that is to serve lower grades, fixed partition installed in kindergarten area in lieu of original folding partitions, additional chalk and tackboards in every classroom.

The heating was an extension of the present system, using hot water unit ventilators and fin connectors.

Lighting is fluorescent tube type through matching existing system.

Sound system was extended to include new areas and separate system was installed to serve new gymnasium area.
**PROJECT NAME:** Tenant Layout  
Ketchum, MacLeod & Grove, Inc  
Four Gateway Center  
Pittsburgh, Pa. 15222  

**OWNER:** Equitable Life Assurance Society  
Gateway Center  
Pittsburgh, Pa. 15222  

**REQUESTING AGENCY:** Ketchum, MacLeod & Grove, Inc  

---

<table>
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<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
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<tbody>
<tr>
<td>Structural Engineer</td>
<td>Edward &amp; Hiorth</td>
<td>67 West 44 Street</td>
<td>687-0380</td>
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<tr>
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<td>New York 36, New York</td>
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<tr>
<td>Mechanical Engineer</td>
<td>Meyer, Strong &amp; Jones</td>
<td>230 Park Avenue</td>
<td>689-4360</td>
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<td>New York 17, New York</td>
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<tr>
<td>Electrical Engineer</td>
<td>Meyer, Strong &amp; Jones</td>
<td>230 Park Avenue</td>
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<td>F. J. Busse Company, Inc.</td>
<td>1575 Noblestown Road</td>
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<tr>
<td>Mechanical</td>
<td>Limbach Company</td>
<td>521 Pressley Street</td>
<td>471-0500</td>
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<td>Pittsburgh, Pa. 15212</td>
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<tr>
<td>Electrical</td>
<td>Frame Electric Company</td>
<td>841 California Avenue</td>
<td>322-1500</td>
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**PROJECT NO.:** 1053  
**PROJECT MANAGER**  
**PROJECT DESIGNER**  

**Date of DRS Contract**  
**Documents Completed**  
**Bid Date**  
**Construction Start**  
**Construction Completed**  
**Total Cost**  
**Sq. Ft. Area**  
**Cost/SF**  
**Fee**  

8/15/69
For details on Consultants & Contractors - see individual project listing.

COST DATA (FINAL)

Physical Education Building
    Phase I (1067) $1,966,516.16 60,151
    Phase II (1067.1) 4,038,598.00 206,798
    Total $5,995,114.16 267,549 SF

Building Cost per sq. ft. - $22.40/SF

Playing Fields (1067.2)

Field Maintenance Building (1067.2A) $50,250.00 1,314 SF

Building Cost Per Sq/Ft. - $38.00/SF

1/19/73
From the offset, this project was conceived as a total plant that was to be divided into phases.

Phase I was to consist of one wing to house swimming pool, locker rooms and toilets and showers for men and women, boiler plant, water filtering area, service area and receiving area.

Phase 2 was to consist of an additional pool, lockers, toilets and showers, entry area, classrooms and offices.

Phase 3 was to consist of men and women's gymnasium, lockers, toilets and showers to serve same, handball courts and bowling allies.

This project later developed into the following:

Phase I, GSA project 1103-2 consisting of those items noted as phase 1 above.

Phase 2, GSA project 1103-4 consisting of phases above noted as 2 and 3 combined but lessened in total scope. This Phase II, the GSA also included the Playing Fields and Fields Facilities Building.

Through negotiation with the GSA, Deeter and Ritchey were successful in having the Phase 2 - Physical Education Building stand alone and the construction of the Playing Fields and Fields Facilities Building become another project under GSA number 1103-8. This Fields project was designed under the firm name of Deeter Ritchey and Associates with the firm of Hunting, Larsen and Dunnells being the Associates. HL&D had prepared all the preliminary documents for the University of Pittsburgh and we had asked the GSA to enter into a direct professional agreement with them for the fields design. This the GSA would not do. Therefore, the project was drawn by HL&D but all correspondence and communications were through Deeter and Ritchey.

It later developed in 1963, that the Fields Facilities Building was removed from the construction bid documents and the fields were known as GSA-1103-8, Phase I (DRS 1067.2). Later, in 1967, the Fields Facilities Building was added to the professional agreement as GSA project 1103-8, Phase 2. (DRS project 1067.2A).
PROJECT NAME: PHYSICAL EDUCATION BLDG.-PHASE I
ALIQUIPPA, ROBINSON & CARILLO
STREETS, Pgh., Penna.

OWNER: The General State Authority
18th and Herr Streets
Harrisburg, Pa. 17120

REQUESTING AGENCY: University of Pittsburgh
William G. Fisher, Director
Physical Plant

CONSULTANTS

Structural
R.M. Gensert

Mechanical
Alex Dzubay (Deceased)

Plumbing
Jefferson Bedsole

Electrical
Edward Wiesmann

CONTRACTORS

General
Zarpers-Fullerton

Mechanical
Limbach, Inc.

Plumbing
Steel City Piping Co.

Electrical
E.C. Ernst, Inc.

COST DATA

ESTIMATE (as of: )  BID (as of: )  FINAL (as of: )

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL

As of 1/17/73
UNIVERSITY OF PITTSBURGH
PHYSICAL EDUCATION BUILDING-PHASE I
GSA 1103-2
1067.0

DESCRIPTION: Poured-in-place concrete frames with concrete folded plate roof spanning 100' with overhang of 12'-6" at each end. Typical column size is 25'-0". This area housed an olympic sized swimming pool, 165' x 75', with 1, 2 and 3 meter diving boards mounted on a poured-in-place concrete diving tower. The pool area is provided with bleacher seating for meets.

The pool is constructed of concrete block walls, covered with waterproofing and lined with Marbelite. Racing lanes and lane markers are provided both lengthwise and crosswise of the pool. The pool varies in depth from 16'-0" at the diving area to 12'-0" at the edges of diving pool, while the remaining areas varies from 5'-0" depth to 3'-6".

The pool area is exposed, patterned concrete block walls except at terrace side which is an exposed concrete and glass screen. The pool deck and gutter is a non-slip ceramic tile.

The pool deck connects with adjacent showers, toilets and locker rooms for men and women. The one side of the deck opens onto an outdoor area or terrace that provided sunning during the summer months.

This facility also houses the boiler room, designed for future expansion, the pool water filters, storage and maintenance shops as well as general receiving area.

Complete structural system is supported on poured concrete caissons. Concrete pan slab floors and roofs other than the folded plate area.

Brick and concrete block exposed. Built-up roofing over 1-1/2" rigid insulation. Underside of folded plate sprayed with asbestos fiber, acoustical material.

Toilets and shower area glazed structural facing, tile ceramic tile floors and plaster ceilings.

Storage, boiler and service areas exposed concrete block or poured-in-place concrete walls, exposed concrete ceilings and concrete slab floors.

Heating is by hot water unit ventilators and fin convectors.

General lighting is fluorescent except main pool where special pool light at each column was developed.

1/19/73
PROJECT NAME: PHYSICAL EDUCATION BLDG.-PHASE II
ALQUIPPA, ROBINSON & CARILLO
STREETS, Pgh., Penna.

OWNER: The General State Authority
18th & Herr Streets
Harrisburg, Penna. 17120

REQUESTING AGENCY: University of Pittsburgh
William G. Fisher, Director
Physical Plant

CONSULTANTS

Structural
R.M. Gensert

Mechanical
M.L. Tepper, DRS

Plumbing
M.L. Tepper, DRS

Electrical
Edward Wiesmann

Landscape Architect
Simonds & Simonds

CONTRACTORS

General
Graziano Constr. Co.

Mechanical
Limbach

Plumbing
Coleman-Good

Electrical
E.C. Ernst, Inc.

GSA PROJECT NO: 1103-4
PROJECT NO: 1067.1
PROJECT MANAGER: J.C. Armstrong
PROJECT DESIGNER:

Date of DRS Contract: 7/27/62
Design Doc. Started: 5/22/63
Contract Doc. Started: 7/31/63
Bid Date: 4/65
Construction Start: 4/65
Construction Completed: 3/10/67

Total Cost: $4,038,598.00
Sq. Ft. Area: 206,798 SF
Cost/SF: $19.64
Fee: 5.75%

*Blg. occupied - Final Payment: 3/10/67

ADDRESS

718 The Arcade
Cleveland, Ohio

717 Liberty Ave., Pgh. 15222

100 Ross St., Pgh., Pa.

TELEPHONE

CHL-7078

391-4850

281-3808

COST DATA

ESTIMATE (as of: 1/62 ) BID (as of: 7/63 ) FINAL (as of: 4/65)

GENERAL

$3,129,700.00

301,400.00

181,181.00

426,370.00

TOTAL

$3,800,000.00

$4,038,651.00

$4,038,598.00

1/19/73
DESCRIPTION: Poured in place concrete frame with concrete folded plate roof over women's pool and gymnasium, 75 x 100 and 125 x 325 respectively, with asbestos fiber acoustic ceiling.

Concrete pan slab floors and roof. Brick and concrete block walls, interior. Built-up roofing over 1-1/2" rigid insulation.

Toilet and shower areas glazed structural facing tile walls, ceramic tile floors and plaster ceilings.

General classrooms and office, plaster walls and ceilings, vinyl-asbestos tile floors.

Women's pool 42' x 75' x 3' - 6" to 12' depth, non-slip ceramic tile deck and gutter, pool walls and bottom-ceramic tile.

Women's locker room adjacent to pool.

Women's Exercise Room, 75' x 100' over pool area, with resilient wood gym floor.

11 regulation handball courts, concrete floor, walls and ceiling.

Locker and shower facilities for approximately 580 women and Locker and shower facilities for approximately 1250 men in connection with men's and women's gymnasiums.

Health and Remedial areas for both men and women.

Women's Gymnasium, 100' x 125', with 2 basketball courts and folding bleachers.

Men's Gymnasium, 125' x 225', with 3 basketball courts and folding bleachers with area for gymnastics.

Officers, classrooms, Library and lounge areas with public and private toilet facilities.

Heated with hot water unit ventilators and in connectors connected to extended heating system.

General lighting fluorescent.
PROJECT NAME: CONSTRUCTION OF PLAYING FIELDS & FIELDS FACILITIES BUILDING
PHASE I

OWNER: The General State Authority
18th & Herr Streets
Harrisburg, Pennsylvania (1103-8)

REQUESTING AGENCY: University of Pittsburgh

DEETER/RITCHET & ASSOCIATES*
* Hunting, Larsen & Dunnells

PROJECT NO. 1067.2
PROJECT MANAGER J. C. Armstrong, Jr.
PROJECT DESIGNER

Date of DRS Contract 9/18/62
Documents Completed 1/27/64
Bid Date 6/25/64
Construction Start 8/3/64
Construction Completed 11/27/67
Total Cost 12.00 hr.
Sq. Ft. Area
Cost/SF

CONSULTANTS (TO HL&ED) Address Telephone

Mechanical Edward Claitman 1104 Century Bldg., Pgh. 15222 281-6941

Electrical Carl J. Long & Associates 233 Oliver Avenue, Pgh. 15222 471-9100

CONTRACTOR

General M.S.I. Corporation P.O. Box 4457, Pgh. 15205 932-2824
DESCRIPTION: The general program was to develop a playing field area to meet the University's requirements on a site surrounded by the Veterans Administration Hospital and Oakland Cemetery at the top of a hill to Centre Avenue at the bottom of the slope and in turn develop for the City of Pittsburgh a new route for Robinson Street to connect from the rear of the Physical Education Building to a new intersection on Centre Avenue.

This work involved extensive cut and fill, and retainer wall work.

Our associates, Hunting, Larsen and Dunnells, did the actual engineering and design of this for the University but under the General State Authority arrangement, all correspondence was passed through our office (See General Description attached hereto).

This project consisted of creating a plateau that would provide sufficient space for varsity football practice fields, internal fields, baseball fields, all purpose fields, and tennis courts, and parking. A Field Facilities Building and Storage Building was originally a part of this contract but was removed. (See Project 1067.2A). Also included were the retaining walls necessary to support the bank adjacent to the VA Hospital and the Cemetery as well as the new fields above the route of the proposed new Robinson Street.

The City of Pittsburgh will install the actual finish road bed and topping to Robinson Street under separate contracts.
PROJECT NAME: UNIVERSITY OF PITTSBURGH
FIELD MAINTENANCE BUILDING
PHASE 2

PROJECT NO: 1067.2A
PROJECT MANAGER: J.C. Armstrong
PROJECT DESIGNER: NA

DATE OF DRS CONTRACT: 9/18/62
DESIGN DOC. STARTED:
DESIGN DOC. COMPLETED:
CONTRACT DOC. STARTED:
CONTRACT DOC. COMPLETED: 3/25/68

BID DATE: 5/29/68
CONSTRUCTION START: 6/6/68
CONSTRUCTION COMPLETED: 6/6/69
TOTAL COST: $50,250.12
SQ. FT. AREA: 1,314 SF
COST/SF: $38.00 per SF
FEE: $12.00 Hr.

OWNER: The General State Authority
18th & Herr Streets
Harrisburg, Penna. 17120

REQUESTING AGENCY: University of Pittsburgh
Cathedral of Learning
Pittsburgh, Penna. 15213

CONSULTANTS NAME ADDRESS TELEPHONE

Mechanical Edward Claitman
1104 Century Building
Pittsburgh, Pa. 15222

Electrical Carl J. Long & Assoc.
233 Oliver Avenue
Pgh., Penna. 15222

CONTRACTORS

General (Joseph Dellilius Construction Company
3610 Parkview Avenue
Pgh., Penna.

Plumbing Coleman-Good
1240 Ridge Avenue

Electric (Including Electric Heating) Wood Electric Construction Company
Investment Building

COST DATA

GENERAL

ESTIMATE (as of: 1/18/73) BID (as of: 6/6/69) FINAL (as of: 6/6/69)

$27,995.00

$8,590.14

$13,664.98

TOTAL $50,250.12
DESCRIPTION: The building is to provide toilet facilities for both men and women, first aid area, office for Fields Supervisor, storage of athletic equipment and separate room for storage of grounds equipment. Separate room for mechanical equipment and electrical equipment.

Brick exterior, concrete block back-up and interior partitions.

Precase concrete units roof with 1-1/2" rigid insulation and built-up roofing.

Toilet rooms are to be painted, other areas left exposed concrete block or concrete.

All floors are exposed concrete.

Heating is by electrical unit heaters.

Lighting is fluorescent.
PROJECT NAME: BRICKWITH MACHINERY CO.

PROJECT NO. 1072
PROJECT MANAGER S. E. Zionts
PROJECT DESIGNER John Kozak

Date of DRS Contract
Documents Completed
Bid Date 2-18-60
Construction Start
Construction Completed
Total Cost $803,706.00
Sq. Ft. Area 48,570 SF
Cost/SF
Fee + Cost

CONSULTANTS

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tbody>
<tr>
<td>Structural</td>
<td>Martin C. Knabe</td>
<td>Deeter Ritchey Sippel-M.L. Tepper - 4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
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<td>Mechanical</td>
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<td>Deeter Ritchey Sippel-M.L. Tepper - 4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
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<td>Plumbing</td>
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<td>Carl Long &amp; Associates</td>
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<td>Electrical</td>
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<tr>
<td>Soils Analysis</td>
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CONTRACTORS

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<td>L. D. Building Co.</td>
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Further information, see dead file Drawer P.
**PROJECT NAME:** FACULTY HOUSING - 3 schemes
**Owner:** University of Pittsburgh
**Cathedral of Learning**
**Pittsburgh, Pa. 15213**

**REQUESTING AGENCY:** University of Pittsburgh
**Pittsburgh, Pa. 15213**

**CONSULTANTS**

<table>
<thead>
<tr>
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<th>ADDRESS</th>
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**PROJECT NO:** #1082
**PROJECT MANAGER:** Frank Knoble
**PROJECT DESIGNER:**

**Date of DRS Contract:** 2/27/65
**Design Doc. Started:**
**Design Doc. Completed:**
**Contract Doc. Started:**
**Contract Doc. Completed:**

**Bid Date:**
**Construction Start:**
**Construction Completed:**

**Total Cost:**
**Sq. Ft. Area:**
**Cost/SF:**
**Fee:**

---

**PLANNING STUDY ONLY**

**Capacity:** Approximately 100 individual living units.

**Area:**
For Schemes 1 and 2 - never determined.
For Scheme 3 - 22,794 C.F.

**Costs:**
Approximate Average (by program $20,000 to $30,000). No final cost available.

**Description:**

- **Scheme 1, July 18, 1961** - Combination Row Houses and Individual units with adjoining parking compounds. Masonry bearing walls, aluminum and glazed panels.

- **Scheme 2, July 18, 1961** - Elevated Scheme - Concrete Beams spanning entire slope and supporting individual units. No materials determined.

- **Scheme 3, Sept. 5, 1962** - Individual Unit Scheme - reinforced brick with reinforced concrete floor and roof, Alply Aluminum panels, forced summer and winter air conditioning.
<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Engineer</td>
<td>DRS, Inc.</td>
<td>Four Gateway Center</td>
<td>391-4859</td>
</tr>
<tr>
<td>Mechanical Engineer</td>
<td>DRS, Inc.</td>
<td>Four Gateway Center</td>
<td>391-4859</td>
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<tr>
<td>Electrical</td>
<td>Hornfeck Engineering Inc.</td>
<td>711 Penn Avenue Bldg.</td>
<td>281-5644</td>
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<tr>
<td>Decorator</td>
<td>Albert Lange Studios (1083.18)</td>
<td>Two Gateway Center</td>
<td>281-5600</td>
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</table>
COVER SHEET

PROJECT NAME: ALLEGHENY CENTER
TOTAL PROJECT SUMMARY

PROJECT NO: 1087 series
PROJECT MANAGER: C.L. Christen
PROJECT DESIGNER: J.Kozak,H.B.Grant,
L.H.Minnerly

Date of DRS Contract: 8/18/61
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 1964,65, & 68
Bid Date:
Construction Start: 3/1/65
Construction Completed: Continuing
Total Cost: Estimated $59,978,900.00
Sq. Ft. Area: Estimated 4,603,474 SF
Cost/SF:Estimated Average $13.03/SF
Fee

OWNER: Allegheny Center,Inc.
One Allegheny Square
Pittsburgh, Pa. 15212

REQUESTING AGENCY:

CONSULTANTS NAME
ADDRESS TELEPHONE

For Details on Consultants & Contractors - see individual project listing.

COST DATA - TO DATE (JANUARY, 1973)

<table>
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<th>FINAL COST</th>
<th>TOTAL SQ. FT.</th>
<th>COST/SQ.FT.</th>
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<td>1087.1-Garage</td>
<td>$9,590,000.00</td>
<td>1,305,808</td>
<td>$ 7.34</td>
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<td>1087.2-Commercial</td>
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<td>1087.2-1-Sears</td>
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<td>1087.2-3-Office Bldg. #2</td>
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<td>221,678</td>
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</table>

TOTAL BUILDINGS $36,347,226.50 $2,917,946 SF $12.45 (Average Cost/SF)
(excluding Tenant layouts)

1/29/73
DESCRIPTION: 78 acre urban renewal project on North Side of the Center City
Pittsburgh, consisting of:

800,000 sq. ft. commercial area of reinforced concrete with Duranodic
Alply wall panels.

Reinforced concrete 3 level parking garage for 2750 cars.

120,000 sq. ft. professional office bldg. of steel construction,
8 stories high, with cast aluminum wall panels and solar bronze glass.

Apartment buildings to furnish over 1300 residential units. Steel
construction with brick and duranodic aluminum walls, and parking
garages below.

220 Townhouses around perimeter of Center brick veneer, wood frame,
and aluminum roofing.

Central heating and cooling plant by Equitable Gas furnishing steam
and chilled water to all buildings in the center.

Complete fire protection-fire alarm connection to City. Apartment
telephone and TV systems. Individual transformer vaults.

GENERAL BACKGROUND: In January, 1959, the Urban Redevelopment Authority retained Allegheny
Planning Associates to prepare all necessary market analyses, traffic
and utilities studies, standards and controls, zoning recommendations
and land-use maps for the proposed new Allegheny Center.

The planning team, comprised of D.K. Ritchey Associates, Simonds and
Simonds, and General Planning and Resource Consultants, worked two
years to develop a recommended plan for Allegheny Center. The
complete report was submitted to the Urban Redevelopment Authority

Without change, the plans were approved by the Authority, by the Federal
Urban Renewal Administration and by the City of Pittsburgh after public
hearings.

In May, 1961, Lewis E. Kitchen was named as developer for the $60million
Allegheny Center Redevelopment Plan as it had been designed by Deeter
and Ritchey Architects.

The Allegheny Center Project is comprised of a gross renewal area of
78 acres and dates back to 1789 when the town of Allegheny was surveyed
and laid out to the typical English Village plan with a town square
and surrounding "common" or "village green".
The commons, now a 100-acre city park surrounding today's mixture of blighted residential, commercial and institutional usage, was considered a prime asset as a buffer zone in allowing the planners to organize the new area into an almost self-contained "village" just a short, 10-minute walk from downtown Pittsburgh. It was the proximity to the downtown area, along with a number of structures considered important enough for retention in the new plan, that enabled planners to visualize Allegheny Center as an in-town neighborhood providing recreational, cultural and shopping facilities for downtown workers and their families.

The planning group retained the old town square, now as a civic plaza, as the activity center of the area with an existing planetarium and library on the north as a focal point. The shopping center and a "bazaar" adjoin the civic plaza on the south, while to the east and west first floor shops in apartment structures rimming the plaza will provide visual interest and stimulate pedestrian traffic throughout the plaza area. The old library clock tower, some 175' in height, will continue to dominate the Allegheny Center skyline.

The commercial and apartment core area will be surrounded by a one-way traffic ring to prevent automobile penetration of quiet residential areas. The park-like atmosphere of the area is maintained by placing townhouses in groups served by short mews or cul-de-sacs.

Immediately adjacent to the Commercial Area the office building overlooks the civic plaza.

The project includes a three-level underground parking garage for approximately 3,000 automobiles beneath a 1,000,000 sq. ft. commercial area.

Apartment structures will include tenant parking in a 1:1 ratio.

Allegheny Center will provide 1,329 dwelling units in 10 apartment structures and approximately 220 single-family townhouses in comparison to the 534 dwelling units now existing.
<table>
<thead>
<tr>
<th>PROJECT NAME: ALLEGHENY CENTER GARAGE</th>
<th>PROJECT NO: 1087.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROJECT MANAGER: C. L. Christen</td>
<td></td>
</tr>
<tr>
<td>PROJECT DESIGNER: Kozak, Grant</td>
<td></td>
</tr>
<tr>
<td>Date of DRS Contract: 8-18-61</td>
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<tr>
<td>Design Doc. Started:</td>
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<td>Design Doc. Completed:</td>
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<td>Contract Doc. Started:</td>
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<td>OWNER: Allegheny Center, Inc.</td>
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<td>One Allegheny Square</td>
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<td>Cost/SF: $7.34</td>
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<td>Fee: Fixed</td>
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<td>2779 Cars at $3,450.88 Per Car</td>
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<td>REQUESTING AGENCY: Alcoa</td>
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<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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</thead>
<tbody>
<tr>
<td>Structural</td>
<td>R. M. Gensert Assoc.</td>
<td>The Arcade, Cleveland, Ohio</td>
<td>216/241-7078</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel, M.L. Tepper, 4 Gateway, Pgh. 15222</td>
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<tr>
<td>Plumbing</td>
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<tr>
<td>Electrical</td>
<td>Carl Long &amp; Assoc.</td>
<td>233 Oliver Ave., Pgh., Pa. 1522</td>
<td></td>
</tr>
<tr>
<td></td>
<td>John Maguire</td>
<td>Box 245, R.D. 2, Cheswick, Pa.</td>
<td>767-4283</td>
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<table>
<thead>
<tr>
<th>CONTRACTORS</th>
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<tbody>
<tr>
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<td>Mechanical</td>
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<tr>
<td>Plumbing</td>
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</table>

FOR CONSTRUCTION 1087.1 and 1087.2 WHERE COMBINED - SEE 1087.1 and .2 FOR FURTHER INFORMATION

3/6/73
ALLEGHENY CENTER GARAGE

#1087.1

DESCRIPTION: Poured in place reinforced concrete using typical bay size of 28' x 32'. Consisting of 3 levels with connecting ramps. Girders run 28' and joists 32'.

Garage has capacity of 2750 cars and maintains its own office area on middle level with employee and accounting facilities.

Exterior of garage is brick facing with top level open over parapet wall.

Interior of garage is concrete with each level divided into three different color codes painted on columns.

Garage has 6 entrances with 7'-0" headroom barriers with one controlled entrance for truck service at north extremity for future buildings above such as the Pittsburgh National Bank. Garage operates mainly for commercial area above.

ELEVATORS AND ESCALATORS: All three levels operate four, 3000 lb., 250 F.P.H. elevators for passenger service to Commercial above. The garage also has two banks of escalators at all three levels operating to Commercial. Escalators are enclosed with block walls and have windows for safety feature.

HVAC: Garage is not heated but has an air change system of fresh air openings along southern side of building with exhaust openings on northern side. Air is pulled by large fan units under bottom level and exhausted through two stacks in middle of building.

PLUMBING: Drainage system piped throughout using sloping floors.

FIRE PROTECTION: Dry system throughout garage.

ELECTRIC: Fluorescent lighting throughout garage. Electric automatic control, car count, signs and ticket dispensers. Fire alarm system connected to City.
PROJECT NAME: ALLEGHENY CENTER
   Garage & Commercial

OWNER: Allegheny Center, Inc.
   One Allegheny Square
   Pittsburgh, Pa. 15212

REQUESTING AGENCY:

CONSULTANTS      NAME                    ADDRESS                        TELEPHONE
Structural       R. M. Gensert Assoc.  The Arcade, Cleveland, Ohio  216-241-7078
Mechanical       Deeter Ritchey Sippel, M.L. Tepper 4 Gateway, Pgh. 15222  391-4850
Plumbing         "        "        "        "        "        "        " 391-4850
Electrical       Carl Long & Assoc.  233 Oliver Ave., Pittsburgh 15222  471-9100
                  John Maguire               Box 245, R.D. 2, Cheswick, Pa. 767-4283

CONTRACTORS      NAME                      ADDRESS                         TELEPHONE
General          API Construction Corp.    One Allegheny Square               553-4545
Mechanical       Limbach Co.                Four Gateway Center, Pgh., Pa.  471-8000
Plumbing         "          "                  "          "          "          "          "
Electrical       Frame Electric Co.         841 California Ave., Pgh., Pa.  322-1500

COST DATA
GENERAL
PLUMBING
HVAC
ELECTRICAL

ESTIMATE (as of: 8/64)  $13,767,300.00
BID (as of: 10/64)      $13,942,000.00
FINAL (as of: 4/65)     $15,190,611.00

TOTAL

3/6/73
After many studies, a design concept for the Allegheny Center Commercial Complex evolved into a basic shopping "Mall" anchored on each end by a department store. This concept is similar to the suburban shopping center, yet is far more convenient and compact. The Mall is an all-weather enclosed pedestrian way with direct access from the street, from Allegheny Center Plaza and from escalators rising out of three parking levels below. Walking distances are therefore minimized. Service to both department stores and to the specialty shops is from a truck-loading tunnel directly under the stores. The Mall is two stories in height and contains offices and shops on the upper level. There are 750,000 gross square feet of commercial space in the Commercial Complex, with Sears, Roebuck & Co. occupying 280,000 square feet at one end of the Mall which was built during the first phase construction. An additional development of a bazaar shopping area with a theatre is planned. The 2800-car garage was erected by the Pittsburgh Parking Authority, while air rights for commercial space above were purchased by the developers.
PROJECT NAME: ALLEGHENY CENTER
COMMERCIAL

PROJECT NO: 1087.2
PROJECT MANAGER: C. L. Christen
PROJECT DESIGNER: Kozak, Grant

Date of DRS Contract: 8-18-61
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 8-11-64 and 3-1-65
Bid Date:
Construction Start: 3-1-65
Construction Completed:
Total Cost: $5,600,611.00
Sq. Ft. Area: 406,112
Cost/SF: $13.78
Fee: 5%

OWNER: Allegheny Center, Inc.
One Allegheny Square
Pittsburgh, Pa. 15212

REQUESTING AGENCY:

CONSULTANTS

<table>
<thead>
<tr>
<th>Structural</th>
<th>R. M. Gensert Assoc.</th>
<th>ADDRESS</th>
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<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel, M.L. Tepper, Gateway 4, Pgh., 15222</td>
<td>The Arcade, Cleveland, Ohio</td>
<td>216-241-7078</td>
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<td>471-9100</td>
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<td>Electrical</td>
<td>John Maguire</td>
<td>Box 245, R.D. 2, Cheswick, Pa.</td>
<td>767-4283</td>
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CONTRACTORS

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<th>General</th>
<th>API Construction Corp.</th>
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<tr>
<td>Mechanical</td>
<td>Limbach Co.</td>
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<tr>
<td>Electrical</td>
<td>Frame Electric Co.</td>
<td>841 California Ave., Pgh., Pa.</td>
<td>322-1500</td>
</tr>
</tbody>
</table>

FOR CONSTRUCTION 1087.1 and 1087.2 WHERE COMBINED - SEE 1087.1 and .2
FOR FURTHER INFORMATION

3/6/73
DESCRIPTION: Two levels of commercial tenants stand atop the three level garage. Top level of garage also houses shipping and receiving facilities for commercial along with storage and a small area for food stores and other.

Commercial is of same reinforced concrete as garage using 28 x 32 bays.

Exterior is of poured in place concrete fascias with exterior walls of 3" thick insulated aluminum 'Applv' panels with duranodic finish. Panels are basic 4' x 14'-6" size with varied spacing of exterior 5" aluminum fins. Exterior stair towers are of concrete.

Interior consists of stores facing open mall covered with varrel vaulted 2" thick Alply roof panels on steel girders. All other is exposed concrete and plaster - all painted. Individual stores furnish variegated colors and designs. Mall area is concrete flooring with ceramic tile public toilet areas. All stores are serviced by service corridors in rear. Windows are aluminum frame with polished plate glass including clearstory over the mall. The north section contains stores and individual building on an open exterior plaza. Exterior plaza is covered with Peda-Gard waterproofing. The mall also contains two department stores, one at each end.

ELEVATORS: 4 freight - 5000 lb. - 100 F.P.M.  
4 passenger - 3000 lb. - 250 F.P.M.

ESCALATORS: 5 escalators - 48" width - 90 F.P.M.

HVAC: Each store has individual unit with hot and chilled water supplied from Central Plant. Central Mall is heated and cooled from central fan rooms. Service corridors are heated with individual units. Fin tube radiation at windows.

PLUMBING: Drainage is on the Weir System. Hot and cold domestic water is on a wet column, system 64' apart, and hot is on recirculating pump.

FIRE PROTECTION: All open Mall, escalators and commercial tenants are on fire alarm and dry system.

ELECTRIC: Commercial tenants are to be serviced by buying their power from Allegheny Center Inc. Duquesne Light Transformer vaults and switchgear will be owned by A.C.I. Lighting is of specially designed duranodic aluminum fixtures along Mall and on the exterior using incandescent. Other general lighting is of fluorescent type.
PROJECT NAME: SEARS, ROEBUCK & COMPANY
ALLEGHENY CENTER
PITTSBURGH, PENNA. 15212

PROJECT NO: 1087.2.1
PROJECT MANAGER: S.E. Zions
PROJECT DESIGNER: H.B. Grant

Date of DRS Contract: 11/10/64
Design Doc. Started: 8/6/65
Design Doc. Completed: 8/6/65
Contract Doc. Started: 8/31/65
Bid Date: 10/5/65
Construction Start: 9/12/66
Construction Completed: 9/12/66

Total Cost: $3,731,986.00
Sq. Ft. Area: 287,738 SF
Cost/SF: $12.97/SF
Fee: 4%

OWNER: Sears, Roebuck & Company
Chicago, Illinois

REQUESTING AGENCY: Algon Realty Co.

CONSULTANTS

NAME

ADDRESS

TELEPHONE

Structural
R.M. Gensert Assoc.
718 The Arcade, Cleveland
216/241-7078

Mechanical
" DRS, M.L. Tepper"
" 4 Gateway Center, Pgh.
" 391-4850"

Plumbing
" "
" "
" "

Electrical
Kerma-Clark Corp.
4617 Farmers Bank Bldg., Pgh.

Fire
" "
" "

Protection
Schirmer Eng. Corp.
5940 W. Tonby Ave., Niles, Ill.

CONTRACTORS

General
Graziano Const. Co. Inc.
559 Rodi Rd., Pgh.
242-4333

Mechanical
Limbach Co.
2410 Woodmere Dr., Pgh.
922-4300

Plumbing
Schneider, Inc.
501 Trumbull Dr., Pgh.
821-3800

Electrical
E.C. Ernst, Inc.
3424 Liberty Ave., Pgh.
621-6411

COST DATA

ESTIMATE (as of: 8/65 ) $4,450,430.00
BID (as of: 9/65 ) $3,476,259.00
FINAL (as of: 2/68 ) $3,731,986.00

1/27/73
DESCRIPTION: Poured-in-place reinforced concrete structure with spread concrete footings. Floors are rib slab construction with a typical bay size of 28' x 32'.

T.B.A. (Service Station) Area is located on Level A with a Storage Space at Level B. A Retail Store occupies Levels 1 and 2, with a Receiving and Shipping Area at Level A adjacent to an Interior Service Drive. A small part of the project is built on grade while the remainder is built as an air rights structure.

Exterior of building is an exposed buff concrete and (Duranodic) Aluminum Alpy panels at the Retail Store, and face brick and concrete at the T.B.A. Area, Interior finished include plaster, drywall, fabric wall covering, ceramic tile and glazed tile at walls; plaster and acoustic tile at ceilings; and terrazzo, ceramic tile, resilient flooring and carpeting at floors. A Masterplate floor is provided in the Service portion of the T.B.A. Area.

Main Entrance is at Levels 1 and 2 of the Allegheny Center enclosed Mall. Exterior doors and entrances are aluminum. Flat built-up roof.

Parking is available at Levels A, B and C of Allegheny Center Garage directly below the Sears Area.

CONVEYING SYSTEMS: Two service elevators are provided with a capacity of 6,000 lbs., speed of 75 FPM and bi-parting freight doors. One passenger elevator is provided with a capacity of 3,000 lbs., speed of 300 FPM and a single sliding door. Two escalators are included, one up and one down, 84" wide, with a speed of 90 FPM. A dumbwaiter (3' x 3') with a capacity of 300 pounds, is provided, seventeen automobile hoists are also included.

HVAC: The building is provided with a single zone system of heating and cooling. Steam and chilled water are purchased from a Utility Company. Separate exhaust systems are provided for Toilet Rooms and Coffee House Kitchen. A Tall pipe exhaust system is included for the T.B.A. Service Area.

PLUMBING: Vitreous china plumbing fixtures. Soap-dispensing system. Recirculating hot water system. Water heated with steam.

FIRE PROTECTION: Wet system throughout all levels of Retail Store and T.B.A. Area, except for Holding Area at Level A which had a dry system.

ELECTRIC: Fluorescent and incandescent lighting. Underfloor duct in certain areas. Telephone raceway system, fire alarm system, sound and intercom system, clock system, antenna systems, and sign wiring systems. Fire alarm system connected to City. Emergency light provided by transfer switch to a separate electrical service from another sub station.
PROJECT NAME: PITTSBURGH NATIONAL BANK
ALLEGHENY CENTER
PITTSBURGH, PENNA. 15212

PROJECT NO: 1087.2-2
PROJECT MANAGER: C.I. Christen
PROJECT DESIGNER: L.H. Minnerly

Date of DRS Contract: 4/18/66
Design Doc. Started: 5/18/66
Design Doc. Completed: 9/13/66
Contract Doc. Started: 10/5/66
Contract Doc. Completed: 12/1/67
Bid Date: 11/1/66
Construction Start: 12/1/67
Construction Completed: 5/18/66
Total Cost: $377,820.00
Sq. Ft. Area: 7,500 SF
Cost/SF: $50.37/SF
Fee: 7.5%

OWNER: Pittsburgh National Bank
5th & Wood
Pgh., Penna. 15222

REQUESTING AGENCY: Allegheny Center Associates & Pittsburgh National Bank

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>R. M. Gensert Assoc.</td>
<td>718 The Arcade, Cleveland</td>
</tr>
<tr>
<td>Mechanical</td>
<td>DRS, M. L. Tepper</td>
<td>Four Gateway Center, Pgh.</td>
</tr>
<tr>
<td>Plumbing</td>
<td>DRS, M. L. Tepper</td>
<td>Four Gateway Center, Pgh.</td>
</tr>
<tr>
<td>Electrical</td>
<td>Carl J. Long Assoc.</td>
<td>100 Fifth Ave., Pgh.</td>
</tr>
<tr>
<td></td>
<td>John Maguire</td>
<td>Box 245, Cheswick, Pa.</td>
</tr>
</tbody>
</table>

CONTRACTORS

| (General) | Landau Bros. Bldg. Co. | 125 1st Ave., Pgh. | 261-5960 |
| Mechanical | Ruthrauff, Inc. | 1627 Penn Ave., Pgh. | 471-6290 |
| Plumbing | Crest Air, Inc. | Regis Ave., Pgh. | 892-2855 |
| Electrical | Wood Electrical Cons. Co. Investment Bldg., Pgh. | 261-3409 |
| Counter Work | Spearhead Cabinet Mfg. Co. 3228 Penn Ave., Pgh. | 281-8900 |

COST DATA

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<tr>
<th></th>
<th>ESTIMATE (as of: 8/66)</th>
<th>BID (as of: 10/66)</th>
<th>FINAL (as of: 1/68)</th>
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<tr>
<td>TOTAL</td>
<td>$409,328.00</td>
<td>$372,488.00</td>
<td>$377,820.00</td>
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</table>

1/27/73
DESCRIPTION: One of the free standing commercial buildings on the North Open Plaza area. Brown glazed brick walls on both exterior and interior throughout building, with special 2'-0" radius corners.

The building is of one story design with mezzanine level for employees and storage.

Six steel columns covered with 2' diameter concrete support 4' deep, steel roof trusses spanning 64' with a 12' to 16' cantilever around perimeter. Roof is faced with a 5' high, 2" thick insulated aluminum panel with black duranodic finish. Windows are solar bronze and are butt welded in most areas. Exterior soffit is plaster. Aluminum bronze is duranodic finish. Interior floors are carpet and terrazzo with vinyl in the vault, service areas, and toilets. Ceiling is acoustic tile. Counter work is black formica tops with oak and black undercounters. Wood doors, panels and trim is of English Brown Oak.

Bank is serviced from garage level below. This level also houses trash room and mechanical rooms, along with customer parking.

ELEVATORS: One 2000 lb., 150 F.P.M. - Hydraulic.

HVAC: Fan room at garage level feeds heated and cooled air to bank areas above. Fan coil units and fin tube radiation along windows and exterior walls. All of these systems are fed by hot and chilled water from Central Plant. Piping is in heated plastered soffit at garage ceiling.

PLUMBING: Domestic water is on main recirculating system of Allegheny Center Mall and metered in garage leve. Roof drainage is on Weir System.

FIRE PROTECTION: Fire extinguishers only.

ELECTRIC: Complete systems of Fire Alarm, Burglar Alarm, T.V. Cameras and Sound (Music) with provisions for future T.B. Teller station in Mall. Special lighting of circular fluorescent and gold incandescent, including pendants.

SPECIAL EQUIPMENT: Equipment - Vault door and interior boxes, check writer desks, teller cages, coupon booths, kitchenette and black steel railing.
PROJECT NAME: ALLEGHENY CENTER OFFICE BUILDING

PROJECT NO: 1087.2BX
PROJECT MANAGER: F. Knoble
PROJECT DESIGNER: 

Date of DRS Contract: 1-20-66
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 10-4-65
Contract Doc. Completed: 10-12-65
Construction Start: 10-15-65
Construction Completed: 6-15-67
Total Cost: $3,141,747.00
Sq. Ft. Area: 169,689 SF
Cost/SF: $18.51/SF
Fee: 5%

OWNER: Allegheny Center, Inc.
One Allegheny Square
Pittsburgh, Pa. 15212

REQUESTING AGENCY: Alcoa

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tbody>
<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel-E.V.Dotter, 4 Gateway Center, 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Parros &amp; Cost, 1004 W. Penn Bldg.</td>
<td>281-5934</td>
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<tr>
<td>Electrical</td>
<td>L. W. Hornbeck, 711 Penn Ave. Bldg.</td>
<td>281-5644</td>
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<tr>
<td>Landscape Architects</td>
<td>Simonds &amp; Simonds, 100 Ross St. Pgh. 15219</td>
<td>261-3808</td>
</tr>
<tr>
<td>Special Illumination</td>
<td>Stanley K. Peterson &amp; Associates, Box 362, Ridgefield, New Jersey</td>
<td>WH5-4850</td>
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</table>

CONTRACTORS

| ( ) | API Construction Corp. One Allegheny Square | 553-4545 |
| General | Sauer, Inc. 30 51st Street | 682-6408 |
| Mechanical | Sauer, Inc. 30 51st Street | 682-6408 |
| Plumbing | Frame Electrical Co. 841 California Ave., Pgh. | 322-1500 |
| Electrical | Curtinwall | Fenton, Inc. |

COST DATA

GENERAL

PLUMBING

HVAC

ELECTRICAL

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TOTAL

$3,600,000.00

$3,871,000.00

$3,141,747.00

3/6/73
ALLEGHENY CENTER OFFICE BUILDING

1087.2BX

DESCRIPTION: Steel frame, 24' x 24' bays, bar joist and corrugam with 2-1/2" concrete floors - concrete base and foundation walls - spread footings + caissons and grade beams. 8 - story plus basement - 10' floor to floor - 7'-6" ceiling heights. Cast aluminum flat textured exterior column covers and spandrels on a 12" module - 3/8" x 9'-6" solarbronze fixed glass sheets mounted in gaskets framed around castings - castings finish "black" alumilite. Roof machine window washing.

VERTICAL TRANSPORTATION: (3) Westinghouse - 3,000# - 350 FPM - (7) pattern automatic group operation to all levels - (1) car equipped with pads for moving furniture.

HVAC: All air system with perimeter b.b. radiation hot water reheat - Northeast, Southwest, Southeast zones - roof air-intake and exhaust to heat exchanger - central plant steam and chilled water.

PLUMBING: Domestic water, storm and sanitary, recirculating hot water, natural gas systems.

FIRE PROTECTION: Stand pipes to firehose at stairs and mid-points of floors - non-freeze, wet sprinkler system at truck-loading dock and rubbish room - coded fire alarm location station at basement entrance.

ELECTRIC: Secondary service transformer to 480 - 120V distribution transformer each floor - fixed box with 4' flexible connection to 2 x 4 fluorescent recessed fixtures for general lighting - emergency lighting for exiting and elevator operation to nearest floor level - fire alarm system - raceways for telephones - grounding and lightening protection system.

NOTES: Suspended exposed tee ceilings with 2-hour fire-rated ceiling tile, extending over lighting fixtures. Hard-plaster furred 2'-8" x 2'-8" standard size at building columns.

Mail Chute
Ceramic tile toilet finishes
Scissors stair - (1) for exiting
Rovolving doors at south entrance only

AWARDS: 1968 Pennsylvania Society of Architects
Honorable Mention
Allegheny Center
Professional Office Building

3/6/73
PROJECT NAME: TWO ALLEGHENY CENTER
OFFICE BUILDING
PITTSBURGH, PENNA.

OWNER: Allegheny Center Associates
One Allegheny Square
Pittsburgh, Pa. 15212

REQUESTING AGENCY: Alcoa Properties, Inc.

CONSULTANTS

<table>
<thead>
<tr>
<th>Structural Engineer</th>
<th>DRS, Inc.</th>
<th>Four Gateway Center, Pgh.</th>
<th>391-4859</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Engineer</td>
<td>E.V. Dotter</td>
<td>1000 Banksville Rd., Pgh.</td>
<td>531-7111</td>
</tr>
<tr>
<td>Mechanical Engineer</td>
<td>DRS, Inc.</td>
<td>Four Gateway Center, Pgh.</td>
<td>391-4859</td>
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<tr>
<td>Electrical Engineer</td>
<td>Carl J. Long Assoc.</td>
<td>100 Fifth Ave., Pgh.</td>
<td>471-9100</td>
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<tr>
<td>Soils Consultant</td>
<td>David Lewin</td>
<td>The Arcade, Cleveland</td>
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CONTRACTORS

General Contractor: Martin & Nettour Contracting

Union Trust Building, Pgh. 281-3600

COST DATA

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<td>7,300,000.00</td>
<td>6,485,700.00</td>
<td>6,608,562.00</td>
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</table>

TOTAL $7,300,000.00  $6,485,700.00  $6,608,562.00

1/77
DESCRIPTION: Thirteen-story office building including the Plaza Level commercial space; containing approximately 275,000 gross sq. ft. with rentable efficiency of 85% BOMA and 94% on full floor basis.

Foundations will be under new office columns of structural steel needle down through existing slabs to new concrete spread footings under "C" level slab. Soil will be pressure grouted to attain 7 1/2 ton bearing capacity from present 4 ton.

Basic building dimensions are 238 x 92 ft. with a composite structural steel beam and metal deck slab design throughout. Interior core walls are all plaster with vinyl wall coverings in toilet rooms and elevator lobbies. Acoustic tile ceiling with concealed spline and vinyl asbestos tile flooring, movable partitions by Owner as per tenant requirements. Exterior skin is extruded aluminum window frames with Alcoa Alply insulated panels with .040 aluminum facing. Exterior aluminum finish is light Duranodic Bronze on extrusions and medium Duranodic Bronze on sheet. Plaza level is of Peda-Gard finish on exterior and black granite on interior Lobby areas. Aluminum sculpture at Lobby wall will be featured.

VERTICAL TRANSPORTATION

1 - 2500 lb. - 300 FPM serving Garage Levels to Plaza Level.

4 - 3000 lb. - 700 FPM serving plaza level to 13th floor

1 - 4000 lb. - 700 FPM serving both passenger and freight from Level A to 13th floor.

MECHANICAL EQUIPMENT

Induction system using four pipe system of chilled and hot water controlled at individual units to alter air supply temperature feeding from a four zone layout. Mechanical Equipment Rooms are split with "A" level housing water supply equipment and the Third Floor housing the fans. The Equitable Gas Co. plant is providing the steam housing only vents and drains, with water to be brought from core as required by Tenants. Controlled flow roof drainage.

L/27/73
FIRE PROTECTION

Two standpipe systems with fire hose cabinets at each floor at each stair.

ELECTRICAL

Transformer Vault and Switch Gear rooms for Duquesne Light are at Level A. Gas generator will feed emergency lighting. 2 X 4 fluorescent lighting pattern will be installed under base bid with Tenant changes as required. Continuous strip lighting at exterior and interior soffit areas will be featured.

CONSULTANTS:

Structural - DRS, Inc.
Mechanical - DRS, Inc.
Electrical - Carl J. Long & Associates
Soils
Consultant - David Levin
### Project Information

**Project Name:** Allegheny Center Apartment #1<br>**Owner:** Allegheny Center Associates, Inc.<br>**Requesting Agency:**

**Address:** One Allegheny Square<br>**City:** Pittsburgh, PA 15212

**Project No:** 1087.31X

**Project Manager:** C. L. Christen<br>**Project Designer:** L. H. Minnerly

**Date of DRS Contract:** 8/18/61<br>**Design Doc. Started:**

**Design Doc. Completed:**

**Contract Doc. Started:**

**Contract Doc. Completed:** 12/6/65

**Bid Date:** None<br>**Construction Start:** 3/66<br>**Construction Completed:** 9/67

**Total Cost:** $3,842,965.00

**Sq. Ft. Area:** 246,921 SF<br>**Cost/SF:** $15.54/SF

**Fee:** 3.24%

### Consultants

<table>
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<tr>
<th>Structural</th>
<th>Name</th>
<th>Address</th>
<th>Telephone</th>
</tr>
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<tbody>
<tr>
<td>R.M. Gensert Assoc.</td>
<td>The Arcade, Cleveland, Ohio</td>
<td>216/241-7078</td>
<td></td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh.</td>
<td>391-4850</td>
</tr>
<tr>
<td>Plumbing</td>
<td>&quot;</td>
<td>&quot;</td>
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<tr>
<td>Electrical</td>
<td>Carl Long &amp; Assoc.</td>
<td>100 Fifth Ave., Pgh.</td>
<td>471-9100</td>
</tr>
<tr>
<td></td>
<td>John Maguire</td>
<td>Box 245, R.D. 2, Cheswick, Pa.</td>
<td>767-4283</td>
</tr>
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### Contractors

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<tr>
<th>General</th>
<th>Name</th>
<th>Address</th>
<th>Telephone</th>
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</thead>
<tbody>
<tr>
<td>API</td>
<td>Sauer, Inc.</td>
<td>One Allegheny Square</td>
<td>553-4545</td>
</tr>
<tr>
<td>Mechanical</td>
<td>&quot;</td>
<td>30 51st St., Pgh.</td>
<td>682-6408</td>
</tr>
<tr>
<td>Plumbing</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
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<tr>
<td>Electrical</td>
<td>Frame Electric Co.</td>
<td>841 California Ave., Pgh.</td>
<td>322-1500</td>
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### Cost Data

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<th>FINAL (as of: 9/7/73)</th>
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<td>$3,580,358.00</td>
<td>$3,366,000.00</td>
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</table>

**TOTAL:** 3/7/73
DESCRIPTION: Poured in place concrete two story garage for parking below Apartment, with guest parking at grade, with total parking of 137 cars for Apartment 1 only.

Exterior is brick facing with aluminum insulated bay window walls. Steel framing above ground level with concrete slabs over metal form on steel joists. Interior walls and ceilings are plaster with ceramic tile baths. Flooring is of carpeting and wood parquet. Kitchens are Westinghouse all-electric, with vinyl asbestos flooring. Entry doors and most other trim is of aluminum in Duranodic finish.

Apartments have sun deck on the roof, laundry facilities, trash chute and dead storage.

Ground floor apartment units open to outside patios, which in turn front on a large landscaped outer court for tenants use. All courts are of brick paved floors and brick walls.

ELEVATORS: Two 2000# capacity, 250 F.P.M.

HVAC: Rooms are heated and cooled by fan coil units with exterior wall air opening and heating and cooling pipes fed from Central Plant. Kitchens and both rooms are exhausted by separate system. Corridors are supplied with hot or cool air from central unit.

PLUMBING: Water to apartments will have pumped recirculating system to maintain pressure at all times.

FIRE PROTECTION: Standpipe at all stair towers and dry system in garage.

ELECTRIC LIGHT AND POWER: Fire alarm system with connection to City. Apartment telephone and intercom system. Television antenna system. Incandescent lighting with fluorescent in corridors and lobbies.
DESCRIPTION: Poured in place concrete two story garage for parking below Apartment, with guest parking at grade, with total parking of 132 cars for Apartment 8.

Exterior is brick facing with aluminum insulated bay window walls. Steel framing above ground level with concrete slabs over metal form on steel joists. Interior walls and ceilings are plaster with ceramic tile baths. Flooring is of carpeting and wood parquet. Kitchens are Westinghouse all-electric with vinyl asbestos flooring. Entry doors and most other trim is of aluminum in Duranodic finish.

Apartments have sun deck on the roof, laundry facilities, trash chute and dead storage.

Ground Floor will house commercial establishments.

ELEVATORS: Two 2000# capacity, 250 F.P.M.

HVAC: Rooms are heated and cooled by fan coil units with exterior wall air opening and heating and cooling pipes fed from Central Plant. Kitchens and both rooms are exhausted by separate system. Corridors are supplied with hot or cool air from central unit. Commercial areas will have individual systems.

PLUMBING: Water to apartments will have pumped recirculating system to maintain pressure at all times.

FIRE PROTECTION: Standpipe at all stair towers and dry system in garage.

ELECTRIC LIGHT AND POWER: Fire alarm system with connection to city. Apartment telephone and intercom system. Television antenna system. Incandescent lighting with fluorescent in corridors and lobbies.
PROJECT NAME: ALLEGHENY CENTER APARTMENT #8
THREE ALLEGHENY CENTER
PITTSBURGH, PENNA.

PROJECT NO: 1087.38
PROJECT MANAGER: C.L. Christen
PROJECT DESIGNER: J.M. Stephens

Date of DRS Contract: 8/18/61
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 3/1/66
Bid Date:
Construction Start: 6/66
Construction Completed: 4/68
Total Cost: $3,470,423.00
Sq. Ft. Area: 221,678 SF
Cost/SF: $15.65/SF
Fee: 3.35%
165 Units @ $21,032.00/Unit

OWNER: Allegheny Center Associates, Inc.
One Allegheny Square
Pittsburgh, Pa. 15212

REQUESTING AGENCY:

CONSULTANTS

CONSULTANTS NAME ADDRESS TELEPHONE
Structural Deeter Ritchey Sippel Four Gateway Center, Pgh. 391-4850
Mechanical Deeter Ritchey Sippel Four Gateway Center, Pgh. 391-4850
Plumbing Deeter Ritchey Sippel Four Gateway Center, Pgh. 391-4850
Electrical Carl J. Long Assoc. 100 Fifth Ave., Pgh. 471-9100
John Maguire Box 245, R.D. 2 Cheswick, Pa. 767-4283

CONTRACTORS

CONTRACTORS NAME ADDRESS TELEPHONE
General API One Allegheny Square 553-4545
Mechanical Sauer, Inc. 30 51st St., Pgh. 682-6408
Plumbing " " " "
Electrical Frame Electric Co. 841 California Ave., Pgh. 322-1500

COST DATA

ESTIMATE (as of: 1/66) BID (as of: 6/66) FINAL (as of: 4/68)

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL $3,320,620.00 $3,468,000.00 $3,470,423.00
PROJECT NAME: ALLEGHENY CENTER TOWNSHouses
ONE FOSTER SQUARE
PITTSBURGH, PENNA. 15212

PROJECT NO: 1087.4
PROJECT MANAGER: C.L. Christen
PROJECT DESIGNER: H.B. Grant

Date of DRS Contract: 8/18/61
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 

Bid Date: 
Construction Start: 3/67
Construction Completed: 11/67
Total Cost: Unknown
Sq. Ft. Area: Unknown
Cost/SF: Unknown
Fee: 4%
Selling Price $41,900 - $48,900

OWNER: Allegheny Center, Inc.
One Allegheny Center
Pittsburgh, Penna. 15212

REQUESTING AGENCY: 

CONSULTANTS

NAME
ADDRESS
TELEPHONE

Structural
DRS-E.V. Dotter
Four Gateway Center, Pgh. 391-4850

Mechanical
Allegheny Towne Corp.
Allegheny Center, Pgh.
c/o Allegheny Center, Inc.

Plumbing
Allegheny Towne Corp.
Allegheny Center, Pgh.
c/o Allegheny Center, Inc.

Electrical
Allegheny Towne Corp.
Allegheny Center, Pgh.
c/o Allegheny Center, Inc.

CONTRACTORS

General and all others: Allegheny Towne Corp., c/o Allegheny Center, Inc.

1/27/73
DESCRIPTION: 5 party walled units of 3 levels constructed of wood framing on upper two levels and block on lower level with brick veneer facing throughout.

Mansard roof of gray aluminum sheet with standing seams on 1'-9" module. Alcoa specially designed aluminum casement windows throughout, built-up flat roof on wood deck with gravity vents. Brick arches and concrete balconies.

Interior is plaster with wood floors except at vinyl kitchens and ceramic tile baths. End units have fireplace at living room. All interior framing including stairs are of wood. Wood kitchens with electric ranges. Laundry garage and entry are on ground level, with bedrooms on top level.

HVAC: Heating and cooling is supplied by individual air handling units fed by piping from Central Plant.
PROJECT NAME: WESTINGHOUSE ELECTRIC CORP
TELECOMPUTER CENTER
PITTSBURGH, PENNA.

OWNER:
Westinghouse Electric Corp.
Westinghouse Building
Gateway Center
Pgh., Penna.

REQUESTING AGENCY:
Westinghouse Electric Corp.
Headquarters Works Engineering

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
<td>Structural</td>
<td>Martin C. Knabe</td>
<td>945 Oliver Bldg., Pgh.</td>
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<tr>
<td>Mechanical</td>
<td>DRS, M.L. Tepper</td>
<td>4 Gateway Center, Pgh.</td>
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<tr>
<td>Electrical</td>
<td>C.J. Long Assoc.</td>
<td>100 Fifth Av., Pgh.</td>
</tr>
<tr>
<td>Assoc. Architect</td>
<td>Eliot Noyes &amp; Assoc.</td>
<td>105 Main St., New Canaan, Conn.</td>
</tr>
<tr>
<td>Landscape Architect</td>
<td>Simonds &amp; Simonds</td>
<td>100 Ross St., Pgh.</td>
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CONTRACTORS

COST DATA

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<td>$990,384.00</td>
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further information see dead file Drawer P
Area: Basement 13,400 SF  
First Floor 29,600 SF  
Total Bldg. 43,000 SF  

Site 22 Acre  

Volume: 560,000 CF  

Description:  
1. Building in General: One story, flat roof, sun shades, set on podium 2'-6" above finished grade, with partial basement. Plan is approximately a square (166'-6"x176'-6") with Central Core for Computer. Central Core is surrounded by corridor with perimeter areas for offices.  

2. Site Development:  
a. Site had a general slope of 20%.  
b. Prior to completion of working drawings, site was rough graded with all major plumbing and site drainage items installed at this time. A plateau was formed by cutting into slope and filling at low points with a hole left in the vicinity of basement area.  
c. Finished site work: roads, parking, gutters and seeding were installed at time of general construction.  

3. Foundation:  
a. Concrete caissons in basement and fill areas.  
b. Basement walls are concrete acting as grade beams.  
c. Basementless areas have concrete foundation walls on spread footing bearing on virgin soil.  

4. First Floor Framing:  
a. Concrete slab on grade.  
b. Over Basement Areas – steel joists with Steeltex and 3-1/2" concrete slab.  
c. Over Crawl Space (unfinished area under Computer Room) concrete joists, one-way span.  

5. Structural Frame:  
a. Roof Framing is 1-1/2" steel deck over long and short span steel joists.  
b. Joists are supported in the interior areas by tubular steel columns and structural steel beams and girders.  
c. Joists are supported on the exterior by aluminum framed bearing wall. All joists are at a modular spacing of 5'-0" o.c.  
d. Exterior perimeter bearing wall consists of extruded aluminum columns, custom designed by Deeter & Ritchey, Arch., to support five foot overhang and to receive glazing gaskets & interior partitions. Columns are 5'-0" o.c. and were shop fabricated in pairs with horizontal bracing members for web reinforcement. Horizontal bracing in alternate spaces was field installed.
6. Exterior Walls:
   a. Glazing of exterior walls below sill line - Spandrelite, above sill to ceiling line - 1/4" Greylite sheet.
   b. Overhang (5'-0'') on all sides of building consists of vertical "Ar-lite" panels (exposed quartz aggregate in plastic matrix) with cement plaster soffit at interior ceiling height.

7. Roof: 4 ply, built up with gravel.

8. Interior Walls & Partitions:
   a. All basement partitions are exposed concrete block.
   b. Central Core on First Floor contains Computer Area, Toilet Rooms, stairs, and Mechanical Room, walls of all areas are exposed concrete block.
   c. First Floor office areas and corridors have metal studs, lath and plaster partitions.
   d. Computer Area and perimeter office areas on First Floor are subdivided by moveable partitions with micarta finish.

9. Floor Covering:
   a. Computer Areas have vinyl asbestos tile floors; all other first floor areas and basement corridors have asphalt tile floors.

10. Ceilings:
    a. First Floor Lobby, Vestibule and all Toilet Rooms have plaster ceilings.
    b. All other First Floor areas have suspended exposed grid, with lay in acoustical tile, light fixtures, grilles and diffusers.
    c. All Basement Areas have exposed structures.

11. Toilet Rooms: have glazed concrete block walls, ceramic tile floors and metal partitions.

12. Lighting:
    a. General lighting in all First Floor areas is by 1 x 4 florescent lay in light fixtures.
    b. Lights, diffusers, and exposed ceiling grid are composed in 5'-0" modular pattern to express module of exterior aluminum columns.

13. HVAC:
    a. The heating and air-conditioning system is an all electric heat pump installation.
    b. Heat pump units located around the perimeter discharge air along the perimeter walls through a series of sill height grilles. In order to maintain space temperatures, auxiliary resistance heat is added to increase the capacity of the heat pump. The interior zones are on separate units. The lighting level is such that the heat from the lights offsets the heat lost through the roof. In periods of extreme weather, thermostats energize the light so that the lights are used as an auxiliary source of heat.
    c. The Computer Room and the Computers themselves are also on separate units. These areas are more closely controlled with temperature recording controllers and humidity recording controllers. Higher efficiency filters are used in these areas, as well as re-humidification equipment.
**PROJECT NAME:** NATIONAL CASH REGISTER
PAVILION-BLOCK 16 LOT 4
NEW YORK WORLD'S FAIR '64-65

**OWNER:** National Cash Register Co.

**REQUESTING AGENCY:** National Cash Register Co.

**CONSULTANTS**

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<td>Mechanical</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh.</td>
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<td>P.S. Dubin Assoc.</td>
<td>635 Farmington Ave.</td>
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<td>Schreiner &amp; Schmidt</td>
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<td><strong>$1,283,500.00</strong></td>
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*For further information see data file drawers 1-6*

1/27/73
PROJECT NAME: NORTH ALLEGHENY JR.-SR.
HIGH SCHOOL ADDITION - 1963

OWNER: North Allegheny Joint Authority
350 Cumberland Road
Pittsburgh, Pa. 15237

REQUESTING AGENCY:

CONSULTANTS

Structural
R.A. Zern
Mechanical
Alex Dzubay (Deceased)
Plumbing
Jefferson Bedsale
Electrical
Carl J. Long & Assoc.

CONTRACTORS

General
Rea Construction Co.
Mechanical
Carl J. Bonidie
Plumbing
Steel City Piping Co.
Electrical
Tico Electric Co.

ADDRESS
Investment Bldg., Pa.
100 Fifth Ave., Pa.
136 Bradford Ave.
92 Loretta, Bethal Park
1231 Grove Rd., Pgh.
1224 Geo. H. Lysle Blvd
McKeesport, Pa.

TELEPHONE
391-4067
471-9100
921-3030
835-2727
884-5599
461-5818

COST DATA

ESTIMATE (as of: 10/62) BID (as of: 6/63) FINAL (as of: 5/65)

GENERAL
$422,000.00

PLUMBING
$61,440.00

HVAC
$50,800.00

ELECTRICAL
$57,924.00

SITE
$31,400.00

TOTAL
$623,564.00
$641,960.00
$698,741.00
This addition to the school plant consisted of the following:

1. A new teaching gymnasium with locker, toilet and shower areas adjacent thereto for both boys and girls.

2. Football - Baseball - Team rooms for both the home team and visitors with adjacent toilets, shower and drying areas.

3. Drying areas for uniforms and storage areas.

4. Hot water heating area to provide additional facilities for these added shower rooms.

5. A wing containing five classrooms, provision for four additional, a greenhouse and a new corridor running the full length of the school and connecting all transverse corridors.

6. Enclosure of a present court area and its incorporation with two present classrooms into a new enlarged library with adjacent work room and office.

7. Remodeling of old library area to accommodate two new classrooms and a counseling suite.

8. Other general remodeling and repair such as wall and floors that had been damaged by the action of the that was found to be in the soil.

The new wing continued the general type of construction of the existing with one main exception, the building was made of masonry bearing walls rather than steel construction.

Exterior walls are brick to match existing construction.

In new areas concrete block was left exposed in classrooms and in remodeled areas, walls were plastered to match existing work.

New ceilings of classrooms and corridors are of metal acoustical deck, while in existing areas fiber acoustical tiles were used.

Roof deck was covered with 1-1/2" rigid insulation and built-up roofing.

All floors are oak plank construction with 2" concrete fill covered by vinyl asbestos tile.

In the library, the existing equipment, blonde in color, was reused and additional to match was added.

The classroom window walls are aluminum, glass panel walls.
Heating is by hot water unit ventilators and fin connection integrated with storage shelves and sink units. Heating is served through an underground tunnel connecting to heating area. Each classroom has three full walls of chalk and tackboards.

Lighting is fluorescent, similar to existing. Gymnasium lighting is suspended from "Thompson Hangers".
This addition consists of completing the four classrooms for which provision was made under contract 1108. Construction carried out the same detailing. The only unique feature is the in-slab raceway system used for the two classrooms to be used for typing and business machines.
PROJECT NAME: HEALTH CENTER PLANNING STUDIES (MASTER PLAN)  

PROJECT NO: 1110 (1961)  
PROJECT MANAGER: T. V. Thorsen  
PROJECT DESIGNER: W. H. Sippel J. Kozak  

Date of DRS Contract:  
Design Doc. Started:  
Design Doc. Completed:  
Contract Doc. Started:  
Contract Doc. Completed:  

Bid Date:  
Construction Start:  
Construction Completed:  
Total Cost:  
Sq. Ft. Area:  
Cost/SF:  
Fee:  

OWNER: Allegheny General Hospital  
320 East North Ave.  
Pgh., Pa. 15212  

REQUESTING AGENCY: National Institutes of Health  
Hill-Burton  

CONSULTANTS NAME ADDRESS TELEPHONE  
Mr. L. D. Grapski, Executive Director, stated on 1/12/68 that he will act as Hospital Consultant.  

Structural E. V. Dotter - DRS, Inc. Four Gateway Center 391-4850  
Mechanical M. L. Tepper - DRS, Inc. Four Gateway Center 391-4850  
Electrical Peter F. Loftus Chamber of Commerce Bldg. 391-2280  

PLANNING STUDY ONLY  

CLIENT: Allegheny General Hospital  

LOCATION: East North Avenue  
Pittsburgh, Pa. 15212  

YEAR: April, 1961  

DESCRIPTION: Proposed Medical School & Health Center  
Phase I. Redevelopment of existing areas  
New West Wing - 72,000 SF  
Professional Bldg. - 50,000 SF  

Phase 2. Medical Services  
Building - 335,000 SF  
Activities Bldg. - 26,300 SF  
Dormitory & Apartments - 77,800 SF  

Phase 3. Additional School - 80,000 SF  
" " - 80,000 SF  
" " - 80,000 SF  
Housing - 50,000 SF  

Total 851,100 SF  

Estimate of Cost - $40,000,000  

As of 1-13-68 DRS was directed to prepare a new program.  

3/7/73
Mr. Lad F. Grapski, Executive Director, stated on 1/12/68 that he will act as Hospital Consultant.

11/68 $1,153,000 USPHS grant received by AGH August 1968.

9/68 Gross schematics and general site development plans completed September 1968.

8/68 Work on First Phase detail schematics of the Northwest Wing, DRS #1110.29, commenced in August, 1968. DRS initial estimate including owner expense, fees, etc. was $5,632,779 for 68,400 GSF, $62.64/SF.

10/68 First Phase schematics N.W. Wing to USPHS Harrisburg, October 1968.

11/68 Total cost including Medical School, Housing, Parking initially estimated at $125,171,860 as follows:

- Hospital Expansion & Alterations 983,641 SF @ (av.) 48.03 = 63,638,532
- Research, Utilities & Parking 282,466 SF @ (av.) 46.04 = 10,367,875
- Educational Facilities 609,568 SF @ (av.) 54.82 = 33,417,667
- Housing 304,583 SF @ (av.) = 11,897,786
- Additional Parking 153,300 SF @ (av.) 17.85 = 2,737,500

2,333,600
68,400
2,402,000 = Total Gross SF.

12/68 Above estimate now obsolete in view of new published data.
| Gross of Alterations Existing | Gross of New (8/8/68) | Total Gross Of
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<td>2,001,660 = Total New Construction</td>
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The Building Complex is to be designed for a long range program moving toward a Medical School, the first phase of which is to be the preparation of the existing Hospital Plant for assuming the posture and eventual goal of a 700 bed teaching hospital.

No costs available 8/3/68
MASTER PLAN STUDIES ONLY - CONCEPTS OF MASTER PLAN ARE DETAILED IN "ALLEGHENY GENERAL HOSPITAL, LONG RANGE ARCHITECTURAL DEVELOPMENT BROCHURES; Volume 1 EXPLORATORY DESIGN SUMMARY REPORT 1-9-70 AND Volume 2 - SCHEMATIC DESIGN SUMMARY REPORT 5-15-70."
Long range plans call for this regional teaching hospital to grow to a potential of 1,000 beds, with medical research and educational facilities, housing for staff and students, and related parking.

A series of site development alternatives were developed based upon the concept of a Circulation/Distribution network being the basic skeletal framework of a Master Plan. These alternatives were evaluated in terms of Hospital Function, Community Impact, and Land Availability and Timing. The final plan reflects vehicular access, circulation systems, space organization and phasing as they effect a particular architectural form for the primary site alternative, completed 1970.
PROJECT NAME: WEST WING
FUNCTIONAL PLANNING STUDIES
(PARTIAL)

OWNER: Allegheny General Hospital

REQUESTING AGENCY: Hill-Burton NIH

New Program Being Developed Under #1110

CONSULTANTS
NAME
ADDRESS

Not Selected

PROJECT NO. #1110.1
PROJECT MANAGER T. V. Thorsen
PROJECT DESIGNER W.H.S. WBS

Date of DRS Contract April, 1961
Documents Completed May, 1966
Bid Date None
Construction Start Not Scheduled
Construction Completed
Total Cost 6.5
Sq. Ft. Area 91,000 SF
Cost/SF 71.43
Fee 6.5%
PROJECT NAME: ALTERATIONS ACH - SINGER INSTITUTE

OWNER:
Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pa. 15212

REQUESTING AGENCY:
Walter E. Landgraf
Superintendent

CONSULTANTS
Mechanical
M. L. Tepper (DRS)
Structural
E.V. Dotter (DRS)
Electrical
P. F. Loftus Corp.

PROJECT NO:
1110.3

PROJECT MANAGER:
T. V. Thorsen

PROJECT DESIGNER:
John F. Schonder

Date of DRS Contract:
Sept. 5, 1968

Design Doc. Started:
Stopped Jan. 1967

Design Doc. Completed:
Started Feb. 1968

Contract Doc. Started:
Stopped Mar. 1968

Contract Doc. Completed:
Now in 1st Phase

Bid Date:
Master Plan

Construction Start:
$376,000

Construction Completed:
11,000 Net

Total Cost:
34.10

Sq. Ft. Area:
Cost/SF:
Fees:

Ground and Third Floor Alterations existing North and Northwest Wings

Replaced by 1110.3-1
PROJECT NAME: SINGER INSTITUTE
Interim Alterations
Allegheny General Hospital

PROJECT NO: 1110.3-1
PROJECT MANAGER: T. V. Thorsen
PROJECT DESIGNER: C. J. Brooks

Date of DRS Contract: July 1968
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Bid Date: April 29, 1969
Construction Start: May 19, 1969
Construction Completed: 
Total Cost: $251,600.00
Sq. Ft. Area: 3,850 SF
Cost/SF: $65.35 SF
Fee: Hourly to 8%

OWNER: Allegheny General Hospital
320 East North Ave.
Pittsburgh, Pa. 15212

REQUESTING AGENCY: Owner

CONSULTANTS

NAME
ADDRESS
TELEPHONE

Structural
DRS, Inc.
Four Gateway Center
Pittsburgh, Pa. 15222
391-4850

Mechanical
DRS, Inc.
Four Gateway Center
Pittsburgh, Pa. 15222
391-4850

Electrical
Peter F. Loftus
Chamber of Commerce Bldg.
Pittsburgh, Pa. 15219
391-2280

CONTRACTORS

General
John Deklewa and Sons
1273 Washington Pike
Bridgeville, Pa.
561-6455

Mechanical
Koening, Inc.
126 Cherry St.
Pittsburgh, Pa. 15223
782-2800

Electrical
Franklin Electric Construction Co.
916 Fulton Street
Pittsburgh, Pa. 15233
322-4477

Plumbing
Plumbers, Inc.
3625 Oakleaf Road
Pittsburgh, Pa. 15227
881-4644

Alterations for new virology laboratories, media culture, glassware processing and locker room facilities

COST DATA

ESTIMATE (as of: ) BID (as of: ) FINAL (as of: )

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL $255,000.00 $251,600.00 $251,600.00

3/7/73
### Project Information

**Project Name:** School of Practical Nursing  
**Allegheny General Hospital**

**Project No.:** 1110.7  
**Project Manager:** F. Knoble  
**Project Designer:** J. Stephens

- **Date of DRS Contract:** April 13, 1966  
- **Design Doc. Started:**  
- **Design Doc. Completed:**  
- **Contract Doc. Started:**  
- **Contract Doc. Completed:** June 3, 1966  
- **Bid Date:** June 16, 1966  
- **Construction Start:**  
- **Construction Completed:** 9/68  
- **Total Cost:** $1,029,406.42  
- **Sq. Ft. Area:** 30,000 SF  
- **Cost/SP:** $34.30/SF  
- **Fee:** 6.5%  
- 300 Students @ $2,866.05 per student  
- **As of 7/25/69**

**Address:**
- **Telephone:**

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<td>Deeter Ritchey Sippel</td>
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<td>Hornfeck Engr., Inc.</td>
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<td>Architect</td>
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<td>Crump, Inc.</td>
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<td>Plumbing</td>
<td>Sauer, Inc.</td>
<td>30 51st St., Pgh.</td>
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<td>506 Milvale Ave., Pgh.</td>
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**Total:**  
- **Estimate:** $825,059.00  
- **Bid:** $874,735.00  
- **Final:** $1,029,406.42

1/26/73
PROJECT: SCHOOL OF PRACTICAL NURSING, PITTSBURGH BOARD OF PUBLIC EDUCATION ALLEGHENY GENERAL HOSPITAL

LOCATION: PITTSBURGH, PENNSYLVANIA

The School of Practical Nursing at Allegheny General Hospital designed by Deeter Ritchey Sippel completes the first phase of Health Training Institute, a part of Allegheny General Hospital Medical Center.

This phase contains the classroom facilities for the training of 360 practical nursing students. The existing hospital is the operational center and students observe actual procedures to supplement their classroom study. The facilities will ultimately develop to include other vocations which are health oriented. This would be accomplished by expansion and alterations of existing areas.

The site of the medical school is on the existing hospital grounds. The hospital itself occupies 5 acres of the 13 acres available. It is 20 stories at its main tower. In addition, there is a nurses residence of 10 stories to the north of the hospital. It is separated from the hospital by a garden which during the summer months is used by nurses coming and going to their duties at the hospital. It is connected directly to the hospital by tunnel below grade. Immediately east of the nurses residence is the School of Practical Nursing site. It is bounded on the north by Hemlock Street, on the east by James Street. To the south is hospital property which will be used to extend the hospital proper. The site drops off steadily from north to south at a slope of approximately 12%.

The program developed by the client and the architect separated into three basic elements: the student teaching module, the library study area, and the faculty area. The faculty area could not initially be remote from teaching areas yet it was desirable to have its own identity. As it is the area least traveled, it occupies the upper floor of the main body of the building with connections for dissemination of audio-video material to the floors below. This floor is basically small flexible spaces subject to change as faculty grows or reduces. Consequently, there are as many window openings as permitted by the structure for controlled natural light. There openings are deeply recessed to reduce glare and direct sun. On the teaching floors, natural light was not desired in quantity, only as a relief from total enclosure. These windows are also deeply recessed and shuttered for light control during video transmissions. The ground floor of the major building mass contains the conference center used jointly by students and visiting guidance counsellors.

The program anticipated that two types of teaching methods would be used; one the thirty student conventional classroom and the other a ten-student seminar room utilizing closed circuit audio-visual media. Their teaching methods will eventually convert to a total remote programming on instruction with only a few highly trained instructors necessary.
The most difficult siting problem was the transition from nurses residence to the new school. To avoid a disjointed appearance and maintain separation of the four-story student-faculty wing from the overwhelming mass of the ten-story nurses residence, the library, a unit capable of functioning by itself, was located between these two dissimilar elements. This forms a low-keyed massive connector visually which from the street side is one story.

The library is a two-story element partially below grade due to site contour. The corridor connection to the nurses residence cuts through the library at the mezzanine level. The high study carrel area is lighted day and night from the same light source. North oriented ceiling light wells perform their task during daylight and flourescent units within the same well take over at night.

Within the pattern of existing facilities together with future anticipated facilities and the new School of Practical Nursing, it was intended that a new pedestrian court would be created to the east of the present hospital garden. (See overall site plan.) It was envisioned that this series of large and small court spaces between buildings would create a cloister-like environment favorable to pedestrian and invalid use of the grounds.

The construction is of gray face brick bearing wall with precast concrete lintels; canopies and skylights were used to enclose and finish the building. The floor system is a 2-1/2" concrete slab on light weight steel joists. A minimum of steel beams and columns were used on the interior to support the floor and roof system.

Exterior windows are aluminum and glass.

Interior and exterior doors and frames are painted hollow metal.

Interior finishes consist of exposed face brick in the lobby, entrances, and library. Classrooms and corridors are painted concrete block. The faculty floor and conference center are painted plaster.

Because of the diverse uses of the building, it was necessary to have different types of mechanical systems for different areas. The third floor which is primarily office area is air conditioned by an air handling unit with auxiliary radiation. First and second floors which are primarily classrooms are heated and cooled by classroom ventilators. The ground floor which consists primarily of lunchroom and locker room is heated and ventilated by a heating and ventilating unit with auxiliary radiation.
PROJECT NAME: CLINICAL RADIATION THERAPY
Allegheny General Hospital
Pittsburgh, Pa. 15212

OWNER: Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pa. 15212

REQUESTING AGENCY: National Institute of Health
Bethesda, Maryland
American Cancer Institute
Washington, D.C.

CONSULTANTS NAME ADDRESS TELEPHONE

NONE

Preparation of documents and application for National Institute of Health Grant.
<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRUCTURAL</td>
<td>DRS Inc.</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
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<td>MECHANICAL</td>
<td>DRS Inc.</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
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June 1969
PROJECT NAME: ALLEGHENY GENERAL HOSPITAL
EXTERIOR MASONRY & ROOF REPAIRS

PROJECT NO: 1110.21
PROJECT MANAGER: T.V. Thorsen
PROJECT DESIGNER: S.E. Zionts

Date of DRS Contract: 6-11-68 (Client Memo #58)
Design Doc. Started: 
Design Doc. Completed: 1-1-69
Contract Doc. Started: 1-1-69
Bid Date: 2-15-69
Construction Start: 4-1-69
Construction Completed: 11-1-69
Total Cost: $500,000.00 Est.

OWNER: ALLEGHENY GENERAL HOSPITAL
EAST NORTH AVENUE
PITTSBURGH, PA.

REQUESTING AGENCY: OWNER

CONSULTANTS NAME ADDRESS TELEPHONE

June 1969
PROJECT NAME: ALLEGHENY GENERAL HOSPITAL  
INTERIM SITE LANDSCAPING

OWNER: ALLEGHENY GENERAL HOSPITAL  
EAST NORTH AVENUE  
PITTSBURGH, PA.

REQUESTING AGENCY: OWNER

CONSULTANTS NAME
NONE

PROJECT NO: 1110.22-1
PROJECT MANAGER: T.V. Thorsen
PROJECT DESIGNER: E.H. Koudela

Date of DRS Contract: 3-18-68 (Client Memo #48)
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 5-17-68
Bid Date: 7-9-68
Construction Start: 7-26-68
Construction Completed: 6-15-69
Total Cost: $18,500.00
Sg. Ft. Area: SITE AREA ONLY
Cost/SF:
Fee: HOURLY

June, 1969
**PROJECT NAME:** ALLEGHENY GENERAL HOSPITAL HEATING & COOLING FEASIBILITY STUDY  

**PROJECT NO:** 1110.23  

**PROJECT MANAGER:** T.V. Thorsen  

**PROJECT DESIGNER:**  

**OWNER:** ALLEGHENY GENERAL HOSPITAL  
EAST NORTH AVENUE  
PITTSBURGH, PA.  

**REQUESTING AGENCY:** OWNER  

**CONSULTANTS**  

<table>
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<tr>
<td>Electrical</td>
<td>Chamber of Commerce Bldg.</td>
<td>391-2280</td>
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<tr>
<td>Peter F. Loftus Corp.</td>
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**Date of DRS Contract:** 3/28/68  
**Design Doc. Started:** 10/7/68  
**Design Doc. Completed:** STUDY ONLY  
**Contract Doc. Started:** N.A.  
**Contract Doc. Completed:** N.A.  
**Bid Date:** N.A.  
**Construction Start:** N.A.  
**Construction Completed:** N.A.  
**Total Cost:** $8,800,000.00  
**Sq. Ft. Area:** 2,800,000 SF  
**Cost/SF:** $5.00 to $8.00  
**Fee:** projected  

**JUNE 1969**
PROJECT NAME: ALLEGHENY GENERAL HOSPITAL INTERIM SITE FACILITIES REPAIR

PROJECT NO: 1110.24
PROJECT MANAGER: T.V. Thorsen
PROJECT DESIGNER: E.H. Koudela

Date of DRS Contract: 5/8/68 (TVT Letter)
Design Doc. Started: 2/20/68
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 

OWNER: ALLEGHENY GENERAL HOSPITAL
EAST NORTH AVENUE
PITTSBURGH, PA.

Bid Date: 6/30/68
Construction Start: 7/7/68
Construction Completed: 4/1/69
Total Cost: $168,400.00

REQUESTING AGENCY: OWNER

CONSULTANTS
NAME
ADDRESS
TELEPHONE

June, 1969
PROJECT NAME: ALLEGHENY GENERAL HOSPITAL
INTERIM RESEARCH FACILITY

PROJECT NO: 1110.26
PROJECT MANAGER: T.V. Thorsen
PROJECT DESIGNER: C.J. Brooks

Date of DRS Contract: 9-6-68 (TVT Letter)
Design Doc. Started: 1-1-69
Design Doc. Completed: STUDY ONLY
Contract Doc. Started: N.A.
Contract Doc. Completed: N.A.

OWNER: ALLEGHENY GENERAL HOSPITAL
EAST NORTH AVENUE
PITTSBURGH, PA.

Bid Date: N.A.
Construction Start: N.A.
Construction Completed: N.A.
Total Cost: $2,200,000.00
Sq. Ft. Area: 33,513SF
Cost/SF: $65.65/SF
Fee: %

REQUESTING AGENCY: OWNER

CONSULTANTS
Structural
Mechanical
Electrical

NAME
DRS Inc.
DRS Inc.
Peter F. Loftus Corp.

ADDRESS
Four Gateway Center
Four Gateway Center
Chamber of Commerce Bldg.

TELEPHONE
391-4850
391-4850
391-2286

June 1969
PROJECT NAME: ALLEGHENY GENERAL HOSPITAL
NORTHWEST WING
Pittsburgh, Pa. 15212

OWNER: Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pa. 15212

REQUESTING AGENCY: Health Education & Welfare
Hill-Burton
National Institutes of Health

CONSULTANTS

Structural DRS, Inc.
Mechanical Eng. DRS, Inc.
Electrical Peter F. Loftus Corp.

PROJECT MANAGER: R. E. Girts
PROJECT DESIGNER: J. Kozak

PROJECT NO: 1110.29

Date of DRS Contract: 8/9/68
Bid Date: Construction Start: July, 1971
Construction Completed:

Total Cost: $6,961,513.00
Sq. Ft. Area: 80,752 SF
Cost/SF: 62.00 - 30,873 new a + t Fee: Hourly to .08% plus o. t.

CONTRACTOR

General Jendoco Construction Corporation
2000 Lincoln Road
Pittsburgh, Pa. 15235

HVAC Schneider, Inc.
230 Stanton Ave., Pgh.

Electrical Ernst Electric Co.
3424 Liberty Ave., Pgh.

Plumbing Wayne-Crouse, Inc.
3370 Stafford St., Pgh.

DESCRIPTION

Three story + 2 basements addition, steel frame, brick exterior structure housing New Radiation Therapy and Research Areas on 02 Level, New Emergency Entrance and Treatment Area on First Floor, clinical areas on 01, 2nd and 3rd floors. Also included are alterations to the existing Singer Lab Area, New Autopsy Rooms, alterations to the Executive Board Room.

COST DATA

GENERAL

PLUMBING

HVAC

ELECTRICAL

Change Orders $21,513.00

TOTAL

ESTIMATE (as of: 3/70 ) BID (as of: 5/71 ) FINAL (as of: 1/72 )

$6,000,000.00 $6,940,000.00 $6,961,513.00

3/7/73
PROJECT NAME: DIVISION OF PEDIATRICS & MECHANICAL TOWER
Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pa. 15212

PROJECT NO: 1110.30
PROJECT MANAGER: J. F. Schonder/
PROJECT DESIGNER: R. E. Grits
F. Quill
Date of DRS Contract: 2/20/69
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 6/8/70
Contract Doc. Completed: 
Bid Date: 2/18/71
Construction Start: 7/15/71
Construction Completed: 1/73
Total Cost: $1,189,000
Sq. Ft. Area: 
Cost/SF: 
Fee: 6% new, 9.5% existing work

OWNER: Allegheny General Hospital
REQUESTING AGENCY: Owner

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
<td>Structural</td>
<td>DRS Four Gateway Center</td>
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<td>Peter F. Loftus 900 Chamber of Commerce Bldg. 391-2280</td>
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<td>Pittsburgh, Pa. 15219</td>
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CONTRACTORS

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<td>General</td>
<td>Mellon-Stuart Co. 1425 Beaver Avenue</td>
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<td>E. C. Ernst, Inc. 3424 Liberty Ave.</td>
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<td>Penn Plumbing &amp; Heating Company 1235 Washington Blvd.</td>
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<td>HVAC</td>
<td>Garfield, Inc. 21 Sedgwick St.</td>
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<td>Reiter Sheet Metal 100 Sandy Creek Road</td>
<td>242-8442</td>
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/7/73
To renovate the existing 4th floor Pediatrics Area to reflect the current and future trend in child care, it was found that the existing Hospital could no longer air condition its present facility without using valuable bed space to accommodate the Mechanical Equipment and machinery. A 9 story high mechanical tower was designed to provide mechanical space, some treatment and care space, future expansion, and a Material Handling Receiving Center.

The renovation features: Piped gases to the bedside, elimination of the group wards, air conditioning, new windows, and a more pleasant environment for the children. One wing of the floor is dedicated to educational, administrative and visitors spaces. A new Maximum Observation Unit will permit closer observation and maximum care of acute illness.

The Scope of work for 1110.30, Allegheny General Hospital - Division of Pediatrics has been increased to include the following:

- Pediatrics (4th floor) 200,000 - 9.5% = 114,000
- Mechanical Tower 550,000 - 7% = 38,500
- Roof Coping 10,000 - 9.5% = 950
- Loading Dock 250,000 - 7% = 17,500
- Mech. Room 100,000 - 9.5% = 9,500

Total 110,000

Fee equals 9% x 2,110,000 = $180,450

Total hours at $18.00 = 10,025 hours

Percent budget used 6,493 - 10,025 = 65.6%

Percent Job Completion 85% Drawings.
Project: Allegheny General Hospital  
Division of Pediatrics and Mechanical Tower

Location: Pittsburgh, Pennsylvania

Scope: Renovation of existing hospital area to reflect the current and future treatment programs in child care. The new facilities will include a maximum observation unit, nursing units, treatment areas and educational, administrative and visitor's spaces.

A nine story mechanical tower was designed to provide mechanical space for air-conditioning equipment without eliminating valuable patient bed space in the hospital. The tower will also provide limited care and treatment space and a material handling receiving center.

Construction Cost: Approximately $1.8 million

Name & Address of Legal Owner: Allegheny General Hospital  
320 East North Avenue  
Pittsburgh, Pennsylvania 15212

Owner's Representative: Mr. Plato A. Marinakos  
Executive Director  
Allegheny General Hospital  
320 East North Avenue  
Pittsburgh, Pennsylvania 15212  
(412) 237-3004

Architect's Representative: Vice President - William H. Sippel, Jr.  
Project Architect - Robert E. Grits  
Job Captain - John F. Schonder

Consultants retained by Owner: Soils - E. D'Appolonia Consulting Engineers, Inc.

Consultants retained by Architect: Structural - DRS Inc.  
Mechanical - DRS Inc.  
Electrical - Peter F. Loftus

Status: Project is presently under construction and is scheduled for completion in June 1973.
PROJECT NAME: SITE STEAM & CHILLED WATER DISTRIBUTION SYSTEM
Allegheny General Hospital

OWNER: Allegheny General Hospital
320 East North Avenue
Pittsburgh, Pa. 15212

REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE

Mechanical DRS, Inc
Four Gateway Center
Pittsburgh, Pa. 15222
391-4859

Design of distribution system for steam and chilled water to all hospital areas
PROJECT NAME: INCREMENTAL DENTAL SUITE - THIRD FLOOR - HEALTH TRAINING INSTITUTE

PROJECT NO: 1110.33
PROJECT MANAGER: J. Schonder
PROJECT DESIGNER: J. Warren

Date of DRS Contract: 6/18/69
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 7/30/69
Bid Date: 
Construction Start: 8/15/69
Construction Completed: 12/1/69
Total Cost: $184,000.00
Sq. Ft. Area: 5,000
Cost/SF: $37.00
Fee: 11.25%
Schedule "C"

OWNER: Allegheny General Hospital
320 E. North Avenue
Pittsburgh, Pa. 15212

REQUESTING AGENCY: None for construction HEW for Dental Program

CONSULTANTS

<table>
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<tr>
<th>STRUCTURAL</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
<td>DRS, Inc.</td>
<td>Four Gateway Center Pittsburgh, Pa. 15222</td>
<td>391-4859</td>
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<tr>
<td>DRS, Inc.</td>
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<td>391-4859</td>
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<tr>
<td>Hornfeck Engineering</td>
<td>711 Penn Avenue Bldg. Pittsburgh, Pa. 15222</td>
<td>281-5644</td>
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CONTRACTORS

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<tr>
<td>General</td>
<td>Ragnar Benson, Inc.</td>
<td>#3 Gateway Center Pittsburgh, Pa. 15222</td>
<td>471-7200</td>
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<td>HVAC</td>
<td>Larry Schnierov, Inc.</td>
<td>4606 Allegheny River Blvd. Verona, Penna.</td>
<td>242-9611</td>
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<td>Plumbing</td>
<td>James Smith</td>
<td>2201 Main Street Universal, Penna.</td>
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COST DATA

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<td>$199,500.00</td>
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3/7/73
DESCRIPTION: Renovate the existing 3rd floor of the Health Training Institute and provide facilities for the routine examination of Elementary School Children from the Northside-Manchester Area. About 30 children in both morning and afternoon examination sessions. Ten Dental Examination and Treatment Rooms were provided with facilities for X-ray, Hearing, Eye and Diabetes examinations are also carried out.

The facility has been designed on a functional basis, yet relating to the character of the small children visiting there, bold colors, supergraphics and children's furniture are liberally used to relate to the children.

This alteration was designed to provide a pleasant atmosphere for the elementary and pre-school age children, which for many of whom is their first experience with professional dental care.

The plan which was developed placed the treatment rooms facing north taking advantage of the steady north light. Offices and examining rooms face south and projection rooms, laboratories and storage areas in the central core.

Color accent walls and bold graphic prints provide a warm friendly atmosphere and are in sharp contrast to the sterile white or light green normally associated with a facility of this type. Large graphic directional signs were designed to lead the children through the treatment procedure areas.

The Contract with the General Contractor was a stipulated fixed maximum fee Contract with incentive bonus of 25% of all monies saved. DRSA was responsible for verifying all manhour reports and material invoices prior to payment and were able, by working closely with the Contractor, to turn back to the Owner a net saving of 10% of the total project costs.
PROJECT NAME: UNIVERSITY OF PITTSBURGH  
NEW DORMITORY

PROJECT NO: 1111.1  
PROJECT MANAGER: S.E. Zionts  
PROJECT DESIGNER: P. Hundley

Date of DRS Contract: 4/13/67  
Design Doc. Started: 2/29/68  
Design Doc. Completed: NA  
Contract Doc. Started: NA  
Contract Doc. Completed: NA  
Bid Date: NA  
Construction Start: NA  
Construction Completed: NA  
Total Cost: (Estimated) $11,900,000.00  
Sq. Ft. Area (Estimated): 404,500 SF  
Cost/SF: (Estimated): $29.42/SF  
Fee: 4.8%  

OWNER: The General State Authority  
18th & Herr Streets  
Harrisburg, Pa. 17120

REQUESTING AGENCY: University of Pittsburgh  
Physical Plant  
Pgh., Pa. 15213

CONSULTANTS  

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
</table>
| Structural             | E.V. Dotter, DRS  
Four Gateway Center, Pgh.  
391-4850              |           |
| Mechanical             | M.L. Tepper, DRS  
Four Gateway Center, Pgh.  
391-4850              |           |
| Plumbing               | M.L. Tepper, DRS  
Four Gateway Center, Pgh.  
391-4850              |           |
| Electrical             | Carl J. Long, Assoc.  
100 Fifth Ave., Pgh.  
471-9100              |           |
| John Maguire           | Box 245, R.D.2, Cheswick, Pa. 767-4283       |           |
| Food Service           | Associated Architectural 2 Riverside Center, Harrisburg, Pa. 17102 |
| Equipment              | Consultants, Food Facilities Designers       |

PROJECT CANCELLED BY THE UNIVERSITY IN PRELIMINARY DESIGN PHASE
PROJECT NAME: UNIVERSITY OF PITTSBURGH
HILLSIDE RESIDENTIAL COMPLEX
PITTSBURGH, PENNA.

OWNER: General State Authority
18th & Herr Sts.
Harrisburg, Pa. 17120

REQUESTING AGENCY: University of Pittsburgh
Physical Plant
Cathedral of Learning, 15213
Hunt Martin, Director

CONSULTANTS

NAME

Structural Engineer
R.M. Gensert

Mechanical Engineer
DRS, Inc.

Plumbing Engineer
DRS, Inc.

Electrical Engineer
Carl J. Long & Assoc.

GSA PROJECT NO. 1103-11
PROJECT NO. 1111.11B
PROJECT MANAGER: S.E. Zionts
PROJECT DESIGNER: P.S. Hundley

Date of DRS Contract: 4/13/68
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 12/71
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost: $13,215,000.00
Sq. Ft. Area: 390,000 SF
Cost/SF: $33.88/SF
Fee:

1520 students @ $8,694.67 per student

ADDRESS

718 The Arcade
Cleveland, Ohio 44114

TELEPHONE

261/241-7078

Four Gateway Center, Pgh. 391-4859

Four Gateway Center, Pgh. 391-4859

100 Fifth Ave., Pgh.

PROJECT CANCELLED BY THE GENERAL STATE AUTHORITY AFTER ALL CONTRACT DOCUMENTS WERE COMPLETED.

1/27/73
PROJECT NAME: UNIVERSITY OF PITTSBURGH
MASTER PLAN

OWNER: Commonwealth of Penna.
Dept. of Property & Supplies
Harrisburg, Pa.

REQUESTING AGENCY: University of Pittsburgh
Physical Plant
Cathedral of Learning
Pittsburgh, Pa.

CONSULTANTS NAME
Engineering Consultant
Peter F. Loftus Corp.

Geologic & Foundation Engineering
A.C. Ackenheil & Assoc.

Data Collection and Analysis Planning Assoc.
( ) Pittsburgh Regional

Landscape Architecture
M. Robert Fenton

PROJECT NO: 1111.5
PROJECT MANAGER: A.J. Millas
PROJECT DESIGNER:

Date of DRS Contract: Feb., 1967
Design Doc. Started: NA
Contract Doc. Started: NA
Contract Doc. Completed: NA
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost: NA
Sq. Ft. Area: NA
Cost/SF: NA
Fee: NA

ADDRESS TELEPHONE
Chamber of Commerce Bldg. 391-2280
Pittsburgh, Penna.

1000 Banksville Road 531-7111
Pittsburgh, Pa.

564 Forbes Ave. 391-4120
Pgh., Pa.

6010 Center Avenue
Pgh., Pa.

MASTER PLANNING STUDY ONLY
PROJECT NAME: UNIVERSITY OF PITTSBURGH FORBES COMPLEX
DEVELOPMENT PLAN

OWNER: Commonwealth of Penna.
Dept. of Property & Supplies
Harrisburg, Pa.

REQUESTING AGENCY: University of Pittsburgh
Physical Plant
Cathedral of Learning
Pgh., Pa.

CONSULTANTS NAME ADDRESS TELEPHONE

Structural Engineer R.M. Gensert Assoc.
718 The Arcade
Cleveland, Ohio 44114 261/241-7078

Engineering Consultant Peter F. Loftus Corp.
Chamber of Commerce Bldg.
Pgh., Pa. 15219 391-2280

Geologic & Foundation Engineering A.C. Ackenheil & Assoc.
1000 Banksville Road
Pgh., Pa. 531-7111

Data Collection & Analysis Pittsburgh Regional Planning Assoc.
564 Forbes Ave.
Pgh., Penna. 15219 391-4120

Landscape Architecture M. Robert Fenton
6010 Penn Circle South
Pittsburgh, Pa. 15206 441-4600

PROJECT NO: 1111.6
PROJECT MANAGER: W.H. Sippel
PROJECT DESIGNER: L.H. Minnerly

Date of DRS Contract: 2/67
Design Doc. Started: 8/68
Design Doc. Completed: NA
Contract Doc. Started: NA
Contract Doc. Completed: NA
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost: NA
Sq. Ft. Area: 2,000,000SF+
Cost/SF: NA
Fee: NA

MASTER PLAN & DEVELOPMENT STUDIES ONLY

1/27/73
**PROJECT NAME:** CENTRAL HEATING & COOLING PLANT  
EQUITABLE GAS-ENERGY CO.  

**PROJECT NO:** 1112  
**PROJECT MANAGER:** F. Knoble  
**PROJECT DESIGNER:** H. B. Grant  

Date of DRS Contract: 8/23/63  
Design Doc. Started:  
Design Doc. Completed:  
Contract Doc. Started:  
Contract Doc. Completed: 1/64  
Bid Date: 2/65  
Construction Start: 3/65  
Construction Completed: 7/66  
Total Cost: $1,454,648.36  
Sq. Ft. Area: 29,265 SF  
Cost/SF: $49.70/SF  
Fee: 6%  

**OWNER:** Equitable Gas Energy Co.  

**REQUESTING AGENCY:** Ford Bacon & Davis, Inc.  

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh.</td>
<td>391-4850</td>
</tr>
<tr>
<td>HVAC</td>
<td>Ford, Bacon &amp; Davis, Inc.</td>
<td>2 Broadway, N.Y., N.Y.</td>
<td>212/DI4-3200</td>
</tr>
<tr>
<td>Electrical</td>
<td>John F. Maguire</td>
<td>Box 245, R.D. #2, Cheswick, Pa.</td>
<td>767-4283</td>
</tr>
<tr>
<td>Lighting</td>
<td>John F. Maguire</td>
<td>Box 245, R.D. #2, Cheswick, Pa.</td>
<td>767-4283</td>
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**CONTRACTORS**  

| ( ) General | Martin & Nettour | 1030 Union Trust Bldg., Pgh. 281-3600 |

**COST DATA**  

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<th>BID (as of:6/65)</th>
<th>FINAL (as of:7/66)</th>
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<td>$614,510.00</td>
<td>$626,000.00</td>
<td>$1,454,648.36</td>
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1/27/73
CENTRAL HEATING & COOLING PLANT - EQUITABLE GAS-ENERGY CO.
PROJECT NO. 1112

DESCRIPTION: A 2-story central steam and chilled-water plant servicing Allegheny Center, with capacity for service to future major projects on the North Side of Pittsburgh.

Lower floor of concrete faced with brick, roof framed with long-span trusses carried on custom aluminum extrusions which also frame 1/2 in. plate glass on long elevations of building (N. & S.). End and interior brick masonry load-bearing walls. Flat, 4-ply built-up roof. Framing exposed at Operating Floor, painted.


HVAC: Plant has large capacity roof exhaust fans for ventilation (no a/c). Perimeter hot water baseboard radiation.

PLUMBING: Domestic water, sanitary-storm to city system. High-pressure gas from Equitable lines.
Mens Toilet-Shower Rooms, Womens Toilet.

ELECTRICAL: High output mercury vapor lamps at Operating Room, 1' x 4' ft. standard fluorescents typical for offices at 75-100 f.c.

GAS FIXTURES: Special design bronze gas lamps, pole mounted at street entrance steps and wall mounted at entrance.

COOLING TOWER: Separate redwood cooling tower constructed on grade; facing of medium bronze color matt finish coated cement-asbestos panels - aluminum trim.
**PROJECT NAME:** NATIONAL GUARD ARMORY  
PENNSYLVANIA NATIONAL GUARD

**PROJECT NO:** 1116  
**PROJECT MANAGER:** F. Knoble  
**PROJECT DESIGNER:** A. Millas

**OWNER:** University of Pittsburgh & National Guard of Penna.

**REQUESTING AGENCY:** University of Pittsburgh for Penna. National Guard

**CONSULTANTS**

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>E.V. Dotter, DRS</td>
<td>Rm. 740 4 Gateway Center 391-4850</td>
</tr>
<tr>
<td>Mechanical</td>
<td>H.H. Reich</td>
<td>951 Penn Ave., Pittsburgh 471-8323</td>
</tr>
<tr>
<td>Electrical</td>
<td>H.H. Reich</td>
<td>951 Penn Ave., Pgh. 471-8323</td>
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**CONTRACTORS**

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<tr>
<th>AREA</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
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<tbody>
<tr>
<td>General</td>
<td>Martin &amp; Nettour</td>
<td>1030 Union Trust Bldg. Pgh., Pa. 15219</td>
<td>281-3600</td>
</tr>
<tr>
<td>HVAC (Plumbing)</td>
<td>Penn Plumbing &amp; Heating</td>
<td>645 Collins St., Pgh. Pa. 441-3346</td>
<td>881-5664</td>
</tr>
<tr>
<td></td>
<td>Ted Walsh &amp; Son</td>
<td>2040 Brownsville Rd., Pgh., Pa. 271-7964</td>
<td>481-6868</td>
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<tr>
<td>Electrical</td>
<td>Terry Electric Co.</td>
<td>314 Hays Avenue, Pgh. Pa.</td>
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**COST DATA**

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<tr>
<td>$913,361.00</td>
<td>$778,117.00</td>
<td>$801,094.34</td>
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</table>

1/27/73
DESCRIPTION: Offices for (19) officers and classrooms and facilities for (100) men in a 2 and 3 story load-bearing block and brick structure. Grade beams on caissons to bottom of mineshafts. Steel joist floor and roof framing, long-span (100'-0") joists at Drill Hall. Concrete floor decks on steel forms, slabs on grade between grade beams. Concrete block interior partitions.

FINISHES: Acoustic plaster ceilings in corridors and offices, exposed structure painted in all other spaces. Painted concrete block (grid block) walls, except Toilets SGU. Asphalt tile in offices and corridors, steel trowel concrete all other spaces, except Toilets ceramic tile. Fixed and operating aluminum window and aluminum entrances.

H&V: Gas-fired boiler - baseboard radiation in offices, unit heaters all other spaces.

PLUMBING: Domestic water, storm-sanitary to City system. Gas fixed hot water heater.

ELECTRICAL: 1 x 4 recessed fluorescent fixtures for offices and corridors, suspended in locker and unit storage areas. Mercury vapor lamps in porcelain reflectors at Drill Hall. Exterior road and parking lighting from floods at parapet plus pole mounted floods at military equipment parking area.
PROJECT NAME: RADIATION RESEARCH FACILITY
PRESBYTERIAN-UNIVERSITY HOSPITAL

PROJECT NO: 1124.1
PROJECT MANAGER: J. Schonder
PROJECT DESIGNER: J. Schonder

DATE OF DRS CONTRACT: 8/6/65
DESIGN DOC. STARTED: 
DESIGN DOC. COMPLETED: 
CONTRACT DOC. STARTED: 
CONTRACT DOC. COMPLETED: 2/1/66

OWNER: Presbyterian-University Hospital
University of Pittsburgh

REQUESTING AGENCY: University of Pittsburgh
Presbyterian-University Hospital

BID DATE: 3/31/66
CONSTRUCTION START: 6/1/66
CONSTRUCTION COMPLETED: 12/14/67
TOTAL COST: $1,236,536.83

SQUARE FT. AREA: 26,188 SF
COST/SF: $47.20/SF

CONSULTANTS

NAME
ADDRESS
TELEPHONE

Structural
Deeter Ritchey Sippel
740 Gateway 4,
Pgh., Pa. 15222
391-4850

Mechanical
Deeter Ritchey Sippel
740 Gateway 4,
Pgh., Pa. 15222
391-4850

Plumbing
Deeter Ritchey Sippel
740 Gateway 4,
Pgh., Pa. 15222
391-4850

Electrical
Peter F. Loftus Corp.
Chamber of Commerce Bldg. 391-4850
Pgh., Pa. 15219

CONTRACTORS

General
Martin & Nettlour Contracting Co.
Union Trust Bldg.
Pittsburgh, Pa. 15222
281-3600

Mechanical
Schneider, Inc.
227 Stanton Ave.
Pgh., Pa.
821-3800

Plumbing
Schneider, Inc.
227 Stanton Ave.
(Pittsburgh Plg. subbed
under Sauer Inc.)
6618 Hamilton Ave.
Pgh., Pa.
661-1600

Electrical
Jones-Krallings
1105 Washington Blvd.
Pgh., Pa.
362-6345

COST DATA

ESTIMATE (as of: 2/66) BID (as of: 3/66) FINAL (as of: 12/67)

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL
$1,206,947.00

1,194,800.00

$1,236,536.83

1/27/73
PROJECT NAME: SCHOOL OF ENGINEERING BLDG.
UNIVERSITY OF PITTSBURGH
O'HARE, THACKERY & BOUQUET STS.
PITTSBURGH, PA.

PROJECT NO: 1127
PROJECT MANAGER: JFD/SEZ
PROJECT DESIGNER: LHM

DATE OF DRS CONTRACT: 2/14/63
DESIGN DOC. STARTED: 
DESIGN DOC. COMPLETED:
CONTRACT DOC. STARTED:
CONTRACT DOC. COMPLETED: 11/4/65

BID DATE: 4/28/66
CONSTRUCTION START: 6/22/66
CONSTRUCTION COMPLETED: 1/72

TOTAL COST: $13,208,142.00
SQUARE FT. AREA: 421,621 SF
COST/SF: $31.32/SF
FEE: 4.20%
4,516 pupils @ $2,974.24/student

OWNER: The General State Authority
18th & Herr Sts.
Harrisburg, Pa. 17120

REQUESTING AGENCY: University of Pittsburgh
Physical Plant

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh. 391-4850</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh. 391-4850</td>
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<tr>
<td>Plumbing</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh. 391-4850</td>
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<tr>
<td>Electrical</td>
<td>Carl J. Long &amp; Assoc.</td>
<td>100 Fifth Ave., Pgh. 471-9100</td>
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<td>Landscape</td>
<td>Deeter Ritchey Sippel</td>
<td>Four Gateway Center, Pgh. 391-4850</td>
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<tr>
<td>Soils</td>
<td>A.C. Ackenheil &amp; Assoc.</td>
<td>1000 Banksville Rd., Pgh. 531-7111</td>
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<td>Hardware</td>
<td>Charles R. Hulbert</td>
<td>2 Riverside Center, Harrisburg, Pa. 717/236-9411</td>
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</tbody>
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GENERAL CONTRACTORS

George A. Fuller Co., First National Bank, Pgh. 471-6193
Limbach Co. 521 Pressley St., Pgh. 322-5600
Limbach Co. 521 Pressley St., Pgh. 322-5600
E.C. Ernst, Inc. 3424 Liberty Ave., Pgh. 621-6411
Marshall Elevator Co. 2015 Mary St., Pgh. 431-1340

COST DATA

ESTIMATE (as of: 8/65) $13,902,483.00
BID (as of: 5/66) $12,735,966.00
FINAL (as of: 1/72) $13,208,142.00

1/27/73
PROJECT NAME: SPACE RESEARCH COORDINATION CENTER
UNIVERSITY OF PITTSBURGH

LOCATION: O'Hara and Parkman Sts., Pgh.

OWNER: University of Pittsburgh
National Aviation & Space Agency
Grant NSF-(13)

REQUESTING AGENCY: National Aeronautics & Space Agency

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
<td>Structural</td>
<td>Martin Knabe</td>
<td>1129 Oliver Bldg. Pgh., Pa. 15222</td>
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<tr>
<td>Mechanical</td>
<td>M.L. Tepper, DRS</td>
<td>4 Gateway Center Pgh., Pa. 15222</td>
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<tr>
<td>Electrical</td>
<td>H.H. Reich</td>
<td>951 Penn Ave. Pgh., Pa. 15222</td>
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</table>

CONTRACTORS

| General           | Dick Corporation Schneider, Inc. | Rt. 51, Large, Pa. | 462-5700 |
| HVAC              |                                        | 501 Turnbull Drive Pgh., Pa. | 921-7909 |
| Plumbing          | Ralph Plumbing & Heating       | 145 Putnam St. Pgh., Pa. | 441-9100 |
| Electrical        | E.C. Ernst, Inc.              | 527 Larimer Ave. Pgh., Pa. | 441-1223 |

COST DATA

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<td>PLUMBING</td>
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<tr>
<td>HVAC</td>
<td>179,215.00</td>
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<td>ELEVATOR</td>
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<td>ELECTRICAL</td>
<td>237,150.00</td>
<td>59,442.00</td>
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<td>SITE</td>
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<tr>
<td>TOTAL</td>
<td>$1,346,000.00</td>
<td>$1,281,285.00</td>
<td>$1,382,243.00</td>
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</table>

1/27/73
Poured in place exposed architectural concrete frame with brick and block masonry exterior curtain wall panels within concrete framing. Concrete joist floors and roof. Loadbearing masonry penthouse. 250# sq. ft. available live-load in labs. Concrete block interior partitions within exposed concrete column and floor joist framing.

Typical interior finish is concrete and concrete block painted. Fifth floor office have plastered walls. Corridor ceilings suspended plaster. Toilet walls have facing tile. Floors: Vinyl-asbestos tile; ceramic tile at toilets. Roof: Built-up, 20 year bond over 1 1/2" fiberglass. Elevator: Combined freight-passenger, 6000# capacity, with 7'-0" doors front and back.

All air system with local thermostatic controls and manual dampening of mixing boxes located in or adjacent to all occupied spaces.
Air-intake at ground; air-exhaust at top of Penthouse.
Complete fumehood exhaust system with exhaust through individual stacks above roof vertically to atmosphere. Future connections for hoods available at all Labs.

Complete acid-waste glass piping system with provision for future connections. Hot water, cold water and natural gas systems run exposed at ceiling of all labs with valved viser to countertop and tees for future extension.
Acid cup sinks, extension of services to valves at laboratory equipment.
Local oxygen lines installed in some labs.

Special filtering and drying provisions.
Power through exposed bus-duct available at all building spaces, with panel at each laboratory.
A variety of power installed in perimeter surface metal raceways, including:
- 220V, 30A
- 110V, 30A
- 110V, 15A
- 110V, 30A - regulated locally.
Shielded fluorescents used in labs:
100 f. c. at laboratories
60-75 f. c. at office spaces.
Provision for doubling the 750 KVA transformer.
PROJECT NAME: HEALTH CENTER HOSPITALS
EXPANSION WEST

LOCATION: Block bounded by Fifth Ave., Lothrop, Terrace and Darragh Streets, Pgh., Pa. 15213

OWNER: University of Pittsburgh
Cathedral of Learning
Pgh., Pa. 15213

REQUESTING AGENCY: University of Pittsburgh & Health Center Hospitals

CONSULTANTS

NAME

ADDRESS

TELEPHONE

PLANNING STUDY ONLY

PROJECT NO: 113
PROJECT MANAGER: H.B. Grant

Date of DRS Contract:
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost: (Estimated) $16,482,200.00
Sq. Ft. Area: (Estimated) 1,195,900 SF
Cost/SF: (Estimated) $13.78/SF
Fee:

Fee: Hourly

DESCRIPTION: Proposed expansion of the Health Center to provide the following facilities:

<table>
<thead>
<tr>
<th>Description</th>
<th>Square Foot Area</th>
<th>Estimated Cost</th>
<th>Cost SF</th>
<th>Cost Unit</th>
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</thead>
<tbody>
<tr>
<td>Parking-1,300 cars</td>
<td>455,000 SF</td>
<td>$4,095,000</td>
<td>$ 9.00</td>
<td>$ 31.50/Car</td>
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<tr>
<td>Professional Office Building</td>
<td>160,900 SF</td>
<td>4,172,800</td>
<td>25.93</td>
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<tr>
<td>200 Bed Convalescent Hospital</td>
<td>128,000 SF</td>
<td>4,646,000</td>
<td>36.29</td>
<td>23,230</td>
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<tr>
<td>Blood Bank</td>
<td>9,000 SF</td>
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<tr>
<td>Staff Housing for</td>
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</tr>
<tr>
<td>100 married residents</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>125 unmarried residents</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>500 graduate students</td>
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<tr>
<td>725 total people</td>
<td>443,000 SF</td>
<td>3,568,500</td>
<td>8.05</td>
<td>4,921.93/Person</td>
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**PROJECT NAME:** UNIVERSITY HEALTH CENTER  
**LOCATION:** LOTHROP STREET GARAGE

<table>
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<tr>
<th>OWNER:</th>
<th>Public Parking Authority of Pittsburgh &amp; University Health Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>REQUESTING AGENCY:</td>
<td>Public Parking Authority of Pittsburgh</td>
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<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tbody>
<tr>
<td>Structural</td>
<td>Ramp Engineering Assoc.</td>
<td>2 West 46th St. N.Y., N.Y.</td>
<td>212-5-1262</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel - M.L. Tepper</td>
<td>4 Gateway Center Pgh., Pa. 15222</td>
<td>391-4850</td>
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<tr>
<td>Plumbing</td>
<td>Deeter Ritchey Sippel - S.E. Zlonts</td>
<td>4 Gateway Center Pgh., Pa. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Electrical</td>
<td>Hornbeck Engineering, Inc.</td>
<td>711 Penn Ave. Pgh., Pa. 15222</td>
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<table>
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<tr>
<td>Analysis</td>
<td>E. D'Appolonia, Inc.</td>
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**CONTRACTORS**

<table>
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<tr>
<th>General Mechanical</th>
<th>Ragnor Benson, Inc.</th>
<th>Two Gateway Center</th>
<th>471-7200</th>
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<tr>
<td>Plumbing</td>
<td>Penn Plumbing &amp; Heating</td>
<td>645 Collins St. Pgh., Pa.</td>
<td>441-3346</td>
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<tr>
<td>Electrical</td>
<td>Limbach Co.</td>
<td>521 Pressley St. Pgh., Pa.</td>
<td>322-5600</td>
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</tbody>
</table>

**Vehicle Control Equip. Operational Signs**  
- **Cost & Data:** Pgh. Outdoor Advertising Corp. 2610 Fifth Ave. Pgh. Pa. 681-2345  
- **Estimate (as of: 5/67) Bid (as of: 5/67) Final (as of: 3/69)**

**GENERAL**

**PLUMBING**

**HVAC**

**ELECTRICAL**

**TOTAL**  
$1,685,000.00

$1,695,556.00

$1,747,366.00

FOR INFORMATION ON AIR RIGHTS STRUCTURE ABOVE, SEE PROJECT 1200
To:     File / JCA
From:  JDK 3/18
Date:  March 18, 1977
Subject:  1131.1A Lothrop Street Parking Garage – Parking Authority


Area of Property:  46,227.92 sq. ft. (calculated from plot plan)
Area of Building (Garage):  148,715 sq. ft. (from project statistics)

* * * * * * *

/jm
DESCRIPTION: Precast concrete columns and tee beams, with tee beams pre-tensioned and post-tensioned. Structural slabs are post-tensioned in two directions. Foundation walls are poured-in-place reinforced concrete; foundation walls and columns are supported on drilled caissons which are socketed into competent rock. The structure is designed to support a future air rights structure of five floors over two thirds of the area, with a live load of 100 lbs. per sq. ft.

Building consists of 3-1/2 levels of ramped construction with maximum slope of 5%. Main entrance is located on the high side of Level 3 with a secondary entrance at low side of Level 1. Exterior walls are masonry with brick facing, and Duranodic aluminum louvers to provide natural ventilation. Interior of Waiting Room, Office and Toilets have terrazzo floors and acoustic tile or plaster ceilings; walls in Toilets are ceramic tile. In general, wall and ceiling finishes are exposed concrete block and concrete. Doors are aluminum or hollow metal.

ELEVATORS: A hydraulic passenger elevator is provided with a capacity of 3000 lbs. and a speed of 100 FPM.

EQUIPMENT: Vehicle control equipment includes automatic ticket issuing machines, electric parking gates, differential counting system, card receiver units, etc. Operational signs are also included.

HVAC: Only the Waiting Room, Office and Toilets are heated or ventilated. The remainder of the building will have natural ventilation due to free access of air at exterior walls and continuous ramped floors to an open Fourth Level. Provision is included for future air rights structure.

PLUMBING: Drainage is received by area drains at low points of ramps and piped into the sewer system. French drain is included at exterior foundation walls and interior retaining walls. Again, provision is included for the future air rights structure.

FIRE PROTECTION: None required.

ELECTRICAL: Fluorescent light fixtures, providing an illumination of 2 foot candles in Parking Area at Level 1, 2 and 3; quartz iodine pole mounted lights at Level 4. Exterior of building is flood lighted by mercury vapor fixtures mounted on street light poles on opposite side of three streets. Telephone conduit, vehicle control raceway and intercommunications systems are included.

[Signatures]

Area of Capacity: 46,277.9
Area of Garage: 148,715
7/18/77 JOK
PROJECT NAME: LINCOLN BANK & TRUST CO.
Large, Pennsylvania

OWNER: Noble J. Dick
Large, Pennsylvania

REQUESTING AGENCY:

CONSULTANTS

<table>
<thead>
<tr>
<th>Structural</th>
<th>Deeter Ritchey Sippel-E.V.Dotter, 4 Gateway, Pgh. 15222</th>
<th>391-4850</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel-M.L.Tepper, 4 Gateway, Pgh. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Electrical</td>
<td>H. H. Reich</td>
<td>471-8323</td>
</tr>
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</table>

CONTRACTORS

General: Dick Corp., Route 51, Large, Penna.

TELEPHONE

DATE OF DRS CONTRACT
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost
Sq. Ft. Area
Cost/SF
Fee

$300,000.00
12.00 Hr.
PROJECT NAME: RESEARCH COMPUTER BUILDING
Carnegie-Mellon University

OWNER: Carnegie-Mellon University
Schenley Park
Pittsburgh, Pa. 15213

REQUESTING AGENCY: Carnegie-Mellon University

PROJECT NO: 1139
PROJECT MANAGER: J.F. Dowden
PROJECT DESIGNER: P.S. Hundley

Date of DRS Contract: June 8, 1965
Design Doc. Started: Design Doc. Completed:
Bid Date: August 6, 1968
Construction Start: October, 1968
Construction Completed: November, 1971
Total Cost: $13,605,720.00
Sq. Ft. Area: 326,812 SF
Cost/SF: $41.63/SF
Fee: 5%

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
</table>
| Structural | R.M. Gensert Assoc. | 718 The Arcade
Cleveland, Ohio 44114 | 216/241-7078 |
| Mechanical | Deeter Ritchey Sippel
- M.L. Tepper | 4 Gateway Center
Pgh., Pa. 15222 | 391-4850 |
| Electrical | C.J. Long & Assoc. | 100 Fifth Avenue
Pgh., Pa. 15222 |
| Landscaping | Griswold, Winters & Swain | 1101 Greenfield Ave.
Pgh., Pa. 15217 | 521-3000 |
| Soils | David Lewin | The Arcade
Cleveland, Ohio 44114 |
| Mechanical Consultant | Fred S. Dubin Assoc. | 635 Farmington Avenue
Hartford, Connecticut |

CONTRACTORS

| General | Graziano Construction Co. 559 Rodi Road
Pgh., Pa. 15235 | 242-4333 |
| HVAC | Limbach Co. 240 Woodmere Drive
Pgh., Pa. 15205 | 922-4300 |
| Plumbing | Wayne Crouse, Inc. 3370 Stafford Street
Pgh., Pa. 15204 | 771-5176 |
| Electrical | E.C. Ernst, Inc. 3424 Liberty Ave.
Pgh., Pa. 15201 | 621-6411 |

COST DATA

<table>
<thead>
<tr>
<th>ESTIMATE (as of 7/68)</th>
<th>BID (as of: 10/68)</th>
<th>FINAL (as of: 11/71)</th>
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<tr>
<td>$12,135,800.00</td>
<td>$13,454,830.00</td>
<td>$13,605,720.00</td>
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TOTAL

1/27/73
PROJECT NAME: JOHN F. KENNEDY ELEMENTARY SCHOOL
WASHINGTON, PENNA.

PROJECT NO: 1140
PROJECT MANAGER: J.F. Dowden
PROJECT DESIGNER: H.B. Grant

OWNER: Immaculate Conception Parish Washington, Penna.

REQUESTING AGENCY: Immaculate Conception Parish

CONSULTANTS
NAME
Structural Deeter Ritchey Sippel
- E.V. Dotter
- M.L. Tepper
Mechanical Deeter Ritchey Sippel
- C.J. Penfield
Electrical Deeter Ritchey Sippel
- E. Koudela
Lanscaping

CONTRACTORS
General McAnallen Bros., Inc.
Electrical Baldwin Electrical Co.
Mechanical Ralph Plumbing & Heating
Plumbing Ralph Plumbing & Heating

COST DATA
ESTIMATE (as of: 9/64) $620,703.00
BID (as of: 10/64) $544,461.00
FINAL (as of: 2/66) $541,578.00

1/27/73
JOHN F. KENNEDY SCHOOL
IMMACULATE CONCEPTION PARISH
WASHINGTON, PENNSYLVANIA

Description: This elementary school contains 16 classrooms, a library, offices and auxiliary facilities. Two classrooms on each level are divided by moveable soundproof partitions, providing large multi-use space utilization. Building form, scale, and use of materials reflect those indigenous to the community.

Facilities:  
Classrooms - 15  Teachers
Science Cr. - 1  Lounge - 2
Library - 1  Health Room - 1
Roiler Room - 1  Storage Room - 1
Materials Rm - 3  (Future Classroom)
Offices - 3  Maintenance - 1

Construction:  
1. Loadbearing: Masonry Wall
2. Floors: Bar joists with conc. slab
3. Roof: Bars joists with metal deck
4. 2" Roof insulation with 5-ply built-up roof
5. Exterior Walls: Face Brick
6. Interior corridor walls - Face Brick and lockers
7. Classroom wall & partition - exposed concrete block
8. All other partitions - plaster
9. Terrazzo floors in corridors
10. All other floors - vinyl asbestos tile
11. Acoustical tile & plaster ceiling
12. Aluminum & glass windows and entrances
13. Interior doors - metal flush slab with
14. Hollow metal frames
15. Toilet rooms - ceramic tile walls and terrazzo floors
16. Two classrooms on each level are divided by moveable soundproof partitions
17. Heating & Ventilating - hot water with unit ventilators in each classroom

Awards:  
1967 Pennsylvania Society of Architects Honor Award
1965 Construction Specifications Institute Second Place - Category "B"

1/27/73
**PROJECT NAME:** Davidson Sand & Gravel Company
Office Building
New Kensington, Pa.

**NER:** Davidson Sand and Gravel Company
Third Avenue and Fourth Street
New Kensington, Pa.

**REQUESTING AGENCY:**

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
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<tr>
<td>Structural Engineer</td>
<td>E. V. Dotter</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
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<td></td>
<td>Deeter Ritchey Sippel</td>
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<tr>
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<td>C. J. Penfield</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
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<td></td>
<td>Deeter Ritchey Sippel</td>
<td>Pittsburgh, Pa. 15222</td>
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<tr>
<td>Landscape Architect</td>
<td>E. Koudela</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
</tr>
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<td></td>
<td>Deeter Ritchey Sippel</td>
<td>Pittsburgh, Pa. 15222</td>
<td></td>
</tr>
<tr>
<td>Lighting Consultant</td>
<td>John Maguire</td>
<td>Box 24E, R.D. #2</td>
<td>767-4282</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cheswick, Pa.</td>
<td></td>
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</table>

**Contractors**

| General            | Beebe Ross and Kennedy Corporation | 1711 Babcock Blvd. Pittsburgh, Pa. | 821-2424  |
| Heating            | Hanlon Electric Co.              | 414 Rodi Road Pittsburgh, Pa. 15235 | 241-3900  |
| Plumbing           | Wayne Crouse Inc.                | 3370 Stafford Street Pittsburgh, Pa. 15204 | 771-5176  |
| Electrical         | Hanlon Electric Co.              | 414 Rodi Road Pittsburgh, Pa. 15235 | 241-3900  |

**PROJECT NO.** 1142
**PROJECT MANAGER** F. Knoble
**PROJECT DESIGNER** L. H. Minnerly

Date of DRS Contract 7/8/64
Documents Completed 2/65
Bid Date 4/14/65
Construction Start 7/65
Construction Completed 8/1/66
Total Cost $134,201.88
Sq. Ft. Area 4,618 SF
Cost/SF $29.00
Fee 10%
DESCRIPTION: One story poured in place concrete structure.

Plan: A series of nine perimeter cells (offices, storage, toilet and utility rooms) surrounding an open central clerical space.

Materials: Exposed concrete finish (interior and exterior). Walls are fluted with exposed aggregate.

Interior of perimeter cells are plaster over insulation.

Interior doors, trim, duct enclosures, and built in shelving is natural oak.

Floor is carpet over slab.

HVAC: Through-the-wall units with electric resistance heat was used in perimeter. Interior zone heated and cooled by air to air heat pump.

SPECIAL EQUIPMENT: Built in shelving and casework. Pass thru window at weigh-in station. Truck scale, pit and tunnel.
PROJECT NO. 1147
PROJECT MANAGER E. R. Gallagher
PROJECT DESIGNER H. B. Grant

Date of DRS Contract
Documents Completed 1965
Bid Date None
Construction Start None
Construction Completed None
Total Cost None
Sq. Ft. Area
Cost/SF
Fee Fixed

CONSULTANTS NAME ADDRESS TELEPHONE

See Attached:

Master Plan Proposals
Phasing Schedule and Current Construction Costs.
MASTER PLAN PROPOSALS

Basic assumption - growth from 600 to 1,200 students.

This will require new facilities and the re-use of existing.

It is proposed that:

1. Administrative functions for college and community be concentrated in Administration Building, and that classrooms, music rooms, and student housing be removed (as feasible).

2. Academic space be concentrated in Maura Hall with Biology expanding into entire First Level, and that Administrative, student housing, and other sciences be removed.

3. Lowe and Canevin remain with present use overall except:
   Remove student housing from 3rd Lowe-Maura connection and replace Art Studios with academic space.

4. Sullivan Hall be used and implemented for its intended use as Activity Hall. Add post office and tea room.

5. New Science Building to include Physics, Mathematics, Chemistry, Psychology and Auditorium.

6. New Art Center to include Auditorium, Visual Arts, and Music-Drama.

7. New dormitory(s)
   Build 2nd of proposed dormitories (>180). Ultimately 575 additional spaces are to be required (1,000 total) if Maura, Administration, and St. Mary's are to be abandoned.

8. Priests' Residence should provide for apartments and meeting-conference facilities for six priests, dining for thirty people.

9. Chapel - 1,000 to 1,500 seating capacity.

10. Dining facilities - enlarge present hall.

11. Home economics - expanded facility for Nursery School and perhaps management house.
PHASING SCHEDULE AND COST ESTIMATE

The phasing schedule reflects the logical sequence of development in accordance with present and future needs using current construction costs.

<table>
<thead>
<tr>
<th>PHASE I</th>
<th>Sq. Ft. Area</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>1. Science Facility: New Building</td>
<td>38,500</td>
<td>$1,005,000.00</td>
</tr>
<tr>
<td>Renovation 1st Maura (Biology)</td>
<td>9,730</td>
<td>160,000.00</td>
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<tr>
<td>2. Dormitory A (120 Beds)</td>
<td>30,000</td>
<td>630,000.00</td>
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<tr>
<td>3. New Access Road, Entrance Pavilion &amp; Lighting</td>
<td></td>
<td>62,000.00</td>
</tr>
<tr>
<td>4. Rebuild Pond</td>
<td></td>
<td>12,000.00</td>
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<tr>
<td>5. Parking Bays</td>
<td></td>
<td>8,000.00</td>
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<tr>
<td>6. Kitchen Renovation</td>
<td></td>
<td>190,000.00</td>
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<tr>
<td>7. Priests' Residence</td>
<td>7,750</td>
<td>140,000.00</td>
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<tr>
<td>Planting Program</td>
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<td>2,000.00</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>$2,209,000.00</strong></td>
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<th>PHASE II</th>
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<tr>
<td>8. Nursery School</td>
<td>3,000</td>
<td>$48,000.00</td>
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<tr>
<td>9. Dormitory B (100 Beds)</td>
<td>25,000</td>
<td>525,000.00</td>
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<tr>
<td>10. Maintenance Building</td>
<td>5,200</td>
<td>62,000.00</td>
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<tr>
<td>11. Auditorium</td>
<td>36,900</td>
<td>1,845,000.00</td>
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<tr>
<td>12. Parking &amp; Lighting</td>
<td></td>
<td>39,000.00</td>
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<tr>
<td>13. Visual Arts Wing</td>
<td>23,750</td>
<td>759,000.00</td>
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<tr>
<td>14. Music and Drama Wing</td>
<td>23,700</td>
<td>643,000.00</td>
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<tr>
<td>Bury Existing Overhead Elec. Serv.</td>
<td></td>
<td>36,000.00</td>
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<tr>
<td>15. Improve Existing Entrance Road</td>
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<td>25,000.00</td>
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<tr>
<td>16. Expand Dining Hall</td>
<td>45,000</td>
<td>$90,000.00</td>
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<td>17. Dormitory C (180 Beds)</td>
<td>945,000.00</td>
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<tr>
<td>18. New Playfields</td>
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<td>45,000.00</td>
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<tr>
<td>19. Academic Space: Remodel Maura 4th and 5th</td>
<td>17,300</td>
<td>203,000.00</td>
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<tr>
<td>20. Home Economics: New Building</td>
<td>12,700</td>
<td>305,000.00</td>
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<tr>
<td>Home Management House</td>
<td>2,000</td>
<td>40,000.00</td>
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<tr>
<td>21. Observatory</td>
<td>15,000.00</td>
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<th>PHASE IV</th>
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<td>22. Dormitory D (110 Beds)</td>
<td>27,500</td>
<td>$577,000.00</td>
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<td>23. Faculty Building &amp; Guest House: Remodel St. Mary's</td>
<td>16,550</td>
<td>140,000.00</td>
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<td>24. Chapel</td>
<td>38,000</td>
<td>790,000.00</td>
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<tr>
<td>Planting Program</td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
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**Total Building Cost** $9,347,000.00
PROJECT NAME:  FINE ARTS CENTER

OWNER:  SETON HILL COLLEGE

REQUESTING AGENCY:  SETON HILL COLLEGE

CONSULTANTS NAME ADDRESS TELEPHONE

Studied in Master Plan 1965

PROJECT NO.  1147.1
PROJECT MANAGER  E. R. Gallagher
PROJECT DESIGNER

Date of DRS Contract  No Contract
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost
Sq. Ft. Area
Cost/SF
Fee  12.00 Hr.
PROJECT NO. 1147.2D O.E. #4-2-00217
PROJECT MANAGER ERG
PROJECT DESIGNER HBG

Date of DRS Contract June 21, 1965
Documents Completed Dec. 16, 1968
Bid Date Opened Feb. 11, 1969
Construction Start March 14, 1969
Construction Completed
Total Cost $1,378,835.81
Sq. Ft. Area 33,800
Cost/SF $34.64
Fee 6%

REQUESTING AGENCY:

CONSULTANTS

<table>
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<tr>
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<th>Name</th>
<th>Address</th>
<th>Telephone</th>
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<tr>
<td></td>
<td>DRS, Inc.</td>
<td>740 Gateway Center, Pgh, Pa.</td>
<td>391-4850</td>
</tr>
<tr>
<td>HVAC</td>
<td>DRS, Inc.</td>
<td>740 Gateway Center, Pgh, Pa.</td>
<td>391-4850</td>
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<tr>
<td>Plumbing</td>
<td>DRS, Inc.</td>
<td>740 Gateway Center, Pgh, Pa.</td>
<td>391-4850</td>
</tr>
<tr>
<td>Electrical</td>
<td>Carl Long &amp; Associates</td>
<td>100 5th Avenue, Pgh, Pa.</td>
<td>471-9100</td>
</tr>
<tr>
<td>Lighting</td>
<td>John Maguire</td>
<td>Box 245 2D #2, Cheswick, Pa.</td>
<td>767-4283</td>
</tr>
</tbody>
</table>

CONTRACTORS

| General    | Dill Construction Co. | P.O. Box 472, Latrobe, Pa. | 537-3386  |
| HVAC       | Garfield, Inc.        | 21 Sedgwick Street, Pgh, Pa. | 821-4700  |
| Plumbing   | A. J. Demor & Sons, Inc. | 2150 Eldo Road, Mounceville, Pa. | 372-8811  |
| Electrical | Yost Electric Co.     | 149 Arch Ave, Greensburg, Pa. | 834-6050  |

CORRESPONDENCE

1. Owner - See college personnel list attached
2. Contractor - see above
3. Consultants - see above
4. Dept. of Health, Education & Welfare
   Office of Education
   26 Federal Plaza
   New York, New York 10007
   Frank C. Trentacost - Regional Engineer
   Rhodes

5. Dept. of Health, Education & Welfare O. of E.
   Room 310 - 540 Pennsylvania Avenue
   Fort Washington, Pa. 19034
   Timothy F. Burke - District Engineer

6/69
Seton Hill College
Science Building
Project #1147.20

USE:
1st Floor
Labs, offices and Classrooms for Mathematics and Physics Departments.
Toilets - Women, Students and Faculty
Boiler Room

2nd Floor
Labs, offices, testing rooms and Classrooms for Psychology Department.
Administrative facilities and Lecture Hall with 216 fixed tablet arm seats.
Toilets - Men Students, Women Students and Faculty

3rd Floor
Labs, balance rooms, instrumentation room, stock room for the Chemistry Department.
Toilets - Faculty

Mechanical Floor
For air conditioning and mechanical equipment.

DESCRIPTION:
The building rests on concrete caissons and grade beams. Brick bearing exterior walls with steel interior bearing columns. Steel bar joist floors with 2 1/2" concrete slab on metal deck.

FLOORS:
Concrete slab on grade for the 1st floor, Lecture Hall and Lobby of the 2nd floor. 2 1/2" concrete slab on metal deck and bar joist for floors above grade. Corridors, offices and classrooms vinyl asbestos tile. Lab floors are on concrete with floor hardener.

DOORS & FRAMES:
Solid core urethane foam filled steel faced corridor doors with hollow metal frames.

PARTITIONS:
Plaster, Gypsum lath and resilient clips on metal studs with a sound transmission loss of 50 Decibels.

CEILINGS:
Corridors - 2 hour fire rated mineral light weight figured tile.
Rooms - 2 hour fire rated plaster.
Lecture Hall - Acoustical Plaster

FIREPROOFING:
Steel columns, girders, beams and perlins to receive plaster or spray-on fireproofing.

LOADING INSULATION:
Under floor perimeter insulation 2" molded polystyrene foam board.
Outside walls 1" expanded polystyrene foam board.
Seton Hill College
Science Building
Project #1147.2D

WINDOWS:
Extruded aluminum window frames with zipper type glazing gaskets.

ROOFING:
Sloped roofing, standing seam, 40 pound 26 gage, roller leveled terne metal.
Flat roofing, 20 year bonded Membrane Roofing.

LABORATORY EQUIPMENT:
Metal casework.

ELEVATOR:
Hydraulic 3,500 pound capacity, 100 feet per minute.

PLUMBING:
All lab wastes, stacks, branches and vents, other than Cast Iron underground, are acid-resisting glass pipe.

HVAC:
Gas fired boilers. Entire building air conditioned with a terminal reheat air system.

Chiller - Electrical powered Centrifugal.

LIGHTING:
Surface mounted fluorescent fixtures in corridors and rooms. Incandescent ceiling recessed fixture in the lobby and Lecture Hall.
PROJECT NAME: Renovation Maura Hall
Seton Hill College

NER: Seton Hill College
Greensburg, Pa. 15601

REQUESTING AGENCY:

CONSULTANTS

<table>
<thead>
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<td>Electrical</td>
<td>Carl Long &amp; Associates 100 5th Avenue, Pgh, Pa. 471-9100</td>
<td></td>
</tr>
<tr>
<td>Lighting</td>
<td>John Maguire Box 245 RD 92, Cheswick, Pa. 767-4283</td>
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<td>Garfield, Inc. 21 Sedgwick Street, Pgh, Pa. 821-4700</td>
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<tr>
<td>Plumbing</td>
<td>A. J. Demor &amp; Sons, Inc. 2150 Eldo Road, Monroeville, Pa. 372-8811</td>
<td></td>
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<tr>
<td>Electrical</td>
<td>Yost Electric Co. 149 Arch Ave, Greensburg, Pa. 834-6050</td>
<td></td>
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CORRESPONDENCE

1. Owner - See college personnel list attached
2. Contractor - see above
3. Consultants - see above
4. Dept. of Health, Education & Welfare
   Office of Education
   26 Federal Plaza
   New York, New York 10007
   Frank C. Trentacosti - Regional Engineer
   Rhodes

5. Dept of Health, Education & Welfare O. of E.
   Room 310 - 540 Pennsylvania Avenue
   Fort Washington, Pa. 19034
   Timothy F. Burke - District Engineer

PROJECT NO. 1147.2E (Bid with 1147.2D)
PROJECT MANAGER ERG
PROJECT DESIGNER HBG

Date of DRS Contract June 21, 1965
Documents Completed Dec. 16, 1968
Bid Date Opened Feb. 11, 1969
Construction Start Mar. 14, 1969
Construction Completed
Total Cost Bid Price $120,000.00
Sq. Ft. Area 14,644
Cost/SF $8.20
Fee 8%
USE: The first floor of Maura Hall and the connecting link to the Administration Building - renovated to accommodate the Biology Department.

EXISTING BUILDING: Brick bearing with concrete floors.

FLOORS: Wood laboratory flooring removed and hardened concrete fill installed.

DOORS & FRAMES: Solid core wood with Hollow Metal Frames.

PARTITIONS: New partitions - plaster, gypsum lath, resilient clips on metal studs with a sound transmission loss of 50 Decibels.

LABORATORY EQUIPMENT: Metal casework.

PLUMBING: All lab waste, stacks, branches and vents are acid resisting glass pipe.

HEATING & VENT: Radiators replaced with newer type and adjusted to new partition locations.

LIGHTING: Relocated and new lighting to match existing.
Seton Hill College Personnel
Project # 1147

Mother M. Victoria - Mother Superior and President, Board of Directors

Sister M. Thecla - Ranking Vice President of College
Member Board of Directors

Sister M. Muriel - Dean of College & Superior of Faculty

Sister Mary Francisc - Director of Development

Sister Ann Michael - Treasurer (Community)

Sister M. Perpetua - Treasurer of College

Sister Mary Agnes - Secretary, Board of Directors

Sister Ann Infanger - Chairman, Science Users Committee
Biology Department Head

Sister Mary Leon - Chemistry Chairman

Mrs. Herbert F. Byrne
(Kathleen) - Chairman, Fund Raising

Mr. A. M. Pivrotto - President, Board of Trustees

Reverend Msgr. William
Granger Ryan - President of College

Sister Deborah - Math Chairman

Dr. Kennam - Physics Chairman

Sister Maurice - Psychology Chairman
PROJECT NAME: CHILD DEVELOPMENT CENTER

OWNER: SETON HILL COLLEGE
Greensburg, Pa.

REQUESTING AGENCY: SETON HILL COLLEGE
(1/3 Grant H.U.D.)
(2/3 by S.H.C.)

CONSULTANTS

Structural Deeter Ritchey Sippel - E.V. Dotter 740 Gateway 4, Pgh. Pa. 15222 391-4850
Mechanical Deeter Ritchey Sippel - M.L. Tepper 740 Gateway 4, Pgh. Pa. 15222 391-4850
Plumbing Deeter Ritchey Sippel - M.L. Tepper 740 Gateway 4, Pgh. Pa. 15222 391-4850
Electrical Carl Long & Assoc.
John Maguire

CONTRACTORS

General Pevarnik Bros. Inc. 1302 Memorial Drive, P.O. Box 389 Pgh. Phone 371-1400 Latrobe, Pennsylvania 834-4482

SUB-CONTRACTORS:

Electrical Fenton Electric Co., Depot St. Latrobe, Pennsylvania 15650

Plumbing & H.V. O'Neil Plumbing & Heating Co.
508 N. 2nd St., Jeannette, Pa. 15644 523-4661

NOTE: This is a General Construction Contract. All correspondence should be addressed to Pevarnik Bros. Inc.
PROJECT 1147.4

CHILD DEVELOPMENT CENTER
JON HILL COLLEGE
GREENSBURG, PENNSYLVANIA

DESCRIPTION:
One story brick with concrete block back up. Exterior walls and walls of 10' - 0" wide toilet and mechanical room core including (14) wood columns provide the bearing for a sloped roof - Johns-Manvilie colorbestos slate on 15 lb. felt, 1/2 inch sheathing, 2 x 12 at 12" centers. Ceilings of the two playrooms are 1/2" natural finish wood. Exterior walls are wood stud with plaster board lath and finish plaster. Toilet room ceramic tile floors and walls. All other floors are V.A. Tile on concrete slab on grade. Wood window stained. Clearstory windows in playrooms.

Space consists of (2) large playrooms, (3) child study rooms, (3) offices, (1) storage room, (1) teachers toilet room, (1) child's toilet room and (1) mechanical room.

Site work includes rough grading only, concrete walk to road and concrete curb at parking areas.

Millwork includes custom built wood lockers for (54) children, and (7) work benches.

HEATING & VENTILATING:
Heated by gas fired hot air in under floor ducts at perimeter of playrooms, and fin-tube in offices and child study rooms. Gas fired boiler vented by 1/12 HP induced draft fan. Toilet room exhausted.
PLUMBING:

(4) water closets, (5) lavs, (2) drinking fountains and (2) floor drains connected to existing san. sewer. French drain on roof - roof drain in C.I. pipe spilled to grade on down hill side.

ELECTRIC LIGHT

& POWER

Child study rooms have recessed incandescent (on dimmer for reason of one way view windows). Offices flush mounted fluorescent fixtures. All remaining fixtures incandescent. Electric kitchenette in storage room.
PROJECT NAME: NEW CEMETERY PLOT PLAN

OWNER: SISTERS OF CHARITY
Greensburg, Pennsylvania

CONSULTANTS

Drawing A-1
Site Plan, planting plan and grave layout.
Laid out for 51 lots at (3) graves each or 510 grave
with expansion for 510 additional grave.
Located behind St. Philomena Shrine on Seton Hill Campus.
Road laid out to enter site from road.
**PROJECT NAME:** WOMEN'S DORM

**OWNER:** SETON HILL COLLEGE  
Greensburg, Pennsylvania

**REQUESTING AGENCY:**

**CONSULTANTS NAME**  
Studied in Master Plan 1965

<table>
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<th>ADDRESS</th>
<th>TELEPHONE</th>
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**PROJECT NO.:** 1147.6
**PROJECT MANAGER:** E. R. Gallagher
**PROJECT DESIGNER:** W. H. Sippel

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PROJECT NAME: UNIVERSITY OF PITTSBURGH
   GRADUATE SCHOOL OF PUBLIC HEALTH
   PITTSBURGH, PENNSYLVANIA

PROJECT NO: 1148

PROJECT MANAGER: J. F. Dowden
PROJECT DESIGNER: J. Krowgowski
JOB CAPTAIN: E.R. Gallagher

DATE OF DRS CONTRACT: Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:

Total Cost: $2,189,430.00
Sq. Ft. Area: 67,082SF
Cost/SF: $32.70/SF
Fee

OWNER: UNIVERSITY OF PITTSBURGH
   PHYSICAL PLANT
   CATHEDRAL OF LEARNING
   PITTSBURGH, PA.

REQUESTING AGENCY:

CONSULTANTS

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<th>TELEPHONE</th>
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<tr>
<td>Structural:</td>
<td>E.V. Dotter (DRS)</td>
<td>4 Gateway Center, Pgh. 391-4850</td>
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<tr>
<td>Mechanical:</td>
<td>A.C. Schock</td>
<td>Benedum Trees Building, Pgh. 281-5617</td>
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<tr>
<td>Electrical:</td>
<td>Hornbeck Engineering Inc.</td>
<td>711 Penn Ave. Pgh. 281-5617</td>
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<tr>
<td>Landscaping:</td>
<td>E. Koudela (DRS)</td>
<td>4 Gateway Center 391-4850</td>
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<tr>
<td>Lighting:</td>
<td>J.F. Maguire</td>
<td>Box 245 Cheswick, Pa. 767-4283</td>
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<tr>
<td>Hardware:</td>
<td>Assoc. Arch. Consultants</td>
<td>2 Riverside Cntr. Harrisburg (717)236-9411</td>
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CONTRACTORS

AWARDS: 1967 CONSTRUCTION SPECIFICATIONS INSTITUTE - HONORABLE MENTION, CATEGORY "A"

COST DATA

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**PROJECT NAME:** QUALITY CONTROL BUILDING
Pennsylvania Ave.
Weirton, West Virginia

**OWNER:** Weirton Steel Company

**REQUESTING AGENCY:**

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<tr>
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<tr>
<td>Mechanical</td>
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<td>391-4850</td>
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<tr>
<td>Electrical</td>
<td>Hornfeck Engr. Co.</td>
<td>711 Penn Ave. Bldg, Pgh. 15222</td>
<td>281-5617</td>
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<tr>
<td>Landscaping</td>
<td>Deeter Ritchey Sippel-E. Koudela</td>
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<td>391-4850</td>
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<tr>
<td>Hardware</td>
<td>Assoc. Arch. Consultants</td>
<td>2 Riverside Ctr., Harrisburg, Pa.</td>
<td>717-236-9411</td>
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**PROJECT NO:** 1152
**PROJECT MANAGER** R. Freed
**PROJECT DESIGNER** R. Palmer

**Date of DRS Contract**

**Documents Completed**

**Bid Date**

**Construction Start**

**Construction Completed**

**Total Cost** $1,451,735.00

**Sq. Ft. Area** 52,476 SF

**Cost/SF** 27.66 SF

**Fee** 4-1/2%
Project cancelled
PROJECT NAME: KINGS COURT APARTMENTS

OWNER: KINGS COURT APARTMENTS, INC.
% Andrew G. Uram
Metropolitan Life Ins. Co.
449 Washington Road
Washington, Pa. 15301

REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE
No Mechanical or Electrical Consultant Required
Electric Heating by West Penn Power Co.
Electric Power & Light by Owner
Plumbing Deeter Ritchey Sippel, M.L.Teppe, 740 Gateway 4, Pgh. 15222 391-4850

PROJECT NO. 1155
PROJECT MANAGER C. L. Christen
PROJECT DESIGNER L. H. Minnerly

Date of DRS Contract Documents Completed 5-5-67
Bid Date None
Construction Start 6-67
Construction Completed
Total Cost
Sq. Ft. Area
Cost/SF
Fee

CONTRACTOR

Owner acts as own Contractor with Mr. Robert Quivy acting as Superintendent of Construction. All phases of work and all trades are under this arrangement. Deeter Ritchey Sippel has no inspection.
DESCRIPTION:

132 Apartment units arranged in clusters of 3 story buildings around four inner courts. The courts are the interior paved and landscaped living areas. The exterior environment is 4 parking courts which are grass areas. The Apartments consist of 48 one bedroom units, 72 two bedroom units and 12 three bedroom units. Each six units are served by one connecting stair in a three story undulating arrangement around the sloping sight. The total complex will be of wood frame construction with brick veneer. Floors will be wood joists with 4 in 1 homosote decking. Flat built-up roofing and black asphalt roof shingles are the roof elements. Drywall finish with ceramic tile baths, wall to wall carpeting and bifold doors are the main design elements.

HVAC:

The units are total electric for both heating and cooling. Electric kitchens throughout. West Penn Power Company was designer and coordinator.

Plumbing and Electric are per the Owner's design and construction;

RECREATION:

A concrete swimming pool with recreation center is planned to compliment the Apartment Community.
PROJECT NAME: ANIMAL RESEARCH FACILITY
SCHOOL OF MEDICINE
SCAIFFE HALL - 1ST FLOOR

OWNER: UNIVERSITY OF PITTSBURGH

REQUESTING AGENCY: N.I.H.

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<tr>
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<td>E. V. Dotter</td>
<td>Deeter Ritchey Sippel</td>
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<td>M. L. Tepper</td>
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<td>Plumbing</td>
<td>M. L. Tepper</td>
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<td>Electrical</td>
<td>Peter F. Loftus Corp.</td>
<td>1st Nat'l. Bank Bldg. 15222</td>
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CONTRACTORS

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<th>Telephone</th>
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<td>Mosites Construction Co.</td>
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<tr>
<td>Mechanical</td>
<td>Limbach Company</td>
<td>521 Pressley, Pgh. 15212</td>
<td>471-8000</td>
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<td>Plumbing</td>
<td>Limbach Company</td>
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<tr>
<td>Electrical</td>
<td>E. C. Ernst, Inc.</td>
<td>3424 Liberty Ave., Pgh. 15222</td>
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CORRESPONDENCE

Mosites Construction Company
Steve Mosites
James Corbet
**PROJECT NAME:**
1157.1 - ANIMAL RESEARCH FACILITY
1st Floor - Scaife Hall
1157.2 - Alterations for Surgery
9th Floor - Scaife Hall

**OWNER:**
University of Pittsburgh
School of Medicine

**REQUESTING AGENCY:**
N.I.H.

**CONSULTANTS** | **NAME** | **ADDRESS** | **TELEPHONE**
--- | --- | --- | ---
Structural | E. V. Dotter |  |  |
Mechanical | M. L. Tepper |  |  |
Plumbing | M. L. Tepper |  |  |
Electrical | Peter F. Loftus | Chamber of Commerce Building | 391-2280 |
 | Sam Lyon |  |  |

**CONTRACTOR - 1157.1**
General | Mosites Construction Co. | Parkway West, Pgh. 5, Pa. | 923-2255 |
Mechanical | Limbach Co. |  |  |
Plumbing | Limbach Co. |  |  |
Electrical | Ernst Electric Co. |  |  |

**CONTRACTOR - 1157.2** - Work being done by Owner

**Correspondence 1157.1** - Mosites Construction Co.
Steve Mosites

**1157.2** - University of Pittsburgh
Mr. George Simmonds
1157.1 - Animal Research Facility
1st Floor - Scaife Hall

1157.2 - Alterations for Surgery
9th Floor - Scaife Hall

University of Pittsburgh
School of Medicine

DESCRIPTION

1157.1 and 1157.2
Work being done in existing Scaife Hall. Steel frame
Concrete slab floors
Curtin wall and limestone exterior.
Interior walls concrete block.
Glazed block at toilet areas

Building Use
Teaching Labs - Classrooms - Offices
Elevators
5 - 4 passenger - 1 service

HVAC
Central hot water and chilled water systems.
Fan coil units used throughout.
Animal Facility separate
Air handling unit in conjunction with existing system.

Plumbing
Existing up feed system

Fire Protection
Stand pipes and fire extinguishers

Electric
Transformer vault - telephone switchboard - intercom
system. Fluorescent and incandescent lighting.
Emergency Power.
PROJECT NAME: ANIMAL RESEARCH CENTER
Plum Borough, Pennsylvania

OWNER: UNIVERSITY OF PITTSBURGH

REQUESTING AGENCY: UNIVERSITY OF PITTSBURGH

PROJECT NO. 1157.3
PROJECT MANAGER C. J. Brooks
PROJECT DESIGNER J. Warren

Date of DRS Contract Sept. 28, 1967
Documents Completed Sept. 4, 1968
Bid Date -
Construction Start -
Construction Completed -
Total Cost 500,000 Est.
Sq. Ft. Area 12,000 Sq. Ft.
Cost/SF -
Fee 8.75 %

CONSULTANTS NAME ADDRESS TELEPHONE

Structural Deeter Ritchey Sippel - E. V. Dotter - Gateway 4, Pgh. Pa. 391-4850
Mechanical Deeter Ritchey Sippel - M. L. Tepper - Gateway 4, Pgh. Pa. 391-4850
Plumbing Deeter Ritchey Sippel - M. L. Tepper - Gateway 4, Pgh. Pa. 391-4850
Electrical Peter F. Loftus - S. Lyon - Chamber of Commerce Bldg. Pgh.Pa. 391-2280

CONTRACTOR
Donora Construction Company
1815 Washington Road, Pgh., Pa. 15241
Mr. L. A. Carter

Bid

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C.O. #1 Cage Washer 4,300.00 7/23/69
C.O. #2 MH & Pipe Work 3,200.00 9/19/69
C.O. #3 (See ori.C.O.) no cost 3/5/70 - Rev. 3/16/70

Final Certificate 6/18/69
**PROJECT NAME:** TRYSTING PLACE  
Virgin Gorda, British Virgin Islands  
Estate of Dr. Edward H. Litchfield

**OWNER:** Estate of Dr. Edward H. Litchfield

**REQUESTING AGENCY:** Estate of Dr. Edward H. Litchfield

**CONSULTANTS**

<table>
<thead>
<tr>
<th>NAME</th>
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<td>Deeter Ritchey Sippel-M.L. Tepper, 4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
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</table>

**PROJECT NO.:** 1158
**PROJECT MANAGER:** R. O. Deeter  
**PROJECT DESIGNER:** G. Saire

**Date of DRS Contract**  
**Documents Completed**  
**Bid Date**  
**Construction Start**  
**Construction Completed**  
**Total Cost** $200,000.00  
**Sq. Ft. Area** 4,500 SF  
**Cost/SF** 44.44 SF  
**Fee** Hourly
**PROJECT NAME:** BRADDOCK GENERAL HOSPITAL

**REQUESTING AGENCY:** Hill-Harris & Others

**CONSULTANTS** | **NAME** | **ADDRESS** | **TELEPHONE**
---|---|---|---
Mechanical | M. L. Tepper | DRS 4 Gateway Center | 391-4850
Structural | E. V. Dotter | DRS 4 Gateway Center | 391-4850
Lighting | J. Maquire | DRS 4 Gateway Center | 391-4850
Landscape | E. H. Koudela | DRS 4 Gateway Center | 391-4850
Electrical | Not selected | | }

**PROJECT NO.** 1161.3
**PROJECT MANAGER** T. V. Thorsen
**PROJECT DESIGNER** David Davis

Date of DRS Contract August 1968
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost $7,700,000
Sq. Ft. Area 139,000 New Replacement
Cost/SF 44.30 69,000 Alterations
Fee % New + % Alterations

---
PROJECT NAME: HUNTING LODGE

OWNER: T. A. Hunt

REQUESTING AGENCY: T. A. Hunt

CONSULTANTS

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<td>Hornfeck Engr. Inc. 711 Penn Ave. Bldg. Pgh. 15222</td>
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CONTRACTORS

General T. A. Hunt and DRS

Various subcontract work let to local stonemason, plumbint-heating, and electrical contractors.

Wood Structures Inc. (Weyerhauser Wood Products)
Laminated beams and decking plus erection.

Aluminum roof, gutters and skylight.

Columbia Architectural Metals Co.
Alply wall panels; aluminum fixed glass, sliding glass doors, aluminum doors, ornamental aluminum and glass. Erection of all above.
DESCRIPTION: A 1-story structure of long-span laminated West Coast Douglas Fir beams and 4 in. t. & g. decking, supported on native stone piers with interior reinforced concrete stiffness. Basically (1) large space with partitioned bath and kitchen. Exterior and interior of 2 in Alply panels. Central stone fireplace with large aluminum framed wire glass skylight. 
Roof: Battens aluminum roof and formed sheet gutters.
Doors of pattern flush aluminum.
Door frames, flush glazing, sliding doors all aluminum.
Finishes: All aluminum except roof, Duranodic Medium Bronze.
Floors waxed concrete slab-on-grade.

HEAT: Hot-air heating through under slab ducts to floor diffusers at glass. 
Ventilating exhaust fan housed in top of fireplace masonry and exhausting through flue.

PLUMBING: Bath & Kitchen waste to septic system. Electric hot water heater. Domestic water from main house supply.

PROJECT NAME: WESTMORELAND COUNTY MUSEUM OF ART
PROJECT NO: #1167
- WEST WING ADDITION -

PROJECT MANAGER: J.C. Armstrong
PROJECT DESIGNER: H.B. Grant
Job Capt. DRS: E.R. Gallagher

Date of DRS Contract: 5/27/66
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 

OWNER:
Westmoreland County Museum of Art
211 North Main Street
Greensburg, Penna. 15601
Dr. Paul Chew (Director)

Bid Date: 3/25/67
Construction Start: 6/7/67
Construction Completed: 10/68
Total Cost: $330,669.24
Sq. Ft. Area: 8,630
Cost/SF: $38.66
Fee: %

REQUESTING AGENCY:

CONSULTANTS

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<td>DRS-E.V. Dotter</td>
<td>740 Gateway 4, Pgh., Pa. 391-4850</td>
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<td>DRS-H.L. Tepper</td>
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<td>Plumbing</td>
<td>Carl J. Long &amp; Assoc. 100 Fifth Avenue, Pgh., Pa. 471-9100</td>
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<td>Electrical</td>
<td>John Maguire Box 245, R.D.2, Cheswick, Pa. 767-4283</td>
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CONTRACTORS

General
Westmoreland Constr. Co. P.O. Box 159, Huff Avenue South Greensburg, Pa. 15601 834-4200

Mechanical
O'Neill Plumbing & Heating 508 North 2nd St. Jeanette, Penna. 523-4661

Plumbing
Richard O'Neill

Electrical
Cavalier Electric Co. 113 East Offerman St. Greensburg, Penna. 15601 834-1420

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2/14/73
DESCRIPTION: Poured-in-place foundation walls, face brick and concrete block wall bearing with precast concrete floor system with cement fill. Roof also precast concrete members, cement fill, insulation and built-up roofing. Interior wall finish plaster with inset strips for hanging of displays. Interior court has 9 skydomes, approx. 4' sq. each. Court serves as entry to two exhibit rooms finished in wood paneling. Wood paneling was installed under separate contract. Paneling had been removed from residence above Ligonier, Pa. and Park Mansions Apartment in Pittsburgh.

There were no additional toilet facilities added with this wings.

Heating and air conditioning is provided by air handling units and supply and return ducts. A new cooling tower was added on the roof of the new wing to serve this area. Heating is provided through extending lines from the present boiler.

Lighting has been specially designed for flexibility and to provide decorative lighting for exhibitions.
**PROJECT NAME:** McKain Ford  
McCandless Township  
Pittsburgh, Pa.

**OWNER:** McKain Ford Inc. Sales & Service  
Jim McKain  
4833 Perrysville Road  
Pittsburgh, Pa. 15229

**REQUESTING AGENCY:** Ford Motor Company  
Dearborn, Michigan 48121

**CONSULTANTS** | **NAME** | **ADDRESS** | **TELEPHONE**
--- | --- | --- | ---
Structural | Deeter Ritchey Sippel-E.V. Dotter | Gateway 4 15222 | 391-4850
Landscaping | Simonds & Simonds-J. Simonds | 100 Ross Street  
Pittsburgh, Pa. 15219 | 261-3808
Lighting | John McGuire | Box 245, R.D. #2  
Cheswick, Pa. | 767-4283
Plumbing | Parros & Cost, Inc. | 4 Smithfield Bldg.  
Pittsburgh, Pa. 15222 | 281-6077
HVAC | Parros & Cost, Inc. | 4 Smithfield Bldg.  
Pittsburgh, Pa. 15222 | 281-6077
Electrical | Hornbeck Engineering | 711 Penn Avenue Bldg.  
Pittsburgh, Pa. 15222 | 281-5644

**Owner's Attorney** | David B. Fawcett, Jr.  
Grant Building  
Pittsburgh, Pa. 15219 | 471-7373

**PROJECT NO.** 1168 & 1168.1 & 1168.2  
**PROJECT MANAGER** W. H. Sippel  
**PROJECT DESIGNER** W. H. Sippel

Date of DRS Contract  
Documents Completed  
Bid Date  
Construction Start  
Construction Completed  
Total Cost  
Sq. Ft. Area  
Cost/SF  
Fee
PROJECT NAME: HUNT LIBRARY
1967 Alterations and Additions

OWNER: Carnegie Institute of Technology

REQUESTING AGENCY:

CONSULTANTS | NAME | ADDRESS | TELEPHONE
------------|------|---------|----------

PROJECT NO. 1169
PROJECT MANAGER F. Knoble
PROJECT DESIGNER J. Stephens

Date of DRS Contract
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost
Sq. Ft. Area
Cost/SF
Fee 8% New Work
10% Alterations
**PROJECT NAME:** CENTRAL BLOOD BANK & CLINICAL CHEMISTRY LAB

**PER:** University of Pittsburgh

**REQUESTING AGENCY:**
- Central Blood Bank of Pittsburgh
- Univ. Health Center of Pittsburgh
- Pa. Dept. of Welfare (administers the Hill-Burton Program in Penna.)

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical</td>
<td>M. L. Tepper</td>
<td>DRS 4 Gateway Center, Pgh., Pa.</td>
<td>391-4850</td>
</tr>
<tr>
<td>Structural</td>
<td>E. V. Dotter</td>
<td>DRS 4 Gateway Center, Pgh., Pa.</td>
<td>391-4850</td>
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<tr>
<td>Electrical</td>
<td>P. F. Loitus</td>
<td>900 Chamber of Commerce</td>
<td>391-2280</td>
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**PROJECT NO.:** 1171
**PROJECT MANAGER:** W.B.S.
**PROJECT DESIGNER:**

- **Date of DRS Contract:** July 25, 1966
- **Documents Completed:** Jan. 22, 1968
- **Bid Date:** June 4, 1968
- **Construction Start:** Aug. 1, 1968
- **Construction Completed:**
- **Total Cost:** $2,125,000.00
- **Sq. Ft. Area:** 39,675 S.F.
- **Cost/SF:** $53.56/S.F.
- **Fee:**
**PROJECT NAME:** WESTINGHOUSE ELECTRIC CORP. SYSTEMS ENGINEERING BLDG. FOREST HILLS, PENNA.

**ER:** WESTINGHOUSE ELECTRIC CORP.

**REQUESTING AGENCY:** HEADQUARTERS WORKS ENGINEERING, WESTINGHOUSE ELECTRIC CORP.

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
</table>

- **PROJECT NO.:** 7775
- **PROJECT MANAGER:** F. Knoble
- **PROJECT DESIGNER:** L. H. Hinnerly
- **Date of DRS Contract:** 6/30/66
- **Documents Completed:** 10/19/66
- **Bid Date:**
- **Construction Start:**
- **Construction Completed:**
- **Total Cost:**
- **Sq. Ft. Area:**
- **Cost/SF:**
- **Fee:**
This feasibility study was made to various problems involved in expanding the existing Forest Hills office facilities of the Atomic Power Divisions to a total new construction of 157,500 s.f. net. office space plus a parking increase to 1,973 automobiles. The existing site, covered about 25% with brick buildings added to during the years, consisting of a building complex situated on top of a wooded bluff with parking areas at upper and lower levels. Located in suburban Pittsburgh, the site is reached through a main traffic artery in the valley below and by way of several residential streets from the upper level.

First Phase: Preliminary feasibility study was made to determine whether building space and parking requirements could be met with on this site. Net result was that site could accommodate buildings plus parking but that parking would use all available site - restricting future expansion, requiring excessively long walk to offices and sacrificing any consideration for relation of parking to employee direction of approach.

Second Phase: Further development to Preliminary Design proceeded with development of future plans for improvement of street approaches - working with Forest Hills Borough Planning Council. Concurrently, a detailed study of disposition of parking was undertaken, which included a phased plan for acquisition of adjacent residential property so that the site might be freed for better building planning and better auto parking and circulation.

Final preliminary study included schematic building plans incorporating a combined lower level entrance through a multi-level parking garage leading to an upper level court entrance to the building. The garage-office complex dramatized the cliff site as viewed from the main traffic artery through the valley below and managed the vehicle transition from valley entrance to hilltop while taking this traffic off of local residential streets. Upper level access was planned through a widened street connecting to a parkway.

Expansion and project development was planned to incorporate adjacent residential properties in stages.

An estimate completed the study, showing the cost of building, parking garage and site improvements - all tied to initial and future stages of construction. A land purchase cost estimate by the Westinghouse real estate department completed the cost study.

<table>
<thead>
<tr>
<th>Scheme I</th>
<th>Sq. Ft.</th>
<th>Cost /S.F.</th>
<th>Total</th>
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<tr>
<td>Offices</td>
<td>101,800</td>
<td>$30.00</td>
<td>3,064,000</td>
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<tr>
<td>Parking on grade</td>
<td>576 cars at</td>
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<td>141,000</td>
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<td><strong>Total with Site Improvements</strong></td>
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<td>$3,426,000</td>
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<tr>
<th>Scheme III</th>
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<tr>
<td>Offices</td>
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<td>$30.00</td>
<td>$5,250.00</td>
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<tr>
<td>Garage</td>
<td>383,500</td>
<td>9.00</td>
<td>3,451.500</td>
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<tr>
<td>(1,060 cars x 343 s.f.)</td>
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<tr>
<td><strong>Total with Site Improvements</strong></td>
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<td>$9,141,400</td>
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</table>
PROJECT NAME: BUS GARAGE
HARMARVILLE, PENNA.

PROJECT NO: 1178
PROJECT MANAGER: S.E. Zionts
PROJECT DESIGNER: S. Kresicki

Date of DRS Contract: 11/30/66
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed: 4/2/69
Bid Date: 5/6/69
Construction Start: 8/26/69
Construction Completed: 1/71
Total Cost: $1,344,080.00
Sq. Ft. Area: 79,900 SF
Cost/SF: $16.82/SF
Fee: 4.75%
As of 8/26/69
91 Buses @ $14,770.00

OWNER: Port Authority of Allegheny County

REQUESTING AGENCY:

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>E.V. Dotter</td>
<td>DRS 4 Gateway Center</td>
</tr>
<tr>
<td>Mechanical</td>
<td>M.L. Tepper</td>
<td>DRS 4 Gateway Center</td>
</tr>
<tr>
<td>Plumbing</td>
<td>M.L. Tepper</td>
<td>DRS 4 Gateway Center</td>
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<tr>
<td>Electrical</td>
<td>Ed Wiesmann</td>
<td>Clark Building</td>
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CONTRACTORS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Martin &amp; Nettrour Contracting Co.</td>
<td>Union Trust Bldg.</td>
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<tr>
<td>HVAC</td>
<td>Penn Plumbing &amp; Heating</td>
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<tr>
<td>Electrical</td>
<td>Kirby Electric Service, Inc.</td>
<td>18 48 Street</td>
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<tr>
<td>Plumbing</td>
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COST DATA

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<th>GENERAL</th>
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<td>HVAC</td>
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<tr>
<td>ELECTRICAL</td>
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<td>TOTAL</td>
<td>$1,002,000.00</td>
<td>$1,344,080.00</td>
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2/21/73
PROJECT #1178
PORT AUTHORITY OF ALLEGHENY COUNTY
BUS GARAGE
HARMARVILLE, PENNSYLVANIA

DESCRIPTION: Steel frame and wall bearing masonry construction on spread footings. Existing soil and borrowed fill specially compacted to a higher elevation. Roofs are metal deck over long span steel joists, except for wet areas where precast concrete slabs are used. Slabs on grade are concrete. Slabs above grade are concrete over metal deck on steel joists.

Building consists of a Bus Storage Area, Fuel & Wash Area, Maintenance Area, and Administration Area on one level, with a Mezzanine Level above a Service Lane and above part of the Maintenance Area. Almost all of the site is paved with a bituminous surfacing, providing staging and Parking Areas as well as space for circulation. Landscaping is limited to perimeter borders and consists of ground cover, hedges and a few trees. Garage will house 91 buses.

Exterior of building is face brick with a number of overhead (plastic and aluminum) doors providing access to and egress from the various areas for busses and trucks. Interior finishes consist mostly of buff concrete block and the exposed structural ceiling. In the Administration Area and in limited rooms at Maintenance Area, block walls are painted, ceilings are acoustical tile and floors are vinyl asbestos tile. At Toilets and Janitor's closets, ceramic tile floors and glazed wall coating is used. Doors are hollow metal.

EQUIPMENT: Hydraulic bus lifts, interior cleaning and exterior washing equipment is provided. Metal storage bins, shelving, lockers and counters are included. An incinerator complete with stack is included.

HVAC: Air-conditioning is limited to the Administration Area. Gas fired unit heaters, and tempered make-up air and exhaust systems are provided in the Bus Storage Area, Fuel & Wash Area, and Maintenance Service Area. A duct system of heated air from unit heaters is included for the various rooms at the Maintenance Area. Toilets and Janitor's Closets are provided with an exhaust system. Compressed air system is installed at Maintenance Area and Fuel & Wash Area.

PLUMBING: Separate sanitary and storm drainage systems are provided with the former connected into a sanitary sewer and the latter spilling into an open drainage ditch. Except for a Bradley wash fountain, all plumbing fixtures are wall hung. A high pressure wash system is provided for bus washing equipment. Underground diesel oil and gasoline fuel tanks are installed on the site.

FIRE PROTECTION: A single fire hydrant is located on the site and hose racks are installed in the building.

ELECTRICAL: Fluorescent lighting, except for isolated instances within the building. Exterior flood lighting mounted on the building. Motor operated doors using photo cells and ground loops. Emergency light system is designed for continuing operation on a limited basis. An intercommunication system is provided.
<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel-E.V.Dotter</td>
<td>4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel-H.L.Tepper</td>
<td>4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Electrical</td>
<td>C. J. Long &amp; Assoc.</td>
<td>233 Oliver Ave., Pgh. 15222</td>
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</table>
PROJECT NO. 1180.1
PROJECT MANAGER F. Knoble
PROJECT DESIGNER L. H. Hinnerly

Date of DRS Contract 11/29/66
Documents Completed 3/67
Bid Date None
Construction Start None
Construction Completed None
Total Cost $13,536,600
Sq. Ft. Area 385,000
Cost/SF $35.15
Fee Technical Time f 150%
SITE DEVELOPMENT PLANS
SITE #1 ALLEGHENY COUNTY, PA.
PROJECT NO. 1180.1

DESCRIPTION: Site feasibility study for Headquarters Office Building & Research Labs and Offices for Atomic Power Divisions. 197 acre site paralleling the Pennsylvania Turnpike at Northern Pike, Monroeville, Penna. Study consisted of an investigation of parking for a population of 2500; site and perimeter traffic flow, entrance and exiting from restricted points of access to site; cut and fill studies; study of site's physical features, together with proposals for exploiting the elevated main building site's natural, park like setting to best advantages.

RECOMMENDATIONS: DRS recommended that, despite problems of traffic into inadequate perimeter county and state roads, that the site's advantages of proximity to the turnpike and parkway connection to Pittsburgh and the Greater Pittsburgh Airport (about 23 mi. to the Pittsburgh Triangle) an elevated site falling off all around so that the surrounding residential community and APD would be isolated from one another - sufficient buildable area to successfully accommodate offices, labs and parking - the opportunity to place the Headquarters Office Building on a prominence visible from a long sweep of turnpike and having pleasant views outward.
<table>
<thead>
<tr>
<th>PROJECT NUMBER</th>
<th>PROJECT</th>
<th>BUILDING COST</th>
<th>SQUARE FOOT</th>
<th>COST PER S.F.</th>
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</thead>
<tbody>
<tr>
<td>1180.3A</td>
<td>Building &quot;A &amp; B&quot;</td>
<td>$977,286.00</td>
<td>23,900 SF</td>
<td>$40.89/SF</td>
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<tr>
<td></td>
<td>Low-Bay Laboratory</td>
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<td></td>
<td>Building</td>
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<tr>
<td>1180.3B</td>
<td>Building &quot;B&quot;</td>
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<td>Office Area</td>
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<td>1180.3C</td>
<td>Building &quot;C&quot;</td>
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<td>High-bay Laboratory</td>
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<td></td>
<td>Building</td>
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<td></td>
<td>Building</td>
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<td>TOTAL</td>
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<td>$4,122,510.00</td>
<td>132,466 SF</td>
<td>$31.12/SF</td>
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</tbody>
</table>
The first of the new facilities to be constructed was the two phased liquid metal engineering laboratory, a combination high and low bay laboratory structure. The structure houses laboratory space, machine and instrument shops, test engineering offices and other support facilities in the low bay area, and the large "pilot-plant-scale" engineering rigs in the high bay laboratories.

Some of the planning criteria for this structure could not be established during the early phase, because some of the personnel who would ultimately occupy the building had not been hired and only generalities could be assumed. Therefore, the general requirement was that this facility was to have the capability for 100% flexibility regardless of occupancy.

The mechanical system is a tempered make-up air system with ductwork extending the length of the laboratory corridor. A by-pass duct, controlled by a static pressure controller, varies the quantity of make-up air distributed to the laboratories.

High bay structures have clear spans of sixty-four feet and clear heights ranging from 40 to 90 feet. Major exterior materials are precast concrete and coated metal siding.

The two story administration building is adjacent to the Liquid Metal Engineering Laboratory and connected by a covered walkway. The building houses the executive and administrative offices of the division, engineering offices, cafeteria, library and medical center.

The expanded "L" shaped plan of the building evolved from the uses within and to take advantage of the views of the pastoral setting of the site. The plan creates a natural semi-open landscaped court which is penetrated at one point by a pedestrian bridge over the shallow ravine.

The building is a steel frame structure with precast concrete panels and glass used as the exterior materials. The combination of the warm buff cement and exposed local aggregate in the precast concrete panels with solar bronze glass highlights this simple straightforward architectural solution.

Interior partitioning is based on a 5' x 5' module. Because of the flexibility requirements, a minimal number of fixed partitions were installed. The majority of the space is an open landscaped system using micarta movable partitions. The cafeteria and lounge are enclosed with glass on two sides opening a view into a small court enclosed by trees adjacent to the parking lot, and across the semi-open court which is formed by the building to the distant landscape.
PROJECT NAME: WESTINGHOUSE ELECTRIC CORP.
ADVANCED REACTORS DIVISION BLDG. A & B
WALTZ MILL, PENNA.

CONTRACTOR:
WESTINGHOUSE ELECTRIC CORP.
Three Gateway Center
Pittsburgh, Pa. 15222

REQUESTING AGENCY:
WESTINGHOUSE ELECTRIC CORP.
Headquarters Works Engineering
Three Gateway Center
Pittsburgh, Pa. 15222

CONSULTANTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>E. V. Dotter</td>
<td>DRS 4 Gateway Center, Pgh. 15222</td>
</tr>
<tr>
<td>Mechanical</td>
<td>M. L. Tepper</td>
<td>DRS 4 Gateway Center, Pgh. 15222</td>
</tr>
<tr>
<td>Electrical</td>
<td>Hornfeck Eng. Inc.</td>
<td>711 Penn Ave., Bldg., Pgh. 15222</td>
</tr>
<tr>
<td>Landscape</td>
<td>N. Robert Fenton</td>
<td>6010 Penn Circle</td>
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<tr>
<td>Architect</td>
<td>C. M. Consultant</td>
<td>De Woody Co.</td>
</tr>
<tr>
<td>Architectural</td>
<td>John J. Ross</td>
<td>8400 Perry Highway</td>
</tr>
<tr>
<td>Drafting Services</td>
<td></td>
<td>Pittsburgh, Pa. 15237</td>
</tr>
</tbody>
</table>

CONTRACTORS

| GENERAL      | Dick Corporation              | Route 51, Large, Pa.                      | 462-5700 |
| ELECTRICAL   | Church and Murdock            | 444 Steck Street Greensburg, Pa.         | 412-834-6791 |
| HVAC         | Schneider Inc.                | 501 Trumbull Drive                       | 821-3800 |
| PLUMBING     | Sauer Inc.                    | 30, 51st Street Pittsburgh, Pa.          | 682-6408 |

PROJECT NO. 1180.3A
PROJECT MANAGER: C. L. Christen
PROJECT DESIGNER: J. Kozak

Date of DRS Contract: 3/5/68
Documents Completed: 10/67 - 1/67
Bid Date: 9/67 - 1/67
Construction Start: 10/67
Construction Completed: 4/68
Total Cost: $977,286.00
Sq. Ft. Area: 23,900 SF
Cost/SF: 40.89
Fee: Technical Time: 150%

6/26/69
DESCRIPTION: Steel frame; concrete block, precast concrete and aluminum siding, one-story laboratory building. Concrete caissons and grade beam, partial spread footing foundations. Bays framed 30 ft. by 40 ft., minimum clear bright 12 ft. Structure and steel deck exposed. Floor (slab-on-grade) line load about 2,000 /s.f. Module is 5 ft.

HVAC: A/C throughout; electric with electric reheat. Fresh-air intake at building ends through roof service core running length of building. Exhaust air and future fumehood exhausts through service core. System designed to move air from perimeter corridors, through labs to roof exhaust to prevent contamination of interior.

PLUMBING: All service mains through roof service core, with tees every 15 ft. for lab taps. Services include domestic water, natural gas, vacuum. Exotic gases will be tapped from portable tanks. Complete acid-waste (Duriron) system with wastewater drains every 15 ft. System designed to avoid having water and sodium combine. Fireline to exterior hydrants.

ELECTRIC: High-voltage (4160 V.) substation under loading docks; two 1000 KVA transformers (plus (I) future) to switchgear at 480 V/277V./3 ph. 14-wire distribution through buses in service core, and conduit to main distribution panels. Systems include grounding, emergency lighting (for exits only), telephone conduit (exterior, underground), and lighting. Fixtures are 1 x 2 fluorescent with (2) 40W. lamps hung (moveable) from the structure, installed on a 5 x 5 ft. grid and producing about 150 f. c. at deck-top.

NOTE: Building is designed to provide a clear 12 ft. height through labs, doors and corridors for equipment movement. Module (5 x 5) is coordinate with all elements to provide maximum flexibility.
PROJECT NAME: WESTINGHOUSE AND EXPANSION - BUILDING 'B' ENGINEERING OFFICES

OWNER: WESTINGHOUSE ELECTRIC CORP.

REQUESTING AGENCY: HEADQUARTERS WORKS ENG.

CONSULTANTS NAME ADDRESS TELEPHONE

Structural Deeter Ritchey Sippel-E.V.Dotter, 4 Gateway Center, Pgh. 15222 391-4850
Mechanical Deeter Ritchey Sippel-M.L.Tepper, 4 Gateway Center, Pgh. 15222 391-4850
Electrical Hornfeck Engr. Inc. 711 Penn Ave. Bldg., Pgh. 15222

CPM Consultants DeWoody Co. Pittsburgh, Pa. 281-1437

PROJECT NO. 1180.38
PROJECT MANAGER F. Knoble
PROJECT DESIGNER J. Kozak

Date of DRS Contract 3/5/68
Documents Completed 12/15/67
Bid Date Const. Started 11/1/67
Construction Start On Cost Plus
Construction Completed 4/15/68
Total Cost $430,834.00
Sq. Ft. Area 15,600
Cost/SF 27.61
Fee Technical Time + 150%
DESCRIPTION:

1-story steel frame on grade beams and concrete caissons to rock; precast concrete, concrete block and fixed glass in custom aluminum extruded frames. Four-way structural concrete floor slabs between grade beams. 5 x 5 ft. module established for Westinghouse Micorta movable partitions. 2 x 4 ft. recessed fixtures and incombustible acoustic tile in suspended tee system. All fixed partitions concrete block.

Finishes: Ceramic tile floors and walls in Toilets,

Plaster over block at Offices and Conference Rooms.

Exposed block painted at Corridors v.a.t. floors.

HVAC:

A/C from Westinghouse Electric chiller located in 'A' Building with air distribution thru ceiling diffusers and return through ceiling plenum to return ducts. Air under pressure and moving from offices across corridors to low-bay lab to prevent contamination from radioactive material. Perimeter electric baseboard radiation plus terminal duct electric reheat.

PLUMBING:

Domestic hot and cold water system from 'A' Building; sanitary system connected to new site sanitary sewage treatment plant and storm water to new site storm system; Westinghouse Electric water coolers. Wall-hung fixtures. New fireline with hydrants at building corners.

ELECTRIC:

Service from 'A' Building switchgear to 110/208 stepdown transformer and distribution in plenum to outlet with Romex leads to 2 x 4 ft. fluorescent fixtures - suspended in corridors and recessed in offices. Electric and telephone lines run in ceiling plenum to partition muillions.
PROJECT NAME: WESTINGHOUSE ELECTRIC CORPORATION
Advanced Reactor Division Bldg. "C"
Waltz Mill, Pa.

OWNER: WESTINGHOUSE ELECTRIC CORP.
Three Gateway Center
Pittsburgh, Pa. 15222

REQUESTING AGENCY: Westinghouse Electric Corporation
Three Gateway Center
Pittsburgh, Pa. 15222

CONSULTANTS

Name: Deeter Ritchey Sippel-E.V.Dotter, 4 Gateway Center, Pgh. 15222
Address: 711 Penn Ave. Bldg., Pgh. 15222
Telephone: 391-4850

Mechanical: Deeter Ritchey Sippel-M.L.Tepper, 4 Gateway Center, Pgh. 15222
Address: 711 Penn Ave. Bldg., Pgh. 15222
Telephone: 391-4850

Address: 711 Penn Ave. Bldg., Pgh. 15222
Telephone: 281-5644

CPM Consultants: DeWoody Co.
Address: Pittsburgh, Pa.
Telephone: 281-1437

CONTRACTORS

General: Dick Corporation
Address: Route 51, Large
Telephone: 462-5700

HVAC: Schneider Inc.
Address: 501 Trumbull Drive
Pittsburgh, Pa.
Telephone: 921-7909

Plumbing: Sauer Inc
Address: 30 51st Street
Pittsburgh, Pa.
Telephone: 682-6408

Electrical: Jones & Krall
Address: 1608 Main Street
Pittsburgh, Pa. 15215
Telephone: 781-2990

PROJECT NO. 1180.3C
PROJECT MANAGER C. J. Christen
PROJECT DESIGNER J. Kozak
Date of DRS Contract 3/5/68
Documents Completed 3/5/68
Bld Date 3/15/68
Construction Start 3/15/68
Construction Completed
Total Cost $477,400.00
Sq. Ft. Area 13,996
Cost/SF $34.11
Fee Technical Time + 150%

6/26/69
This building is a 1-story "high-bay" research laboratory - 35 ft. to crane rail in the main bays, and 50 ft. in the penthouse. Rigid steel frames span 64 ft. and provide support for crane rails and insulated metal siding. Foundations are spread footings on rock. Floor slab is 8 in. concrete designed for 2,000 pounds per sq. ft. line load. Walls are concrete block to top of hollow metal door frames, stepping out to metal siding framed on girts outside of the columns. Metal wall is 1 1/2 in. insulated with 20 ga. interior galvanized steel sheet and 0.040 in. x 3 in. deep polymer coated aluminum exterior sheet.

Roof is 4-ply built-up on 3 in. rigid insulation on 1 1/2 in. steel deck. Two 12 ft. w. coiling door. All interior metal painted. Cranes - 10 ton main bays and 5 ton penthouse.

Gas-fired wall mounted combination heater-ventilator units, with air intake at curtain wall soffit and exhaust fans under roof.

Duriron acid-waste system. Hot water, cold water, natural gas and vacuum systems extended from Building 'A' and piped around walls, with valved tees at 20 ft. All water supply and drainage design to prevent possibility of free water coming into contact with sodium used in experiments.

Power distributed through under slab conduits to power panels located at every other column. Suspended high efficiency fluorescent fixtures. Fire control connected to close ventilating fans and overhead doors to contain sodium-oxide fumes.
**PROJECT NAME:** WESTINGHOUSE ELECTRIC CORPORATION  
Advanced Reactor Division Bldg. "D"  
Waltz Mill, Pa.  

**Owner:** WESTINGHOUSE ELECTRIC CORP.  
Three Gateway Center  
Pittsburgh, Pa. 15222  

**REQUESTING AGENCY:** Headquarters Works Engineering  
Westinghouse Electric Corp.  
Three Gateway Center  
Pittsburgh, Pa. 15222  

**CONSULTANTS**  
<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel-E. V. Dotter</td>
<td>4 Gateway Center, Pgh. 15222</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel-H. L. Tepper</td>
<td>4 Gateway Center, Pgh. 15222</td>
</tr>
</tbody>
</table>

**CPM Consultants**  
DeWoody Co.  
Pittsburgh, Pa.  
281-1437  

**CONTRACTORS**  
<table>
<thead>
<tr>
<th>CPM</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Dill Construction Co.</td>
<td>Box 472</td>
</tr>
</tbody>
</table>
| HVAC | Sauer Inc. | 30 51st Street  
Pittsburgh, Pa. | 682-6408 |
| Plumbing | Sauer Inc | 30 51st Street  
Pittsburgh, Pa. | 682-6408 |
| Electrical | Jones and Krall | 1608 Main Street  
Pittsburgh, Pa. 15215 | 781-2990 |

**PROJECT NO.** 1180.30  
**PROJECT MANAGER** C. L. Christen  
**PROJECT DESIGNER** J. Kozak  

Date of DRS Contract 3/5/68  
Documents Completed 4/19/68  
Bld Date 6/5/68  
Construction Start 6/5/68  
Construction Completed  
Total Cost $438,990.00  
Sq. Ft. Area 14,000 SF  
Cost/SF 31.35  
Fee Technical Time + 150%  

6/26/69
DESCRIPTION: This building is a 1-story "high-bay" research laboratory - 40 ft. to crane rail in the main bays, and 90 ft. to bottom of the penthouse roof. Rigid steel frames span 64 ft. and provide support for crane rails and insulated metal siding. Foundations are spread footings on rock. Floor slab is 8 in. concrete designed for 2,000 pounds per sq. ft. live load. Walls are concrete block to top of hollow metal door frames, stepping out to metal siding framed on girts outside of the columns. Metal wall is 1 1/2 in. insulated with 20 ga. interior galvanized steel sheet and 0.040 in. x 3 in. deep polymer coated aluminum exterior sheet.

Roof is 4-ply built-up on 3 in. rigid insulation on 1 1/2 in. steel deck. Two 12 ft. w. ceiling door. All interior metal painted. Cranes - 10 ton main bays and 5 ton penthouse.

HV: Gas-fired wall mounted combination heater-ventilator units, with air intake at curtain wall soffit and exhaust fans under roof.

PLUMBING: Duriron acid-waste system. Hot water, cold water, natural gas and vacuum systems extended from Building 'A' and piped around walls, with valved tees at 20 ft. All water supply and drainage design to prevent possibility of free water coming into contact with sodium used in experiments.

ELECTRIC: Power distributed through under slab conduits to power panels located at every other column. Suspended high efficiency fluorescent fixtures. Fire control connected to close ventilating fans and overhead doors to contain sodium-oxide fumes.
**PROJECT NAME:** WESTINGHOUSE AND EXPANSION BUILDING 'F'  

**OWNER:** WESTINGHOUSE ELECTRIC CORP.  
Three Gateway Center  
Pittsburgh, Pa. 15222

**REQUESTING AGENCY:** WESTINGHOUSE ELECTRIC CORP.  
HEADQUARTERS WORKS ENGINEERING  
Three Gateway Center  
Pittsburgh, Pa. 15222

**CONSULTANTS**  

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<tr>
<th>NAME</th>
<th>ADDRESS</th>
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<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel-E.V.Dotter, 4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel-M.L.Tepper, 4 Gateway Center, Pgh. 15222</td>
<td>391-4850</td>
</tr>
</tbody>
</table>
| Electrical | Hornfeck Engr. Co.  
711 Penn Ave. Bldg. Pgh. 15222 | 281-5644 |

**CPM Consultants:** DeWoody Co.  
Pittsburgh, Pa.

**Contractors:**

<table>
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<tr>
<th>Category</th>
<th>Company</th>
<th>Address</th>
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<tr>
<td>General</td>
<td>Dill Construction Co.</td>
<td>P.O. Box 472, Latrobe, Pa.</td>
<td>537-3386</td>
</tr>
<tr>
<td>HVAC</td>
<td>Ruthrauff Inc.</td>
<td>1627 Penn Avenue</td>
<td>471-6290</td>
</tr>
</tbody>
</table>
| Plumbing | Sauer Inc. | 30 51st Street  
Pittsburgh, Pa. | 682-6408 |
| Electrical | Jones and Krall | 1608 Main Street  
Pittsburgh, Pa. 15215 | 781-2990 |

**PROJECT NO.** 1180.3F  
**PROJECT MANAGER** C. L. Christen  
**PROJECT DESIGNER** J. Kozak  
**Date of DRS Contract** 3/5/68  
**Documents Completed** April 11, 1968  
**Bld Date** 4/19 to 6/15  
**Construction Start** (Delayed)  
**Construction Completed**  
**Total Cost** $1,798,000.00  
**Sq. Ft. Area** 65,000 SF  
**Cost/FT** 27.66  
**Fee** Technical Time + 150%  
**25% Comp.** 2/29/68  

6/26/69
DESCRIPTION: 2-story, steel frame, beam and bar joist. Precast concrete and fixed aluminum windows with heat-absorbing glass. Socketed concrete, caisson and grade-beam foundation. First floor - concrete ribs framed between grade beams. 4-ply flat built-up roof, 3 in. insulation. Typical floor, 2 1/2 in. concrete deck on corrugate.

Building module 5 x 5 for future Micarta movable partitions. Fixed partitions of metal stud and sheet-rock. Ceramic tile floors and walls in Toilets and ceramic and quarry tile in Kitchen. Ceilings 2 x 4 incombustible tile in exposed tees, typical; aluminum perforated at Kitchen; hard plaster at Toilets. V.a.t. typical office floors.

Building contains Kitchen-Cafeteria, Library, Large Conference Rm., Medical Suite, Executive Offices.

ELEVATORS: Hydraulic service elevator - (2) stops.

HVAC: All A/C with electric, standard package units. All air system with air supply through ceiling diffusers and returns to ceiling plenum. Heat of lights used for night and weekend lowered temperature, with electric duct reheat and perimeter electric baseboard radiation.

PLUMBING: Domestic water; electric hot water heaters; electric coolers; wall hung toilet fixtures. Sanitary to site sewage treatment plant. Storm drainage to site storm drainage system.

ELECTRIC: Substation and switchgear in mechanical room. 120/208V., 3 phase, 4-wire distribution.

Standard 2 x 4 recessed fluorescent fixtures at 5'-0" o.c., 100 f.c. maintained. Lighting and receptacle wiring in ceiling space to fixed outlets, and romex from outlets chased through movable partition mullions to receptacles and switches.

Telephone on same flexible hook-up.

Kitchen: All electric

Telephone: Centrex dialing system, to remote relays through ceiling space.

Emergency lighting system.

Building grounding system.
PROJECT NAME: WESTINGHOUSE ELECTRIC CORPORATION
NUCLEAR CENTER
Monroeville, Pa.

OWNER: Westinghouse Electric Corporation
Three Gateway Center
Pittsburgh, Pa. 15222

REQUESTING AGENCY: Westinghouse Electric Corporation
Headquarters Works E.
Three Gateway Center
Pittsburgh, Pa. 15222

CONSULTANTS

Structural
DRS, Inc.

Address
Four Gateway Center
Pittsburgh, Pa. 15222

Contractor

Mechanical
DRS, Inc.

Address
Four Gateway Center
Pittsburgh, Pa. 15222

Electrical
Peter F. Loftus Corp.

Address
Chamber of Commerce Bldg.
Pittsburgh, Pa. 15219

Landscaping
Simonds & Simonds

Address
100 Ross Street
Pittsburgh, Pa.

Interiors
ISD, Inc.

Address
New York

Plumbing
Schneider Inc.

Address
501 Trumbull Drive
Pittsburgh, Pa.

TELEPHONE
391-4859
391-4859
391-2280
391-2280
212/751-0800
391-6400
391-7909

PROJECT NO. 1180.4B
PROJECT MANAGER F. Knoble
PROJECT DESIGNER H.B. Grant

Date of DRS Contract December 1968
Documents Completed May 1969
Bid Date June 12, 1969
Construction Start July 1, 1969
Construction Completed 12/31
Total Cost $9,150,000
Sq. Ft. Area 330,000
Cost/SF $27.72
Fee Lump sum

10/21/69
<table>
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<th>NAME</th>
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<tr>
<td>Structural Engineers</td>
<td>DRS, Inc.</td>
<td>Four Gateway Center</td>
<td>391-4859</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pittsburgh, Pa. 15222</td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td>DRS, Inc.</td>
<td>Four Gateway Center</td>
<td>391-4859</td>
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<td></td>
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<td>Pittsburgh, Pa. 15222</td>
<td></td>
</tr>
<tr>
<td>Electrical Engineers</td>
<td>Peter F. Loftus</td>
<td>900 Chamber of Commerce Bldg.</td>
<td>391-2280</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pittsburgh, Pa. 15219</td>
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<tr>
<td>Contractors</td>
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</tr>
<tr>
<td>General</td>
<td>Martin &amp; Nettrour</td>
<td>Union Trust Bldg.</td>
<td>281-3600</td>
</tr>
<tr>
<td></td>
<td>Contracting Company</td>
<td>Pittsburgh, Pa. 15219</td>
<td></td>
</tr>
<tr>
<td>Mechanical</td>
<td>Sauer Inc.</td>
<td>30 51st. Street</td>
<td>682-6408</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pittsburgh, Pa.</td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>Wood Electrical</td>
<td>Investment Bldg.</td>
<td>261-3409</td>
</tr>
</tbody>
</table>
PROJECT NAME: ALCOA PENTHOUSE PROJECT
Interior Alterations

OWNER: Aluminum Company of America
Alcoa Building
Pittsburgh, Pa.

REQUESTING AGENCY:

CONSULTANTS

<table>
<thead>
<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
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<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural</td>
<td>Deeter Ritchey Sippel - E.V.Dotter,</td>
<td>Gateway 4, Pgh., Pa. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Deeter Ritchey Sippel - M.L. Tepper,</td>
<td>Gateway 4, Pgh., Pa. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Plumbing</td>
<td>Deeter Ritchey Sippel - M.L. Tepper,</td>
<td>Gateway 4, Pgh., Pa. 15222</td>
<td>391-4850</td>
</tr>
<tr>
<td>Lighting</td>
<td>John Maguire</td>
<td>Box 245 Cheswick, Pa. 15024</td>
<td>767-4283</td>
</tr>
<tr>
<td>Interiors</td>
<td>Gart Urban Associates Inc.</td>
<td>3726 S. W. 8th Street</td>
<td>305-445-8896</td>
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CONTRACTORS

<table>
<thead>
<tr>
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<th>NAME</th>
<th>ADDRESS</th>
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<tbody>
<tr>
<td>General Contractor</td>
<td>Martin &amp; Nettour - Union Trust Bldg.</td>
<td></td>
<td>281-3600</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Sauer, Inc.</td>
<td>30-51st Street, Pittsburgh, Pa.</td>
<td>682-6408</td>
</tr>
<tr>
<td>Plumbing</td>
<td>Sauer, Inc.</td>
<td>30-51st Street, Pittsburgh, Pa.</td>
<td>682-6408</td>
</tr>
<tr>
<td>Electrical</td>
<td>Frame Electrical</td>
<td>841 California Ave., Pittsburgh, 15212</td>
<td>322-1500</td>
</tr>
<tr>
<td>Elevators</td>
<td>Westinghouse Electric - 18 Terminal Way, Pittsburgh, 15219</td>
<td>255-4004</td>
<td></td>
</tr>
</tbody>
</table>

PROJECT NO. 1183
PROJECT MANAGER J. Schonder
PROJECT DESIGNER Gart Urban
Frances Quill

Date of DRS Contract 5/18/67
Documents Completed 8/1/67
Bid Date None - Negotiated Contract
Construction Start 7-15-67
Construction Completed
Total Cost $1,900,000
Sq. Ft. Area 11,825
Cost/SF 160.67
Fee 2/3 15% DRS
1/3 15% G. Urban

6/26/69
GENERAL DESCRIPTION
Alcoa Penthouse Project
#1183

OBJECTIVES

The additions and alterations to the thirty-first floor of the Aluminum Company of America Building at Pittsburgh, Pennsylvania, were developed to accomplish two primary objectives:

1. To provide improved accommodations and expanded facilities for general board meetings and conferences.

2. To provide improved public relations by meeting a community need for a convenient and flexible exhibition area for the use of local and national service organizations, which can also be used for Alcoa product displays.

EXISTING AREA

An inspection and investigation of the present thirty-first floor area developed these primary basic needs to augment the Board Room accommodations:

1. Dining Facilities
2. Film Production Facilities
3. Additional rest room facilities

From the initial investigation, it was also apparent that some 4500 square feet of floor area is now available at the present sloped roof spaces behind the exterior parapet screen enclosure to the east and to the west. It is logical that this valuable "real estate" be reclaimed for more practical uses. Not being able to exploit the natural scenic views from these vantage points, with Mellon Square as a front yard, the Bluff, and the Point as sideyards, also seems remiss. Therefore, an
expansion of the total floor plan will enclose these areas with a Cupples Airforce Aluminum Frame System and tinted insulating glass; all within the existing exterior aluminum parapet screen.

Another development occurring as a beneficial result of the windowwall enclosure will be the use of the reflective surfaces of the enclosure for floodlighting. The night illumination through the openings in the parapet screen will be a welcome addition to the Pittsburgh skyline and provide building identification after dark.

The assignment of space enclosed by the glazed aluminum frame will provide accommodation for a display area of Alcoa products. In addition, the space will make available to the community and the company an exhibition area and meeting room equipped with modern audio visual aids for seminars and conferences. The Galleries, so enclosed, will be ideal for art shows and other displays.

To further enhance the public relations value of the exhibition area, assure its continued use and provide convenient access, the travel limits of two passenger elevators and the freight elevator will be extended to the thirty-first floor level. Entrance will be made from the elevators, using the existing corridor, and through a new Elevator Lobby and new Permanent Exhibit Hall featuring the "Crown Jewels" of Alcoa.
PROJECT NAME: SHENANGO FURNACE CO.
Head Quarters Offices 35th Floor
One Oliver Plaza

OWNER: SHENANGO FURNACE CO.
814 Oliver Building
Pittsburgh, Pa. 15222

REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE
Elec. Fixtures John Maguire Box 245 RD - 2, Cheswick, Pa. 767-4283

NOTE: The landlord (Oliver Tyrone Co.) provides the Engineering for Plumbing, HVAC, Electrical & Structural.
The Owner has retained Mr. Neil Scott of General Office Equipment Company for furniture layout, furniture and file cases, carpeting and wall covering.

Deeter Ritchey Sippel Provides: Architectural layout, details, millwork, door and room schedules, electrical ceiling fixture layout, power and phone outlets, plumbing layout, air conditioning loading requirements and floor loading over 70#/sq. ft.

Contractors for Tenant Work
General - Diesel Construction Oliver Bldg.
A Div. of Carl A. Morse Inc. Mellon Square
Pgh., Pa. 15222 261-0261

Richard C. Halpern
Vice President

Tenant (Shenango Furnace Co.) is charged for all tenant work done by Diesel Construction that is over the Building standards. Copy of Building Standards Exhibit B attached.
Partitions: Furnish and install ceiling height dry wall partitions in the ratio of one lineal foot to each ten square feet of rentable area, together with doors and hardware.

Interior Door Openings: Door frames to be 16 gauge rolled steel with integral jamb and flat trim. Jambs to be reinforced to receive and retain templated hardware. Standard door openings to be limited to one for each 25 lineal feet of building standard partitioning.

Doors: Doors to be Flush type Birch Veneer for painting; U. S. Plywood Kaio or equal with applicable Fire Ratings as required by the City of Pittsburgh.

Hardware: All hardware, including latch or lock sets to be Schlage D series or equal. Lock sets and exposed closers to be provided on one door to public halls on each floor.

Ceilings: Ceilings to be mechanically suspended acoustical tile U. S. Gypsum "Acoustone" F or equal.

Flooring: Flooring to be 1/8" marbled vinyl asbestos floor tile or equal with 1/4" rubber cove black base; floor load capacity to be 70 psf (including partitions) live load.

Lighting: Furnish and install Building Standard recessed fluorescent light fixtures so as to maintain an average of 55 foot-candles intensity at 30 inches off the floor, provided Tenant specified room surfaces and finishes having the following minimum coefficient of reflection of incident light: ceiling - 80%; walls - 50%; floors - 20%.

Electric: Furnish and install duplex electric receptacles in a ratio of one 100 rentable square feet of which not more than 25% may be on the electric underfloor pattern. One light switch will be provided in each room.

Telephone: Furnish and install standard telephone outlets at a ratio of one per 150 rentable square feet, of which not more than 25% may be on the electric underfloor pattern.

Electric Service: The service capacity of electricity at the electric closets shall be 5-1/2 watts average per square foot.

Heating, Ventilating and Air Conditioning: For normal office usage, furnish and install the complete heating, ventilating and air conditioning system to provide interior conditions of 80 degrees dry bulb at 50% relative humidity when outside conditions are 95 degrees dry bulb and 75 degrees wet bulb. The air conditioning system will provide fresh air in a quantity not less than .35 cubic feet per minute per square foot of floor area. The interior system of each floor will be controlled by two (2) separate zones. The peripheral units to be controlled by one (1) thermostatic valve for each peripheral bay, and one (1) thermostat for every two (2) peripheral column bays. It is understood that
such system has been designed allowing for a maximum of five watts of electricity (lighting and power) per square foot in any given space or room for Tenant's use. It is understood that the balancing of the air conditioning system will take place within a reasonable time after commencement of the term and that the installation of the system shall be deemed complete prior to such balancing. It is further understood that Landlord will not be responsible for the failure of the air conditioning system to meet the requirements hereinbefore specified if such failure results from the occupancy of the Premises with more than an average of one person for each 100 square feet or if Tenant installs and operates machines and appliances the total connected load of which exceeds 2 bolt-amperes per square foot of area.

Painting:

Paint all wall surfaces, doors, trim and convector covers, using not more than one color in a room, with two coats.

Blinds:

Furnish and install narrow line tapeless Venetian Blinds at each window.

Television:

A television master antenna will be installed in the Building with a riser and junction boxes serving all floors. Runouts from this riser to be the obligation of the Tenant.
**PROJECT NAME:** SOCIAL SECURITY ADMINISTRATION BUILDING
PITTSBURGH, PENNSYLVANIA

**OWNER:** General Services Administration
New York, New York

**REQUESTING AGENCY:** General Services Administration

**CONSULTANTS** | **NAME** | **ADDRESS** | **TELEPHONE**
--- | --- | --- | ---
Structural | Deeter Ritchey Sippel | Four Gateway Center
E. V. Dotter | Pittsburgh, Pa. 15222 | 391-4850
Mechanical | Deeter Ritchey Sippel | Four Gateway Center
M. L. Tepper | Pittsburgh, Pa. 15222 | 391-4850
Electrical | Hornfeck Engr. Inc. | 711 Penn Avenue
 | Pittsburgh, Pa. 15222 | 281-5644

(No Supervision by DRS)

**Contractors**

Unknown

**PROJECT NO.** 1187
**PROJECT MANAGER** F. Knoble
**PROJECT DESIGNER** J. Albert

**Date of DRS Contract** 6/19/67
**Documents Completed** 1/67 & Rev. 6/69
**Bid Date** May, 1969
**Construction Start** Unknown
**Construction Completed** Unknown
**Total Cost** $271,000.00
**Sq. Ft. Area** 11,400 SF
**Cost/SF** 23.77 SF
**Fee** $ 9,150.00 Lump Sum

6/24/69
SOCIAL SECURITY ADMINISTRATION BUILDING
PROJECT NO. 1187

DESCRIPTION: 1-story brick and block load-bearing walls, steel beam and joist roof, beams designed for future partial 2nd floor addition, interior pipe columns fireproofed.

Foundations: Reinforced concrete spread footings and column pads.
Plan, developed from standard Social Security Administration branch office layout, using 4 x 4 module. Site and building comply with Pittsburgh Urban Redevelopment Authority requirements for site development and design in a residential-commercial neighborhood.

Interior finishes: Plaster and sheetrock partitions.
Suspended acoustic tile ceilings, plaster in toilets and entrance.
v.a.t. floors.
Ceramic tile toilets.

Exterior windows: fixed and operating aluminum standard windows.
Flat, sloped roof, 4-ply built-up, aluminum copings.

Provision for future elevator.

HVAC:

Air conditioned with standard roof-top units with electric cooling and indirect gas-fired heat. Gas fired boiler for perimeter hot water baseboard radiation.

PLUMBING:

Domestic water, gas, sanitary and storm combination to street sewer.
Electric water coolers. Wall mounted fixtures. Standard residential sink cabinet in Multi-Purpose Room.

ELECTRIC:

Primary underground service to transformer located at Mechanical Room 120/208 V., 3 phase, 4-wire distribution.
Underfloor distribution ducts through main office area.
Standard 2' x 4' recessed fluorescent fixtures throughout.
**PROJECT NAME:** GULF OIL STATION  
Stadium Site  
Pittsburgh, Pa.

**OWNER:** GULF OIL CORPORATION

**REQUESTING AGENCY:**

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<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
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<td>Structural</td>
<td>E. V. Dotter</td>
<td>Four Gateway Center</td>
<td>391-4850</td>
</tr>
<tr>
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<td></td>
<td>Pittsburgh, Pa. 15222</td>
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This project held until further notice from owner.
PROGRAM

2 Service Islands - 8 Pumps
Standard 3 Bay Service Area with adjacent Rest Rooms and Mechanical Room

Small Sales Room

Parking for approximately 10 cars
Distinguishing feature - One large canopy to cover the Sales Area and both Service Islands.
PROJECT NAME: SITE SELECTION FEASIBILITY Study for the Sarah Heinz House Pittsburgh, Pa.
OWNER: H. J. Heinz Company 1062 Progress Street Pittsburgh, Pa. 15212
REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE
NONE

PROJECT NO. 1189
PROJECT MANAGER A. J. Millas
PROJECT DESIGNER

Date of DRS Contract June 1967
Documents Completed Sept. 1967
Bid Date NA
Construction Start NA
Construction Completed NA
Total Cost Estimated NA
Sq. Ft. Area Estimated 68,000 Sq. Ft
Cost/SF Estimated NA
Fee

7/1/69
A feasibility study to determine alternate designs for apartment structure to reduce construction costs.

The clients desire to avoid garages under the apartments structures indicated that low-use structures would not be feasible. Instead, it proved desirable to have separate garage structures with high use apartments building on a limited site.
PROJECT NAME: ALLEGHENY CENTER APARTMENTS

OWNER: Allegheny Center Inc.
One Allegheny Square
Pittsburgh, Pa.

REQUESTING AGENCY: Alcoa Project

CONSULTANTS NAME ADDRESS TELEPHONE

PROJECT NO. 1190.2, 2 & 3
PROJECT MANAGER W. H. Sippe1
PROJECT DESIGNER H. B. Grant

Date of DRS Contract
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost $19,305,000.00
Sq. Ft. Area 1,188,000 SF
Cost/SF 16.25
Fee
3 Buildings @ 330 Units
290 Units @ 19,500,000


PROJECT NAME: HIGHWAY DISTRICT OFFICE BUILDING
PITTSBURGH, PENNSYLVANIA

PROJECT NO: 1191
PROJECT MANAGER: J.F. Dowden
PROJECT DESIGNER: J. Stephens

Date of DRS Contract: 1/22/68
Design Doc. Started:
Design Doc. Completed: 3/15/68
Contract Doc. Started:
Contract Doc. Completed:

OWNER: Commonwealth of Pennsylvania
Dept. of Supplies
Harrisburg, Pa.

Bid Date: N/A
Construction Start: N/A
Construction Completed: N/A
Total Cost: $5,413,000.00
Sq. Ft. Area: 157,500 SF
Cost/SF: $37.37/SF
Fee: 
Garage - 700 Cars

REQUESTING AGENCY:
Commonwealth of Penna.
L.A. Domlesky
Dept. of Property & Supplies
Harrisburg, Pa.

CONSULTANTS NAME ADDRESS TELEPHONE
Structural E.V. Dotter Four Gateway Center 391-4850
Mechanical Pgh., Pa. 15222 " " "
Plumbing " " 
" " "

DESIGN STUDY ONLY - PROJECT DID NOT PROCEED BEYOND THE PRELIMINARY DESIGN PHASE.

2/14/73
Highway District Office Building
Commonwealth of Pennsylvania
Pittsburgh, Pennsylvania

In the interest of reclaiming urban space lost to an expressway, this project was conceived as an air-rights structure spanning 140 feet over I-79 right-of-way on Pittsburgh's North Side.

A computer was used to analyze various structural systems for this span which would economically accommodate the desired flexibility of interior office space, fenestration, and structural/mechanical/electrical integration.

A two-way Vierendell Truss System was selected with transverse trusses occurring on alternate floor levels 20 foot o.c. parallel to the highway with fascia trusses five floors in depth spanning the highway.

Besides the 5 story office structure, this complex also includes an entrance lobby serving the highrise, a 4 level parking garage, and a plaza.

Designed 1968
PROJECT NAME: MONONGAHELA PLAZA
Pittsburgh, Pennsylvania

OWNER: MONONGAHELA PLAZA INC.

REQUESTING AGENCY: N.A. Leaguee Company
120 Broadway New York N.Y. 10005
Foremost Morgage Company
6315 Forbes Avenue
Pittsburgh, Pa. 15217

CONSULTANTS NAME ADDRESS

PROJECT NO. 1192
PROJECT MANAGER R. O. Deeter
PROJECT DESIGNER J. M. Stephens

Date of DRS Contract Oct. 1967
Documents Completed Jan 1, 1968
Bid Date NA
Construction Start NA
Construction Completed NA
Total Cost $382,260,180.00
Sq. Ft. Area 19,421,000SF
Cost/SF $19.68 per SF
Fee
Estimate June 1, 1969

TELEPHONE

7/1/69
The site is presently occupied by the right-of-way of the Pittsburgh and Lake Erie Railroad. Existing railroad tracks will be removed; two through track will remain on a 35-foot right-of-way along the riverbank, this right-of-way constituting the air-rights development parcels. The railroad has agreed to remove all existing spur lines and relocate the main lines at their own expense.

The Mon Plaza development is scheduled to be constructed on 48 acres of that land located across the Monogahela River from the central business district of Pittsburgh. The land consists of 35 acres of fee-simple land and 13 acres of air-rights above the existing Pittsburgh and Lake Erie Railroad tracks.

General development may consist of service space on the first level and platform parking above. The plaza level contains shops and entrances to all facilities from an enclosed area. The concourse level and open plazas with fountains and landscaping will provide to the residents and visitors physical access to all major structures and visual access to the center city. High rise structures up to 22 stories containing apartments and offices will complete the project. The height limitation of approximately 22 stories is a restriction placed on the project by the developers so as not to block the spectacular view of the city from the visitors and residents on Mount Washington.

Between 5,000 and 6,000 apartment units are planned to provide a mixed range of units to fulfill the varied socio-economic needs of the citizens of the City and Region. The housing market will be directed towards individuals in single family households, young married couples and older (grown-up children) married couples.

The shopping facilities will be clustered around the horizontal two-structure. It is presently planned that the total shopping facilities will contain approximately one million square feet.

In addition to the completely renovated Pittsburgh and Lake Erie Railroad Terminal Building approximately one million square feet of office space could be provided in Mon Plaza. Present plans call for the construction of office buildings only on net-net lease basis.

A diagnostic clinic and related ancillary facilities including a professional office building are presently contemplated for the site. The Southwestern Pennsylvania Hospital Association is studying the feasibility of locating a facility of this type in Mon Plaza.

Many additional amenities are contemplated to Mon Plaza residents, tenants and visitors that will bring a new dimension to intra-city living. Unlike most developments which provide only basic accommodations, Mon Plaza proposes to provide recreational facilities to attract people back to the center city area.
The Mon Plaza project is in the unique position of potentially having seven different types of transportation serving the complex. In addition to the present railroad facilities now serving the site, rapid transit, internal pedestrian transportation, vehicle access, water transportation, inclinator and helicopter service may serve the site.

**Rapid Transit**

The Early Action Program of the Port Authority of Allegheny County details the rapid transit plans for the Pittsburgh Region and pinpoints the Carson Street Station in Mon Plaza as a major terminal.

The Port Authority Transit (PAT) system will provide three types of service to Mon Plaza: A rapid transit link from the Pittsburgh and West Virginia Railroad tunnel (Wabash), and the Penn-Central Bridge and tunnel across the Monongahela and through the Golden Triangle to the Midtown Plaza and Penn-Park stations, will provide a north-south link with a capacity of 20,000 passengers per hour. This is the line for which the the Westinghouse "Skybus" or Transit Expressway is programmed. A PATway link using the Pittsburgh Railway tunnel and the Smithfield Bridge to provide bus access from the south. The express portion of the bus network will travel on the paved-over streetcar tracks on separated rights of way. The capacity of the PATway is expandable upward from 12,000 passengers per hour, dependent on the treatment of the buses on the Smithfield Bridge and on the downtown streets. Normal bus service along Carson Street serving the South Side.

All of these modes are programmed to stop at the PAT Carson Street Station where they intersect. The 1985 projections anticipate 10,000 passengers per hour on the TERL Line and 8,000 on the South PATway. The Carson Street Station should be designed to expect 10,000 passengers to enter or leave, some headed for work in Mon Plaza, others passing through to points in the Western half of the Golden Triangle via the Monmec Bridge.

**Horizontalators**

The connection between Mon Plaza and the existing central business area will be provided by the Monmec Bridge. This is programmed to extend from the center of the Mon Plaza facility into the Gateway Center area, probably terminating at about First Avenue and Chancery Lane, immediately east of Stanwix Street. The bridge will be both a pedestrian walkway and a transit facility. The horizontalator will consist of cars, running automatically, and carrying 8,000 to 16,000 passengers per hour in either direction across the river in approximately one minute. It is anticipated that the cars will leave every 75 seconds.

The Mon Plaza project is approximately 4,400 feet long, creating a requirement for rapid horizontal movement. From the Mon Plaza terminal of the Monmec horizontalator, movement westward for about 1,600 feet, and eastward 1,800 feet (including 1,300 feet to the Carson Street Station) will be facilitated by a spine horizontalator. The most appropriate facility and design has not yet been determined, but the system can have a capacity of 12,000 passengers per hour or more, moving the distance in not over two minutes and with cars spaced less than one minute apart.

This facility will make it possible for a visitor to debark at the Carson Street Station and arrive at the Gateway Center in three to five minutes, without having exposed himself to the elements, and with shopping opportunities both in the vicinity of Carson Street Station and at the termini of the Monmec Bridge. It is anticipated that the convenience factors will cause this route to be a preferred route for access to the Western half of the Golden Triangle.
The Transportation Modes Diagram indicates a possible station location in Mon Plaza. To the East of the Carson Street Station, will be two stations servicing the Residential and Commercial Areas. The three stations to the West would be an accelerated service between the Carson Street Station and the Monmec Bridge for an improved throughput and also serving the shopping mall and residents in the portion of the project.

Station space requirements will run to about 5,000 square feet for center loading platforms, not including the guideway requirements. These platforms require access ramps, stairs, elevators or escalators for access to other facilities.

Station space for side-loading platforms depends on the amount of special space reserved. The major problem is moving from one side to the other for double-tracked systems. This is not a serious problem at the ends of shuttles. It is not a serious problem for single-tracked systems, especially if the cars can be entered from both sides.

Inclinator

Cable car facilities are provided by the Monongahela Incline linking the Carson Street Station and Mon Plaza with the residential community on Mt. Washington. Currently this facility provides access from the hilltop to the Pittsburgh and Lake Erie Railroad Station on Smithfield Street and to the Smithfield streetcar line.

Vehicular

Highway access to Mon Plaza will have an important affect on both the economics of Mon Plaza and of the Golden Triangle. The Parking Authority has been forced to place a limitation of 24,000 spaces in free standing garages on the Golden Triangle because of the capacity limitations of the bridges and highways leading into the downtown. Mon Plaza is programming between 12,000 to 20,000 cars for its parking facility. This is feasible because the traffic will not interfere with traffic leading for the Golden Triangle, and because the major crosstown connector link running east and west will pass along the south side of the Monongahela River. The traffic allocation model of the Southwestern Pennsylvania Regional Planning Commission estimates that between 19,000 and 25,000 cars per day would use the facility if developed.

Railroad

There are currently commuter trains serving Pittsburgh from the station at Mon Plaza. Upgrading of these facilities is not contemplated by the railroads at this time. A clear potential for the future, however, is contained in possible commuter service.

Helicopter

Due to high ground transportation costs, it could be economically feasible to provide a direct connection between the airport and Mon Plaza via helicopter. A heliport site directly accessible to the Monmec Bridge would be optimal.

Marine

The Mon Plaza plan will preserve the river bank and re-establish access from the South Side for recreational purposes. In addition, there is a plan to establish a water taxi service which would land at the marina and provide access to such facilities as the Stadium.
PROJECT: 1192

MONONGAHELA PLAZA

MONONGAHELA PLAZA INCORPORATED

PITTSBURGH, PENNSYLVANIA

Description:
Feasibility study for a variety of air-rights facilities including a first phase of a 400 room motel and a 400,000 SF office building. Parking requirements call for 2,300 cars in Phase One. Phase One also includes warehousing at grade.
The entire project includes an exhibition hall, convention hall, railroad station, officers motel, apartments, commercial, and warehousing amounting to approximately 7,900,000 SF on a site of 1,230,000 SF.

Location:
Pittsburgh southside, vicinity of P&LE Railroad Station between Smithfield Street bridge and Fort Pitt bridge, from Carson Street on south boundary to Monongahela riverfront.
**PROJECT NAME:** MONONGAHELA PLAZA OFFICE BLDG.

**OWNER:** AMERICAN ORTHODOX CATHOLIC CHURCH AND P & LE RAILWAY

**REQUESTING AGENCY:**

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**PROJECT NO.:** 1192.1
**PROJECT MANAGER:** R. O. Deeter
**PROJECT DESIGNER:** J. Stephens

Date of DRS Contract: 10/67
Documents Completed: 1/10/68
Bid Date: 
Construction Start: 
Construction Completed: 
Total Cost: $9,500,000
Sq. Ft. Area: 400,000 SF
Cost/SF: 23.75
Fee: 


A development on West Carson Street consisting of approximately 800 apartment units. The First Phase includes 400 apartment units, (45% efficiencies, 45% one bedroom, and 10% two bedrooms) a commercial area of 45,345,000 SF, parking garage (1,000 cars), swimming pool and plaza.
A development on West Carson Street consisting of approximately 800 apartment units. The First Phase includes 400 apartment units, (45% efficiencies, 45% one bedroom, and 10% two bedrooms) a commercial area of 45,345,000 SF, parking garage (1,000 cars), swimming pool and plaza.
PROJECT NO. 1193.2
PROJECT MANAGER P. Knoble
PROJECT DESIGNER P. Hotz

Date of DRS Contract 2/17/69
Documents Completed
Bid Date
Construction Start
Construction Completed
Total Cost $2,600,000
Sq. Ft. Area 250,000
Cost/SF $10.40
Fee Hourly
Estimated Date 6/23/69

REQUESTING AGENCY:

CONSULTANTS NAME ADDRESS TELEPHONE
Structural Engineer R. M. Gensert Assoc. 718 The Arcade
Cleveland, Ohio 44114 216/241-7078

HVAC Engineer By Owner 2049 Broadway
Boulder, Colo. 303/44-3844

Plumbing DRS, Inc

Landscape Architect D. Palumbo 443 Boulevard of the Allies

1/10/69
**PROJECT NAME:** MAYVIEW STATE HOSPITAL
REPOINTING AND REPAINTING
OF EXISTING BUILDINGS
ALLEGHENY COUNTY, PENNA.

**OWNER:**
Commonwealth of Penna.
Dept. of Property & Supplies
Harrisburg, Penna.

**REQUESTING AGENCY:**
Commonwealth of Penna.
Dept. of Property & Supplies
Harrisburg, Penna.

**CONSULTANTS**

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<td>Graciano Co.</td>
<td>7925 Hill Ave.</td>
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<td>Rehabilitation</td>
<td>A.J. Water &amp; Co.</td>
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**PROJECT NO:**
1195

**PROJECT MANAGER:**
S.E. Zionts

**PROJECT DESIGNER:**

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2/21/73
PROJECT NO. 1195
MAYVIEW STATE HOSPITAL
COMMONWEALTH OF PENNSYLVANIA
ALLEGHENY COUNTY, PENNSYLVANIA

DESCRIPTION: Renovation of exterior masonry walls at all elevations of the North II Building, South II Building and the Medical Center. Patching of plaster, wood, metal, acoustic tile, concrete, masonry and certain other surfaces in the T.B. Building, Medical Center, North II Building, South II Building and Warehouse Building.

Demolition of exterior of buildings included removal of concrete coping, damaged and loose brick facing, and corroded steel beams and lintels. Corrective repairs included installation of a reinforced concrete beam, installation of new brick facing at certain areas, repointing of existing mortar joints, installation of new aluminum coping, installation of new protective angle guards, installation of new calking at joints, and certain miscellaneous other items.

Corrective work included replacement of loose and defective plaster, refinishing of rough plaster and patching of cracks. Painting was accomplished in accordance with schedule of areas on the drawings and included color coding of certain piping. Semi-gloss enamel was used throughout.
Three sketches of proposed rapid transit stations in the Greater Pittsburgh Area
PROJECT NAME: NORTH SHORE SITE
PITTSBURGH EXPOSITION HALL

OWNER: City of Pittsburgh

REQUESTING AGENCY: Alcoa via API
(Jack McKee)

Feasibility Study for Alcoa

To sell City on building on this site. Mr. Fritz Close to give presentation.

6/24/69
PROJECT NAME: BETTERDAYS SHOPPING COMPLEX

OWNER: Mr. William Lamb

REQUESTING AGENCY: Redevelopment Authority of the City of Titusville, Pa.

CONSULTANTS

NAME

ADDRESS

TELEPHONE

NONE

PROJECT NO. 1198
PROJECT MANAGER A. J. Millas
PROJECT DESIGNER N. Cheung

Date of DRS Contract
Documents Completed August, 1968
Bid Date NA
Construction Start NA
Construction Completed NA
Total Cost, Estimated
Sq. Ft. Area Estimated
Cost/SF Estimated
Fee

6/30/69
PROJECT NAME: SCHOOL OF NURSING & ALLIED HEALTH PROFESSIONS  
University of Pittsburgh  
Air Rights over Lothrop Street Garage  

OWNER: General State Authority  
Commonwealth of Pennsylvania  
18th & Herr Streets  
Harrisburg, Pa.  

REQUESTING AGENCY: University of Pittsburgh  
Physical Plant  

CONSULTANTS

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<td>Electrical</td>
<td>Carl J. Long Assoc.</td>
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ADDRESS

| Structural | 100 Ross Street  
Pittsburgh, Pa. 15219 |
|------------|----------------------|
| Mechanical | 4 House Building  
Pittsburgh, Pa. 15222 |
| Electrical | 100 Fifth Ave, Building  
Pittsburgh, Pa. 15222 |

TELEPHONE

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ESTIMATE (as of: )  
BID (as of: )  
FINAL (as of: )  

3/7/73  For Additional Information on Garage see 1131.1
PROJECT NAME: BRADFORD WOODS ELEMENTARY SCHOOL 1972 ADDITIONS

PROJECT NO: 1201
PROJECT MANAGER: E.R. Gallagher
PROJECT DESIGNER: Stephens/H.B. Grant

DATE OF DRS CONTRACT: March 1970
DESIGN DOC. STARTED: 
DESIGN DOC. COMPLETED: 
CONTRACT DOC. STARTED: 
CONTRACT DOC. COMPLETED: April 26, 1971
BID DATE: May 18, 1971
CONSTRUCTION START: June 1971
CONSTRUCTION COMPLETED: August 15, 1972
TOTAL COST: (BLDG ONLY) $500,152.00
SQ. FT. AREA: 17,605SF
COST/SF: (BLDG ONLY) $28.40/SF
FEE: %
SEWAGE TREATMENT & SITE $125,870.00

OWNER: NORTH ALLEGHENY SCHOOL DISTRICT
350 CUMBERLAND ROAD
PITTSBURGH, PA. 15237
REQUESTING AGENCY: OWNER

CONSULTANTS
NAME
ADDRESS
TELEPHONE
STRUCTURAL: DRS Inc.
Four Gateway Center
Pgh. Pa. 15222
391-4850
MECHANICAL: DRS Inc.
Four Gateway Center
Pgh. Pa. 15222
391-4850
PLUMBING: DRS Inc.
Four Gateway Center
Pgh. Pa. 15222
391-4850
ELECTRICAL: DRS Inc.
Four Gateway Center
Pgh. Pa. 15222
391-4850
SITE & LANDSCAPE: Robert Fenton
6010 Penn Circle South
Pgh. Pa. 15206
441-4600

CONTRACTORS
GENERAL: Uhl Construction Co.
P.O. Box 8 Allison Park Pa. 15101
961-0490
MECHANICAL: Carl J. Bonidie Inc.
92 Loretta St.
Bethal Park, Pa. 15102
835-2727
PLUMBING: Sauer Inc.
30 51st Street Pgh.Pa. 15212
687-4100
ELECTRICAL: Hanlon Electric Co.
414 Rodi Road
Pgh. Pa. 15235

COST DATA
ESTIMATE (as of: 8/69) $629,500.00
BID (as of: 7/71) $652,526.00
FINAL (as of: 8/72) $626,022.00

2/27/73
**PROJECT NAME:** CENTRAL DATA CENTER UNIVERSITY HEALTH CENTER OF PITTSBURGH

**PROJECT NO:** 1202

**PROJECT MANAGER:** W.B. SLOAN

**PROJECT DESIGNER:**

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**OWNER:** CENTRAL DATA CENTER OF THE UNIVERSITY HEALTH CENTER OF PITTSBURGH c/o Magee Womans Hospital

**REQUESTING AGENCY:** OWNER

**CONSULTANTS**

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<td>ELECTRICAL: PETER F. LOFTUS CORP.</td>
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**TOTAL 1/70**
Feasibility study for addition office space on present site. Additional contract signed March 28, 1969 to proceed with working drawings.
**PROJECT NAME:** WIIC TV Channel 11  
Additional Office Space  
Pittsburgh, Pa.

**PROJECT NO:** 1203  
**PROJECT MANAGER:** R. E. Adasiak  
**PROJECT DESIGNER:** J. M. Stephens  
P. Hundley  
**Date of DRS Contract:** March 28, 1969  
**Design Doc. Started:**  
**Design Doc. Completed:**  
**Contract Doc. Started:**  
**Contract Doc. Completed:**  
**Bid Date:**  
**Construction Start:**  
**Construction Completed:**  
**Total Cost:** $416,000.00  
**Sq. Ft. Area:** 10,000  
**Cost/SF:** $41.60  
**Fee:** 7-1/2%

**OWNER:** WIIC, Inc.  
**REQUESTING AGENCY:** WIIC, Inc.

<table>
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<tr>
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| Structural  | DRS, Inc. | Four Gateway Center  
Pittsburgh, Pa. 15222 | 391-4859 |
| Mechanical  | DRS, Inc. | Four Gateway Center  
Pittsburgh, Pa. 15222 | 391-4859 |
| Electrical  | Hornfeck Engineering Co. | 711 Penn Avenue Building  
Pittsburgh, Pa. 15222 | 281-5644 |
| Is A. C. Ackenheil | 1000 Banksville Road  
Pittsburgh, Pa. | 531-7111 |

**COST DATA**  
**ESTIMATE (as of: 8/69)** $649,100.00  
**BID (as of:10/69)** $642,900.00  
**FINAL (as of: 5/71)** $663,608.00

3/7/73
**PROJECT NAME:** RENOVATION OF BUILDING NO. 7  
LOCKHART IRON & STEEL CO., INC.  
McKEES ROCKS, PA.  

**PROJECT NO:** 1204  
**PROJECT MANAGER:** F. Knoble  
**PROJECT DESIGNER:** T. Stanton  

**Date of DRS Contract:** 11/20/68  
**Design Doc. Started:**  
**Design Doc. Completed:**  
**Contract Doc. Started:**  
**Contract Doc. Completed:** 3/10/69  

**OWNER:** LOCKHART IRON & STEEL CO., INC.  
McKEES ROCKS, PA.  

**Bid Date:** 4/10/69  
**Construction Start:** 7/10/69  
**Construction Completed:** 10/1/69  
**Total Cost:** $49,290 (as of 10/8/69)  
**Sq. Ft. Area:** 50,186 SF  
**Cost/SF:** .98  
**Fee:** Hourly  

**REQUESTING AGENCY:**  
Mr. David M. Stembel, Vice President (Since retired)  

<table>
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<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Elwin G. Smith Co., Inc. 100 Walls St., Pgh., Pa.</td>
<td>761-7474</td>
</tr>
</tbody>
</table>

**Note:** This job was under contract from DRS, Inc.  

**CONTRACTORS**

2/21/73
DESCRIPTION: The project was Lockhart Iron & Steel Co.'s Bldg. #7, a warehouse. It was required that the building be made suitable for the storage of cold finished steel. This consisted of insulating and weatherproofing the roof of the building and the removal of two roof dormers which were no longer used and were in a state of great disrepair.

STRUCTURAL: A structural check was made of the roof system, the trusses and the columns according to present day codes. Trusses in a part of the building were found to be overstressed, therefore, the top chords of these trusses were strengthened. Existing wood purlins in a portion of the building were replaced with steel purlins.

ARCHITECTURAL: The two roof dormers were removed and the resulting openings were roofed over to conform with the surrounding corrugated metal roof. The insulation and weatherproofing was accomplished by the patching and repairing of the existing corrugated metal roofing and the application of Urethane Spray-on Foam to the top side of the existing roof surface and the application of spray aluminum paint to the surface of the foam.
PROJECT NAME: POST OFFICE FACILITY
PITTSBURGH, PA.

PROJECT NO: 1205
PROJECT MANAGER: S.E. ZIONTS
PROJECT DESIGNER:

Date of DRS Contract: APRIL 1968
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:
Sq. Ft. Area:
Cost/SF:
Fee:

CONSULTANTS  NAME

ADDRESS

TELEPHONE
PROJECT NAME: MONSOUR HOSPITAL & CLINIC, INC.

PROJECT NO: 1207
PROJECT MANAGER: T.V. Thorsen
PROJECT DESIGNER: NA

Date of DRS Contract: 1/21/69
Design Doc. Started: NA
Design Doc. Completed: NA
Contract Doc. Started: NA
Contract Doc. Completed: NA
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost: NA
Sq. Ft. Area: NA
Cost/SF: NA
Fee: HOURLY

OWNER: Monsour Hospital & Clinic
60 East Lincoln Way
Jeanette, Pa.

REQUESTING AGENCY:

CONSULTANTS NAME

ADDRESS

TELEPHONE

DRS CONSULTING SERVICES ONLY.

2/14/73
PROJECT NAME: UNITED STATES STEEL CORP.
HIGH RISE HOUSING RESEARCH
STUDY - HUD TYPE B
PROPOSAL

PROJECT NO: 1208.1
PROJECT MANAGER:
PROJECT DESIGNER:

Date of DRS Contract:
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:
Sq. Ft. Area:
Cost/SF:
Fee:

OWNER:

REQUESTING AGENCY: United States Steel Corp.
(Ritchey)

CONSULTANTS NAME ADDRESS TELEPHONE

COST DATA

ESTIMATE (as of: ) BID (as of: ) FINAL (as of: )

GENERAL PLUMBING
HVAC ELECTRICAL

TOTAL

3/7/73
**Industrialized Housing Systems**  
**Operation Breakthrough Proposal**  
**High-Rise Research Studies**  
**United States Steel Corporation**

**Operation Breakthrough**

Deeter Ritchey Sippel Associates worked closely with the United States Steel Corporation in the preparation of the USS Contract Proposals for the Department of Housing and Urban Development's Operation Breakthrough. Deeter Ritchey Sippel Associates prepared architectural design documents and the graphic illustrations that formed a part of the total proposal.

**Phase One Report**

This report was a compilation and presentation of several selected designs of industrialized technology applicable to high rise residential construction. The material constituted a first phase of a three phase program designed to develop the necessary documents for a cost-reductive high rise residential housing demonstration project to be implemented by the United States Steel Corporation.

Deeter Ritchey Sippel Associates examined many known and experimental high rise structural systems to determine their potential combination with modules to produce a single structural entity. These systems were reviewed and evaluated as their potential merit and were reduced to the following four systems.

**SKIP-TRUSS DESIGN** - an independent frame of columns and trusses on alternate levels and a full-length self-supporting module.

**CRADLE DESIGN** - an independent beam and column frame and a half-length self-supporting module.

**INTEGRAL HORIZONTAL DESIGN** - a full-length or half-length module capable of supporting itself and the total load from other modules.

**INTEGRAL CUBE DESIGN** - a twelve foot by twelve foot (12' x 12') module capable of being combined in three dimensions to form a self-supporting bridge.

**Phase Two Report**

This report is the second phase of a three phase program designed to develop the necessary documents for a cost-reductive high rise residential housing demonstration project to be implemented by the United States Steel Corporation.

In this phase, Deeter Ritchey Sippel Associates examined various site planning techniques and density mix of high rise and low rise modular units on a limited site. Preliminary schematic design documents were prepared during this phase.
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**PROJECT NAME:** PITTSBURGH NORTH, INC. - GAUS APARTMENTS ROSS TOWNSHIP

**PROJECT NO:** 1209
**PROJECT MANAGER:** C. L. Christen
**PROJECT DESIGNER:** L. H. Minnerly

**Date of DRS Contract:**
**Design Doc. Started:**
**Design Doc. Completed:**
**Contract Doc. Started:**
**Contract Doc. Completed:**
**Bid Date:**
**Construction Start:**
**Construction Completed:**
**Total Cost:**
**Sq. Ft. Area:**
**Cost/SP:**
**Fee:**
Master Plan Study - See Attached Descriptive Material

### Estimated First Phase Project Cost

**Eight Floors (Two Nursing Units)**

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<tr>
<th>Item</th>
<th>Low Estimate</th>
<th>High Estimate</th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
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<td>Architects and Engineers Fees</td>
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<td>Contingencies &amp; Miscellaneous</td>
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<td><strong>Total Project Cost</strong></td>
<td><strong>9,500,000</strong></td>
<td><strong>11,125,000</strong></td>
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**Seven Floors (One Nursing Unit)**

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<td>Contingencies &amp; Miscellaneous</td>
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<td>790,000</td>
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<td><strong>Total Project Cost</strong></td>
<td><strong>8,250,000</strong></td>
<td><strong>9,875,000</strong></td>
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**Remodeling of Existing Buildings**

- **First Floor Crawford** (Renovate to clinical laboratories) $500,000
- **Ground Floor Crawford** $365,000
- **Basement Crawford** $175,000
- **Seventh Floor Shaw** (Central sterile supply to operating room) $250,000
- **2 Additional Elevators** $350,000

**Total Remodeling Costs** $1,640,000

12/29/72
In this study, a long range plan was developed to provide a complete spectrum of health care service recognizing the responsibility of the Hospital to both its primary service area and its referral area as a regional hospital.

The first phase of the plan expected to be completed in 1974 reorganizes the traffic patterns on the site and relieves some of high priority space deficiencies. Most of the space in the first phase is assigned to ambulatory care facilities and diagnostic and treatment.

**FIRST PHASE AREA ANALYSIS**

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<tr>
<th>FLOOR</th>
<th>USAGE</th>
<th>GROSS AREA SF</th>
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<tbody>
<tr>
<td>3</td>
<td>Nursing Unit</td>
<td>14,100</td>
</tr>
<tr>
<td>2</td>
<td>Rehab. Nursing Unit</td>
<td>14,100</td>
</tr>
<tr>
<td>1</td>
<td>Rehabilitation</td>
<td>11,400</td>
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<tr>
<td>G</td>
<td>Mech. Equip., Supply Services</td>
<td>20,300</td>
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<tr>
<td>B</td>
<td>Radiology</td>
<td>19,000</td>
</tr>
<tr>
<td>01</td>
<td>Ambulatory Care +</td>
<td>8,700</td>
</tr>
<tr>
<td>02</td>
<td>New Entrance, Admitting, Snack Bar</td>
<td>8,700</td>
</tr>
<tr>
<td>03</td>
<td>Ambulatory Care</td>
<td>8,700</td>
</tr>
<tr>
<td></td>
<td>Total First Phase Only</td>
<td>105,000</td>
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An estimate based upon a range of square foot costs, projected to the spring of 1972, has been used as a basis for the costs shown for an eight story First Phase with two floors of inpatient nursing facilities. This estimate, including a package boiler, will fall between $9,500,000 and $11,125,000. In addition, a cost estimate shows construction and project costs for a seven story First Phase, eliminating one nursing floor.

**INTERNAL REMODELING**

Recommendations for remodeling of existing buildings upon completion of First Phase construction, the costs of which are NOT included in the First Phase Budget:

Move snack bar, radiology, and outpatient department into new building. Expand clinical laboratories into vacated space on the First Floor of the Crawford Building.

Move Central Sterile Supply to ground floor of new building; use vacated space for the expansion of the surgery on the seventh floor of Crawford.

Provide additional employee locker space in area vacated by Physical Therapy in basement of Crawford.

Move inpatient admitting to new main entrance on 02 Level.

Add two service elevators at the intersection of Shaw and Crawford. The existing elevators should be reserved for visitors, staff, and employees. Control visitor traffic at lower floors.
As the School of Nursing is phased out, the upper floors will become available for a minimal care unit, a child development center, continuing education, and administration and housing for students and staff.

The long range plan has the capability of permitting the hospital to develop into a 1000 bed regional hospital in 8 phases over the next 25 years on the existing site with the addition of off-site parking structures and housing for students and staff.

PHASING RECOMMENDATIONS

Although the long range plan has been developed in a manner which permits phasing options to be exercised, the following sequence of construction presently is suggested:

1. Construction of First Phase and remodeling of existing buildings.
2. First Phase parking garage across Evans; this may be built immediately, but must be constructed before a second major hospital project.
3. Mechanical plant; if this is built before a second hospital structure long term economies will result.
4. Evans Street ambulatory care facility.
5. First Floor and expansion in courtyard between Shaw, Crawford, and the First Phase.
6. Nursing units above First Phase.
7. Fifth Avenue main ambulatory patient entrance, emergency and ambulatory care unit, and Fifth-Lysle parking garage.
8. Nursing tower with long term beds or extended care at South Side Court, and Second Phase parking across Evans.
<table>
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<tr>
<th>CONSULTANTS</th>
<th>NAME</th>
<th>ADDRESS</th>
<th>TELEPHONE</th>
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<table>
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<th>COST DATA</th>
<th>ESTIMATE (as of: )</th>
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<th>FINAL (as of: )</th>
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<tr>
<td>ELECTRICAL</td>
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TOTAL
3/7/73
PROJECT NAME: NORTHGATE HOUSING DEVELOPMENT
BRIGHTON-HEART, INC.

PROJECT NO: 1220
PROJECT MANAGER: W. H. Sippel
PROJECT DESIGNER: H. B. Grant

Date of DRS Contract: August 20, 1971
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:
Sq. Ft. Area:
Cost/SF:
Fee:

CONSULTANTS NAME ADDRESS TELEPHONE

3/7/73
**Project Name:**

**Project No:** 1224

**Project Manager:** CLC/E. R. Gallagher

**Owner:** Allstate Insurance Co.

**Requesting Agency:**

**Consultants** | **Name** | **Address** | **Telephone**
--- | --- | --- | ---

**Date of DRS Contract:** March 10, 1970

**Design Doc. Started:**

**Design Doc. Completed:**

**Contract Doc. Started:**

**Contract Doc. Completed:**

**Bid Date:**

**Construction Start:**

**Construction Completed:**

**Total Cost:**

**Sq. Ft. Area:**

**Cost/SF:**

**Fee:**

**Cost Data**

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3/7/73
PROJECT NAME: ALCOA, MERWIN APARTMENTS
PROTOTYPE
Merwin, Pa.

PROJECT NO: 1225.1
PROJECT MANAGER: E. R. Gallagher
PROJECT DESIGNER:

Date of DRS Contract:
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:

Sq. Ft. Area:
Cost/SF:
Fee:

CONSULTANTS  NAME  ADDRESS  TELEPHONE

3/7/73
**PROJECT NAME:** HARMARVILLE REHABILITATION CENTER

**OWNER:** THE FEDERATION OF GIRLS SCHOOL SOCIETIES PITTSBURGH, PENNSYLVANIA

**REQUESTING AGENCY:** HARMARVILLE REHABILITATION CENTER INC. Lee Lacey, Executive Director

**PROJECT NO:** 1226
**PROJECT MANAGER:** S.E. Zlonts
**PROJECT DESIGNER:** L.H. Minnerly
**Date of DRS Contract:** April 21, 1972
**Design Doc. Started:**
**Design Doc. Completed:**
**Contract Doc. Started:**
**Contract Doc. Completed:** February 22, 1973
**Bid Date:**
**Construction Start:**
**Construction Completed:** June 28, 1975
**Sq. Ft. Area:** 175,000 SF
**Cost/SF:** $43.58
**Total Cost:**
**Fee:** A/E Fee: $365,000

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<th>TELEPHONE</th>
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<td>STRUCTURAL:</td>
<td>Robert A. Zern</td>
<td>25 N. Gateway Towers</td>
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<td></td>
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<td>Pgh. Pa. 15222</td>
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<td>SITE</td>
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<td>441 Smithfield Street</td>
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**COST DATA**

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**TOTAL**

$6,396,137
$7,517,471.00
$7,626,458.85
PROJECT DATA

PROJECT: Harmarville Rehabilitation Center

OWNER: Federation of Girls School Societies
Pittsburgh, Penna.

PROJECT SCOPE

DATE OF CONTRACT: April 21, 1972
A/E FEE: $365,000
BUILDING TYPE: Hosp. AREA 5' 175,000
DESCRIPTION: A 120 bed Rehabilitation Center located in Indiana Township, near Pgh. The site is a wooded acre

SCHEDULE

Estimate Start Estimate Completion Actual Start Actual Completion

CONTRACTORS

GENERAL: LLI Construction Co. P.O. Box 8 Allentown, PA 18101
HVAC: James C. Easley, Inc. 610 S. Hamilton, Pgh. PA 15214
PLUMBING: Rittitrogh Mechanical Systems Inc. 1105 Washington Blvd. Pgh. PA 15212
ELECTRICAL: Howard P. Foley Co. 328 Pennsylvania H. Pgh. PA 15210

CONSULTANTS

Structural: Robert A. Ziegler, Inc. Gateway Towers, Pgh. 15201
HVAC: Peter F. Gardiner Chamber of Commerce Bldg. Pgh. 15219
PLUMBING: 
ELECTRICAL: Carl I. Lohr's Ass'ly 101 Fifth Ave Pgh. 15222

SITE IMPROVEMENTS: D. Palumbo Assn. Boulevard of Allens

COST DATA

Estimate Bid Change Order Final

GENERAL: Total Estimate $4,390,634.36 $1,349,000.00
as furnished by

HVAC: 759,471.00 759,471.00
PLUMBING: 1,188,471.00 1,188,471.00
ELECTRICAL: 1,060,000.00 1,060,000.00

TOTAL COST S/F: $7,636,458.85

Feasibility: Master Plan: Program:
Schematic: Design Dev.: Const. Document:
Bid:
Construction:

June 28, 1975
It was determined early in the planning stages that the facility could not be expanded on the present site without losing those inherent characteristics which contributed to the comfort, enjoyment and ultimate rehabilitation of the patient. It was felt by the team that the environment provided by tree shaded lawns, wooded paths and sunlit terraces were vital to the rehabilitation process.

Site selection studies were accomplished in close association with the architect evaluating a number of alternate sites. The property finally chosen is 68 acres of typical Western Pennsylvania heavily wooded hills and ravines. The long low building will fit into a long promontory overlooking the Allegheny River Valley.

The new two story building is planned for 200 beds with a first phase containing 120 beds. The center expects to treat 1,200 inpatients and 2,400 outpatients annually in this new facility, which is anticipated to be completed early in 1974.

Early in the formation of an architectural program, the Client and the Architect agreed that patients should be kept off elevators if at all possible. Since the main traffic pattern develops between the patient's room, the dining area, and the therapy areas, all patient oriented activities are on the main floor; support services are on a mezzanine level. The exception to this rule is the patient who is being trained to return to industry. The final phase of his training includes the use of elevators, stairs, and outside travel to an industrial type building.

While the building is well over 600 feet long the various departments are so located that the patients do not travel the entire length until they are able to do so. Patients live in 40 bed units located at intervals along a "main street". The living units are designed so that the patients can get to know one another during the approximate 30 days they'll be at the center.

The busy activities of the center take place along the street - admissions, medical records, dining area, craft areas, receptionists for the various departments. It is along the street also that the snack bar, gift shop, laundromat, and the barber and beauty shops are to be located. And it is here that the center plans its evening activities movies, discussion groups, lectures, special displays and so forth. It is on the main street then that the patients, staff and visitors will mix.

These facilities, as well as quiet terraces and gardens are within easy reach of the patient whose world has been made smaller by his diminished ability to maneuver in it.
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<th>SCIENCE BUILDING</th>
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<tbody>
<tr>
<td>J. C. Armstrong</td>
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<tbody>
<tr>
<td>H. B. Grant</td>
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3/7/73
PROJECT NAME: GANANDA
HUD TITLE VII
PRE-APPLICATION FOR
FUNDING GUARANTEE

OWNER: New Wayne Communities, Inc.
Wayne County, N.Y.

REQUESTING AGENCY: New Wayne Communities, Inc.

CONSULTANTS

Legal Counsel
Johnson, Reif & Mullan
47 South Fitzhugh St.
Rochester, N.Y.

Accountants
Peat, Marwick, Mitchell & Co.
400 Midtown Tower
Rochester, N.Y.

Land Planners
DRSA
Four Gateway Center
Pgh., Pa.

Engineer
DRSI
Four Gateway Center
Pgh., Pa.

Development & Construction
Martin & Nettour
1030 Union Trust Bldg.
Pgh., Pa.

Communications & Public Relations
William J. Young
Young Ideas, Inc.
Lima, New York

PROJECT NO: 1234
PROJECT MANAGER: F. Knoble
PROJECT PLANNER: J. E. R. Roeder

Date of DRS Contract: Feb., 1971
Contract Doc. Started: NA
Contract Doc. Completed: NA
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost: (Estimated) $500 M.+
Area: 9650 Acres

2/20/73
This New Town is presently planned to be a balanced and diversified community creating for its residents the opportunity for individual freedom and growth, a choice of life style and the enjoyment of a quality urban environment.

The residential community will provide a full range of housing for 2500 to 4500 families in all income groups, family sizes, types of housing and ownership or occupancy arrangements. It has been determined that, in a project of this scope, it is desirable to have single family, multiplex units, low rise and high rise apartments, modular and trailer type units. The housing types will be aesthetically intermingled, providing a balanced availability of privacy, shared and community facilities, recreational spaces, pedestrian access and open spaces.

This new satellite community will provide a full range of housing, shopping and community facilities, in addition to the educational, recreational and open spaces within or related to the community area.

On May 1, 1972, Secretary George Romney of the Department of Housing and Urban Development announced approval of $22 million Federal pledge of guaranteed assistance for Gananda.

Deeter Ritchey Sippel Associates prepared the HUD Title VII Pre-application and schematic design documents for the family and community centers. The proposed twelve family centers will provide child-development activities for pre-schoolers and elementary students in addition to Local facilities. The community centers will offer residents legal advice, consumer protection information, senior citizen activities, rental service and community meeting rooms. In addition, Gananda's community centers will house educational, cultural, health, government and religious facilities in addition to the regional shopping center.
PROJECT NAME: UNIVERSITY OF PITTSBURGH STUDENT APARTMENTS

PROJECT NO: 1235
PROJECT MANAGER: S. E. Zionts
PROJECT DESIGNER: P. S. Hundley

Date of DRS Contract: March 29, 1971
Design Doc. Started: NA
Design Doc. Completed: NA
Contract Doc. Started: NA
Contract Doc. Completed: NA
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost: NA
Sq. Ft. Area: NA
Cost/SF: NA
Fee: NA

OWNER: University of Pittsburgh
REQUESTING AGENCY: University of Pittsburgh
Physical Plant Dept.

CONSULTANTS NAME ADDRESS TELEPHONE

17/73
PROJECT NAME: BAYWOOD VILLAGE

OWNER: First Financial Service Corp. Erie, Pa.
REQUESTING AGENCY: First Federal Savings & Loan of Erie

CONSULTANTS NAME ADDRESS TELEPHONE
Site Mackin Eng. 
Traffic Alan M. Voorhees & Assoc. Buffalo, New York

PROJECT NO: #1236
PROJECT MANAGER: F. Knoble
PROJECT DESIGNER: J. Kozak
PROJECT PLANNER: J.E.R. Roeder
Date of DRS Contract: Mar., 1971
Design Doc. Completed: July, 1971*
Contract Doc. Started: NA
Contract Doc. Completed: NA
Bid Date: NA
Construction Start: NA
Construction Completed: NA
Total Cost (Estimated) $69 M.
Sq. Ft. Area: 100 A.
Cost 1900 Units @ $24,000/Unit +
Commercial.

* Project stopped due to refusal of zoning application. Case taken to court.

2/20/73
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3/7/73
PROJECT NAME: SOCIAL SECURITY ADMINISTRATION
PAYMENT CENTER
PHILADELPHIA, PENNSYLVANIA

OWNER: Social Security Administration
REQUESTING AGENCY: General Services Administration

CONSULTANTS
Mechanical & Electrical
Robert E. Werden
Assocs.
Jenkintown, Pa.

Structural
Swindell-Dressler
Pgh., Pa.

Landscape
George E. Patton,
Assocs.

NOTE:
The following consultants used by DRSA, but retained by Daly/Swinburne Joint Venture (Exec. A/E):

Food Service
Flambert & Flambert
San Francisco, Cal.

Acoustics
Geiger & Hamme
Ann Arbor, Mich.

Soils
Woodward-McMasters
Omaha, Neb.

Fire Protection
Rolf Jensen Assocs.
Northfield, Ill.

2/20/73
THE MID- ATLANTIC PROGRAM CENTER
PHILADELPHIA, PENNSYLVANIA

SOCIAL SECURITY ADMINISTRATION
GSA / PBS

BUILDING DESCRIPTION

The Social Security Administration Mid-Atlantic Program Center meets and exceeds the requirements of the Social Security Administration as expressed in the HEW Statement of Requirements. . . that this building must provide a facility in which . . . people, equipment and facility must operate together to produce an effective and punctual claim system in order that the citizen may be efficiently served.

It has been the intent of the General Services Administration and all of its consultants, both government and private, to exceed the basic requirements for functional office space, and to provide the best that the state-of-the-art is capable of in an office building environment that is both exceptionally adaptable to the functional needs of SSA and a gratifying work space.

Site

Located in the Callowhill Redevelopment area, the Center faces Spring Garden Avenue on a site occupying the block between Third and Fourth Streets and Willow Street. Most of the old buildings in this area have been demolished and the area is undergoing rehabilitation with new buildings. It is anticipated that the Social Security Administration Center will stimulate further development of this area.

Public transportation is convenient, with perimeter bus service, subway stations within walking distance, and connections to the Expressway a short distance down Spring Garden. The building site itself provides protected outdoor parking for 323 cars immediately adjacent to the building, with an indoor parking capacity of 25 cars.

The building is entered from Spring Garden across spacious entrance plazas with trees and planting. Ramps, heated to melt snow, are provided for those who can't or don't want to negotiate steps. Sculpture is planned for the Plaza area under a fine arts program. Wall murals extending the length of the main lobby may be viewed from the Plaza through the glass lobby walls.
Entrances from the rear parking area open from a smaller plaza with passenger car-stop space. Parking for the non-ambulant and snow-melting walkways are provided for convenience. The parking area is paved, enclosed with a wall at the perimeter streets, and planted with trees.

The parking area, entrance plazas and steps are well lighted. Concealed lighting displays the foliage of trees and evergreens.

**Building - Office Areas**

The office spaces - from Second through Seventh Floors - are 210 ft. by 240 ft. on each floor, stretching between elevator corridors on opposite ends. These office areas are the safest, most comfortable and convenient, and with the best environment that the art of building can provide today. Work areas are divided by low partitions, called "landscape" partitioning, and floor to ceiling partitioning in a few offices. All offices are carpeted, the carpet providing color and aiding in dampening sound. The entire floor is uniformly brightly lighted and fully air-conditioned. The acoustic ceiling together with spacial acoustical treatment of partitioning and the sound system, which extends through all building spaces, provides a very high level of privacy.

Floor, wall, ceiling and partition materials are of excellent quality. Each floor will have its own color scheme, lending uniqueness and a warm quality.

All offices, together with all other fire-hazard spaces in the building, are sprinklered. The 100% sprinkler system, together with the most modern alarm and fire-control system designed for a high-rise building, comprise the most advanced fire safety design. With this system the dangers of smoke and heat are swiftly brought under control before the hazard level is reached. The ample fire exits provided may not be required, since a fire on one floor may be extinguished before personnel on other floors are aware of its occurrence.

An electronic and television system provides monitoring and control of all entrances, exits and secure areas of the building.

Office areas are serviced by an underfloor electrical and telephone wiring raceway. The offices, together with all building work areas, are air-conditioned.

**Building - Special Features**

Auditorium: The Auditorium seats 667 people and has motor operated walls that divide the auditorium into three approximately equal spaces. Each of the three auditorium spaces can be used independently of the others as large meeting room spaces.

The full auditorium has a 45 foot stage, projection booth and screen, a high quality sound amplification system, closed circuit television and variable control lighting level. The sub-divided spaces contain all of these features, except that only the center divided section has stage and fixed projection equipment. The side spaces have portable projection equipment. Auditorium finishes include sound absorbptive ceiling, wood panelled walls, hardwood stage floor and carpeted main floor.
Cafeteria: Directly across the Main Lobby from the Auditorium, the dining room is designed so that it can be used in conjunction with auditorium activities, in that it will seat 430 people for closed circuit television viewing simultaneously with the auditorium, and the auditorium audience can readily be served by the cafeteria.

For breakfast and lunch, the cafeteria offers the finest available in food service. Food is served in a "shopping area" in which the patron may go directly to the serving counter he chooses- soup-and-sandwich or full-course meal.

The dining room is spacious and bright with its own decor, unique from the rest of the building and a pleasant communal gathering place. Floors are carpeted with bright mosaic carpet and walls have a luminous abstract color design symbolizing the Social Security Administration.

Training Suite: A large suite of training and induction and testing rooms, and supporting office spaces is equipped with all the necessary facilities - including audio-visual projection - for carrying on the training and retraining activities. The large meeting rooms can be connected with closed circuit television.

Building Service Spaces

Two banks of elevators, each at the far ends of the office floors, provide speedy vertical transportation within the building. Located along the corridor serving each elevator lobby on each floor are the service facilities: toilets, the women's toilet with a furnished and carpeted lounge; drinking fountains; and service closets.

Vending rooms on each floor, together with a large vending and lunch room on the fourth floor are provided for coffee, candy, etc., as well as prepared-food vending.

A health suite, also on the fourth floor, is equipped to operate as an examination and emergency medical service.

Two high-speed freight-passenger elevators service all floors. A vertical mail tray conveyor services all floors from the basement mail receiving room. Located in the building center, the conveyor is equi-distant from all office spaces.

Ancillary service spaces include janitors closets and housekeeping rooms, maintenance and repair, trash rooms with chutes, offices, storage and locker rooms.

Building Exterior

The elevator-service cores extending the height of the building are faced with a rich, red-brown brick, consistent with the character of brick masonry construction in Philadelphia. The window walls at offices, extending the building height and from core to core, are finished in light bronze with bronze glass. The auditorium is brick masonry like the cores. Metal finishes of handrails and other exterior metal is also light bronze.
**PROJECT NAME:** UNITED STATES POSTAL SERVICE  
NATIONAL BULK MAIL FACILITY  
WARRENDALE, PENNSYLVANIA  

**PROJECT NO.:** 1246  
**PROJECT MANAGER:** J.F. Dowden  
**PROJECT DESIGNER:** Phil Hundley  

**DATE OF DRS CONTRACT:** July 21, 1972  
**DESIGN DOC. STARTED:**  
**DESIGN DOC. COMPLETED:**  
**CONTRACT DOC. STARTED:**  
**CONTRACT DOC. COMPLETED:**  
**BID DATE:**  
**CONSTRUCTION START:**  
**CONSTRUCTION COMPLETED:**  
**TOTAL COST:**  
**SQ. FT. AREA:**  
**COST/SP:**  
**FEE:**  

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**PLUMBING**  
**HVAC**  
**ELECTRICAL**  

**TOTAL**  

**ESTIMATE (as of:)**  
**BID (as of:)**  
**FINAL (as of:)**
PROJECT NAME: APARTMENTS  
COPPOLINO PROPERTY  
BROWNSVILLE, PENNSYLVANIA

PROJECT NO: 1248
PROJECT MANAGER: R.O. Deeter
PROJECT DESIGNER: 

Date of DRS Contract: July 14, 1972
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 
Bid Date: 
Construction Start: 
Construction Completed: 
Total Cost: 
Sq. Ft. Area: 
Cost/SF: 
Fee: 

OWNER: 

REQUESTING AGENCY: REALTY GROWTH CORP.

CONSULTANTS NAME ADDRESS TELEPHONE

COST DATA

GENERAL ESTIMATE (as of: ) BID (as of: ) FINAL (as of: )

PLUMBING

HVAC

ELECTRICAL

TOTAL
PROJECT NAME: SOUTH HILLS HEALTH SYSTEM
NEW 400 BED HOSPITAL
PITTSBURGH, PENNSYLVANIA

FORMERLY: HOMESTEAD & SAINT JOSEPH HOSPITALS

OWNER: SOUTH HILLS HEALTH SYSTEMS INC.

REQUESTING AGENCY: 

CONSULTANTS

NAME

ADDRESS

TELEPHONE

PROJECT NO: 1249
PROJECT MANAGER: F. Knoble
PROJECT DESIGNER: H.B. Grant
PROGRAMMER: W.B. Sloan
Date of DRS Contract: Dec. 21, 1972
Design Doc. Started:
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:
Sq. Ft. Area:
Cost/SP:
Fee

SERVICES

COST DATA

ESTIMATE (as of: ) BID (as of: ) FINAL (as of: )

GENERAL

PLUMBING

HVAC

ELECTRICAL

TOTAL
**PROJECT NAME:** SITE SELECTION STUDY  
SOUTH HILLS HEALTH SYSTEM  
NEW 400 BED HOSPITAL  

**PROJECT NO:** 1249.1  
**PROJECT MANAGER:** F. Knoble  
**PROJECT DESIGNER:** P.S. Hundley  
**PROGRAMMER:** W.B. Sloan  
**Date of DRS Contract:** Nov. 17, 1972

**OWNER:** SOUTH HILLS HEALTH SYSTEM INC.

**REQUESTING AGENCY:**

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**ESTIMATE (as of: )**  
**BID (as of: )**  
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**PROJECT NAME:** HOMESTEAD HOSPITAL

**PROJECT NO:** 1250

**PROJECT MANAGER:** W.B. Sloan

**PROJECT DESIGNER:**

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**CONSULTANTS**

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**COST DATA**

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- **BID (as of:)**
- **FINAL (as of:)**

- **GENERAL**
- **PLUMBING**
- **HVAC**
- **ELECTRICAL**

**TOTAL**
PROJECT NAME: SPENCER MENTAL HOSPITAL
SPENCER, WEST VIRGINIA

PROJECT NO: 1251
PROJECT MANAGER: W. H. Sippel
PROJECT DESIGNER: W. H. Sippel

Date of DRS Contract: 
Design Doc. Completed:
Contract Doc. Started:
Contract Doc. Completed:
Bid Date:
Construction Start:
Construction Completed:
Total Cost:
Sq. Ft. Area:
Cost/SP:
Fee:

CONSULTANTS

NAME

ADDRESS

TELEPHONE

COST DATA

ESTIMATE (as of: ) BID (as of: ) FINAL (as of: )

GENERAL
PLUMBING
HVAC
ELECTRICAL

TOTAL
PROJECT NAME: NORTH ALLEGHENY JR.-SR.
HIGH SCHOOL
MCCANDLESS TOWNSHIP
ALLEGHENY COUNTY, PENNA.

LOCATION: 350 N. Cumberland Road
Pittsburgh, Penna. 15237

OWNER: North Allegheny Joint Authority
350 N. Cumberland Road
Pittsburgh, Penna. 15237

REQUESTING AGENCY:

CONSULTANTS

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CONTRACTORS

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Sitework & Landscaping 218,000.00

See Project #5512, #1108 & #1108.4

3/14/73

The North Allegheny High School attracted national attention even before the actual work of construction had been awarded. A professional jury selected by PROGRESSIVE ARCHITECTURE, national professional magazine, called it the nation's best large high school among currently designed structures.\footnote{PROGRESSIVE ARCHITECTURE, January, 1952.}

While the architects were making extensive surveys of the area, a Joint School Building Committee, consisting of two directors from each of the component boards, together with numerous high school and university advisors, held a series of weekly meetings for the purpose of completing a special study of an educational program for the proposed junior-senior high school. The results of this carefully planned study were the bases for the school board's recommendation to the architects, the Allegheny County Board, and the Pennsylvania Department of Public Instruction, as to the type of physical plant which would be required to house the desired program.

Dr. A. W. Beattie, at that time Superintendent of Allegheny County Schools, expressed his unqualified approval as follows: "The North Allegheny Joint Board's study of educational program needs for their particular district was the most carefully prepared of any which I have knowledge in my years of contact with such matters. Your board has done an amazing piece of work and your architects are doing an exceptionally fine job designing the kind of building to meet your requirements. On the basis of what has been done to date, if North Allegheny doesn't get a very superior secondary school program, housed in a particularly suitable type of building, then I don't know how to get one."
PROJECT NAME: MELLON SQUARE PARK

OWNER: Parking Authority of the City of Pittsburgh
904 City-County Bldg.
Pgh., Penna. 15219

REQUESTING AGENCY:

CONSULTANTS

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<td>Structural</td>
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PROJECT NO: 5311
PROJECT MANAGER: J.C. Armstrong, Jr.
PROJECT DESIGNER:

Date of DRS Contract: 
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 
Bid Date: 
Construction Start: 
Construction Completed: 1953 
Total Cost: $600,000.00
Sq. Ft. Area: 
Cost/SF: 
Fee:

CONTRACTOR: H.K. Furgeruson
Cleveland, Ohio

FINAL CONTRACT

$600,000.00

2/14/73
PROJECT NAME: ALLEGHENY COUNTY
JOHN J. KANE HOSPITAL
BRIDGEVILLE, PENNA.

MITCHELL & RITCHIE PROJECT
PROJECT NO: 5313
PROJECT MANAGER:
PROJECT DESIGNER:

Date of DRS Contract: 
Design Doc. Started: 
Design Doc. Completed: 
Contract Doc. Started: 
Contract Doc. Completed: 
Bid Date: 
Construction Start: 12/57 
Construction Completed: 
Total Cost: $18,584,507.90
Sq. Ft. Area: 
Cost/SP:
Fee:
2200 beds @ /Bed

OWNER:

REQUESTING AGENCY:

CONSULTANTS

ARCHITECTS
Associated Architects
Structural
Mechanical
Plumbing
Electrical
Landscape

NAME
Button-McLain
Mitchell & Ritchey
Zern - Cook
Alexander Dzubay
Dzubay - Bedsale
Edward T. Weisman
Simonds, Simonds & Collins

ADDRESS
Pgh., Pa.
Pgh., Pa.
Pgh., Pa.
Pgh., Pa.
Pgh., Pa.

TELEPHONE

CONTRACTORS

General
Plumbing
Mechanical
Electrical
Laundry Equip.
Food Service Equip.
X-ray Equip.
Fixed Hospital Equip.
Refrigerated Spaces
Elevators & Dumbwaiters
Auditorium & Chapel Equip.

Sherry - Richards Co.
Sauer, Inc.
Sauer, Inc.
Lord Electric Co.
United States Hoffman Machinery Co.
Mervin & Kretchmer, Inc.
Westinghouse Electric Corp.
A.S. Aloe Co.
Steel City Electric Co.

COST DATA

ESTIMATE (as of: ) $13,349,300.00
BID (as of:12/57) 192,528.00
FINAL (as of:1958 ) 1,597,600.00
366,300.00
1,244,000.00
44,268.92
1,225,000.00
112,798.85
91,000.00
339,516.00
22,196.13

$18,584,507.90
$20,000,000.00

2/14/73
**PROJECT NAME:** McKnight Elementary School

**MITCHELL & RITCHIE PROJECT**

**PROJECT NO:** 5315

**PROJECT MANAGER:** J.C. Armstrong

**PROJECT DESIGNER:**

**OWNER:** North Allegheny Joint Authority
350 North Cumberland Road
Pittsburgh, Penna. 15237

**REQUESTING AGENCY:**

**CONSULTANTS**

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**CONTRACTORS**

- **Ge**: Kent Construction Co.
- **Mechanical**: Steel City Piping Co.
- **Plumbing**: Cardest Plumbing Co.
- **Electrical**: Walter Electric Co.

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**TOTAL** $350,680.22

2/14/73
MITCHELL & RITCH EY PROJECT
PROJECT NO: 5414
PROJECT MANAGER: J.C. Armstrong
PROJECT DESIGNER: 

Date of DRS Contract: 1954
Design Doc. Started: 
Design Doc. Completed: 10/20/55
Contract Doc. Started: 
Contract Doc. Completed: 
Bid Date: 
Construction Start: 
Construction Completed: 
Total Cost: $285,918.98
Sq. Ft. Area: 
Cost/SP: 
Fee: 

OWNER: North Allegheny Joint Authority
350 Cumberland Road
Pittsburgh, Penna. 15237

REQUESTING AGENCY: Owner

CONSULTANTS

NAME

ADDRESS

TELEPHONE

Structural
R.A. Zern

100 Fifth Ave., Pgh., Pa. 471-9100

Mechanical
Alex Dzubay (Deceased)


Electrical
Carl J. Long & Assoc.


CTORS

General
J.O. Thomas & Co.


Mechanical
Ralph J. Midgley


Plumbing
Cardest Plumbing Co.


COST DATA

ESTIMATE (as of: ) BID (as of: ) FINAL (as of: )

GENERAL $205,300.00 $206,712.35
PLUMBING 34,200.00 34,547.63
HVAC 23,796.00 23,796.00
ELECTRICAL 30,159.00 20,863.00

TOTAL $284,159.00 $284,918.00 $285,918.98

2/14/73

See Projects #1037 & 1201
### CONTRACTORS

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<td>American Seating Co.</td>
<td>901 S. Tropper Rd.</td>
<td>215/666-6551</td>
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<td>Wayne Crouse, Inc.</td>
<td>3370 Strafford St., Pgh.Pa.</td>
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<td>Roof Structural</td>
<td>American Bridge Division of USS Corp.</td>
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<td>Acoustic Ceiling Panels</td>
<td>Standard Floor Inc.</td>
<td>521 Pressly St., Pgh.,Pa.15222</td>
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### COST DATA

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\[21/73\]
PROJECT NAME: CIVIC AUDITORIUM  
PITTSBURGH, PA.

OWNER: Auditorium Authority of the  
City of Pgh.  
Pittsburgh, Penna.

CONSULTANTS

| Structural (Roof & Roof supporting elements) | Amman & Whitney |
| Structural (Interior) | R.A. Zern |
| Mechanical | John Mullin Assoc. |
| Plumbing | Alexander Dzubay |
| Rf | Jefferson Bedsole |
| Refrigeration | Amman & Whitney |
| Bldg. Electrical | Carl J. Long & Assoc. |
| Landscape Arch. | Simonds & Simonds |

CONTRACTORS

| General | Dick Corp. |
| Mechanical | Limbach Co. |
| Electrical | E.C. Ernst |

MITCHELL & RITCHEY PROJECT

| PROJECT NO: | 5514-R |
| PROJECT MANAGER: | JCA/ERG |
| PROJECT DESIGNER: | |
| Job Captain: | E.R. Gallagher |
| Date of DRS Contract: | |
| Design Doc. Started: | |
| Design Doc. Completed: | |
| Contract Doc. Started: | |
| Contract Doc. Completed: | |
| Bid Date: | |
| Construction Start: | |
| Construction Completed: | 5/26/71 |
| Total Cost: | $16,215,414.79 |
| Sq. Ft. Area: | 163,000 |
| Cst/SF: | |
| Fee: | |
| Cost per seat / 13,000 seats at $1,247.34 per seat | }

ADDRESS

| 111 Eight Avenue |
| New York, New York |
| Gateway Towers |
| Pgh., Penna. 15222 |
| Keystone Building |
| Pgh., Pa. (Deceased) |
| 111 Eight Avenue |
| New York, N.Y. 10011 |
| 100 Fifth Ave. Bldg. |
| Pgh., Pa. 15222 |
| 100 Ross St. |
| Pgh., Pa. 15219 |

TELEPHONE

| 212/Watkins 4-8282 |
| 391-4067 |
| 212/Watkins 4-8282 |
| 471-9100 |
| 281-3808 |
| 462-5700 |
| 471-0500 |
| 621-6411 |
PROJECT NAME: BRADFORDWOODS ELEMENTARY SCHOOL

OWNER: North Allegheny Joint Authority
350 Cumberland Road
Pittsburgh, Pennsylvania 15237

REQUESTING AGENCY: Owner

CONSULTANTS
Structural R. A. Zern
Mechanical Alex Dzubay (Deceased)
Plumbing Jefferson Bedsole
Electrical Carl J. Long & Assoc. Hardy & Hayes Bldg.

CONTRACTORS
General J. O. Thomas & Co.
Mechanical Ralph J. Midgley
Electrical Reno Electric Co.

PROJECT NO. #5414
PROJECT MANAGER J. C. Armstrong
PROJECT DESIGNER

Date of DRS Contract 1954
Documents Completed 10/20/55
Bid Date
Construction Start
Construction Completed
Total Cost $285,918
SF Area Cost/SF Fee

TELEPHONE 471-9100

481-2201
DESCRIPTION: Structural steel frame with exposed brick, interior-exterior walls forming division between major areas.

Building consists of six classrooms, grouped in wings of two each served by a connecting corridor that leads to main entry. Entry area serves as connecting link between classrooms to the left and on all-purposed gymnasium and cafeteria to the right. There is a small pantry adjacent to the all-purpose room for the use of faculty and parent groups. Along one wall of all-purpose room are concealed tables and benches. There is also a small stage arrangement for the presentation of plays and other school functions.

Connected also to the entry area are the toilet facilities for boys and girls, the health room, teachers rooms, general offices and principal offices as well as a heating room.

The classrooms, in groups of two, are formed as protections from the corridor, providing two exterior glass & panel walls for each room with a common connecting wall. The roofs of these classrooms are butterfly wing shaped, being high at the exterior and low at the dividing wall. The classrooms are each provided with chalkboards, tackboards and built-in shelving, sinks and heating units along exterior walls.

The corridors are exposed brick construction with no lockers. Students clothes are hung along the walls, exposed from hook rails beneath shelving for storage of books and hats. In winter weather, the student boots form neat lines beneath their coats along the walls.

All floors throughout are poured-in-place concrete covered with vinyl asbestos tile with the exception of toilet areas, where ceramic tile was used.

The walls of toilet areas were constructed of glazed structural facing tile and ceilings, cement plaster.

The roof, throughout, was constructed of metal acoustic deck, providing acoustical qualities as well as a roof structure. The entire deck was covered with 1-1/2" rigid insulation, built-up roofing and gravel.

Heating is by hot water unit ventilators and fin connectors designed for future expansion.

1037 - ADDITION

For general description of construction refer to original project 5414, as this project was an addition of six classrooms, boys and girls toilet areas and an additional entry.
PROJECT NAME: GATEWAY CENTER GARAGE & PLAZA
PITTSBURGH, PENNA.

OWNER: Equitable Life Assurance Society
Gateway Center
Pittsburgh, Pa.

REQUESTING AGENCY: Equitable Life Assurance Society

CONSULTANTS NAME

Structural Praeger - Xavanagh 126 East 38th St.
New York, N.Y. 16 685-5850

Mechanical Meyer, Strong & Jones 230 Park Ave.
New York, N.Y. 17 689-4360

Electrical Meyer, Strong & Jones 230 Park Ave.
New York, N.Y. 17 289-4360

Landscape Architect Simonds & Simonds 100 Ross St.
Pgh., Penna. 15219 261-3808

CONTRACTORS

General Ragnar Benson, Inc. Two Gateway Center
Pgh., Pa. 15222 471-7200

Mechanical Limbach Co. Four Gateway Center
Pgh., Pa. 15222 471-8000

Plumbing Coleman-Good, Inc. 1340 Ridge Ave.
Pgh., Pa. 231-4343

Electrical Hale Electric Co. (No longer in business)

Landscaping Frank Curto

DEETER & KNABE

PROJECT NO: 5566
PROJECT MANAGER: R.O. Deeter
PROJECT DESIGNER: J. Kozak

Date of DRS Contract: 10/3/57
Design Doc. Started: Design Doc. Completed:
Bid Date: 5/26/58
Construction Start: 6/58
Construction Completed: 9/59
Total Cost: $2,836,360.34
Sq. Ft. Area: 269,600 SF
Cost/SF: $10.52
Fee:(Lump Sum) $137,042.28
744 cars @ $812.30/car. As of 9/70

ADDRESS TELEPHONE

2/21/73
DESCRIPTION: Three story underground concrete structure of flat slab design with caps at columns, supported on a 4-1/2 ft. thick reinforced concrete pad designed to resist hydrostatic pressure. About three eighths of the floor area is ramped parking which provides access to all levels. An express exit ramp serves the two lower levels. Main entrance and exit is located at top level on Liberty Ave. Also at the top level, a second exit leads to the Boulevard of Allies. The garage will provide parking for 744 cars.

Waiting room, office and toilet facilities occur at the top level. Toilet and shower facilities for the garage attendants are located at the middle level. Toilets have ceramic tile floors, glazed tile walls and plaster ceilings. Waiting room and offices have vinyl asbestos tile floors, concrete block walls and acoustical ceilings. Elsewhere walls are exposed concrete or concrete block, and ceilings are exposed concrete. Window wall and doors to waiting room are aluminum. All other doors are hollow metal.

At the middle level, a reinforced concrete tunnel under Liberty Ave. connected the garage with the Hilton Hotel and Gateway Buildings 1, 2 and 3. The tunnel was divided into two corridors, one for pedestrian use and the other for service piping.

The roof over the garage provided an open Plaza area which was paved and landscaped, in addition to provision of benches and a water fountain. Trees were located over column points. Paving is venetian terrazzo. The wearing slab was installed over a gravel fill above the waterproofed structural slab.

HVAC: Garage ventilation is accomplished by a duct system of hot air with make-up air from plaza level above, and an exhaust duct system. Waiting room and office area are provided with air-conditioning. A toilet exhaust system is provided. Heating is accomplished by outside steam lines brought into the structure.

PLUMBING: Separate storm and sanitary sewers are provided; both are connected into a combination sewer outside the structure. Hose bibbs are provided at Plaza above and at various points in the Garage. A system of verticalvalved relief piping is provided at the two lower levels as protection against an excessively high flood stage, in which case, the lower levels would be flooded.

FIRE PROTECTION: Standpipes and hose racks are installed in the two stair towers.

ELECTRICAL Fluorescent light fixtures are used throughout the facility except at Plaza and except in isolated instances. Light standards at Plaza are butterfly type with incandescent lamps. Emergency lighting consists of lights powered by batteries which are in turn recharged by an electrical connection.
PROJECT NAME: INGOMAR JUNIOR HIGH SCHOOL
1958 - 1959

MITCHELL & RITCHLEY PROJECT
PROJECT NO: 5701
PROJECT MANAGER: J.C. Armstrong, Jr.
PROJECT DESIGNER: H.B. Grant

Date of DRS Contract: 7/1/57
Design Doc. Started: 7/25/57
Design Doc. Completed: 7/25/57
Contract Doc. Started: 7/25/57

Bid Date:
Construction Start:
Construction Completed: 9/1/58 *
Total Cost: $2,100,000
Sq. Ft. Area: $116,319
Cost/SF: $18.20/SF

Fee:
1000 students @ $2,100.00/student

OWNER: North Allegheny Joint Authority
350 Cumberland Road
Pittsburgh, Pennsylvania 15237

REQUESTING AGENCY:

CONSULTANTS

NAME
Structural
Zern - Cook
Mechanical
Dzubay-Bedsole
Plumbing
Alexander Dzubay
Electrical
Edward T. Weismann

ADDRESS

TELEPHONE 391-4067

CONTRACTORS

General
United Construction Co.
Mechanical
Steel City Piping Co.
Mechanical
Metz Plumbing
Electrical
Reno Electric

1335 W. Liberty Ave. Pgh, Pa. 561-6444

COST DATA

ESTIMATE (as of: ) BID (as of: ) FINAL (as of: 9/58)

GENERAL
$1,254,350.00

PLUMBING
232,600.00

HVAC
222,224.00

ELECTRICAL
215,518.00

TOTAL
$2,075,772.00

$2,100,000.00

$2,115,971.00

2/7/73
PROJECT NAME: NORTH PARK  
ICE SKATING RINK  
ALLEGHENY COUNTY, PENNSYLVANIA

OWNER: County of Allegheny, Penna.

REQUESTING AGENCY: George B. McDonough, Director  
Department of Parks

CONSULTANTS

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<tr>
<th>Structural</th>
<th>Robert A. Zern</th>
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TOTAL

2/7/73
OUTDOOR ICE SKATING ENTHUSIASTS IN THE PITTSBURGH AREA NO LONGER HAVE TO DEPEND UPON THE VAGARIES OF THE WEATHER FOR THEIR WINTER FUN. THEY CAN NOW ENJOY SIX MONTHS OF OUTDOOR SKATING.

ALLEGHENY COUNTY'S NORTH PARK, JUST TEN MILES NORTH OF PITTSBURGH, IS THE SITE OF A NEW $925,000 OUTDOOR ARTIFICIAL ICE RINK AND CLUB HOUSE DESIGNED BY ARCHITECTS DEETER & RITCHIE. THE RECREATIONAL FACILITY CAN ACCOMMODATE 2,500 PEOPLE FOR FULL UTILIZATION OF CLUB HOUSE AND RINK WITH 1,500 SKATERS ON THE 25,000 SQUARE FOOT RINK SIMULTANEOUSLY.

SKATERS ARRIVING IN THE AREA ARE CONFRONTED BY A LONG, LOW CLUB HOUSE SITED IN A ROLLING COUNTRYSIDE JUST ON THE EDGE OF A SMALL NATURAL LAKE WHICH, DURING FREEZING WEATHER, CAN HANDLE OVERFLOW CROWDS FROM THE NEW RINK.

ENTERING THE 20,000 SQUARE FOOT BUILDING THROUGH COIN-OPERATED TURNTILES, PATRONS GO DIRECTLY TO A CHANGING ROOM WHERE THEY CAN DON SKATES, CHECK SHOES AND COATS. BOTH SKATES AND CONCRETE FLOOR ARE PROTECTED FROM DAMAGE BY THICK, REMOVABLE RUBBER MATTING STRETCHING FROM THE CHANGING ROOM TO THE VERY EDGE OF THE RINK.

THE CLUB HOUSE ALSO CONTAINS SPACE FOR SKATE RENTALS AND REPAIRS, A PRO SHOP, TOILETS AND CONCESSION AND KITCHEN SPACE. THERE IS ALSO AN ICE RANGERS' ROOM, FIRST AID FACILITIES AND OFFICE SPACE WITHIN THE STRUCTURE WHICH IS ESSENTIALLY ONE STORY WITH A MEZZANINE OBSERVATION DECK.

THE MEZZANINE, ALTHOUGH ESSENTIALLY SPECTATOR SPACE FOR OBSERVING SKATERS, WILL ALSO BE USED FOR SQUARE DANCES, PARTIES, SUMMER PICNIC DINING AND OTHER ACTIVITIES IN CONJUNCTION WITH HEAVY SUMMER USAGE OF THE COUNTY PARK SYSTEM.

IN ADDITION TO PUBLIC USES, THE CLUB HOUSE ALSO CONTAINS A REFRIGERATION EQUIPMENT ROOM AND A STORAGE SPACE FOR ICE RESURFACING MACHINES.

THE CLUB HOUSE STRUCTURE IS OF REINFORCED CONCRETE PIERS AND WALLS, LAMINATED WOOD BEAMS, WOOD ROOF DECK AND WOODEN WINDOW AND DOOR FRAMES. VARYING SIZES OF FIELD STONE WERE HAND-PLACED IN PIER AND WALL FORMS PRIOR TO CONCRETE POURING TO ACHIEVE AN AESTHETIC EFFECT IN KEEPING WITH THE RURAL SETTING OF THE BUILDING.

THE STRUCTURE CONTAINS CONCRETE FLOORS THROUGHOUT WITH HOT WATER BASEBOARD PERIMETER HEATING. GENERAL LIGHTING IS PROVIDED BY INDIRECT TROFFERS ALONG BEAMS REFLECTING LIGHT OFF THE WHITE PAINTED CEILING. SURFACE MOUNTED FIXTURES UNDER THE MEZZANINE AND ABOVE CONCESSION AREAS GIVE CONCENTRATED LIGHT WERE REQUIRED.

THE 120' X 206' RINK CONSISTS OF A CONCRETE BEAM AND GIRDER SYSTEM SUPPORTED ON CAISSONS. RESTING ON THIS STRUCTURAL SYSTEM BUT NOT FASTENED TO IT IS A PERMANENT FORM OF STEEL DECKING ON WHICH WAS Poured A 6" MONOLITHIC CONCRETE SLAB TOPPED WITH TERRAZZO WHICH CONTAINS THE REFRIGERATION PIPES.