PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Composite architectural precast concrete panel units.

1.2 QUALIFICATIONS

A. Design: Panels shall be designed under the supervision of a Structural Engineer registered in the State of California employed or retained by manufacturer. All design loads shall meet the requirements of the California Building Code.

B. Erector: Manufacturer shall also be erector of panels.

1.3 SUBMITTALS

A. Samples:
   1. Submit preliminary samples, approximately 12 inches by 12 inches, representative of finished exposed face.
   2. Prior to commencement of manufacture, submit production samples, approximately 4 feet by 4 feet, for final approval of colors and textures.

B. Shop and Erection Drawings: Division 1;
   1. Material specifications,
   2. Floor plans identifying location of panels,
   3. Floor plans identifying location of pre-erection attachments (i.e. cast-in-place embed and pre-welds) to supporting structure,
   4. Elevations identifying location of panels and their connections,
   5. Details as necessary to describe relationship of panels to adjacent material,
   6. Details of panel connections,
   7. Description of all hardware attached to panel frames, sent loose to the job site, and cast into or attached to supporting structure,
   8. Elevations and sections of typical panels showing;
      a. geometry and finish,
      b. thickness of face and back-up mixes,
      c. steel frame members and dimensions,
      d. size, location and details of flex and gravity anchors,
      e. other items sprayed into panels,
      f. points for stripping, lifting, and erection,
      g. connection hardware with piece marks and their location on the steel frame,
      h. embed locations for attachment where frame is not provided.

1.4 QUALITY ASSURANCE

A. Full-Scale Panel Mock-up:
   1. After standard samples are accepted for color and texture, produce full-scale panel meeting design requirements. This panel shall be viewed and approved by the University at panel manufacturer's plant.
   2. The full-scale panel shall be representative of standard quality for panel work, when accepted by the University.
   3. Incorporate full-scale panel into work after keeping panel in plant for checking purposes.

B. In-Plant Quality Control:
   1. Panel manufacturer shall have an established Precast Concrete Institute Quality Control Program in effect prior to bidding. If requested, a copy of this program shall be submitted to the University.
   2. Testing of materials and inspection of production techniques shall be the responsibility of the panel manufacturer's Quality Control Department.
   3. Keep quality control records available for two years after final acceptance.
   4. Keep certificates of compliance available for 5 years after final acceptance.

C. All other testing and inspection to be provided by the University.

PART 2 - PRODUCTS

2.1 MATERIALS

A. As required by the Design/Builder and Structural Engineer. Provide per PCI minimum standards.

PART 3 - EXECUTION

3.1 SEALER AND/OR ANTI-GRAFFITI (where required by project)

A. Seal exposed panel surfaces, where indicated on contract drawings, with one coat of water repellant coating in accordance with product manufacturer's recommendations and Division 7- Joint Sealants.

END OF SECTION