

- 4" center set. Rose spray outlet with 0.5 GPM flow rate. Grid strainer. Chicago 1028 angle stops w/ rigid riser. C.E.C. listed.
5. Sink S-1: Elkay Rigidbilt Stainless Steel Scullery Sink, RNSF8358LR 16 GA type 304 stainless steel, Square welded construction 18"x 24"x13 1/2" with faucet holes on 8" centers punched for 3 holes. 1 1/2" cast brass L.A. pattern P-trap with chrome finish. Elkay LK-35 chrome basket strainers. Elkay LK499 chrome plate mixing faucet with 10" high gooseneck spout with aerator, BH4 wrist blade handles. Chicago 1003 angle stops w/ rigid riser.
 6. Sink S-2: Elkay Stainless Steel Hand Sink, ELV2219 18 GA type 304 stainless steel, backsplash with faucet holes on 4" centers punched for 3 holes. 1 1/2" cast brass L.A. pattern P-trap with chrome finish. Elkay LK-8 chrome grid strainers. Elkay LK411 chrome plate mixing faucet with 11" high gooseneck spout with aerator, BH4 wrist blade handles. Chicago 1003 angle stops w/ rigid riser
 7. Drinking Fountain DF-1: Haws model 1010 wall mounted dual bubbler drinking fountain, front push bar operated, 18 GA. type 304 stainless steel with #4 satin finish. Polished chrome plated vandal-resistant bubblers and push bars, self-closing valves, automatic stream regulation. 1/2" IPS screwdriver stops, chrome plated waste strainers, 1 1/4" ips traps and vandal resistant bottom plates.
 8. Floor Drain FD-1: J.R. Smith #2005-A-P-PB, 5" square top, 2" outlet, trap primer connection, duco cast iron body with polished bronze grate.
 9. Floor Sink FS-I: J.R. Smith #3410-12, 8" square top -medium receptor, no hub, 2" pipe size connection, cast iron flanged receptor, acid resistant coated interior and acid resistant coated grate.
 10. Trap Primer TP-I: Precision Plumbing Products, Inc. model "Prime-rite" 1/2" inlet and 1/2" outlet with distribution unit may be located as indicated on drawings or as required by code. UPC listed.
 11. Water Hammer Arrestor WHA-I: Precision Plumbing Products, Inc. model "SC-Series" (size as required), installed on all quick closing valves and all valves which close with the flow of fluid, or on headers serving more than one fixture. Provide a 12"x 12" access panel.
 12. RD-1: J.R. Smith #1083-C Roof Drain. Duco cast iron body with no-hub fitting, combined flashing clamp, gravel stop and adjustable "Flow Rate Control" assembly and dome.
 13. OD-1: J.R. Smith #1080-C Overflow Drain. Duco cast iron body with no-hub fitting, combined flashing clamp, gravel stop and adjustable "Flow Rate Control" assembly and dome. 3 1/2" water dam.
- C. Interior exposed pipe, valves, and fixture trim shall be chrome plated.
- D. The complete installation of each fixture shall include trap and accessories with accessible stop or control valve in each hot and cold-water branch supply line. Fixture floor connections shall be made with approved brand of cast Iron floor flange, soldered or caulked securely to waste pipe. Make joint between fixture and floor flange tight with approved fixture setting compound or gaskets.
- E. Polish chrome finish at completion of project.
- F. Install fixtures and fittings as per local codes and manufacturer's instructions.
- G. Do not use flexible water piping.
- H. Caulking: Fixtures shall be bedded and caulked along joint at walls, counter tops and other intersecting surfaces with "Polysenseal" distributed by "Gladding-McBean" or approved equal.

- I. Backing for all fixtures indicated on wall shall be one quarter inch by six inches (1/4" x 6" steel) plate; recessed flush with stud face and extending to next stud beyond fixture on each side. Secure plate top and bottom at each stud and weld three-eighths inch (3/8") steel stud bolts to each stud. See fixture schedule for type of support required. For wood stud installation, secure backing plate to each stud with three-eighths inch by two-inch (3/8" x 2") long lag bolts. Minimum two (2) per stud.

2.021 WATER HAMMER ARRESTORS

- A. Piston operated, type K copper barrel, with brass threaded adaptor:
 1. The piston shall provide a permanent mechanical barrier between fluid and pre-load air change.
 2. The piston shall be equipped with two (2) O-rings, "Parker Specifications" N741-75, temperature rated 40 °F to 450 °F. Seal lubricant shall be "Dow Corning" Silicone Compound #111 FDA listed as safe for use in potable water systems.
- B. Shall be designed to operate under domestic and commercial line pressures. Shall be equal to the pipe diameter at the point of installation.
- C. The installation shall be made in the vertical or horizontal positions from the source of lock. Shall be installed in the following locations:
 1. All quick closing valves.
 2. All valves that close with the flow of fluid.
- D. Normal arrestor operating pressure shall be 35 to 250 Psig, with a maximum surge or spike pressure not to exceed 1500 Psig.
- E. Arrestor shall be fully guaranteed in writing by manufacturer for the entire life of the system.
- F. Shall be as manufactured by "Precision Plumbing Products, Inc.," SC Series. Submit shop drawings for approval by the Mechanical Engineer.

2.022 CLEANOUTS

- A. Floor: "J.R.Smith" #4023 or #4043 or "Zurn" #1400-2 or #1440-3, with polished nickel bronze non-skid adjustable round or square top. Use carpet clamping type top with carpet marker in carpeted areas.
- B. Dry Wall: "J.R.Smith" #4670 or approved equal by "Zurn" or "Josam;" prime coated steel, face or wall type.
- C. All other walls: "J.R.Smith" #4470 or approved equal by "Zurn" 1470 series with chrome plated cover and screws. Provide "J.R. Smith" #4715 or approved equal where wall thickness is inadequate to conceal cleanout.
- D. Submit shop drawings and/or catalog cuts for each type for Mechanical Engineer's approval, prior to installation.

2.023 PIPE INSULATION

General

1. Furnish and install thermal insulation on clean dry surfaces; after testing, inspection, and approval in strict accordance with these specifications, contract documents and manufacturer's recommendations.
2. All insulation and accessory material shall meet the requirements of flame spread not to exceed 25 and smoke developed not to exceed 50, as tested by "Procedure ANSI/ASTM-E-84, NFPA 225 or UL 723.

3. Insulation shall be as manufacture by "Manville" or as approved by the Mechanical Engineer, prior to installation.
4. Installation: By skilled appliers directly in the employ of firms with a minimum of five (5) years successful installation experience, specializing in this type of work.
5. Pipe Hangers shall be installed outside the insulation. This contractor shall insert a section of cellular glass insulation at the support of a length not less than twice pipe diameter.

2.024 EQUIPMENT IDENTIFICATION

Valves

- 2.01 Numbered brass disc attached to each valve for identification.
- 2.02 Valve tag shall be stamped to identify type of service and sequence number (i.e.: HW-1). Submit sample valve tag for approval prior to installation.
- 2.03 Valve directory to be provided with operations and maintenance submittals.

PART 3 -- EXECUTION

3.01 EXAMINATION

- A. Examine the areas and conditions under which work of this Section will be performed.
- B. Correct conditions detrimental to timely and proper completion of the Work.
- C. Do not proceed until unsatisfactory conditions are corrected.
- D. Beginning of installation means acceptance of conditions.

3.02 OPERATING AND MAINTENANCE DATA

Data: Submit to the Architect for approval, prior to acceptance of the installation, complete and at one time. Partial or separate data will not be accepted. Data shall consist of the following-

1. Manufacturer's Literature: Six (6) copies of manufacturer's instructions for operation and maintenance of all equipment, valves, and controls; including replacement parts lists.
2. Written Instruction: Typewritten instruction for operation and maintenance of the system composed of Operation Instructions and Maintenance Instruction. Six (6) copies submitted to the Architect for approval.
3. Operating instructions shall contain a brief description of the system. Adjustments requiring the technical knowledge of the service agency personnel shall not be included in the operating instructions.
4. Maintenance instructions shall list each item (i.e. plumbing fixtures and equipment) requiring inspection, lubrication, or service and describe the performance of such maintenance.
5. Verbal Instructions: Operating personnel shall be instructed in the operation of the systems in accordance with typewritten instructions. No other verbal instructions shall be given.
6. Binders: Four (4) complete sets of the above data in loose-leaf, ring type binders with permanent covers, with identification on inside cover.

3.03 SPECIAL REQUIREMENTS

- A. The manufacturer and/or supplier of all equipment shall certify in writing to the owner that this equipment complies with these specifications.

- B. All new equipment shall be anchored as required and/or as detailed on drawings.
- C. Written Certifications, in a form approved by the Mechanical Engineer, shall be provided by the equipment manufacturer or his authorized representative:
 - 1. That the equipment and its installation was inspected on the job by the manufacturer and that the equipment is in first-class condition throughout, was installed in accordance with manufacturer's requirements and recommendations, and that the installation is approved by the manufacturer.
 - 2. That the equipment is operating in a safe and satisfactory manner and is delivering capacities and performance hereinbefore specified and/or indicated on the drawings.
 - 3. The following shall be certified as described above: All plumbing fixtures and domestic hot water heaters.
- D. Damage by Leaks: The contractor shall be responsible for all damage to equipment and premises caused by leaks or breaks in piping or equipment for a period of one (1) year after date of final acceptance.
- E. Unless otherwise directed, and/or specified, and/or indicated, all materials and equipment shall be installed in accordance with the manufacturer's recommendations and instructions.
- F. Plumbing equipment shall bear the manufacturer's label or nameplate showing performance characteristics. Identifying size or model number shall be given only when not practicable or customary to show otherwise. All valves, pipe, fixtures and fittings shall bear the manufacturer's trademark or identifying markings.
- G. All materials of similar class or service shall be of one manufacturer.
- H. Plumbing piping layouts as shown on the drawings are subject to modifications, by contractor, without extra cost as required to clear other items of construction. This contractor shall coordinate the work of this section with that of other sections as to avoid interferences by other crafts involved.
- I. Contractor shall visit site prior to bidding and fully acquaint himself with all conditions affecting installation of the proposed system. Failure to do so shall not relieve contractor of responsibility of providing complete, operational, and acceptable system.

3.04 COMPLETION

- A. When the installation is complete and adjustments specified herein are made, the system shall be operated for a period of one week, during which time it shall be demonstrated to the Mechanical Engineer as being completed and operating in conformance with these specifications.
- B. Record as-built drawings showing locations and size of all plumbing piping, fixtures, and equipment as installed shall be kept up-to-date and available for inspection at all times during construction. These shall be signed by the General Contractor and Plumbing Contractor to certify their accuracy and shall be submitted to the owner prior to final acceptance of the work.

*** END OF SECTION ***

SECTION 15600
HEATING, VENTILATING AND AIR CONDITIONING

PART 1 -- GENERAL

1.01 SCOPE

Work of this section includes everything necessary and incidental to completing heating, ventilating, and air conditioning work; except as herein specifically excluded.

1.02 GENERAL REQUIREMENTS

- A. All core drilling, cutting, and patching for the installation of work under this section shall be performed under this section of the specifications. No holes will be allowed in any structural members without the written approval of the Architect.
- B. Guarantee: Furnish a written guarantee form as stipulated in section "General Conditions," for a period of one (1) year from date of acceptance of work by the owner.
- C. Materials:
1. All materials and equipment shall be new and in perfect condition when installed, of the best grade and of the same manufacturer throughout for each class or group of equipment. Materials not identified by name or manufacturer shall be comparable to that specified and as approved by the Architect. Maintain adequate job protection for all materials, equipment and work of other trades. Store all pipe at least four inches (4") above grade to avoid contact with water and dirt.
 2. Unless otherwise directed by the Mechanical Engineer in writing, or specified or indicated, all materials, and equipment shall be installed in accordance with manufacturer's recommendations and instructions.
 3. Mechanical equipment shall bear the manufacturer's label nameplate showing all performance characteristics. All valves, pipe fittings, etc., shall bear the manufacturer's trademark or identifying markings.
 4. All materials of similar function or service shall be of one manufacturer.
- D. Approval of Materials:
1. Within thirty (30) days after award of the contract, submit to the Architect, six (6) copies of a complete list of material and equipment proposed for the job including rating and capacity data, sizes, grade, electrical data, part or catalog number, manufacturer's name, pictures, catalog cuts, etc.
 2. Submit with the above list, six (6) copies of complete shop drawings for all fabricated equipment and six (6) copies of complete control diagrams with descriptions and details.
 3. Safety Compliance: All materials, equipment and installation shall comply with the requirements of "Occupational Safety and Health Act" (OSHA) Standards.
- E. Verification of Dimensions:
1. All indicated dimensions are approximate and are given for estimating purposes only. Before proceeding with the work, this contractor shall carefully check and verify all dimensions, sizes, required clearances and shall assume full responsibility for the fitting of all equipment and materials herein required to other parts of the work and to the work of other trades.

2. The drawings are essentially diagrammatic to the extent that all offsets, bends, special fittings and locations are not exactly located.
- F. This contractor shall comply with all contract documents in laying out his work and equipment. He shall coordinate the work of this section with the work of other trades and all job conditions.
1. The installation of valves, thermometers, gauges, dampers, duct access doors or other indicating equipment or specialties requiring reading, adjustment, inspection, repairs, removal or replacement shall be conveniently and accessibly located with reference to the finished building.
 2. Where wall and ceiling access doors are required for access to mechanical equipment, doors shall be furnished and installed under other sections. Coordinate this requirement with appropriate section of specifications.
- G. Rough-in: Rough-in and final connections shall be provided for equipment furnished under other sections and by the owner in accordance with rough-in drawings furnished by others. Future equipment, as noted on the drawings, shall be provided with all required rough-in utilities.
- H. Machinery Guards: All moving parts of machinery, such as shaft couplings, belt drives, etc., shall be adequately covered with removable metal guards to protect personnel from possible injury. Guards shall be furnished by the equipment manufacturer and shall comply with applicable requirements of applicable state agencies and OSHA.

1.03 SUBSTITUTIONS

Substitutions will be considered per Article of the General Conditions.

1.04 SUBMITTALS AND TESTS

A. Requirements and Submittals:

1. Conformation to requirements of Uniform Mechanical Code-1995 Edition, local and/or State codes and/or Ordinances, including the Uniform City and County Building Codes, State County and City Health Department Ordinances, State of California Industrial Accident Commission Safety Orders.
2. Apply and pay for all permits, fees, inspections, examinations and tests required by any legally constituted authorities.
3. Submission of six (6) brochures containing certified manufacturer's drawings and cuts of all equipment and specialties within thirty (30) days after Contract is signed. Partial or incomplete submittals will be rejected and will be returned to Contractor for re-submittal.
 - a. Submittals shall be in a neat ring binder form and shall contain a complete list, in index form, of the manufacturer's names, cuts of equipment, performance data, catalog numbers and trade names; as required; to properly identify the materials and equipment to be furnished under these specifications.
 - b. Data submitted for each item shall be properly identified by reference to item number of paragraphs in the specifications and mechanical drawings' equipment schedule designation.
 - c. Any deviation from item as specified shall be clearly indicated on the submittal and noted as such.
 - d. These specifications and accompanying drawings specify and illustrate equipment and materials deemed most suitable for the service anticipated. This is not to preclude other products equally as good and efficient. The contractor shall prepare his bid on the basis of the

particular equipment and materials specified for the purpose of determining the low bid. The awarding of the contract shall constitute a contractual obligation to furnish the specified equipment and materials.

- e. After the execution of the contract, should the contractor desire to substitute equipment other than that specified in the contract documents, such substitution will be considered for one reason only: The equipment proposed for substitution is superior in construction and efficiency to that specified herein.
- f. In the event the contractor obtains the Engineer's approval of equipment other than that herein described; he shall, at his own expense, make any changes in the structures, buildings, or piping necessary to accommodate the equipment and shall furnish record drawings to the Engineer.
- g. It will be assumed that the cost to the contractor of the equipment proposed to be substituted is less than that of the equipment specified in the contract documents; and, if the substitution is approved, the contract price shall be reduced by an amount equal to the savings.

B. AIR SYSTEMS TEST AND BALANCE

- 1. Work under this section shall include complete and total balancing of all equipment air systems.
- 2. This contractor shall procure the services of an independent Air Balance and Testing Agency, approved by the Engineer, which specializes in the balancing and testing of heating, ventilating, and air conditioning systems. All work of this agency shall be done under the supervision of a qualified Heating and Ventilating Engineer employed by them. All instruments used by this agency shall be accurately calibrated and maintained in good working order. Should the Contractor refuse or neglect to make tests necessary to satisfy Architects that requirements of Specifications and Drawing are met, such tests may be made by an independent testing company with the Contractor charged for all expenses.
- 3. Air balance and testing shall not begin until system has been completed and is in full working order. The contractor shall put all heating, ventilating, and air conditioning systems and equipment into full operation and shall continue the operation of same during each working day of testing and balancing.
- 4. Testing and Balancing: The air balance agency shall perform the following tests and balance systems in accordance with the following requirements:
 - a. Test and adjust belt drive blower RPM's to design requirements.
 - b. Test and record each motor full load ampere reading.
 - c. Make pilot traverse of main supply, return and exhaust ducts and obtain design CFM at fans.
 - d. Test and record system static pressures, suction and discharge.
 - e. Adjust main exhaust and return air ducts to proper design CFM.
 - f. Adjust all zones to proper design CFM, supply and return.
 - g. Test and adjust each diffuser, grille and register to within +/-5% of design requirements.
- 5. After balancing, the contractor shall demonstrate to the Mechanical Engineer, that the system is in balance and shall spot-check diffusers and registers at random to ascertain proper air delivery.

6. In preparing balance reports, contractor shall record information as required on ABC test sheets, No's 82020, 82030, 82033, 82035, 82040, 82100, 82101 and others as required.
7. In cooperation with the controls manufacturer's representative, set adjustments of automatically operated dampers to operate as specified, indicated, and/or noted.
8. All diffusers, grilles, and registers shall be adjusted to minimize drafts in all areas. As a part of the work of this contract, the air conditioning contractor shall make any changes in the pulleys, belts and dampers required for correct balance as recommended by the air balance agency.

PART 2 -- PRODUCTS

2.01 SHEET METAL

- A. Layout: Drawings are in part diagrammatic and are intended to convey the scope of work and indicate the general arrangement of equipment, ducts and piping. Mechanical trades shall follow these drawings in laying out their work, consult general construction drawings to familiarize themselves with all conditions affecting their work and shall verify spaces in which their work will be installed. Where job conditions require changes in indicated locations and arrangement, make such changes at no additional cost to owner.
- B. Description: Includes sheet metal plenums, ductwork, manually operated dampers and equipment connections.
- C. Material: All sheet metal shall be fabricated of galvanized steel.
- D. Low Pressure Duct Construction: Gauges, transverse joints, spacing of joints and intermediate bracing shall be as tabulated below, in which transverse joints are shown SS for S-stop, DS for drive slip, PS for pocket slip, and BS for bar slip. PS and BS lapped and riveted at corners. Intermediate bracing where shown may be omitted if duct sections of four feet (4'0") or less are used. Maximum spacing of bracing--four feet (4'0")

1. Schedule:

Shape	Size (in.)	Gauge	Transverse Joint	Bracing
Rect.	Up to 12	26	DS, SS	None
Rect.	13 to 18	24	DS, SS	None
Rect.	19 to 30	24	DS, SS	None
Rect.	31 to 42	22	1" PS, or BS	1 x 1 x 1-1/8
Rect.	43 to 54	22	1 1/2" standing seam	1.5 x 1.5
Round	Up to 9	24	2" slip	None
Round	9 to 14	24	4" slip	None
Round	14 to 23	22	4" slip	None

2. Alternate Transverse Joint: For rectangular duct sizes nineteen inches (19") and above, in lieu of the joint construction specified in Schedule 1 above, an alternate joint construction in "Ductmate" shall be acceptable. Submit shop drawings for approval.
3. Stiffening: Panels twenty inches (20") and larger shall be cross-broken unless standing seams are used and are spaced closer than thirty-six inches (36").

4. Changes in Direction and Size: Elbows with throat radius 75% of the dimension of the adjacent duct as otherwise detailed. Ducturns used where indicated. In ducts twenty inches (20") wide or less, use Barber-Coleman ducturns or as approved. Transitions with lengths not shorter than those shown; minimum length of three feet (3'0") where not indicated. Round elbows shall be of 4-piece construction. Same gauge as adjacent duct. Round "Wye" fittings to have 45-degree side take-off tapped into reducing transition. Seal all joints as specified below.
5. Joints: Airtight for the purpose intended. Seal all joints with high pressure, flexible duct sealant with pressure tests to 10" of water column. Sealant shall be as manufactured by "Glenkote" or approved equal. Alternately, ductwork may be sealed with 6 oz canvas strips and Arabol. Pittsburgh lock or double seams excepted. Arabol shall be used full strength with no dilution. Duct tape shall not be used.
6. Supports: Ducts secured against displacement and vibration. Anchor to structural parts of building at intervals not greater than ten feet (10'0") and suspend with hanger straps. All supports shall be per SMACNA Standards. Submit shop drawings for approval.
7. Manual Dampers: Install where shown: manually operated, opposed blade dampers with interlocking edges, fabricated of 18-gauge steel and equipped with locking quadrants and end bearings. Duro Dyne SRH-228 damper regulators shall be installed on dampers in lined duct; SRST-I on wrapped duct, with proper offset for duct insulation. Each damper regulator rod, Duro Dyne model "SB." Submit shop drawings for approval.
8. All round "Wye" fittings shall include a manual volume damper with locking quadrant. Dampers shall be "Duro Dyne" JDS series or equal. Submit shop drawings for approval.
9. Turning vanes shall be double wall type. No exceptions.
10. Turning vanes in ducts twenty inches (20") wide and larger shall be double wall with perforate inner face and packed with fiberglass. Use "Sonoturn" or equal. Submit shop drawings for approval.
11. Register Boxes: Sheer metal register boxes shall be provided for all ceiling diffusers and registers with round duct connections. Register boxes shall be lined with one inch (1") duct liner and be complete with round starter collar, size as indicated on drawings. Submit shop drawing for approval.
12. Flexible ductwork shall be "GlassFlex" AVC-180 or equal, UL-181 Class I air duct, material tested and labeled with a flame and smoke rating of 25/50 or lower. The duct shall have R-4.5 fiberglass insulation and a 0.17 perm vapor barrier. Maximum length shall not exceed five feet (5'0"). Submit shop drawings for approval
13. The contractor shall verify all clearances on job prior to fabricating ductwork. Provide transitions and offsets as required to install the work and coordinate all clearances with other trades.
14. Provide "Duro Dyne" model TH-1 instrument port in each supply and return trunk for each specified system. Submit shop drawings for approval.

2.02 DUCT INSULATION

- A. Line all ductwork where specified below with one inch (1") 1.5 PCF density moisture-resistant, fire-resistant, glass, sound absorbing duct liner. Liner shall be cemented to duct with "3M" #EC-104 adhesive. Where widths of ducts or casings exceed twenty inches (20"), both mechanical fasteners eighteen inches (18") on centers and adhesive

shall be used. Exposed edges securely cemented to prevent fraying. Dimensions of ducts are net inside liners. Manufacturer shall be "Manville" Linacoustic R or approved equal. Flame spread not over 25. Smoke developed not over 50. Liner shall meet all of the requirements of NFPA 90A & 90B. Submit shop drawings for approval on method of fastening and material.

1. All supply, return, and exhaust plenums.
 2. Line all ductwork from inlet of exhaust fans upstream for a developed length of twenty feet (20'0") from the fan.
 3. Line all register boxes with one-inch (1") duct liner.
 4. In additional locations where shown on drawings.
- B. Wrap all unlined ductwork in uninsulated or unconditioned areas with 1 ½", .75 pcf fire-resistant moisture resistant fiberglass insulation duct wrap. Insulation package shall have a flame spread rating of 25, and a smoke developed factor of 50 and shall meet all of the requirements of NFPA 90A & 90B. Duct wrap insulation shall consist of a blanket of glass fibers factory laminated to a reinforced foil vapor retarder facing with a 2" min. stapling and taping flange on one edge.
1. Duct wrap shall not exceed 25% compression during installation and shall carry an R-value of 4.2 installed.
 2. Duct wrap sections shall be tightly butted to adjacent sections with the 2" flap overlapping the adjacent section. All joints to be stapled and taped with pressure sensitive tape matching the insulation facing, FRK backing stock or glass fabric and mastic. Seal all tears, punctures and other penetrations of the duct wrap facing with tape or mastic to provide a vapor-tight system.
 3. Insulation shall be as manufactured by "Owens-Corning, or equal in "Manville" or "Armstrong".
 4. Duct wrap shall be secured with #16 soft galvanized wire, spaced at twelve-inch centers. . . No raw edges exposed will be acceptable.

2.03 CEILING DIFFUSERS AND REGISTERS

- A. Performance:
1. Devices shall provide the required air throw and spread with no apparent drafts or excessive air movement within the ventilated or air conditioned area.
 2. All air distribution accessories required to effect these conditions shall be provided and installed by this contractor.
 3. Diffusers, grilles and registers causing excessive air movement, drafts or objectionable noise shall be replaced at no cost to the owner.
- B. Ceiling Diffusers:
1. Diffusers shall be modular, removable core type, with adjustable volume control dampers.
 2. Furnish diffusers in a factory applied, baked enamel finish. Color as selected by the Architect.
 3. Diffusers shall be as manufactured by "Metalaire" Series 9000 MOD-FLO modular adjustable air diffusers, aluminum construction, or equal in "Anemostat."
 4. Verify frame types prior to ordering. Submit Shop Drawings, including color samples, for approval.

5. Provide in the neck at each diffuser at duct takeoff from main duct, an adjustable type air extractor and volume controller. Submit shop drawings for approval.
6. Where air distribution devices are installed in lay-in ceilings, twenty four by twenty four (24" x 24") filler panel shall be provided. For ceiling diffusers larger than 24" x 24" (i.e. 30" x 22"), provide properly sized filler panel.

C. Sidewall Diffusers:

1. Diffusers shall be extruded aluminum linear bar grilles with sizes as shown on plans.
2. Deflection bars shall be 15° in a permanently fixed position.
3. Borders shall be 1" wide.
4. Grille and register sections shall be furnished in one piece up to 6 feet in length.
5. Bar Grille borders shall be mechanically fastened to provide a neat hairline corners.
6. Furnish all grilles with opposed blade dampers.
7. Grilles shall have a natural anodized finish, and shall be as manufactured by Metal*Aire or approved equal in "Anemostat" or "Titus".

D. Return/Exhaust Registers:

1. Registers shall be aluminum construction with key operated, opposed blade, volume Dampers.
2. Furnish all registers with a factory applied, baked enamel finish. Color as selected by the Architect.
3. Registers shall be as manufactured by "MetalAire" Model RH, or equal in "Anemostat."
4. Verify frame types prior to ordering. Submit shop drawings, including color samples, for approval.
5. Where registers are installed in lay-in ceilings, twenty four by twenty four (24" x 24") filler panel shall be provided. For return/exhaust registers larger than 24" x 24" (i.e. 30" x 22"), provide properly sized filler panel.

2.04 PACKAGED ROOF MOUNTED AIR CONDITIONING UNIT (GAS HEAT)

A. General:

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a scroll or reciprocating compressor for cooling duty and gas combustion for heating duty. Unit shall discharge supply air downward as shown on contract drawings. Units shall be manufactured by Carrier or approved equal. Substitute manufacturers shall meet all ratings on drawings, including SEER, cooling BTUH, and heating AFUE. Any substitute product not meeting any of the stated performance and efficiency ratings on the drawings shall be rejected.

B. Design Standards:

1. Unit shall be rated in accordance with ARI Standards 270 and 360. Designed in accordance with UL Standard 1995.
2. Unit shall be designed to conform to ANSI/ASHRAE 15.
3. Unit shall be UL tested and certified in accordance with ANSI Z21.47 Standards and CSA or CGA certified as a total package.

4. Unit casing shall be capable of withstanding Federal Test Method Standard 141 (Method 6061) 500-hour salt spray test.
- C. Setup and Handling:
1. Unit shall be stored and handled per manufacturer's recommendations.
- D. Cabinet:
1. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a pre-painted baked enamel finish.
 2. Indoor blower compartment interior cabinet surfaces shall be insulated with a minimum 1/2 in. thick, flexible glass fiber insulation, coated on the air side. Aluminum foil faced glass fiber insulation shall be used in the furnace compartment.
 3. Cabinet panels shall be easily removable for servicing.
 4. Filters will be accessible through a hinged access panel.
 5. Holes shall be provided in the base rails for rigging shackles to facilitate overhead rigging.
 6. Unit shall have a factory-installed internal condensate drain trap providing a minimum 3/4-in. connection. Drain shall allow for no standing water accumulation per AHSRAE 62. Substitute manufacturers shall provide proof of compliance with ASHRAE 62.
- E. Fans:
1. Indoor Blower (Evaporator Fan):
 - a. All fans shall be belt driven and include an adjustable- pitch motor pulley.
 2. Condenser Fans shall be of the direct driven propeller type with corrosion-resistant blades riveted to corrosion-resistant steel supports. They shall be dynamically balanced and discharge air upwards.
- F. Compressor:
1. Hermetic type shall be factory rubber shock mounted and internally spring mounted for vibration isolation.
 2. Factory-installed crankcase heater to prevent refrigerant dilution of oil.
- G. Coils:
1. Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless copper tubes with all joints brazed.
- H. Heating Section:
1. Induced draft combustion type with energy saving direct spark ignition system and redundant main gas valve.
 2. The heat exchanger shall be of the tubular section type constructed of minimum of 20-gauge steel coated with a nominal 1.2-mil aluminum-silicone alloy for corrosion resistance.
- I. Refrigerant Components:
1. Fixed expansion device with filter driers.
- J. Filter Section:
1. FARR 30% disposable 2 inch filter or equal installed separately in RA duct and economizer outside air intake.

K. Controls and Safeties:

1. Unit Controls: Unit shall be complete with self-contained low-voltage control circuit protected by a manually resettable circuit breaker on the 24V side.
 - a. Economizer Control
 - b. Capacity control
2. Safeties:
 - a. Unit shall incorporate a solid-state compressor protector which provides reset capability at the space thermostat, should any of the following safety devices trip and shut off compressor:
 1. Compressor over temperature, over current.
 2. Low-pressure switch.
 3. Freezestat, evaporator coil.
 4. High-pressure switch.
 - b. Heating section shall be provided with the following minimum protections:
 1. High temperature limit switch.
 2. Induced draft motor centrifugal switch.
 3. Flame rollout switch (manual reset).
 4. Flame proving controls.
 5. Redundant Gas valve.
3. Operating Characteristics:
 - a. Unit shall be capable of starting and running at 115 degrees F ambient outdoor temperature per maximum load criteria of ARI Standard 360.
 - b. Compressor with standard controls shall be capable of cooling operation down to 25 degrees F outdoor ambient temperature.
 - c. Unit provided with fan time delay to prevent cold air delivery before heat exchanger warms up.
4. Electrical Requirements:
 - a. All unit power wiring shall enter unit cabinet at a single location.

L. Special Features:

1. Roof Curb: Formed 18 gauge galvanized steel shipped completely assembled with wood nailer strip, welded corners, and integral 2-in. spring isolation. Minimum curb height shall be 14 inches, including the spring isolation.

M. Integrated Economizer:

1. Integrated, fully modulating type field-installed capable of simultaneous economizer and compressor operation, to provide cooling with outside air.
2. Economizer shall be installed within the unit cabinet and equipped with centrifugal fan powered exhaust fan.
3. Provide FARR 30% disposable filter for OSA filtration.
4. Provide solid-state dual enthalpy control.

2.05 EXHAUST FANS (CEILING MOUNTED)

A. General

1. Fan shall be direct driven, ceiling mounted, with centrifugal blower.
2. See equipment schedule for capacities and duty of each exhaust fan to be provided and plans for layout details.
3. Fans shall be U.L. Listed and all electrical components shall carry the listing and comply with the State of California Electrical Code.
4. Fans shall be as manufactured by "Cook," or approved equal in "Greenheck" or "Penn."

B. Quality Assurance

1. Exhaust fans shall be design certified by AMCA.
2. All fans shall be statically and dynamically balanced.

C. Construction

1. The drive frame, bearing, and motor plates shall be constructed of mild gauge steel.

D. Motors

1. Motors shall be heavy duty, 1750 RPM, open drip-proof, horsepower and voltage as indicated on equipment schedule.
2. Motors shall be equipped with permanently lubricated, sealed ball bearings.

2.06 AUTOMATIC TEMPERATURE CONTROLS

A. Description: A complete system of automatic controls installed to control the equipment, consisting of a system of electronic and/or electric controls to provide the heating, ventilating and air conditioning results specified, as intended, and as shown on the drawings. All controls provided shall be the responsibility of a single manufacturer. The contractor shall furnish and install such additional material, equipment and appurtenances as required to make satisfactory operating Systems.

B. Work Included: The Mechanical Contractor shall be responsible for furnishing all the automatic temperature control devices as shown on the plans. He shall secure the services of the temperature control manufacturer to install all temperature control devices, except those specified as being furnished with other equipment. The temperature control manufacturer shall also-

1. Submit shop drawings of proposed temperature control system showing electrical interlocks with all mechanical equipment, list of materials being furnished, and a detailed description of the control sequence. These shop drawings shall completely show, in detail, all wiring, both control and power, for all heating and air conditioning equipment and systems. Failure to provide complete submittal will result in rejection of the product.
2. Instruct the electrician, sheet metal worker, and pipe fitter on the particular requirements of control devices for which each is responsible.
3. Calibrate all devices and make all final settings and test out control system under actual operating conditions for satisfactory operation.
4. Deliver and hang a copy of the control diagram, material list and control sequence, inclusive, on a permanent type of print, framed behind glass and mounted as directed by the Architect in the field. All control devices on the diagram shall be clearly labeled as to location and function.

5. Contact operating personnel, instruct them on the operation and maintenance of the control system and provide as hereinafter specified.
 6. All low voltage wiring shall be furnished and installed by the Mechanical Contractor. Conduit for low voltage wire shall be furnished and installed under the Electrical Section of the specifications.
- C. Work Not Included: All line voltage wiring, including conduit shall be under the Electrical Section of the specifications.

2.07 EQUIPMENT IDENTIFICATION

Equipment

1. Stenciled identification for each piece of equipment installed.
2. Equipment identification tags to match plan numbers.
3. Submit equipment stenciling for approval by Mechanical Engineer, prior to installation.

PART 3 -- EXECUTION

3.01 EXAMINATION

- A. Examine the areas and conditions under which work of this Section will be performed.
- B. Correct conditions detrimental to timely and proper completion of the Work.
- C. Do not proceed until unsatisfactory conditions are corrected.
- D. Beginning of installation means acceptance of conditions.

3.02 EQUIPMENT

- A. Regulation, Operation and Instruction
 1. Lubricate all bearings in accordance with manufacturer's recommendations and instructions.
 2. Check operation of all pumps, fans, motors, etc.
 3. The services of a qualified technician shall be made available for a continuous period of not less than seventy two (72) hours during business hours, at a time convenient to the owner to place the entire system into operation, supervise its operation, make all tests and adjustments, correct any and all defects and deficiencies and thoroughly instruct the owner's operators in the proper operation and maintenance of the entire system. Furnish complete test reports including all motor currents, static pressures, temperatures, fan speeds, and CFM to the Architect for review by the Mechanical Engineer.
 4. Furnish any additional operation, labor, and material that may be required during guarantee period.
 5. The contractor shall, during the guarantee period, and as directed by the owner, make any additional tests, adjustments, etc., that may be required and correct any deficiencies arising from the operation of the system.

3.03 OPERATING AND MAINTENANCE DATA

Data: Submit to the Architect for approval, prior to acceptance of the installation, complete and at one time. Partial or separate data will not be accepted. Data shall consist of the following--

1. **Manufacturer's Literature:** Six (6) copies of manufacturer's instructions for operation and maintenance of all equipment, valves, and controls; including replacement parts lists.
2. **Written Instruction:** Typewritten instruction for operation and maintenance of the system composed of Operation Instructions and Maintenance Instruction. Six (6) copies submitted to the Architect for approval.
 - a. Operating instructions shall contain a brief description of the system. Adjustments requiring the technical knowledge of the service agency personnel shall not be included in the operating instructions.
 - b. Maintenance instructions shall list each item (i.e. controls and mechanical equipment) requiring inspection, lubrication, or service and describe the performance of such maintenance.
3. **Verbal Instructions:** Operating personnel shall be instructed in the operation of the systems in accordance with typewritten instructions. No other verbal instructions shall be given.
4. **Binders:** Four (4) complete sets of the above data in looseleaf, ring type binders with permanent covers, with identification on inside cover.

3.04 SPECIAL REQUIREMENTS

- A. The manufacturer and/or supplier of all equipment shall certify in writing to the owner that this equipment complies with these specifications.
- B. All new equipment shall be anchored as required and/or as detailed on drawings.
- C. Written Certifications, in a form approved by the Mechanical Engineer shall be provided by the equipment manufacturer or his authorized representative:
 1. That the equipment and its installation was inspected on the job by the manufacturer and that the equipment is in first-class condition throughout, was installed in accordance with manufacturer's requirements and recommendations, and that the installation is approved by the manufacturer.
 2. That the equipment is operating in a safe and satisfactory manner and is delivering capacities and performance hereinbefore specified and/or indicated on the drawings.
- D. The following shall be certified as described above: Air-conditioning systems, evaporative coolers, suspended gas heaters, and exhaust fans.
- E. **Damage by Leaks:** The contractor shall be responsible for all damage to equipment and premises caused by leaks or breaks in piping or equipment for a period of one (1) year after date of final acceptance.
- F. Unless otherwise directed, and/or specified, and/or indicated, all materials and equipment shall be installed in accordance with the manufacturer's recommendations and instructions.
- G. Mechanical equipment shall bear the manufacturer's label or nameplate showing performance characteristics. Identifying size or model number shall be given only when not practicable or customary to show otherwise. All valves, pipe, and fittings shall bear the manufacturer's trademark or identifying markings.
- H. All materials of similar class or service shall be of one manufacturer.
- I. Duct layout as shown on the drawings is subject to modifications, by contractor, without extra cost as required to clear other items of construction. This contractor shall coordinate the work of this section with that of other sections as to avoid interferences by other crafts involved.

- J. Contractor shall visit site prior to bidding and fully acquaint himself with all conditions affecting installation of the proposed system. Failure to do so shall not relieve contractor of responsibility of providing complete, operational, and acceptable system.

3.05 COMPLETION

- A. When the installation is complete and adjustments specified herein are made, the system shall be operated for a period of one week, during which time it shall be demonstrated to the Mechanical Engineer as being completed and operating in conformance with these specifications.
- B. Record as-built drawings showing locations and size of all pipe and ducts as installed shall be kept up-to-date and available for inspection at all times during construction. These shall be signed by the General Contractor and Heating, Ventilating, and Air Conditioning Contractor to certify their accuracy and shall be submitted to the owner prior to final acceptance of the work.

***** END OF SECTION *****

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SECTION 16000

ELECTRICAL

PART 1-- GENERAL

1.01 SCOPE

- A. Provide all labor, materials, and equipment required to complete the electrical work shown on the Drawings and specified herein.
- B. A brief outline of these requirements includes, but is not limited to the following:
 - 1. Underground conduits, pullboxes, pads, vaults, etc. for power
 - 2. Electrical distribution equipment including switchgear
 - 3. Complete interior and exterior lighting, power, telephone, and cable television systems including branch circuit distribution as indicated.

1.02 LISTINGS AND CODES.

- A. All electrical materials and equipment shall be new and shall be listed by Underwriters Laboratories (UL) and bear their label, or listed and certified by a nationally recognized testing authority where UL does not have a listing. In addition, the materials, equipment, and installation shall comply with the requirements, where applicable, of the latest edition of the following:
 - 1. National Electrical Manufacturers Association (NEMA)
 - 2. American Standard Association (ASA)
 - 3. National Fire Protection Agency (NFPA)
 - 4. American National Standard Institute (ANSI)
 - 5. California Code of Regulation, Title 24 (CCR)
 - 6. National electrical code (NEC)
 - 7. All local and state codes having jurisdiction
- B. In cases where the codes have different levels of requirements, the most stringent rule shall apply.

1.03 SHOP DRAWINGS.

- A. Contractor shall submit to the architect for approval six (6) sets of a complete list and catalog cuts of all materials he proposes to provide for the electrical systems covered by these drawings. Each electrical item shall be identified by the manufacturer and trade name of the item as well as the description given on the electrical engineers plans. Unless otherwise specifically authorized by the electrical engineer, make all submittals in groups containing all associated items. The electrical engineer may reject partial submittals as not complying with the provisions of this section. No materials shall be delivered to the job until the list has been approved by the engineer. Acceptance or rejection of substitute materials shall be at the discretion of the engineer.
- B. Make all submittals in accordance with the general contractor's schedule of shop drawings and far enough in advance of scheduled dates of installation to provide required time for reviews, securing necessary approvals, possible revision and resubmittal, including placing orders and securing delivery.

1.04 LOCATIONS AND ACCESSIBILITY.

Work specified and not clearly defined by the Drawings shall be brought to the attention of the

electrical engineer prior to installation so that it may be installed and arranged in a satisfactory manner.

1.05 TESTING AND ADJUSTMENT.

- A. Upon completion of electrical work, adjust and test circuits, lights and other electrical items to insure proper operation of all electrical equipment.
- B. Check service voltages under maximum obtainable loads. Equipment, fixtures, and parts found to be in need of correction during such testing shall be immediately repaired or replaced with new equipment and that part of the system shall be retested. Such replacement or repair shall be done at no additional cost to the owner.
- C. All failures shall be corrected in a manner satisfactory to the engineer. The contractor shall furnish all necessary costs of retesting equipment and correcting failures.
- D. All electrical tests shall be witnessed by an inspector that shall have experience in electrical work, equal to that of an electrician having at least five (5) years experience as an I.B.E.W. journeyman.

1.06 LAYOUT AND INSTALLATION.

Layout and installation of electrical work shall be coordinated with the overall construction schedule and work schedule of various trades, to prevent delay in the completion of the project. Complete Drawings for the entire project shall be available at the job site. It shall be obligatory to thoroughly check these documents before organizing the electrical work schedule or installing material and equipment.

- 1. The electrical Drawings are diagrammatic in nature and indicate the preferred locations of outlets and equipment, and are to be followed as closely as possible. It is not within the scope of the Drawings to show all bends, offsets, pullboxes, and obstructions and it shall be the responsibility of the contractor to include such in the bid. The Drawings are not intended to be scaled, and the contractor shall refer to the architectural and structural Drawings for dimensions and limitations of the building structure, and to the mechanical Drawings for the location of equipment requiring electrical service and connections.
- 2. In the event that changes in the indicated locations or arrangements are necessary due to field conditions, such changes shall be made by the contractor without extra costs, providing the change has been approved by the architect before the work has been commenced and no additional materials are required. Contractor shall advise the architect of any required additional costs and have approval of same before proceeding.

1.07 WARRANTY.

The manufacturer's standard warranty shall in no event be for a period of less than two (2) years from date of initial start-up of the system and shall include repair parts, labor, reasonable travel expense necessary for repairs at the job site, and expendables (filters, and other service items made unusable by the defect) used during the course of repair. Running hours shall not be a limiting factor for the system warranty by either the manufacturer or servicing distributor. Submittals received without written warranties as specified will be rejected in their entirety.

1.08 SUBSTITUTIONS

Substitutions will be considered per Article of the General Conditions.

PART 2 -- PRODUCTS

2.01. DISTRIBUTION SERVICE EQUIPMENT AND PANELBOARDS.

- A. Panelboards shall as indicated on plans and shall conform to the requirements of the U.L.,

NEMA standard for panelboards. Fronts shall be finished to resist corrosion with not less than one priming coat and one finishing coat. Exposed parts of trim and doors shall be painted by others after installation. All branch circuit panelboard locks shall be "like keyed" with three keys furnished to owner. Adjacent poles of single pole devices shall be of a different phase with split phase bussing. Circuits shall be numbered from top to bottom with odd numbers on the left and even numbers on the right. The front shall include flush hinged door with lock, covering all breakers.

- B. Identification nameplates shall be provided of micarta 1/8" thick, of approved size, with bevelled edges and engraved white letters 1/4" high minimum on black background.

2.02. CONDUITS AND RACEWAYS.

- A. All conduits and raceways shall conform to U.L. standards as applicable.
- B. Electrical metallic tubing (EMT). No less than 1/2" trade size, 2" maximum trade size. E.M.T. may be used in dry locations only. Shall conform to U.L. standards as applicable.
- C. Rigid galvanized steel conduit (RGS). Shall be steel, galvanized or zinc coated full weight, no less than 1/2" trade size. Shall conform to U.L. standards as applicable.
- D. Liquid-tight flexible conduit. No less than 1/2" trade size, flexible, galvanized steel core completely encased in a polyvinyl chloride jacket. Shall conform to U.L. standards as applicable.
- E. Non-metallic polyvinyl chloride (PVC). No less than 3/4" trade size, schedule #40 unless noted otherwise. Sunlight resistant and rated for 90° c. Conductors. Shall conform to U.L. standards as applicable.
- F. Flexible metallic conduit. No less than 1/2" trade size, steel, formed from continuous strip and zinc coated. Shall conform to U.L. standards as applicable.

2.03. FITTINGS. Fittings and outlets for conduit systems shall conform to the following:

- A. Fittings for electrical metallic tubing (EMT) for sizes 1/2" through 2" shall be wrench tightened compression type which shall provide pull-on force resistance and electrical continuity as required by U.L. No indenting fittings or adjustable set screw type fittings shall be used.
- B. Fittings for rigid galvanized steel conduit (RGS) shall be steel, threaded fittings only. Split and "set screw" type fittings are not acceptable.
- C. Fittings for liquid-tight flexible conduit shall be of the compression type with threaded ferrule, sealing ring and suitable for wet locations.
- D. Fittings for PVC shall be non-metallic, sunlight resistant, and of the same compound as the conduits which they are being utilized with.
- E. Fittings for flexible metallic conduit shall be of the "squeeze" type with either one (1) or two (2) screws, cast or malleable steel, cadmium or zinc coated.

2.04. CONDUCTORS.

- A. Conductor sizes are specified by American Wire Gauge (AWG). Conductors shall be copper. Wire sizes #10 and larger shall be stranded conductor. However, control and signal systems may be wired with #14 stranded. Insulation for wiring shall be 600 volt type "THWN", 75° c. Rated for dry or wet locations or type "THHN", 90° c. Rated for dry locations.
- B. Conductor sizes shall be as indicated; where sizes are not indicated they shall be as required by code. All wiring shall be color coded for phase identification as follows:

120/208V. 3Phase, 4W.

Phase A = Black

Phase B = Red

277/480V. 3Phase, 4W.

Phase A = Brown

Phase B = Orange

Phase C = Blue

Phase C = Yellow

Neutral = White

Neutral = Grey

Ground = Green

Ground = Green

- C. Make splices for conductors #8 and smaller with steel or copper spring insulated wire nuts. Splices for conductors #6 or larger shall be with split bolts or "Kearney's" which when used shall be thoroughly insulated.
- D. The green ground wire shown on conduit runs shall run continuous from panel to last outlet. This wire shall be pigtailed in each outlet for connection to box and device so that if the device is removed, the ground will not be interrupted.

2.05. OUTLET BOXES.

Pull boxes shall be sized for the number and size of conductors and conduits entering the box and equipped with plaster/extension rings where required. All boxes shall be labeled to indicate panel and circuit number of conductors contained within. In no case shall any box be less than 4" round or square. Unless specifically noted otherwise, outlet boxes for concealed work shall be galvanized or sherardized, one piece, pressed steel, with knockouts as required.

2.06. PULL BOXES.

Sizes as indicated on the Drawings and per utility company requirements, but in no case of less size or material thickness than required by the governing code in-ground. Pull boxes located in or around vehicular traffic areas shall be provided with traffic rated covers and shall be placed to avoid surface water flow areas. All covers shall be permanently identified as to the type of service contained therein (IE: power, communications, etc.) Above-ground boxes located in damp or wet areas shall be rated NEMA 3R.

2.07. DISCONNECTS.

- A. Manual motor starter switches shall be toggle type on/off, as required for control of single and three phase motors and resistance heater loads. Switches shall be side wired and be complete with oversize silver contacts. Shall be U.L. listed as applicable
- B. Safety switches shall be heavy-duty industrial type. Switches shall be fused or nonfused as indicated on the Drawings. Enclosures shall be rated either NEMA 1 or NEMA 3R as required by installation. Units shall be quick make, quick break with operating handle which can be padlocked in the "off" position. Finish shall be a standard light gray enamel. Switches shall have affixed to covers, a nameplate indicating what item is controlled by switch.
 - 1. Fuses shall be of correct rating for each installation, and shall be either current limiting or multi-element time delay as required by equipment manufacturers recommendation. Shall be U.L. listed.
- A. Sealing of devices in hazardous areas are to be treated per NEC Article 500

2.08. PULL WIRES.

Install an unspliced pull line in all empty conduits. Pull line shall be a 3/16" braided polypropylene line.

2.09. GROUND RODS.

Provide steel centered copper clad ground rods as required per NEC 250. Minimum length shall be 3/4" x 8', driven nearly full length into the earth with no more than 2" left above grade for proper connection to the grounding conductor(s). The resistance of a made electrode must comply with NEC 250-36.

PART 3 -- EXECUTION

3.01 EXAMINATION

- A. Examine the areas and conditions under which work of this Section will be performed.
- B. Correct conditions detrimental to timely and proper completion of the Work.
- C. Do not proceed until unsatisfactory conditions are corrected.
- D. Beginning of installation means acceptance of conditions.

3.02 GENERAL.

Any cutting, patching or finish repair of the work or work of other trades necessary for the installation of the electrical work shall be provided under this section.

3.03 MISCELLANEOUS.

- A. Provide trenching, concrete encasement when required, backfilling and compaction for all underground conduits and/or structures. Compaction must meet General Contractor requirements.
- B. Provide footings for all post and/or pole-mounted lighting fixtures: concrete shall conform to the applicable sections of this specification and local codes having jurisdiction.
- C. Structural and miscellaneous steel used in connection with electrical work and located out-of-doors or in damp locations, shall be galvanized unless noted otherwise. Included are underground pullbox covers, unistrut bracing and similar electrical items.
- D. Flashings shall be provided at all points where conduit or other electrical components penetrate the roof. Flashings shall extend a minimum of 5" above the surrounding roof surface with weatherproof mastic applied, to prevent moisture or dust from entering the opening. Flashings shall be delivered to the roofing contractor for installation. The correct location of all such penetrations shall be verified by the contractor.
- E. Provide sleeves under walls, concrete footings and foundations. Sleeves shall have an inside diameter of not less than 1" larger than the outside diameter of conduit contained therein.

3.04 CONDUIT.

- A. Conduit for line voltage wiring shall be concealed within finished walls, ceilings and under/in floors. Exposed conduits above ceilings and surface mounted in mechanical and service areas shall be installed parallel or perpendicular to the building walls. Right angle turns shall consist of conduit bodies or symmetrical bends. All conduits shall be properly secured with components specifically manufactured for this use. All conduits shall be sized in accordance with fill capacities set forth in NEC Article 348.
- B. Electrical metallic tubing (EMT), Do not embed EMT in concrete or below grade. EMT may be used where concealed or where not subject to damage.
- C. Rigid galvanized steel conduit (RGS) shall be used in mechanical rooms, where conduit passes through concrete slabs on grade and where subject to physical damage.
- D. Flexible metallic conduit shall be used for final connections to all vibrating and mechanical equipment. A code gauge green insulated equipment grounding conductor shall be installed in such conduits. Flexible metallic conduit may be used in length's of less than 6' for connecting fixtures, provided that a code gauge insulated grounding conductor is provided. Liquid-tight flexible conduit shall be used for all damp or wet locations.
- E. Polyvinyl chloride conduit (PVC) shall only be used underground at depth per code, unless otherwise noted, below finished grade when not installed under a concrete slab or footing. Provide a code gauge green ground wire in all PVC runs. All underground conduit runs shall terminate with pre-manufactured bell ends at all manholes and pull boxes.
- F. Conduit ends shall be cut square and shall be carefully reamed out to full size with a tapered burring reamer and shouldered to the fittings.
- G. Bends in conduit shall be made so that the conduit will not be damaged, and that the internal

diameter of the conduit will not be effectively reduced. The radius of the curve of the inner edge shall not be less than shown in table 346-10 of the NEC.

- H. Conduit supports shall be provided for all above ground systems. Conduit shall be securely supported and fastened per the NEC and local jurisdiction
- I. Conduit shall not run closer than 6" to any hot water pipe, steam pipe, heater flue, or vent.
- J. Condulets shall be used where conduit runs must go around outside corners of walls, beams, equipment, etc. All condulet covers shall be accessible.
- K. All conduits entering or leaving the building shall be sealed per NEC requirements.
- L. All conduits entering the building from a hazardous area must be sealed per NEC Article 500.

3.05 CONDUCTORS AND TERMINATIONS.

- A. Wire and cable shall be continuous from outlet to outlet, with the splices only in junction boxes, gutters, equipment or other approved locations.
- B. Make splices, joints, taps and connections to equipment with approved solderless lugs sized for the wire or conductor involved.
- C. Identify power and lighting feeders with permanent tags at panels, pull boxes and points where conduit run is broken.
- D. Installation. Thoroughly clean conduit and wireways to insure all parts are perfectly dry before pulling wires. Use approved wire pulling compound for sizes #2 or larger, and on long runs.
- E. Wire or cable bends in junction and/or pullboxes shall be made with a long radius. Bends for cable shall have a radius of not less than 8 times the diameter of the cable. Per N.E.C. Section 300-34.
- F. Conductors #12 and smaller shall be provided with eye or forked type compression set connectors when conductors are terminated on a set screw type terminal.

3.06 DEVICE AND JUNCTION BOXES.

- A. Concealed outlet boxes shall be accurately placed, flush with the finished surface of wall or ceiling, unless otherwise indicated. They shall be plumb and rigidly fastened to the structure, independent of the conduit, by a bar hanger or strap approved for that particular use.
- B. Outlet boxes in furred ceiling shall be rigidly fastened to the supporting structure by an approved bar type hanger or blocking.
- C. Control apparatus, outlet boxes, junction and/or pullboxes, and other similar equipment shall be installed and maintained in accessible positions and locations.
- D. Wall outlets shall not be wired back-to-back, boxes on opposite sides of a common wall shall be separated by a stud. Provide a minimum of 24" of separation in acoustic and fire rated walls.
- E. Cast steel or aluminum outlet boxes shall be used for all surface mounting in damp or wet locations. Boxes shall be complete with threaded hubs and weatherproof covers.
- F. Provide multi-gang boxes where required, sectional or gangable boxes shall not be permitted.

3.07 GROUNDING.

All Grounding shall be in accordance with NEC Article 250

3.08 IDENTIFICATION.

- A. In addition to nameplates and governing codes for switchboards, panelboards, transformers, etc. The following shall be labeled to indicate function or use.
- B. Panelboards shall be provided with a typed circuit directory mounted in a holder on the inside

of the cabinet door. Nameplates shall be provided for all circuits in the service distribution and branch distribution boards, motor control centers, lighting control panels, separately mounted starting switches, disconnection switches. Motor control push-button stations, selector switches, transformers, terminal cabinets, telephone cabinets, etc. These nameplates shall have the same identification names as indicated on the plans.

3.09 CONNECTIONS TO EQUIPMENT.

The contractor shall connect all owner, mechanical and plumbing contractor supplied equipment requiring electrical connections throughout the building.

3.010 FINISH.

Panelboards shall be finished prime coat on exposed trim and door. Final finish will be determined by architect and provided by others.

3.011 PROTECTION AND RESPONSIBILITY.

The contractor shall protect all work, materials, and equipment from damage. Provide adequate and proper storage facilities during progress of work and be fully responsible for all injury or damage that may occur from any part of his work function.

3.012 CLEAN-UP.

Upon completion of work, and periodically as required for safety and sanitation, remove all trash and debris resulting from work under this section.

3.013 OPERATION AND MAINTENANCE INSTRUCTIONS.

Fully instruct and demonstrate to the owner's operating personnel the performance, operation and maintenance of equipment. The time allowed for said instruction shall be included as part of these contract documents.

3.014 FINAL REVIEW AND ACCEPTANCE.

Upon stated completion of contract, work shall be subject to review by representatives of owner, architect and engineer for adherence to contract Drawings and specifications. Any changes required to bring work into substantial conformance with Drawings and specifications shall be made by the contractor at no additional cost to the owner.

3.015 RECORD DRAWINGS.

Provide and maintain in good order a complete set of electrical contract prints. All changes shall be clearly recorded on this set of prints. At the end of the project, the contractor shall transfer all changes to one set of transparencies for submission to the architect. Accurate complete electrical contract prints shall be provided by the contractor to the architect when requested and at cost of printing. Upon completion of the work, deliver to the architect one complete set of final prints of the transparencies and the transparencies themselves, with complete installation and changes in the work indicated thereon. All sheets shall be dated and initialed by the contractor as being a correct and accurate record of the installation.

"END OF SECTION"

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SECTION 16721
FIRE ALARM SYSTEMS

PART 1 -- GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes fire alarm systems.
- B. Related Sections include the following:
 - 1. Division 08 Section "Door Hardware" for door closers and holders with associated smoke detectors, electric door locks, and release devices that interface with the fire alarm system.
- C. This specification represents the County's minimum requirements for a complete, proper, approved and operating Fire Protection System. Contractor shall be responsible for a design-build Fire Protection System including compliance with all applicable codes and requirements of the agency having jurisdiction (County of Riverside Fire Dept). Contractor to create required drawings and submit to the agency having jurisdiction for plan check and approval and shall acquire a permit and perform all installation, coordination, inspections and testing, as well as provide all materials and services necessary for a complete, approved and operational Fire Protection System.

1.03 DEFINITIONS

- A. FACP: Fire alarm control panel.
- B. LED: Light-emitting diode.
- C. NICET: National Institute for Certification in Engineering Technologies.
- D. Definitions in NFPA 72, 1999 Edition, apply to fire alarm terms used in this Section.

1.04 SYSTEM DESCRIPTION

Noncoded, analog-addressable system; automatic sensitivity control of certain smoke detectors; and multiplexed signal transmission dedicated to fire alarm service only.

- 1. Interface with existing fire alarm system.

1.05 PERFORMANCE REQUIREMENTS

- A. Comply with NFPA 72, 1999 Edition, CBC, CFC & Titles 19 and 24 CCR.
- B. Fire alarm signal initiation shall be by one or more of the following devices:

1. Manual stations.
2. Heat detectors.
3. Flame detectors.
4. Smoke detectors.
5. Verified automatic alarm operation of smoke detectors.
6. Automatic sprinkler system water flow.
7. Fire extinguishing system operation.
8. Fire standpipe system.
9. Duct smoke detectors.
10. Tamper switch
11. Flow switch

C. Fire alarm signal shall initiate the following actions:

1. Alarm notification appliances shall operate continuously.
2. Identify alarm at the FACP and remote annunciators.
3. De-energize electromagnetic door holders.
4. Transmit an alarm signal to the remote alarm receiving station.
5. Unlock electric door locks in designated egress paths.
6. Release fire and smoke doors held open by magnetic door holders.
7. Activate voice/alarm communication system.
8. Switch heating, ventilating, and air-conditioning equipment controls to fire alarm mode.
9. Close smoke dampers in air ducts of system serving zone where alarm was initiated.
10. Record events in the system memory.
11. Record events by the system printer.
12. Sound fire sprinkler bell (as applicable)

D. Supervisory signal initiation shall be by one or more of the following devices or actions:

1. Operation of a fire-protection system valve tamper.

E. System trouble signal initiation shall be by one or more of the following devices or actions:

1. Open circuits, shorts and grounds of wiring for initiating device, signaling line, and notification-appliance circuits.
2. Opening, tampering, or removal of alarm-initiating and supervisory signal-initiating devices.
3. Loss of primary power at the FACP.
4. Ground or a single break in FACP internal circuits.
5. Abnormal ac voltage at the FACP.

6. A break in standby battery circuitry.
 7. Failure of battery charging.
 8. Abnormal position of any switch at the FACP or annunciator.
 9. Fire-pump power failure, including a dead-phase or phase-reversal condition.
 10. Low-air-pressure switch operation on a dry-pipe or preaction sprinkler system.
- F. System Trouble and Supervisory Signal Actions: Ring trouble bell and annunciate at the FACP and remote annunciators. Record the event on system printer.

1.06 SUBSTITUTIONS

Substitutions will be considered per Article 5.3 of the General Conditions.

1.07 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings:
1. Shop Drawings shall be prepared by persons with the following qualifications:
 - a. Trained and certified by manufacturer in fire alarm system design.
 - b. Fire alarm certified by NICET, minimum Level III.
 2. System Operation Description: Detailed description for this Project, including method of operation and supervision of each type of circuit and sequence of operations for manually and automatically initiated system inputs and outputs. Manufacturer's standard descriptions for generic systems are not acceptable.
 3. Device Address List: Coordinate with final system programming.
 4. System riser diagram with device addresses, conduit sizes, and cable and wire types and sizes.
 5. Wiring Diagrams: Power, signal, and control wiring. Include diagrams for equipment and for system with all terminals and interconnections identified. Show wiring color code.
 6. Batteries: Size calculations.
 7. Duct Smoke Detectors: Performance parameters and installation details for each detector, verifying that each detector is listed for the complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
 8. Ductwork Coordination Drawings: Plans, sections, and elevations of ducts, drawn to scale and coordinating the installation of duct smoke detectors and access to them. Show critical dimensions that relate to placement and support of sampling tubes, the detector housing, and remote status and alarm indicators. Locate detectors according to manufacturer's written recommendations.
 9. Voice/Alarm Signaling Service: Equipment rack or console layout, grounding schematic, amplifier power calculation, and single-line connection diagram.
 10. Floor Plans: Indicate final outlet locations showing address of each addressable device. Show size and route of cable and conduits.

11. Voltage Drop Calculations
 12. Fire alarm devices system equipment list describing functions and CSFM listing number
- C. Qualification Data: For Installer.
- D. Field quality-control test reports.
- E. Operation and Maintenance Data: For fire alarm system to include in emergency, operation, and maintenance manuals. Comply with NFPA 72, Appendix A, recommendations for Owner's manual. Include abbreviated operating instructions for mounting at the FACP.
- F. Submittals to Authorities Having Jurisdiction: In addition to distribution requirements for submittals specified in Division 01 Section "Submittals," make an identical submittal to authorities having jurisdiction. To facilitate review, include copies of annotated Contract Drawings as needed to depict component locations. Resubmit if required to make clarifications or revisions to obtain approval. On receipt of comments from authorities having jurisdiction, submit them to Architect for review.
- G. Documentation:
1. Approval and Acceptance: Provide the "Record of Completion" form according to NFPA 72 to Owner, Architect, and authorities having jurisdiction.
 2. Record of Completion Documents: Provide the "Permanent Records" according to NFPA 72 to Owner, Architect, and authorities having jurisdiction. Format of the written sequence of operation shall be the optional input/output matrix.
 - a. Hard copies on paper to Owner, Architect, and authorities having jurisdiction.
 - b. Electronic media may be provided to Architect and authorities having jurisdiction.

1.08 QUALITY ASSURANCE

- A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in CEC Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.09 PROJECT CONDITIONS

Interruption of Existing Fire Alarm Service: Do not interrupt fire alarm service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary guard service according to requirements indicated:

1. Notify Architect no fewer than fourteen days in advance of proposed interruption of fire alarm service.
2. Do not proceed with interruption of fire alarm service without Architect's and Owner's written permission.

1.010 SEQUENCING AND SCHEDULING

- A. Existing Fire Alarm Equipment: Maintain fully operational until new equipment has been tested and accepted. As new equipment is installed, label it "NOT IN SERVICE" until it is accepted. Remove labels from new equipment when put into service and label existing fire alarm equipment "NOT IN SERVICE" until removed from the building.
- B. Equipment Removal: After acceptance of the new fire alarm system, remove existing disconnected fire alarm equipment.

1.011 EXTRA MATERIALS

Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

- 1. Lamps for Remote Indicating Lamp Units: Quantity equal to 10 percent of amount installed, but not less than 1 unit.
- 2. Lamps for Strobe Units: Quantity equal to 10 percent of amount installed, but not less than 1 unit.
- 3. Smoke, Fire, and Flame Detectors: Quantity equal to 10 percent of amount of each type installed, but not less than 1 unit of each type.
- 4. Detector Bases: Quantity equal to 2 percent of amount of each type installed, but not less than 1 unit of each type.
- 5. Keys and Tools: One extra set for access to locked and tamperproofed components.
- 6. Audible and Visual Notification Appliances: One of each type installed.
- 7. Fuses: Two of each type installed in the system.

PART 2 -- PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. FACP and Equipment:
 - a. Fire Control Instruments, Inc.; a GE-Honeywell Company.
 - b. Or approved equal
 - 2. Wire and Cable:
 - a. Belden, West Penn Wire/CDT; a division of Cable Design Technologies.
 - b. Or approved equal.
 - 3. Audible and Visual Signals:
 - a. Wheelock Inc..

- b. Or approved equal

2.02 EXISTING FIRE ALARM SYSTEM

- A. Compatibility with Existing Equipment: Fire alarm system and all components shall operate as an extension of an existing system.
- B. Contractor is responsible to provide and install new equipment that will properly interface and operate with the existing Systems 3 FACP by Pyrotronics and meet all requirements of the agency having jurisdiction.

2.03 MANUAL FIRE ALARM BOXES

Description: UL 38 listed; finished in red with molded, raised-letter operating instructions in contrasting color. Station shall show visible indication of operation. Mounted on recessed outlet box; if indicated as surface mounted, provide manufacturer's surface back box.

- 1. Single-action mechanism, breaking-glass or plastic-rod or pull-lever type. With integral addressable module, arranged to communicate manual-station status (normal, alarm, or trouble) to the FACP.
- 2. Double-action mechanism requiring two actions to initiate an alarm, breaking-glass or plastic-rod or pull-lever type. With integral addressable module, arranged to communicate manual-station status (normal, alarm, or trouble) to the FACP.
- 3. Station Reset: Key- or wrench-operated switch.
- 4. Indoor Protective Shield: Factory-fabricated clear plastic enclosure, hinged at the top to permit lifting for access to initiate an alarm. Lifting the cover actuates an integral battery-powered audible horn intended to discourage false-alarm operation.
- 5. Weatherproof Protective Shield: Factory-fabricated clear plastic enclosure, hinged at the top to permit lifting for access to initiate an alarm.

2.04 SYSTEM SMOKE DETECTORS

- A. General Description:
 - 1. UL 268 listed, operating at 24-V dc, nominal.
 - 2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to the FACP.
 - 3. Multipurpose type, containing the following:
 - a. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to the FACP.
 - b. Piezoelectric sounder rated at 88 dBA at 10 feet (3 m) according to UL 464.
 - c. Heat sensor, combination rate-of-rise and fixed temperature.
 - 4. Plug-in Arrangement: Detector and associated electronic components shall be mounted in a plug-in module that connects to a fixed base. Provide terminals in the fixed base for connection of building wiring.
 - 5. Self-Restoring: Detectors do not require resetting or readjustment after actuation

to restore them to normal operation.

6. Integral Visual-Indicating Light: LED type. Indicating detector has operated and power-on status.
7. Remote Control: Unless otherwise indicated, detectors shall be analog-addressable type, individually monitored at the FACP for calibration, sensitivity, and alarm condition, and individually adjustable for sensitivity from the FACP.
 - a. Rate-of-rise temperature characteristic shall be selectable at the FACP for 15 or 20 deg F (8 or 11 deg C) per minute.
 - b. Fixed-temperature sensing shall be independent of rate-of-rise sensing and shall be settable at the FACP to operate at 135 or 155 deg F (57 or 68 deg C).
 - c. Provide multiple levels of detection sensitivity for each sensor.

B. Photoelectric Smoke Detectors:

1. Sensor: LED or infrared light source with matching silicon-cell receiver.
2. Detector Sensitivity: Between 2.5 and 3.5 percent/foot (0.008 and 0.011 percent/mm) smoke obscuration when tested according to UL 268A.

C. Duct Smoke Detectors:

1. Photoelectric Smoke Detectors:
 - a. Sensor: LED or infrared light source with matching silicon-cell receiver.
 - b. Detector Sensitivity: Between 2.5 and 3.5 percent/foot (0.008 and 0.011 percent/mm) smoke obscuration when tested according to UL 268A.
2. UL 268A listed, operating at 24-V dc, nominal.
3. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to the FACP.
4. Plug-in Arrangement: Detector and associated electronic components shall be mounted in a plug-in module that connects to a fixed base. The fixed base shall be designed for mounting directly to the air duct. Provide terminals in the fixed base for connection to building wiring.
 - a. Weatherproof Duct Housing Enclosure: UL listed for use with the supplied detector. The enclosure shall comply with NEMA 250 requirements for Type 4X.
5. Self-Restoring: Detectors shall not require resetting or readjustment after actuation to restore them to normal operation.
6. Integral Visual-Indicating Light: LED type. Indicating detector has operated and power-on status. Provide remote status and alarm indicator and test station where indicated.
7. Remote Control: Unless otherwise indicated, detectors shall be analog-addressable type, individually monitored at the FACP for calibration, sensitivity, and alarm condition, and individually adjustable for sensitivity from the FACP.
8. Each sensor shall have multiple levels of detection sensitivity.
9. Sampling Tubes: Design and dimensions as recommended by manufacturer for the specific duct size, air velocity, and installation conditions where applied.

10. Relay Fan Shutdown: Rated to interrupt fan motor-control circuit.

2.05 HEAT DETECTORS

- A. General: UL 521 listed.
- B. Heat Detector, Combination Type: Actuated by either a fixed temperature of 135 deg F (57 deg C) or rate-of-rise of temperature that exceeds 15 deg F (8 deg C) per minute, unless otherwise indicated.
 1. Mounting: Plug-in base, interchangeable with smoke-detector bases.
 2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to the FACP.
- C. Heat Detector, Fixed-Temperature Type: Actuated by temperature that exceeds a fixed temperature of 190 deg F (88 deg C).
 1. Mounting: Adapter plate for outlet box mounting or Plug-in base, interchangeable with smoke-detector bases.
 2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to the FACP.
- D. Continuous Linear Heat-Detector System: Consists of detector cable and control unit.
 1. Detector Cable: Rated detection temperature 155 deg F (68 deg C). Listed for "regular" service and a standard environment. Cable includes two steel actuator wires twisted together with spring pressure, wrapped with protective tape, and finished with PVC outer sheath. Each actuator wire is insulated with heat-sensitive material that reacts with heat to allow the cable twist pressure to short circuit wires at the location of elevated temperature.
 2. Control Unit: Two-zone or multizone unit as indicated. Provides same system power supply, supervision, and alarm features as specified for the central FACP.
 3. Signals to the Central FACP: Any type of local system trouble is reported to the central FACP as a composite "trouble" signal. Alarms on each detection zone are individually reported to the central FACP as separately identified zones.
 4. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to the FACP.

2.06 NOTIFICATION APPLIANCES

- A. Description: Equipped for mounting as indicated and with screw terminals for system connections.
 1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly.
 2. Revise sound-level values in first four paragraphs below to comply with local interpretations of ADA requirements.
- B. Bells: Electric-vibrating, 24-V dc, under-dome type; with provision for housing the operating mechanism behind the bell. Bells shall produce a sound-pressure level of 94 dBA, measured 10 feet (3 m) from the bell. 10-inch (254-mm) size, unless otherwise indicated. Bells are weatherproof where indicated.

- C. Chimes, Low-Level Output: Vibrating type, 75-dBA minimum rated output.
- D. Chimes, High-Level Output: Vibrating type, 81-dBA minimum rated output.
- E. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Horns shall produce a sound-pressure level of 95 dBA, measured 10 feet (3 m) from the horn.
- F. Visible Alarm Devices: Xenon strobe lights listed under UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch- (25-mm-) high letters on the lens.
 - 1. Rated Light Output: candela as indicated on drawings.
 - 2. Strobe Leads: Factory connected to screw terminals.

2.07 FIREFIGHTERS' TWO-WAY TELEPHONE COMMUNICATION SERVICE

N/A

2.08 REMOTE ANNUNCIATOR

- A. Description: Duplicate annunciator functions of the FACP for alarm, supervisory, and trouble indications. Also duplicate manual switching functions of the FACP, including acknowledging, silencing, resetting, and testing.
 - 1. Mounting: Flush cabinet, NEMA 250, Class 1, as applicable.
- B. Display Type and Functional Performance: Alphanumeric display same as the FACP. Controls with associated LEDs permit acknowledging, silencing, resetting, and testing functions for alarm, supervisory, and trouble signals identical to those in the FACP.

2.09 ADDRESSABLE INTERFACE DEVICE

- A. Description: Microelectronic monitor module listed for use in providing a system address for listed alarm-initiating devices for wired applications with normally open contacts.
- B. Integral Relay: Capable of providing a direct signal to the elevator controller to initiate elevator recall and to a circuit-breaker shunt trip for power shutdown.

2.010 DIGITAL ALARM COMMUNICATOR TRANSMITTER

- A. Listed and labeled according to UL 632.
- B. Functional Performance: Unit receives an alarm, supervisory, or trouble signal from the FACP, and automatically captures one or two telephone lines and dials a preset number for a remote central station. When contact is made with the central station(s), the signal is transmitted. The unit supervises up to two telephone lines. Where supervising 2 lines, if service on either line is interrupted for longer than 45 seconds, the unit initiates a local trouble signal and transmits a signal indicating loss of telephone line to the remote alarm receiving station over the remaining line. When telephone service is restored, unit automatically reports that event to the central station. If service is lost on both telephone lines, the local trouble signal is initiated.
- C. Secondary Power: Integral rechargeable battery and automatic charger. Battery

capacity is adequate to comply with NFPA 72 requirements.

- D. Self-Test: Conducted automatically every 24 hours with report transmitted to central station.

2.011 GUARDS FOR PHYSICAL PROTECTION

Description: Welded wire mesh of size and shape for the manual station, smoke detector, gong, or other device requiring protection.

1. Factory fabricated and furnished by manufacturer of the device.
2. Finish: Paint of color to match the protected device.

2.012 WIRE AND CABLE

- A. Wire and cable for fire alarm systems shall be UL listed and labeled as complying with CEC, Article 760.
- B. Signaling Line Circuits: To be compatible with existing FACP. Twisted, shielded pair, No. 14 AWG or as indicated on drawings.
 1. Circuit Integrity Cable: Twisted shielded pair, CEC Article 760, Classification CI, for power-limited fire alarm signal service. UL listed as Type FPL, and complying with requirements in UL 1424 and in UL 2196 for a 2-hour rating.
- C. Non-Power-Limited Circuits: Solid-copper conductors with 600-V rated, 75 deg C, color-coded insulation.
 1. Low-Voltage Circuits: No. 16 AWG, minimum.
 2. Line-Voltage Circuits: No. 12 AWG, minimum.
 3. Multiconductor Armored Cable: CEC Type MC, copper conductors, TFN/THHN conductor insulation, copper drain wire, copper armor with outer jacket with red identifier stripe, UL listed for fire alarm and cable tray installation, plenum rated, and complying with requirements in UL 2196 for a 2-hour rating.

PART 3 -- EXECUTION

3.01 EQUIPMENT INSTALLATION

- A. Connecting to Existing Equipment: Verify that existing fire alarm system is operational before making changes or connections.
 1. Connect new equipment to the existing control panel in the existing part of the building.
 2. Connect new equipment to the existing monitoring equipment at the Supervising Station.
 3. Expand, modify, and supplement the existing control equipment as necessary to extend the existing control functions to the new points. New components shall be capable of merging with the existing configuration without degrading the performance of either system.
- B. Smoke or Heat Detector Spacing:

- C. Edit first subparagraph below to indicate how Contractor shall determine detector spacing.
 - 1. Smooth ceiling spacing shall not exceed 30 feet (9 m) and the rating of the detector.
 - 2. Spacing of heat detectors for irregular areas, for irregular ceiling construction, and for high ceiling areas, shall be determined according to Appendix A in NFPA 72.
 - 3. Spacing of heat detectors shall be determined based on guidelines and recommendations in NFPA 72.
 - 4. See Editing Instruction No. 13 in the Evaluations for discussion of placement of smoke detectors with respect to HVAC air inlets and outlets.
- D. HVAC: Locate detectors not closer than 3 feet (1 m) from air-supply diffuser or return-air opening.
- E. Duct Smoke Detectors: Comply with NFPA 72, NFPA 90A and CMC. Install sampling tubes so they extend the full width of the duct.
- F. Heat Detectors in Elevator Shafts: Coordinate temperature rating and location with sprinkler rating and location.
- G. Single-Station Smoke Detectors: Where more than one smoke alarm is installed within a dwelling or suite, they shall be connected so that the operation of any smoke alarm causes the alarm in all smoke alarms to sound.
- H. Remote Status and Alarm Indicators: Install near each smoke detector and each sprinkler water-flow switch and valve-tamper switch that is not readily visible from normal viewing position.
- I. Audible Alarm-Indicating Devices: Install not less than 6 inches (150 mm) below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille.
- J. Visible Alarm-Indicating Devices: Install adjacent to each alarm bell or alarm horn and at least 6 inches (150 mm) below the ceiling.
- K. Device Location-Indicating Lights: Locate in public space near the device they monitor.
- L. FACP: Surface mount with tops of cabinets not more than 72 inches (1830 mm) above the finished floor.
- M. Annunciator: Install with top of panel not more than 72 inches (1830 mm) above the finished floor.

3.02 WIRING INSTALLATION

- A. Install wiring according to the following:
 - 1. NECA 1.
 - 2. TIA/EIA 568-A.
 - 3. CEC

- B. Wiring Method: Install wiring in metal raceway according to Division 16 Section "Raceway and Boxes for Electrical Systems."
1. Fire alarm circuits and equipment control wiring associated with the fire alarm system shall be installed in a dedicated raceway system. This system shall not be used for any other wire or cable.
- C. Wiring Method:
1. Cables and raceways used for fire alarm circuits, and equipment control wiring associated with the fire alarm system, may not contain any other wire or cable.
 2. Fire-Rated Cables: Use of 2-hour fire-rated fire alarm cables, CEC Types MI and CI, is not permitted.
 3. Signaling Line Circuits: Power-limited fire alarm cables shall not be installed in the same cable or raceway as signaling line circuits.
- D. Wiring within Enclosures: Separate power-limited and non-power-limited conductors as recommended by manufacturer. Install conductors parallel with or at right angles to sides and back of the enclosure. Bundle, lace, and train conductors to terminal points with no excess. Connect conductors that are terminated, spliced, or interrupted in any enclosure associated with the fire alarm system to terminal blocks. Mark each terminal according to the system's wiring diagrams. Make all connections with approved crimp-on terminal spade lugs, pressure-type terminal blocks, or plug connectors.
- E. Cable Taps: Use numbered terminal strips in junction, pull, and outlet boxes, cabinets, or equipment enclosures where circuit connections are made.
- F. Color-Coding: Color-code fire alarm conductors differently from the normal building power wiring. Use one color-code for alarm circuit wiring and a different color-code for supervisory circuits. Color-code audible alarm-indicating circuits differently from alarm-initiating circuits. Use different colors for visible alarm-indicating devices. Paint fire alarm system junction boxes and covers red.
- G. Risers: Install at least two vertical cable risers to serve the fire alarm system. Separate risers in close proximity to each other with a minimum 1-hour-rated wall, so the loss of one riser does not prevent the receipt or transmission of signals from other floors or zones.
- H. Wiring to Remote Alarm Transmitting Device: 1-inch (25-mm) conduit between the FACP and the transmitter. Install number of conductors and electrical supervision for connecting wiring as needed to suit monitoring function.

3.03 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals according to Division 16 Section "Identification for Electrical Systems."
- B. Install instructions frame in a location visible from the FACP.
- C. Paint power-supply disconnect switch red and label "FIRE ALARM."

3.04 GROUNDING

Ground the FACP and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to the FACP.

3.05 FIELD QUALITY CONTROL

- A. **Manufacturer's Field Service:** Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and to assist in field testing. Report results in writing.
- B. **Testing Agency:** Owner may engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- C. **Testing Agency:** The contractor shall engage a qualified testing and inspecting agency to perform the following field tests and inspections and prepare test reports:
- D. **Perform the following field tests and inspections and prepare test reports:**
 - 1. Before requesting final approval of the installation, submit a written statement using the form for Record of Completion shown in NFPA 72.
 - 2. Perform each electrical test and visual and mechanical inspection listed in NFPA 72. Certify compliance with test parameters. All tests shall be conducted under the direct supervision of a NICET technician certified under the Fire Alarm Systems program at Level III.
 - 3. Include the existing system in tests and inspections.
 - 4. **Visual Inspection:** Conduct a visual inspection before any testing. Use as-built drawings and system documentation for the inspection. Identify improperly located, damaged, or nonfunctional equipment, and correct before beginning tests.
 - 5. **Testing:** Follow procedure and record results complying with requirements in NFPA 72.
 - a. Detectors that are outside their marked sensitivity range shall be replaced.
 - 6. **Test and Inspection Records:** Prepare according to NFPA 72, including demonstration of sequences of operation by using the matrix-style form in Appendix A in CEC.

3.06 ADJUSTING

- A. **Occupancy Adjustments:** When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project outside normal occupancy hours for this purpose.
- B. **Follow-Up Tests and Inspections:** After date of Substantial Completion, test the fire alarm system complying with testing and visual inspection requirements in NFPA 72. Perform tests and inspections listed for three monthly, and one quarterly, periods.
- C. Work in two paragraphs below is normally the responsibility of Owner. Retain one or both paragraphs if Owner needs additional time for inspections required by NFPA 72.
- D. **Semiannual Test and Inspection:** Six months after date of Substantial Completion, test

the fire alarm system complying with the testing and visual inspection requirements in NFPA 72. Perform tests and inspections listed for monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

- E. Annual Test and Inspection: One year after date of Substantial Completion, test the fire alarm system complying with the testing and visual inspection requirements in NFPA 72. Perform tests and inspections listed for monthly, quarterly, semiannual, and annual periods. Use forms developed for initial tests and inspections.

3.07 DEMONSTRATION

Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain the fire alarm system, appliances, and devices. Refer to Division 01 Section "Demonstration and Training."

*****END OF SECTION*****



OFFICE OF
CLERK OF THE BOARD OF SUPERVISORS
1st FLOOR, COUNTY ADMINISTRATIVE CENTER
P.O. BOX 1147, 4080 LEMON STREET
RIVERSIDE, CA 92502-1147
PHONE: (951) 955-1060
FAX: (951) 955-1071

KECIA HARPER-IHEM
Clerk of the Board of Supervisors

KIMBERLY A. RECTOR
Assistant Clerk of the Board

March 1, 2012

THE PRESS ENTERPRISE
ATTN: LEGALS
PO BOX 792
RIVERSIDE, CA 92501

FAX (951) 368-9018
E-MAIL: legals@pe.com

RE: NOTICE INVITING BIDS: RIVERSIDE PUBLIC DEFENDER REMODEL

To Whom It May Concern:

Attached is a copy for publication in your newspaper for **TWO (2) CONSECUTIVE SATURDAYS: MARCH 3 AND 10, 2012.**

We require your affidavit of publication immediately upon completion of the last publication.

Your invoice must be submitted to this office in duplicate, WITH TWO CLIPPINGS OF THE PUBLICATION.

NOTE: PLEASE COMPOSE THIS PUBLICATION INTO A SINGLE COLUMN FORMAT.

Thank you in advance for your assistance and expertise.

Sincerely,

Mcgil

Cecilia Gil, Board Assistant to
KECIA HARPER-IHEM, CLERK OF THE BOARD

Gil, Cecilia

From: PE Legals <legals@pe.com>
Sent: Thursday, March 01, 2012 10:58 AM
To: Gil, Cecilia
Subject: RE: FOR PUBLICATION: Public Defender Remodel

Received for publication on March 3 and 10

Thank You!

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Publisher of the Press-Enterprise

Maria G. Tinajero · Legal Advertising Department

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Please Note: Deadline is 10:30 AM two (2) business days prior to the date you would like to publish.
Additional days required for larger ad sizes

From: Gil, Cecilia [<mailto:CCGIL@rcbos.org>]
Sent: Thursday, March 01, 2012 10:25 AM
To: PE Legals
Subject: FOR PUBLICATION: Public Defender Remodel

Hello! Attached is a Notice Inviting Bids for publication on 2 Saturdays: March 3 and 10, 2012. Please confirm.
THANK YOU!

Cecilia Gil

Board Assistant to the
Clerk of the Board of Supervisors
951-955-8464

THE COUNTY ADMINISTRATIVE CENTER IS CLOSED EVERY FRIDAY UNTIL FURTHER NOTICE.
PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING.



OFFICE OF
CLERK OF THE BOARD OF SUPERVISORS
1st FLOOR, COUNTY ADMINISTRATIVE CENTER
P.O. BOX 1147, 4080 LEMON STREET
RIVERSIDE, CA 92502-1147
PHONE: (951) 955-1060
FAX: (951) 955-1071

KECIA HARPER-IHEM
Clerk of the Board of Supervisors

KIMBERLY A. RECTOR
Assistant Clerk of the Board

March 1, 2012

RIVERSIDE COUNTY RECORD
ATTN: LEGALS
8584 LIMONITE AVENUE
RIVERSIDE, CA 92519

FAX (951) 685-2961
E-MAIL: recordmde@aol.com

RE: NOTICE INVITING BIDS: RIVERSIDE PUBLIC DEFENDER REMODEL

To Whom It May Concern:

Attached is a copy for publication in your newspaper for **TWO (2) CONSECUTIVE MARCH 8 and 15, 2012.**

We require your affidavit of publication immediately upon completion of the last publication.

Your invoice must be submitted to this office in duplicate, WITH TWO CLIPPINGS OF THE PUBLICATION.

NOTE: PLEASE COMPOSE THIS PUBLICATION INTO A SINGLE COLUMN FORMAT.

Thank you in advance for your assistance and expertise.

Sincerely,

McGil

Cecilia Gil, Board Assistant to
KECIA HARPER-IHEM, CLERK OF THE BOARD

Gil, Cecilia

From: Michael Evans <recordmde@aol.com>
Sent: Thursday, March 01, 2012 2:00 PM
To: Gil, Cecilia
Subject: Re: FOR PUBLICATION: Public Defender Remodel

Hey Cecilia,

Good afternoon,

I have received the notices inviting bids for publication. Sorry about the tardiness.

Mike

-----Original Message-----

From: Gil, Cecilia <CCGIL@rcbos.org>
To: recordmde <recordmde@aol.com>
Sent: Thu, Mar 1, 2012 10:25 am
Subject: FOR PUBLICATION: Public Defender Remodel

Good Morning! Attached is a Notice Inviting Bid for publication on 2 Thursdays: March 8 and 15, 2012. Please confirm.
THANK YOU!

Cecilia Gil

Board Assistant to the
Clerk of the Board of Supervisors
951-955-8464

*THE COUNTY ADMINISTRATIVE CENTER IS CLOSED EVERY FRIDAY UNTIL FURTHER NOTICE.
PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING.*

NOTICE INVITING BIDS

COUNTY OF RIVERSIDE, herein called Owner, invites sealed proposals for:

RIVERSIDE PUBLIC DEFENDER REMODEL

This Project is a remodel of the approximately 67,000 square feet, eight storey building located at 4075 Main Street, Riverside, CA. Proposals shall be delivered to the Clerk of the Board of Supervisors, on the 1st floor of the County Administrative Center located at 4080 Lemon Street, Riverside, CA 92501 **no later than 1:30 p.m. on Wednesday, April 18, 2012** and will be promptly opened in public at said address.

Each Proposal shall be in accordance with the Plans, Specifications, and other Contract Documents dated **March 16, 2012** and prepared by:

HOLT ARCHITECTS, INC.

70-225 Highway 111, Suite D, Rancho Mirage, CA 92270; Phone: 760-328-5280

Plans & Specifications and Plan Holders List are available for purchase by contractors beginning March 19, 2012 at: **A&I Reprographics**, 898 Via Lata, Suite L, Colton, CA 92324; Phone: 909-514-0704; Website: <http://dfs.aandirepro.com>

All prospective bidders are encouraged to contact A&I Reprographics and be included in the plan holder's list prior to March 19, 2012, so that the bid documents can be issued to all the prospective bidders on the plan holder's list as soon as said documents become available for distribution.

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REQUEST FOR INFORMATION:

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Pursuant to the Labor Code, the Governing Board of the Owner has obtained from the Director of the Department of Industrial Relations, State of California, his determination of general prevailing rates of per diem wages applicable to the work, and for holiday and overtime work, including employer payments for health and welfare, pension, vacation, and similar purposes, as set forth on the schedule which is on file at the principal office of the Owner, and which will be made available to any interested person upon request.

The Contract General Conditions for this project will contain provisions allowing successful contractor to substitute securities for monies withheld by the County to ensure performance (Public Contract Code 22300).

A Performance Bond and Payment Bond shall be required for this Project.

The Contractor will be required, per Public Contracts Code, Section 3300 and for this contract, to have a State of California contractor's **license classification B – General Building Contractor.**

A **mandatory** pre-bid job walk inspection will be held on **March 22, 2012 at 10:00 a.m.**, meeting at 4075 Main Street, Riverside, California. **No bids will be accepted from bidders who have not attended the pre-bid job walk.**

For further information, contact **Rizaldy Baluyot** at the **Economic Development Agency**, located at 3403 Main Street, Riverside, CA whose telephone number is **(951) 232-9268.**

Dated: March 1, 2012

Kecia Harper-Ihem, Clerk of the Board

By: Cecilia Gil, Board Assistant



THE PRESS-ENTERPRISE pe.com



WEEKLY



HS GAMER TIME

e-MEDIA waves

LANDSOCAL

10	11	12	13	14	15	16	17	18	19	20
DATE	REFERENCE NUMBER	DESCRIPTION - OTHER COMMENTS/CHARGES	PRODUCT/ZONE	SIZE	BILLED UNITS	TIMES RUN	RATE	GROSS AMOUNT	NET AMOUNT	
03/03/2012	I00749149-03032012	NOTICE INVITING BIDS COUNTY OF F	Press-Enterprise	1 x 177 LI	177	1	1.30	230.10	230.10	
03/10/2012	I00749149-03032012	NOTICE INVITING BIDS COUNTY OF F	Press-Enterprise	1 x 177 LI	177	1	1.20	212.40	212.40	

Order Placed by: Cecilia Gil

RECEIVED RIVERSIDE COUNTY
CLERK / BOARD OF SUPERVISORS
2012 MAR 14 PM 2:17

EDA
3.35 of 1/11/11

Legal Advertising Invoice

BALANCE

\$442.50

SALES CONTACT INFORMATION		ADVERTISER INFORMATION			
1	25	6	7	2	
Nick Eller 951-368-9229	BILLING PERIOD	BILLED ACCOUNT NUMBER	ADVERTISER/CLIENT NUMBER	ADVERTISER/CLIENT NAME	
	03/10/2012 - 03/10/2012	100141323	100141323	BOARD OF SUPERVISORS	

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR REMITTANCE

ADVERTISER/CLIENT NAME			
BOARD OF SUPERVISORS			
1	6	7	ADVERTISER/CLIENT NUMBER
BILLING PERIOD	BILLED ACCOUNT NUMBER	ADVERTISER/CLIENT NUMBER	
03/10/2012 - 03/10/2012	100141323	100141323	
23	24	3	TERMS OF PAYMENT
BALANCE	INVOICE NUMBER		
\$442.50	I00749149-03032012		DUE UPON RECEIPT



Legal Advertising Invoice

8 BILLING ACCOUNT NAME AND ADDRESS

9 REMITTANCE ADDRESS

BOARD OF SUPERVISORS
P.O. BOX 1147
COUNTY OF RIVERSIDE
RIVERSIDE, CA 92502

Enterprise Media
POST OFFICE BOX 12009
RIVERSIDE, CA 92502-2209

THE PRESS-ENTERPRISE

3450 Fourteenth Street
Riverside, CA 92501-3878
951-684-1200
951-368-9018 FAX

PROOF OF PUBLICATION (2010, 2015.5 C.C.P)

Publication(s): Press-Enterprise

PROOF OF PUBLICATION OF

Ad Desc.: /

I am a citizen of the United States. I am over the age of eighteen years and not a party to or interested in the above entitled matter. I am an authorized representative of THE PRESS-ENTERPRISE, a newspaper in general circulation, printed and published daily in the County of Riverside, and which newspaper has been adjudicated a newspaper of general circulation by the Superior Court of the County of Riverside, State of California, under date of April 25, 1952, Case Number 54446, under date of March 29, 1957, Case Number 65673, and under date of August 25, 1995, Case Number 267864; that the notice, of which the annexed is a printed copy, has been published in said newspaper in accordance with the instructions of the person(s) requesting publication, and not in any supplement thereof on the following dates, to wit:

03/03, 03/10/2012

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Date: March 12, 2012
At: Riverside, California



BOARD OF SUPERVISORS
P.O. BOX 1147
COUNTY OF RIVERSIDE
RIVERSIDE, CA 92502

Ad Number: 0000749149-01

P.O. Number:

Ad Copy:

NOTICE INVITING BIDS

COUNTY OF RIVERSIDE, herein called Owner, invites sealed proposals for:

RIVERSIDE PUBLIC DEFENDER REMODEL
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The Riverside County Record Newspaper

Western Riverside County's Only Hometown Newspaper

Since 1955

Post Office Box 3187 • Riverside, California 92519

951 685-6191 • FAX 951 685-2961

e-mail: recorddhh@aol.com

INVOICE

March 7, 2012

Riverside County
Clerk of the Board
4080 Lemon Street, 1st Floor
P.O. Box 1147
Riverside, CA 92502- 1147

Legal Advertising

Notice Inviting Bids

Your: Riverside Public Defender Remodel
Our #0155

14.00 column inches x \$8.94 = \$125.16 x 2 = \$250.32

Publish two (2) week: March 8, 15, 2012

Amount Due: \$250.32

Thank You,


Cathy Sypin-Barnes

EDA
3.35 of 1/11/11

RECEIVED RIVERSIDE COUNTY
CLERK / BOARD OF SUPERVISORS
2012 MAR 15 PM 2:56

Affidavit of Publication

(2015.5 C.C.P.)

County of Riverside

State of California

Catherine Sypin-Barnes, being first duly sworn, deposes and says: That at all times hereinafter, mentioned that she was a citizen of the United States, over the age of eighteen years, and a resident of said County, and was at and during all said times the principal clerk of the printer and publisher of The Riverside County Record-News, a newspaper of general circulation, adjudicated by court decree, printed and published weekly in said County of Riverside, State of California, that said Riverside County Record-News is and was at all times herein mentioned, a newspaper of general circulation as that term is defined in section 4460 of the Political Code, and, as provided by that section, is published for the dissemination of local and telegraphic news and intelligence of a general character, having a bona fide subscription list of paying subscribers, and is not devoted to nor published for the interest, entertainment or instruction of a particular class, profession, trade, calling, race or denominations; that at all said time said newspaper has been established, printed and published in said County and State at regular intervals for more than one year preceding the date of publication of the notice hereinafter mentioned; that said notice was set in type not smaller than nonpareil and was preceded with words printed in black face type not smaller than nonpareil describing and expressing in general terms the purport and character of the notice intended to be given; that the

RIVERSIDE COUNTY RECORD NEWSPAPER

of which the annexed is a printed copy, published and printed in said newspaper in at least 2 weekly issues, as follows:

March 8, 15, 2012

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Signature

Dated: March 15, 2012 at
Riverside, California

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Dated: March 1, 2012

Kecia Harper-Ihem, Clerk of the Board
By: Cecilia Gil, Board Assistant

Published: March 8, 15, 2012

RCR0155



MEMORANDUM

RIVERSIDE COUNTY COUNSEL

CONFIDENTIAL
ATTORNEY-CLIENT PRIVILEGE

DATE: June ¹⁰13, 2012

TO: ~~Charles Waltman~~
~~Rizaldy Baluyot~~ / Cecilia Gil
Economic Development Agency Clerk of the Board

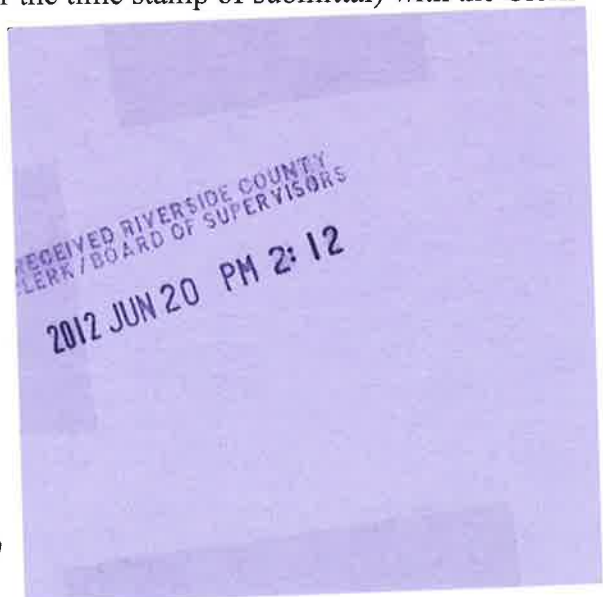
FROM: Marsha L. Victor
Principal Deputy

RE: Bids for Public Defender Remodel

The above referenced bids have been reviewed by this office. The two low bids appear to be in appropriate form on the face of the bids. A bid protest was submitted by counsel for Stronghold Engineering regarding the apparent low bid by AWI Builders Inc. That protest is currently being reviewed in conjunction with your office while you are concurrently dealing with a budget shortfall for the project. A copy of both low bids has been retained by this office for further review.

All original bids are returned herewith. Please note that these are original documents and I would suggest that if the Clerk of the Board is willing, they be lodged (along with the envelopes within which they were submitted and which bear the time stamp of submittal) with the Clerk just as all other original bid documents are.


MLV
Attachments



3.35 of 01/11/11

Summary of Bid Projects

TO:	Pamela J. Walls County Counsel	PROJECT:	Riverside Public Defender Remodel
FROM:	Charles Waltman 955-4897 Economic Development Agency	BID DATE:	05/30/2012
OWNER:	Rizaldy Baluyot – EDA PMO 951-955-4889	BID TIME:	9:00 a.m.
		ITEM/DATE:	#3.35 of 01/11/2011

CONTRACTORS

BASE BID AMOUNT

AWI Builders, Inc. 2881 Saco Street Vernon, CA 90058 (323) 589-5111	Bid w/Course of Construction: \$ 12,991,911.00 Course of Const. Insurance: \$ 25,000.00
Stronghold Engineering, Inc. 2000 Market Street Riverside, CA 92501 (951) 684-9303	Bid w/Course of Construction: \$ 13,647,127.00 Course of Const. Insurance: \$ 35,000.00
Minako America Corp., dba Minco Construction 522 E Airline Way Gardena, CA 90248 (310) 516-8100	Bid w/Course of Construction: \$ 13,777,000.00 Course of Const. Insurance: \$ 20,000.00
USS Cal Builders, Inc. 8051 Main Street Stanton, CA 90680 (714) 828-4882	Bid w/Course of Construction: \$ 14,067,525.00 Course of Const. Insurance: \$ 15,000.00
R.I.C. Construction Co., Inc. 10675 E Ave. Hesperia, CA 92345 (760) 244-7749	Bid w/Course of Construction: \$ 14,594,000.00 Course of Const. Insurance: \$ 30,719.00
Doug Wall Construction, Inc. 78-450 Ave. 41 Bermuda Dunes, CA 92203 (760) 772-8446	Bid w/Course of Construction: \$ 15,285,000.00 Course of Const. Insurance: \$ 12,000.00
SOLPAC Construction, Inc., dba Soltek Pacific Construction Company 2424 Congress Street San Diego, CA 92110 (619) 296-6247	Bid w/Course of Construction: \$ 15,399,000.00 Course of Const. Insurance: \$ 60,000.00

Royal Construction Corp. 11680 Goldring Rd. Arcadia, CA 91006 (626) 358-6688	Bid w/Course of Construction: Course of Const. Insurance:	\$ 16,198,000.00 \$ 35,000.00
Silver-Creek Industries, Inc. 195 E. Morgan Street Perris, CA 92571 (951) 943-5393	Bid w/Course of Construction: Course of Const. Insurance:	\$ 16,576,328.00 \$ 43,870.00
Morillo Construction, Inc. 227 N. Holliston Ave. Pasadena, CA 91106 (626) 796-3800	Bid w/Course of Construction: Course of Const. Insurance:	\$ 16,688,000.00 \$ 28,000.00
Mallcraft, Inc. 2225 N. Windsor Ave. Altadena, CA 91001 626-398-3598	Bid w/Course of Construction: Course of Const. Insurance:	\$ 16,817,000.00 \$ 100,000.00
MTM Construction, Inc. 16035 Phoenix Drive City of Industry, CA 91745 Phone No.:	Bid w/Course of Construction: Course of Const. Insurance:	\$ 16,980,000.00 \$ 106,000.00

ADDENDUM #04 – ATTACHMENT "A"

CONTRACTOR'S PROPOSAL

TO THE GOVERNING BOARD OF THE COUNTY OF RIVERSIDE:

Bidder: AWI BUILDERS, INC Date: May 30, 2012

The undersigned, having carefully examined the proposed site and the Plans and Specifications, the Notice Inviting Bids, the Instructions to Bidders, the Agreement Form, the Bond Forms, the General Conditions for the Construction of the **County of Riverside Public Defender Remodel** project, hereby proposes and agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials necessary to complete the work in strict conformity with the Plans and Specifications, including all work specified in Addenda numbered and dated:

Bids must be submitted on all items. Failure to bid on all items may result in the bid being rejected as non-responsive. The basis for award will be the qualified bidder with the lowest total of the Base Bid (Volume #1) with Alternate #1 thru Alternate #5 (Course of Construction Insurance). Alternates may be awarded in any order after determination of the lowest responsible and responsive bidder.

Addendum No. 1 Date 4/22/2012
Addendum No. 2 Date 5/14/2012
Addendum No. 3 Date 5/18/2012
Addendum No. 4 Date 5/24/2012

For the total Base Bid (Volume #1) (\$ 12,991,911.00)
Twelve million nine hundred ninety one thousand dollars,
Including Alternates #1 thru #5 (Course of Construction Insurance), all applicable taxes, permits, and licenses. nine hundred eleven

(Volume 1) Alternate #1 (Deductive) \$ 250,000
Horizontal Sun Shade Lower System

(Volume 1) Alternate #2 (Deductive) \$ 160,000
Vertical Perforated Aluminum Sun Shade

(Volume 1) Alternate #3 (Deductive) \$ 425,000
Parking Garage Improvement Allowance (Allowance will be provided with Bid Addendum #3)

(Volume 1) Alternate #4 (Deductive) \$ 220,000
Window Washer Replacement Allowance (Allowance will be provided with Bid Addendum #3)

(Volume 1) Alternate #5 (Deductive) \$ 25,000
Contractor's Course of Construction Insurance

(Volume 2) Alternate #6 (Additive) \$ 450,000
Voice & Data Infrastructure Improvements

DESIGNATION OF SUBCONTRACTORS

In compliance with Section 4104 of the Public Contract Code the undersigned submits the following complete list of each Subcontractor who will perform work or labor or render service in or about the construction/installation in an amount in excess of 1/2 of 1% of said total bid.

<u>PORTION OF THE WORK</u>	<u>SUBCONTRACTOR</u>	<u>LOCATION</u>	<u>LICENSE NO.</u>
Wall Covering / Painting	Warm Painting	Tujunga CA	906370
Thermal Insulation	Pacific Insulation	Chino CA	709883
Flooring / Glazed curtain wall / ^{windows} / Baffle	Glass World	Burbank CA	784560
Concrete / Paving / pike / blocks	Solid Ground Concrete	Longster CA	940657
Fire Protection	California Fire Protection	Glendale CA	807691
Demolition	Arrow Concrete Cutting	Pasadena CA	455102
Asbestos / Abatement	Asbestos Control / testing	Upland CA	842062
Acoustical Ceilings	Southwest Acoustical	Fountain CA	738787
Custom case work / tile work resilient flooring / carpet	Construction Contractors Corp	Vernon CA	903605
toilet & bath Accessories	Multi-Shape	Anaheim CA	776360
Storage / Identifying	Signzone	Los Angeles CA	834638
Landscape Irrigation	Campos Green View	Mission Hills CA	756016
Adhered felt back sheet metal / water proof	Ray-Crest Roofing	Los Angeles CA	334758
Plumbing / HVAC / Mechanical	AYA Plumbing	Northridge CA	964902
Electrical / Fire Alarm / Low-Volts	Reyes & Sons Electric	San Fernando CA	817091
metal / wood / Automatic doors	Construction Contractors Corp	Vernon CA	903605

AWARD OF CONTRACT

The undersigned fully understands that a Contract is formed upon the acceptance of this Proposal by the Owner and the undersigned further agrees that upon request he will promptly execute and deliver to Owner a written memorial of the Contract together with the required Payment and Performance Bonds and proof of insurance.

BID GUARANTEE

The enclosed certified or cashier's check or bidder's bond on approved form, made payable to the Owner in the amount of ten percent of the total bid submitted herewith, is hereby given as a guarantee that the bidder will execute and deliver the above mentioned written memorial and required bonds and insurance if awarded the contract, and in the event that the undersigned fails or refuses to execute and deliver said documents, such check or bond is to be charged with the costs of the damages experienced by the Owner as a result of such failure or refusal, including but not limited to publication costs, the difference in money between the amount of the bid of the said principal and the amount for which obligee may legally contract with another party to perform the said work if such amount be in excess of the former, building lease or rental costs, transportation costs and additional salary costs that result from the delay due to the principal's default on the awarded contract. In no event, however, shall the Surety's liability exceed the penal sum hereof.

Name of Bidder: AWT BUILDERS, INC
Type of Organization: CORPORATION
Signed By: ANNA MCKILYON
Title of Signer: PRESIDENT
Address of Bidder: 2881 SACO STREET
VERNON, CA 90058

Telephone No.: 323 589 5111
Contractor's License No.: 818478-B, C-23, C-51
Classification: _____ Expiration Date: 4.30.2013

Affix Seal if
Corporation

LICENSURE STATEMENTS ARE MADE UNDER PENALTY OF PERJURY

If bidder is a corporation, and signer is not President or Secretary, attach a certified copy of By-Laws or resolution authorizing execution. If bidder is a corporation, affix corporate seal. If signer is an agent, attach Power of Attorney. If bidder is not an individual, list names of other persons authorized to bind the organization.



NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of California) ss.
County of Riverside)

ANNA MEKIKYAN, being first duly sworn, deposes and says:

That he or she is PRESIDENT of RWI BUILDERS, INC the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Anna Mekikyan
Signature

Subscribed and sworn to before me this 30 day of MAY, 2012.

Diana Rozenoyer
Signature of officer administering oath



My Comm. Exp - Feb. 14, 2015

ACKNOWLEDGMENT

State of California
County of Los Angeles

On May 30, 2012 before me, DIANA ROZENOYER NOTARY PUBLIC
(insert name and title of the officer)

personally appeared ANNA MEKIKYAN
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature 

(Seal)



My Comm. Exp Feb 14, 2015

Project person picked up the original

BID BOND

KNOWN TO ALL MEN BY THESE PRESENTS, that we, the undersigned AWI BUILDERS, INC., as Principal; and ARCH INSURANCE COMPANY, as Surety, are hereby held and firmly bound unto the County of Riverside, hereinafter called the "Owner", in the sum of TEN PERCENT OF AMOUNT BID Dollars (\$ 10%) for the payment of such sum, well and truly to be made, do hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

WHEREAS, the said Principal is herewith submitting its Proposal for the RIVERSIDE PUBLIC DEFENDER REMODEL

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that if the aforesaid Principal shall be awarded the Contract upon said Proposal and shall, within the required number of days after the notice of such award, execute a written memorial of the awarded Contract and submit the required Labor and Material Payment and faithful Performance Bond and proof of insurance, then this obligation shall be null and void; and in the event that the Principal fails and/or refuses to execute and deliver said documents this Bond will be charged with the costs of the damages experienced by the Owner as a result of such refusal, including but not limited to, publication cost, the difference in money between the amount of the bid of the said Principal and the amount for which the obligee may legally contract with another party to perform the said work if such amount be in excess of the former; building lease or rental costs, transportation cost, and additional salary costs that result from the delay due to the Principal's default on the awarded Contract. In no event however, shall the Surety's liability exceed the penal sum hereof.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the above bounded parties have executed this instrument under their separate seals this 29TH day of MAY, 2012, the name and corporate seal of each corporate party being hereto affixed and those present duly signed by its undersigned representative, pursuant to authority of its governing body.

AWI BUILDERS, INC.

(Firm Name - Principal)

2881 SACO ST. VERNON, CA 90058

(Business Address)

By ANITA MEKIKYAN

(Original Signature)

[Handwritten Signature]

(Title)

ARCH INSURANCE COMPANY

(Corporation Name - Surety)

534 E. BADILLO ST. COVINA, CA 91723

(Business Address)

By [Handwritten Signature]

(Original Signature) PHIL VEGA, ATTORNEY-IN-FACT

Affix Seal if Corporation

Affix Corporate Seal



POWER OF ATTORNEY

Know All Men By These Presents:

That the Arch Insurance Company, a corporation organized and existing under the laws of the State of Missouri, having its principal office in Kansas City, Missouri (hereinafter referred to as the "Company") does hereby appoint

Philip E. Vega, Frank Morones, Jadon H. Smith and Myrna Smith of Covina, CA (EACH)

its true and lawful Attorney(s)-in-Fact, to make, execute, seal, and deliver from the date of issuance of this power for and on its behalf as surety, and as its act and deed:

Any and all bonds and undertakings

EXCEPTION: NO AUTHORITY is granted to make, execute, seal and deliver bonds or undertakings that guarantee the payment or collection of any promissory note, check, draft or letter of credit.

This authority does not permit the same obligation to be split into two or more bonds in order to bring each such bond within the dollar limit of authority as set forth herein.

The Company may revoke this appointment at any time.

The execution of such bonds and undertakings in pursuance of these presents shall be as binding upon the said Company as fully and amply to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office in Kansas City, Missouri.

This Power of Attorney is executed by authority of resolutions adopted by unanimous consent of the Board of Directors of the Company on March 3, 2003, true and accurate copies of which are hereinafter set forth and are hereby certified to by the undersigned Secretary as being in full force and effect:

"VOTED, That the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, or the Secretary shall have the power and authority to appoint agents and attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings, obligatory in the nature thereof, and any such officers of the Company may appoint agents for acceptance of process."

This Power of Attorney is signed, sealed and certified by facsimile under and by authority of the following resolution adopted by the unanimous consent of the Board of Directors of the Company on March 3, 2003:

VOTED, That the signature of the Chairman of the Board, the President, or any Vice President, or their appointees designated in writing and filed with the Secretary, and the signature of the Secretary, the seal of the Company, and certifications by the Secretary, may be affixed by facsimile on any power of attorney or bond executed pursuant to the resolution adopted by the Board of Directors on March 3, 2003, and any such power so executed, sealed and certified with respect to any bond or undertaking to which it is attached, shall continue to be valid and binding upon the Company.

In Testimony Whereof, the Company has caused this instrument to be signed and its corporate seal to be affixed by their authorized officers, this 29th day of December, 2010.

Arch Insurance Company

Attested and Certified



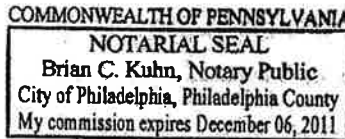
Martin J. Nilsen
Martin J. Nilsen, Secretary

J. Michael Pete
J. Michael Pete, Vice President

STATE OF PENNSYLVANIA SS

COUNTY OF PHILADELPHIA SS

I, Brian C. Kuhn, a Notary Public, do hereby certify that Martin J. Nilsen and J. Michael Pete personally known to me to be the same persons whose names are respectively as Secretary and Vice President of the Arch Insurance Company, a Corporation organized and existing under the laws of the State of Missouri, subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that they being thereunto duly authorized signed, sealed with the corporate seal and delivered the said instrument as the free and voluntary act of said corporation and as their own free and voluntary acts for the uses and purposes therein set forth.



Brian C. Kuhn
Brian C. Kuhn, Notary Public
My commission expires 12-06-2011

CERTIFICATION

I, Martin J. Nilsen, Secretary of the Arch Insurance Company, do hereby certify that the attached Power of Attorney dated December 29, 2010 on behalf of the person(s) as listed above is a true and correct copy and that the same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said J. Michael Pete, who executed the Power of Attorney as Vice President, was on the date of execution of the attached Power of Attorney the duly elected Vice President of the Arch Insurance Company.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the Arch Insurance Company on this 29th day of May, 2012.

Martin J. Nilsen
Martin J. Nilsen, Secretary

This Power of Attorney limits the acts of those named therein to the bonds and undertakings specifically named therein and they have no authority to bind the Company except in the manner and to the extent herein stated.

PLEASE SEND ALL CLAIM INQUIRIES RELATING TO THIS BOND TO THE FOLLOWING ADDRESS:

**Arch Surety
3 Parkway, Ste. 1500
Philadelphia, PA 19102**



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California

County of Los Angeles



On MAY 29 2012 before me, Monica Blaisdell, Notary Public

Date

Here Insert Name and Title of the Officer

personally appeared Philip Vega

Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies) and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Monica Blaisdell

Signature of Notary Public

Place Notary Seal Above

**CONTRACTOR'S CERTIFICATE
REGARDING WORKERS' COMPENSATION**

Labor Code Section 3700

Every employer, except the State and all political subdivisions or institutions thereof, shall secure the payment of compensation in one or more of the following ways:

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- (b) By securing from the Director of Industrial Relations, a Certificate of Consent to Self-Insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of this Contract.

Anna Makikyan
Signature

PRESIDENT
Principal

ANNA MAKIKYAN
Title

(In accordance with Article 5 [commencing at Section 1860], Chapter, Part 7, Division 2 of the Labor Code, the above Certificate must be signed and filed with the Owner prior to performing any work under this Contract.)

2012 MAY 30 AM 8: 55

AWI BUILDERS, INC
2881 Saco Street
Vernon, CA 90058

COUNTY OF RIVERSIDE ECONOMIC DEVELOPMENT AGENCY
Clerk of the Board of Supervisors, County Administrative Center
4080 Lemon Street, Riverside, CA 92501
Project name: **RIVERSIDE PUBLIC DEFENDER REMODEL**
Bid # **FM08240003992**
BID DATE: 5.30.2012 BID TIME: 9:00 am.

ADDENDUM #04 – ATTACHMENT "A"

CONTRACTOR'S PROPOSAL

TO THE GOVERNING BOARD OF THE COUNTY OF RIVERSIDE:

Bidder: Stronghold Engineering Inc Date: 05.30.12

The undersigned, having carefully examined the proposed site and the Plans and Specifications, the Notice Inviting Bids, the Instructions to Bidders, the Agreement Form, the Bond Forms, the General Conditions for the Construction of the **County of Riverside Public Defender Remodel** project, hereby proposes and agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials necessary to complete the work in strict conformity with the Plans and Specifications, including all work specified in Addenda numbered and dated:

Bids must be submitted on all items. Failure to bid on all items may result in the bid being rejected as non-responsive. The basis for award will be the qualified bidder with the lowest total of the Base Bid (Volume #1) with Alternate #1 thru Alternate #5 (Course of Construction Insurance). Alternates may be awarded in any order after determination of the lowest responsible and responsive bidder.

Addendum No. 01 Date 04.02.12
Addendum No. 02 Date 05.14.12
Addendum No. 03 Date 05.18.12
Addendum No. 04 Date 05.24.12

For the total **Base Bid (Volume #1)** (\$ 13,647,127.00)
thirteen million six hundred forty seven thousand, one hundred twenty seven and no/100 dollars,

Including Alternates #1 thru #5 (**Course of Construction Insurance**), all applicable taxes, permits, and licenses.

(Volume 1) Alternate #1 (**Deductive**) \$ 250,000.00
Horizontal Sun Shade Louver System

(Volume 1) Alternate #2 (**Deductive**) \$ 220,000.00
Vertical Perforated Aluminum Sun Shade

(Volume 1) Alternate #3 (**Deductive**) \$ 425,000.00
Parking Garage Improvement Allowance (Allowance will be provided with Bid Addendum #3)

(Volume 1) Alternate #4 (**Deductive**) \$ 220,000.00
Window Washer Replacement Allowance (Allowance will be provided with Bid Addendum #3)

(Volume 1) Alternate #5 (**Deductive**) \$ 35,000.00
Contractor's Course of Construction Insurance

(Volume 2) Alternate #6 (**Additive**) \$ 300,000.00
Voice & Data Infrastructure Improvements

DESIGNATION OF SUBCONTRACTORS

In compliance with Section 4104 of the Public Contract Code the undersigned submits the following complete list of each Subcontractor who will perform work or labor or render service in or about the construction/installation in an amount in excess of 1/2 of 1% of said total bid.

<u>PORTION OF THE WORK</u>	<u>SUBCONTRACTOR</u>	<u>LOCATION</u>	<u>LICENSE NO.</u>
Demolition& Asbestos Removal	Pacific Demolition	Perris, CA	746710
Doors	Design Hardware	Los Angeles, CA	842952
Piles	Foundation Constructors, Inc	Oakley, CA	270761
Sheet Metal	United Contractors	San Bernardino CA	416125
Roller Shades	Sheward & Son & Sons	Costa Mesa, CA	528591
Concrete/ Shoring & Shotcrete	Concrete Re-Enforcement/ Camacho Concrete	Bloomington, CA	618124
Insulation	Alcal Specialty Contracting	Riverside, CA	815286
Steel	AK Constructors	Corona, CA	837288
Casework/ Millwork	DHK Solutions, Inc.	Azusa CA	853285
Roofing	Courtney Waterproofing & Roofing	Irvine, CA	699236
HVAC	Multi Mechanical	Anaheim, CA	822637

DESIGNATION OF SUBCONTRACTORS (continued)

In compliance with Section 4104 of the Public Contract Code the undersigned submits the following complete list of each Subcontractor who will perform work or labor or render service in or about the construction/installation in an amount in excess of 1/10 of 1% of said total bid.

<u>PORTION OF THE WORK</u>	<u>SUBCONTRACTOR</u>	<u>LOCATION</u>	<u>LICENSE NO.</u>
Glass/ Glazing	Huntington Glazing	Montclair, CA	481983
Metal Studs/ Drywall	Church and Larsen, Inc.	Irwindale, CA	463467
Tile / Stone Work	Stoneware Tile	Northridge, CA	655510
Ceiling	Preferred Ceilings Inc	Brea CA	705630
Flooring	Fair Price Carpets	Riverside, CA	331756
Painting	Streamline Painting	Moreno Valley, CA	799584
Elevator Smoke Door	Smoke Guard	Santa Fe Springs, CA	952416
Fire Sprinkler	Paramount Fire Systems	Santee, CA	788204
Fire Alarm System	HCI Systems	Ontario, CA	905493
Distributed Antenna System	CIS	Ontario, CA	863465
Plumbing	Pro-Craft Construction	Redlands, CA	467234

AWARD OF CONTRACT

The undersigned fully understands that a Contract is formed upon the acceptance of this Proposal by the Owner and the undersigned further agrees that upon request he will promptly execute and deliver to Owner a written memorial of the Contract together with the required Payment and Performance Bonds and proof of insurance.

BID GUARANTEE

The enclosed certified or cashier's check or bidder's bond on approved form, made payable to the Owner in the amount of ten percent of the total bid submitted herewith, is hereby given as a guarantee that the bidder will execute and deliver the above mentioned written memorial and required bonds and insurance if awarded the contract, and in the event that the undersigned fails or refuses to execute and deliver said documents, such check or bond is to be charged with the costs of the damages experienced by the Owner as a result of such failure or refusal, including but not limited to publication costs, the difference in money between the amount of the bid of the said principal and the amount for which obligee may legally contract with another party to perform the said work if such amount be in excess of the former, building lease or rental costs, transportation costs and additional salary costs that result from the delay due to the principal's default on the awarded contract. In no event, however, shall the Surety's liability exceed the penal sum hereof.

Name of Bidder: Stronghold Engineering Inc
Type of Organization: Corporation
Signed By: _____
Title of Signer: Charles R. Gossage, Executive Vice President
Address of Bidder: 2000 Market Street Affix Seal if
Riverside CA 92501 Corporation

Telephone No.: 951.684.9303
Contractor's License No.: 787490
Classification: A/B/C-10 Expiration Date: 11/30/12

LICENSURE STATEMENTS ARE MADE UNDER PENALTY OF PERJURY

If bidder is a corporation, and signer is not President or Secretary, attach a certified copy of By-Laws or resolution authorizing execution. If bidder is a corporation, affix corporate seal. If signer is an agent, attach Power of Attorney. If bidder is not an individual, list names of other persons authorized to bind the organization.

Resolution of Board of Directors

Whereas, at a duly executed meeting of the Board of Directors of Stronghold Engineering Inc. existing under the laws of the State of California, where a quorum was present, did adopt the following.

IT WAS RESOLVED THAT:

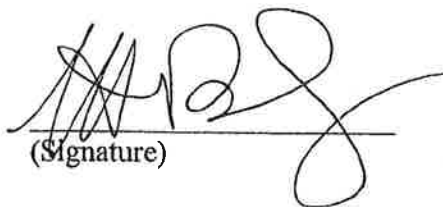
1. The following individual is authorized as appointed to bind the Corporation in all matters relating to the said Corporation.

Chuck Gossage: Executive Vice President

2. Any one director or officer of the Corporation is authorized to sign all documents and perform such acts as may be necessary or desirable to give effect to the above resolutions.
3. The Secretary of the Corporation is directed to update the minute book of the Corporation, as appropriate.
4. The resolutions have been legally adopted by the director.

Dated in the State of California on January 3, 2011.

Scott Bailey, Secretary


(Signature)

See Attached Notary

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Riverside

on January 3, 2011

before me, Patricia McNicholas

Here Insert Name and Title of the Officer

personally appeared Scott Bailey

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Patricia McNicholas
Signature of Notary Public



Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Resolution of Board of Directors

Document Date: January 3, 2011

Number of Pages: 1

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____




Signer Is Representing: _____

NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of California) ss.
County of Riverside)


Charles R. Gossage, being first duly sworn, deposes and says:

That he or she is Executive Vice President of Stronghold Engineering Inc. the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.



Signature Charles R. Gossage

Subscribed and sworn to before me this 30th day of May, 2012.



Signature of officer administering oath

BID BOND

KNOWN TO ALL MEN BY THESE PRESENTS, that we, the undersigned Stronghold Engineering Incorporated, as Principal; and Liberty Mutual Insurance Company, as Surety, are hereby held and firmly bound unto the County of Riverside, hereinafter called the "Owner", in the sum of Ten Percent of the Bid Amount Dollars (\$ 10%) for the payment of such sum, well and truly to be made, do hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

WHEREAS, the said Principal is herewith submitting its Proposal for the County of Riverside Public Defender Remodel-Addendum #04 - Attachment "A" Bid Package

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that if the aforesaid Principal shall be awarded the Contract upon said Proposal and shall, within the required number of days after the notice of such award, execute a written memorial of the awarded Contract and submit the required Labor and Material Payment and faithful Performance Bond and proof of insurance, then this obligation shall be null and void; and in the event that the Principal fails and/or refuses to execute and deliver said documents this Bond will be charged with the costs of the damages experienced by the Owner as a result of such refusal, including but not limited to, publication cost, the difference in money between the amount of the bid of the said Principal and the amount for which the obligee may legally contract with another party to perform the said work if such amount be in excess of the former; building lease or rental costs, transportation cost, and additional salary costs that result from the delay due to the Principal's default on the awarded Contract. In no event however, shall the Surety's liability exceed the penal sum hereof.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the above bounded parties have executed this instrument under their separate seals this 25th day of May, 2012, the name and corporate seal of each corporate party being hereto affixed and those present duly signed by its undersigned representative, pursuant to authority of its governing body.

Stronghold Engineering Incorporated
(Firm Name - Principal)
2000 Market Street Riverside CA 92501
(Business Address)

Affix Seal if
Corporation

By _____
(Original Signature)
Charles R. Gossage, Executive Vice President
(Title)

Liberty Mutual Insurance Company
(Corporation Name - Surety)
330 N. Brand Blvd., Suite 950, Glendale, CA 91203
(Business Address)

Affix Corporate
Seal

By Gerrit E. Brouwer
(Original Signature) Gerrit E. Brouwer, Attorney-In-Fact

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint JAMES P. SCHABARUM II, JEFFREY W. CAVIGNAC, GERRIT E. BROUWER, JENNIFER L. COX, JANIS THEODORE, ALL OF THE CITY OF SAN DIEGO, STATE OF CALIFORNIA.....

, each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding ONE HUNDRED MILLION AND 00/100***** DOLLARS (\$ 100,000,000*****) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, Garnet W. Elliott, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 19th day of January, 2011.

LIBERTY MUTUAL INSURANCE COMPANY

By Garnet W. Elliott, Assistant Secretary



COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 19th day of January, 2011, before me, a Notary Public, personally came Garnet W. Elliott, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires March 28, 2013
Member, Pennsylvania Association of Notaries

By Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 25th day of May, 2012.



By David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of San Diego

On May 25, 2012 before me, J.E. Theodore, Notary Public,
Date Insert Name of Notary exactly as it appears on the official seal

personally appeared Gerrit E. Brouwer
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she~~~~they~~ executed the same in his/~~her~~~~their~~ authorized capacity(ies), and that by his/~~her~~~~their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature J.E. Theodore
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

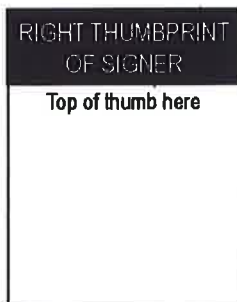
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

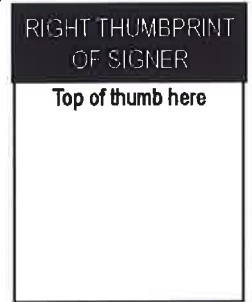
Signer is Representing:



Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer is Representing:



CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

State of California }
 }
County of Riverside }

On May 30, 2012 before me, Marilyn Rainwater, Notary Public,
personally appeared Charles R. Gossage

Who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his/her/their signatures on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Place Notary Seal Above

Signature *Marilyn Rainwater*
Signature of Notary Public

AGREEMENT FORM

THIS AGREEMENT, entered into this _____ day of _____, 2012, by and between _____, hereinafter called the "Contractor", and the County of Riverside hereinafter called the "Owner".

WITNESSETH: That the parties hereto have mutually covenanted and agreed as follows:

CONTRACT: The Complete Contract includes all of the Contract Documents, to wit: The Notice Inviting Bids, the Instructions to Bidders, the Contractor's Proposal, Wage Schedule, Payment and Performance Bonds, the Plans and Specifications plus any Addenda thereto, the General Conditions, the Supplementary General Conditions, if applicable and this Agreement. All Contract Documents are intended to cooperate and be complimentary so that any work called for in one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all Contract Documents.

STATEMENT OF WORK: The Contractor hereby agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials for the County of Riverside Public Defender Remodel, in strict accordance with the Plans and Specifications dated March 2012 prepared by Holt Architects & County of Riverside hereinafter called the "Architect", including Addenda thereto as listed in the Contractor's Proposal, all of which are made a part hereof.

TIME FOR COMPLETION: The work shall be commenced on a date to be specified in a written order of the Architect and shall be completed within four hundred eighty five (485) calendar days from and after said date. It is expressly agreed that except for extensions of time duly granted in the manner and for the reasons specified in the General Conditions, time shall be of the essence.

COMPENSATION TO BE PAID TO CONTRACTOR: The Owner agrees to pay and the Contractor agrees to accept in full consideration for the performance of the Contract, subject to additions and deductions as provided in the General Conditions, the sum of _____ dollars (\$ _____) being the total of the base bid plus the following addenda: ____, ____, ____, _____. The sum is to be paid according to the schedule as provided in the General Conditions.

Pursuant to Labor Code, Section 1861, the Contractor gives the following certification: I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

IN WITNESS WHEREOF, the parties hereto on the day and year first above written have executed this agreement in four (4) counterparts.

Type of Contractor's organization: _____
If other than individual or corporation, list names of all members who have authority to bind firm.

Firm Name: _____

Address: _____

Contractor's License No.: _____

Affix Seal if
Corporation

IF OTHER THAN CORPORATION EXECUTE HERE

Signature: _____

Title: _____

IF CORPORATION, FILL OUT FOLLOWING AND EXECUTE

Name of President of Corporation: _____

Name of Secretary of Corporation: _____

Corporation is organized under the laws of State of _____

Signature: _____

Title: _____

Owner: COUNTY OF RIVERSIDE

Signature: _____

Title: Chairman - Board of Supervisors

Attest: Clerk - Board of Supervisors

By: _____

Title: _____

PAYMENT BOND

(Public Work - Civil Code Section 3247 et seq.)

The makers of this Bond are _____ as Principal and Original Contractor and _____, a corporation, authorized to issue Surety Bonds in California, as Surety, and this Bond is issued in conjunction with that certain public works contract dated _____, 2012 between Principal and County of Riverside, a public entity, as owner, for _____ dollars (\$ _____) the total amount payable. THE AMOUNT OF THIS BOND IS 100% OF SAID SUM. Said contract is for public work of:

The beneficiaries of this Bond are as is stated in 3248 of the Civil Code and the requirements and conditions of this Bond are as is set forth in Sections 3248, 3249, 3250 and 3252 of said Code. Without notice, Surety consents to extension of time for performance, change in requirements, amount of compensation, or prepayment under said Contract.

Signed and Sealed this _____ Day of _____ 2012.

(Firm Name - Principal)

(Business Address)

By:

(Signature - Attach Notary's Acknowledgment)

(Title)

Affix Seal if
Corporation

(Corporation Name - Surety)

(Business Address)

By:

(Signature - Attach Notary's Acknowledgment)

Affix Corporate
Seal

ATTORNEY-IN-FACT
(Title-Attach Power of Attorney)

PERFORMANCE BOND

The makers of this Bond, _____, as Principal, and _____ as Surety, are held and firmly bound unto County of Riverside, hereinafter called the Owner, in the sum of _____ Dollars (\$_____) for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

The condition of this obligation is such, that whereas the Principal entered into a certain contract, hereto attached, with the Owner, dated _____, 2012 for _____

Now therefore, if the Principal shall well and truly perform and fulfill all the undertakings covenants, terms, conditions and agreements of said Contract during the original term of said Contract and any extension thereof that may be granted by the Owner, with or without notice to the Surety, and during the file of any guarantee required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said Contract that may thereafter be made, then this obligation to be void, otherwise to remain in full force and virtue. Without notice, Surety consents to extension of time for performance, change in requirements, change in compensation or prepayment under said Contract.

Signed and Sealed this _____ Day of _____ 2012.

(Firm Name - Principal)

(Business Address)

Affix Seal if
Corporation

By: _____
(Signature - Attach Notary's Acknowledgment)

(Title)

(Corporation Name - Surety)

Affix Corporate
Seal

(Business Address)

By: _____
(Signature - Attach Notary's Acknowledgment)

ATTORNEY-IN-FACT
(Title-Attach Power of Attorney)


CONTRACTOR'S CERTIFICATE
REGARDING WORKERS' COMPENSATION

Labor Code Section 3700

Every employer, except the State and all political subdivisions or institutions thereof, shall secure the payment of compensation in one or more of the following ways:

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- (b) By securing from the Director of Industrial Relations, a Certificate of Consent to Self-Insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of this Contract.



Signature
Charles R. Gossage

Principal
Executive Vice President

Title

(In accordance with Article 5 [commencing at Section 1860], Chapter, Part 7, Division 2 of the Labor Code, the above Certificate must be signed and filed with the Owner prior to performing any work under this Contract.)

ADDENDUM # 1

DATED 04/02/12

FOR:

**RIVERSIDE PUBLIC DEFENDER
REMODEL**

Project No.: FM08240003992

**LOCATED AT:
4075 Main Street
Riverside, CA**



**PREPARED BY:
COUNTY OF RIVERSIDE
ECONOMIC DEVELOPMENT AGENCY
PROJECT MANAGEMENT OFFICE
3403 10th Street, Suite 500
RIVERSIDE, CA 92501**



HOLT ARCHITECTS

ARCHITECTURE AND PLANNING

TIMOTHY M. HOLT, A.I.A. ■ JOHN E. HOLT, A.I.A. ■

BID ADDENDUM # 02

Project:

Name:	LAW OFFICES OF THE PUBLIC DEFENDER COUNTY OF RIVERSIDE ECONOMIC DEVELOPMENT AGENCY	Address:	4075 Main Street Riverside, CA 92522
Job Number:	RVC.043	File:	Bid Addendum

ADDENDUM ITEMS: GENERAL / ARCHITECTURAL / STRUCTURAL

Item #:	PM (Spec)#:	Drawing(s):	Regarding:	Action:	Source:
AS-1.	N/A	N/A	Revised BID Package	Contractor to use this revised BID Package Forms. See Attachment "1"	Holt
AS-2.	N/A	N/A	"As-Built" - Existing Structural Drawings	Existing Structural Drawing have been provided for reference / coordination. See Attachment "2"	Holt
AS-3.	N/A	N/A	"As-Built" - Latest Tenant Improvement Drawings	(Existing) Latest Tenant Improvement Drawings have been provided for reference / coordination. See Attachment "3"	Holt
AS-4.	00004 General Conditions	N/A	DVBE Good Faith Efforts	Not Required	Oakview Bid RFI #01
AS-5.	00004 General Conditions	N/A	Course of Construction Insurance	Course of Construction Insurance to include what is specified in the bid documents including but not limited to Earthquake and Flood	R.I.C. Construction Bid RFI #01
AS-6.	02070 03345	D-101	Existing Plywood Sub Floor	Contractor shall remove any & all existing plywood sub floor, and level with light weight concrete, refer to structural plans for specifications.	Stronghold Bid RFI #05
AS-7.	02220	A-113, S-201, S-314	Shoring Requirements	Contractor is required to provide any required shoring prior to installation of slide bearings."	Stronghold Bid RFI #02
AS-8.	02082	N/A	Asbestos Abatement	No final clearance was issued from the previous abatement contract work already completed. Owner will provide hygienist for all abatement work for this scope of work / project.	Stronghold Bid RFI #12
AS-9.	03100 03360	S102	Notes #9 & #10: Preparing existing concrete to receive new Shotcrete	Any method that achieves a 1/4" minimum amplitude is acceptable.	Stronghold Bid RFI #06
AS-10.		S-202 1/S-313 9/S-313	HSS's at 2 nd Floor	HSS's are not required on the second floor (drafting error on Sheet S202). The HSS's are required on all the floors above.	Stronghold Bid RFI #07

Charles R. Gossage, Executive Vice President



HOLT ARCHITECTS

ARCHITECTURE AND PLANNING

■ TIMOTHY M. HOLT, A.I.A. ■ JOHN E. HOLT, A.I.A. ■

BID ADDENDUM # 03

Project:

Name:	LAW OFFICES OF THE PUBLIC DEFENDER COUNTY OF RIVERSIDE ECONOMIC DEVELOPMENT AGENCY	Address:	4075 Main Street Riverside, CA 92522
Job Number:	RVC.043	File:	Bid Addendum

ADDENDUM ITEMS: GENERAL / ARCHITECTURAL / STRUCTURAL

#:	PM (Spec)#:	Drawing(s):	Regarding:	Action:	Source:
AS-1.	00003	N/A	Volume # 1 – Alternate # 3 (Deductive) Parking Garage Improvement Allowance	Provide a Allowance of \$425,000.00	EDA
AS-2.	00003	N/A	Volume # 1 – Alternate # 4 (Deductive) Window Washer Replacement Allowance	Used the Revised Bid Package from Bid Addendum # 2 Provide a Allowance of \$220,000.00	EDA
AS-3.			Itemized Allowances (Group for Convenience no other allowance items other then specified are called out)	Used the Revised Bid Package from Bid Addendum # 2 <ul style="list-style-type: none"> • 01000 – Existing Building Unforeseen Allowance \$150,000.00 • 10260 – Corner Guard Allowance - \$35,000.00 • 13700 – Access Control Allowance \$175,000.00 • 13800 – CCTV Allowance \$25,000.00 • 13900 – IT Signage @ Conference Rooms Allowance \$40,000.00 • 14200 – Elevator Access Controls Allowance \$30,000.00 • 230900 – KW Meter Allowance \$3,000.00 	Holt
AS-4.	N/A	A-111	Existing Surveillance Cameras	Contractor shall protect all existing surveillance cameras in place.	Holt
AS-5.	N/A	A-301	Detail K1	K9 detail callout revised to L14/AD-103 K13 detail callout revised to L5 & L9/AD-103 K1 detail callout revised to L1/AD-103 See Attachment "1"	Stronghold Bid RFI #03
AS-6.	N/A	A-301	Detail F1	K9 detail callout revised to L14/AD-103 K13 detail callout revised to L5 & L9/AD-103 K1 detail callout revised to L1/AD-103	Stronghold Bid RFI #03

Charles R. Gossage, Executive Vice President



HOLT ARCHITECTS

ARCHITECTURE AND PLANNING

■ TIMOTHY M. HOLT, A.I.A. ■ JOHN E. HOLT, A.I.A. ■

BID ADDENDUM # 04

Project: **LAW OFFICES OF THE PUBLIC DEFENDER**
COUNTY OF RIVERSIDE ECONOMIC DEVELOPMENT AGENCY

Name: **4075 Main Street**
Riverside, CA 92522

Job Number: **RVC.043**

Address: **Bid Addendum**

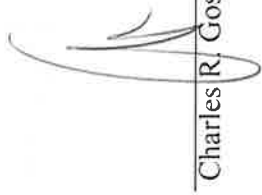
File:

ADDENDUM ITEMS:

Item #:	PM (Spec)#:	Drawing(s):	Regarding:	Action:	Source:
1.	00003	N/A	Revised Bid Opening Time	Bid Opening Time and date has been changed to 9:00 a.m. on Wednesday, May 30, 2012, respectively. Location is the same as previously stated.	EDA
2.	00003	N/A	Revised BID Package	Contractor to use this revise BID Package Form. See Attachment "A"	EDA

Attachments:

Item:	Description:	Pages:
A.	Revised Bid Package	11



*** END OF ADDENDUM ***

Charles R. Gossage, Executive Vice President

RECEIVED RIVERSIDE
CLERK / BOARD OF SUPERVISORS

2012 MAY 30 AM 9:54



STRONGHOLD ENGINEERING, INC.
2000 MARKET STREET, RIVERSIDE, CALIFORNIA 92501
PHONE: (951)684-9303 FAX: (951) 684-3813

Clerk of the Board of Supervisors
1st floor County Administrative Center
4080 Lemon Street
Riverside CA 92501

Bid Enclosed for: RIVERSIDE PUBLIC DEFENDER REMODEL
Project # FM08240003992

Due 05/30/12 @ 9:00AM

ADDENDUM #04 – ATTACHMENT "A"

CONTRACTOR'S PROPOSAL

TO THE GOVERNING BOARD OF THE COUNTY OF RIVERSIDE:

Bidder: Minako America Corporation dba Minco Construction Date: 05/29/2012

The undersigned, having carefully examined the proposed site and the Plans and Specifications, the Notice Inviting Bids, the Instructions to Bidders, the Agreement Form, the Bond Forms, the General Conditions for the Construction of the **County of Riverside Public Defender Remodel** project, hereby proposes and agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials necessary to complete the work in strict conformity with the Plans and Specifications, including all work specified in Addenda numbered and dated:

Refaat H Mina , President

Bids must be submitted on all items. Failure to bid on all items may result in the bid being rejected as non-responsive. The basis for award will be the qualified bidder with the lowest total of the Base Bid (Volume #1) with Alternate #1 thru Alternate #5 (Course of Construction Insurance). Alternates may be awarded in any order after determination of the lowest responsible and responsive bidder.

Addendum No. 1 Date 04/02/2012

Addendum No. 2 Date 05/14/2012

Addendum No. 3 Date 05/18/2012

Addendum No. 4 Date 05/24/2012

For the total Base Bid (Volume #1) (\$ 13,777,000)

Thirteen Million, ~~seven~~ Seven Hundred, seventy-seven Thousand dollars, including Alternates #1 thru #5 (Course of Construction Insurance), all applicable taxes, permits, and licenses.

(Volume 1) Alternate #1 (Deductive) \$ 187,000
Horizontal Sun Shade Louver System

(Volume 1) Alternate #2 (Deductive) \$ 107,000
Vertical Perforated Aluminum Sun Shade

(Volume 1) Alternate #3 (Deductive) \$ 425,000
Parking Garage Improvement Allowance (Allowance will be provided with Bid Addendum #3)

(Volume 1) Alternate #4 (Deductive) \$ 220,000
Window Washer Replacement Allowance (Allowance will be provided with Bid Addendum #3)

(Volume 1) Alternate #5 (Deductive) \$ 20,000
Contractor's Course of Construction Insurance

(Volume 2) Alternate #6 (Additive) \$ 277,000
Voice & Data Infrastructure Improvements

DESIGNATION OF SUBCONTRACTORS

In compliance with Section 4104 of the Public Contract Code the undersigned submits the following complete list of each Subcontractor who will perform work or labor or render service in or about the construction/installation in an amount in excess of 1/2 of 1% of said total bid.

<u>PORTION OF THE WORK</u>	<u>SUBCONTRACTOR</u>	<u>LOCATION</u>	<u>LICENSE NO.</u>
Piles	Foundation Construction Inc.	POBox 97 Oakley, CA 94561	270761
Structure Steel	REMCO Machining & Fabrication, Inc	1966 S. Date Bloomington, CA 92316	792482
Windows	Henry's Glazcon	79-919 County Club Dr. Bermuda Dunes, CA 92203	831799
Metal & Wood Doors	Design Hardware	6053 West 3-rd Street Los Angeles, CA 90036	842952
Carpet	Fair P rice Carpets	1070 Center Street Riverside, CA 92507	331756
Casework	Casework Installation Inc	130 N. Lilac Ave Rialto, CA 92376	714404
Sunshades	ASCA	P.O.Box 1140 Portsmouth, NH 03802	
Ceramic Tile	Stoneware Tile	18827 Napa Street Northridge, CA 91324	655510
Acoustic Ceiling	Hamilton Ceiling Systems	455 W La Cadena # 1 Riverside, CA 92501	787546
Facility Management & Control System	Signature	18000 Cowan Irvine, CA 92614	825574 R.M
Fire Sprinkler	De Angelo Fire Protection Inc	POBox 26152 Los Angeles, CA 90026	818707
Elevator Remodel	Sterling Corporate Custom Elevator Interior	340 W 26 Th Street # I National City , CA 91950	706920
Asbestos Removal	Absolute Abatement	172 E Orangethorpe Ave. Placentia, CA 92870	813625
Roofing	JJ Roofing	P O Box 5657 Riverside, CA 92517	409258
MEP	H-Tech Air Conditioning Inc	22222 Broadway Riverside, CA 92504	560077 R.M
Shotcrete	Structural Shotcrete System Inc.	12645 Clark Street Santa Fe Springs, CA 90670	579272

AWARD OF CONTRACT

The undersigned fully understands that a Contract is formed upon the acceptance of this Proposal by the Owner and the undersigned further agrees that upon request he will promptly execute and deliver to Owner a written memorial of the Contract together with the required Payment and Performance Bonds and proof of insurance.

BID GUARANTEE

The enclosed certified or cashier's check or bidder's bond on approved form, made payable to the Owner in the amount of ten percent of the total bid submitted herewith, is hereby given as a guarantee that the bidder will execute and deliver the above mentioned written memorial and required bonds and insurance if awarded the contract, and in the event that the undersigned fails or refuses to execute and deliver said documents, such check or bond is to be charged with the costs of the damages experienced by the Owner as a result of such failure or refusal, including but not limited to publication costs, the difference in money between the amount of the bid of the said principal and the amount for which obligee may legally contract with another party to perform the said work if such amount be in excess of the former, building lease or rental costs, transportation costs and additional salary costs that result from the delay due to the principal's default on the awarded contract. In no event, however, shall the Surety's liability exceed the penal sum hereof.

Name of Bidder: Minako America Corporation dba Minco Construction
Type of Organization: Corporation
Signed By: 
Title of Signer: Refaat H Mina , President
Address of Bidder: 522 E Airline Way Affix Seal if
Gardena, CA 90248 Corporation
Telephone No.: 310-516-8100
Contractor's License No.: 612429
Classification: A,B,C10,C7 Expiration Date: 09/30/2012

LICENSURE STATEMENTS ARE MADE UNDER PENALTY OF PERJURY

If bidder is a corporation, and signer is not President or Secretary, attach a certified copy of By-Laws or resolution authorizing execution. If bidder is a corporation, affix corporate seal. If signer is an agent, attach Power of Attorney. If bidder is not an individual, list names of other persons authorized to bind the organization.

NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of California) ss.
County of Riverside)

I Refaat H Mina, being first duly sworn, deposes and says:

That he or she is President of Minako America Corporation dba Minco Construction the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.



Signature

Subscribed and sworn to before me this _____ day of _____, 2012.

"Please see notary attached".

Signature of officer administering oath

CALIFORNIA JURAT WITH AFFIANT STATEMENT

- See Attached Document (Notary to cross out lines 1-6 below)
- See Statement Below (Lines 1-5 to be completed only by document signer(s), *not* Notary)

1 _____
 2 _____
 3 _____
 4 _____
 5 _____

Signature of Document Signer No. 1 _____
 Signature of Document Signer No. 2 (if any) _____

State of California

County of Los Angeles

Subscribed and sworn to (or affirmed) before me on this

29 day of May, 2012, by

Date Month Year

(1) Refaat H Mina
Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (,)

(and

(2) N/A
Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me.)

Signature *Raffi Varooj Thomassian*
Signature of Notary Public



Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Further Description of Any Attached Document

Title or Type of Document: NONCOLLUSION AFFIDAVIT

Document Date: 05/29/2012 Number of Pages: One

Signer(s) Other Than Named Above: N/A



BID BOND

KNOWN TO ALL MEN BY THESE PRESENTS, that we, the undersigned Minako America Corporation dba Minco Construction, as Principal; and *, as Surety, are hereby held and firmly bound unto the County of Riverside, hereinafter called the "Owner", in the sum of Ten Percent of Amount Bid Dollars (\$ 10% of Bid) for the payment of such sum, well and truly to be made, do hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

*Travelers Casualty and Surety Company of America

WHEREAS, the said Principal is herewith submitting its Proposal for the Riverside Public Defender Remodel - Project No. FM08240003992

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that if the aforesaid Principal shall be awarded the Contract upon said Proposal and shall, within the required number of days after the notice of such award, execute a written memorial of the awarded Contract and submit the required Labor and Material Payment and faithful Performance Bond and proof of insurance, then this obligation shall be null and void; and in the event that the Principal fails and/or refuses to execute and deliver said documents this Bond will be charged with the costs of the damages experienced by the Owner as a result of such refusal, including but not limited to, publication cost, the difference in money between the amount of the bid of the said Principal and the amount for which the obligee may legally contract with another party to perform the said work if such amount be in excess of the former; building lease or rental costs, transportation cost, and additional salary costs that result from the delay due to the Principal's default on the awarded Contract. In no event however, shall the Surety's liability exceed the penal sum hereof.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the above bounded parties have executed this instrument under their separate seals this 25th day of May, 2012, the name and corporate seal of each corporate party being hereto affixed and those present duly signed by its undersigned representative, pursuant to authority of its governing body.

Minako America Corporation dba Minco Construction

(Firm Name - Principal)

Affix Seal if
Corporation

522 E. Airline Way, Gardena, CA 90248

(Business Address)

By [Signature]

(Original Signature)

REFAAT H MINA - PRESIDENT

(Title)

Travelers Casualty and Surety Company of America

Affix Corporate
Seal

(Corporation Name - Surety)

21688 Gateway Center Dr., Diamond Bar, CA 91765

(Business Address)

By [Signature]

(Original Signature) Arturo Ayala
Attorney-In-Fact

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of Orange }

On 5/25/12 before me, Susan Pugh, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Arturo Ayala
Name(s) of Signer(s)



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature [Handwritten Signature]
Signature of Notary Public Susan Pugh

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Bid Bond

Document Date: 5/25/12 Number of Pages: One

Signer(s) Other Than Named Above: None

Capacity(ies) Claimed by Signer(s)

Signer's Name: Arturo Ayala

- Individual
- Corporate Officer --- Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer --- Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Los Angeles

On 05/29/2012 before me, "Raffi Varooj Thomassian, Notary Public"
Date Here Insert Name and Title of the Officer

personally appeared Refaat H Mina
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Raffi Varooj Thomassian*
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Bid Bond
 Document Date: 05/25/2012 Number of Pages: One
 Signer(s) Other Than Named Above: None

Capacity(ies) Claimed by Signer(s)

Signer's Name: Refaat H Mina
 Individual
 Corporate Officer — Title(s): President
 Partner — Limited General
 Attorney in Fact
 Trustee
 Guardian or Conservator
 Other: _____



Signer Is Representing: _____

Signer's Name: _____
 Individual
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Attorney in Fact
 Trustee
 Guardian or Conservator
 Other: _____



Signer Is Representing: _____



POWER OF ATTORNEY

Bond No. MINAM-667

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 224195

Certificate No. 004719020

KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Maryland, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Daniel Huckabay, Arturo Ayala, and Dwight Reilly

of the City of Orange, State of California, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 31st day of January, 2012.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
George W. Thompson, Senior Vice President

On this the 31st day of January, 2012, before me personally appeared George W. Thompson, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.
My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

AGREEMENT FORM

THIS AGREEMENT, entered into this _____ day of _____, 2012, by and between _____, hereinafter called the "Contractor", and the County of Riverside hereinafter called the "Owner".

WITNESSETH: That the parties hereto have mutually covenanted and agreed as follows:

CONTRACT: The Complete Contract includes all of the Contract Documents, to wit: The Notice Inviting Bids, the Instructions to Bidders, the Contractor's Proposal, Wage Schedule, Payment and Performance Bonds, the Plans and Specifications plus any Addenda thereto, the General Conditions, the Supplementary General Conditions, if applicable and this Agreement. All Contract Documents are intended to cooperate and be complimentary so that any work called for in one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all Contract Documents.

STATEMENT OF WORK: The Contractor hereby agrees to furnish all tools, equipment, services, apparatus, facilities, transportation, labor and materials for the County of Riverside Public Defender Remodel, in strict accordance with the Plans and Specifications dated March 2012 prepared by Holt Architects & County of Riverside hereinafter called the "Architect", including Addenda thereto as listed in the Contractor's Proposal, all of which are made a part hereof.

TIME FOR COMPLETION: The work shall be commenced on a date to be specified in a written order of the Architect and shall be completed within four hundred eighty five (485) calendar days from and after said date. It is expressly agreed that except for extensions of time duly granted in the manner and for the reasons specified in the General Conditions, time shall be of the essence.

COMPENSATION TO BE PAID TO CONTRACTOR: The Owner agrees to pay and the Contractor agrees to accept in full consideration for the performance of the Contract, subject to additions and deductions as provided in the General Conditions, the sum of _____ dollars (\$ _____) being the total of the base bid plus the following addenda: ____, ____, ____, _____. The sum is to be paid according to the schedule as provided in the General Conditions.

Pursuant to Labor Code, Section 1861, the Contractor gives the following certification: I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

IN WITNESS WHEREOF, the parties hereto on the day and year first above written have executed this agreement in four (4) counterparts.

Type of Contractor's organization: _____
If other than individual or corporation, list names of all members who have authority to bind firm.
_____, _____, _____, _____

Firm Name: _____
Address: _____
Contractor's License No.: _____

Affix Seal if
Corporation

IF OTHER THAN CORPORATION EXECUTE HERE

Signature: _____
Title: _____

IF CORPORATION, FILL OUT FOLLOWING AND EXECUTE

Name of President of Corporation: _____
Name of Secretary of Corporation: _____
Corporation is organized under the laws of State of _____

Signature: _____
Title: _____
Owner: COUNTY OF RIVERSIDE

Signature: _____
Title: Chairman - Board of Supervisors
Attest: Clerk - Board of Supervisors
By: _____
Title: _____

PAYMENT BOND

(Public Work - Civil Code Section 3247 et seq.)

The makers of this Bond are _____ as Principal and Original Contractor and _____, a corporation, authorized to issue Surety Bonds in California, as Surety, and this Bond is issued in conjunction with that certain public works contract dated _____, 2012 between Principal and County of Riverside, a public entity, as owner, for _____ dollars (\$ _____) the total amount payable. THE AMOUNT OF THIS BOND IS 100% OF SAID SUM. Said contract is for public work of:

_____.

The beneficiaries of this Bond are as is stated in 3248 of the Civil Code and the requirements and conditions of this Bond are as is set forth in Sections 3248, 3249, 3250 and 3252 of said Code. Without notice, Surety consents to extension of time for performance, change in requirements, amount of compensation, or prepayment under said Contract.

Signed and Sealed this _____ Day of _____ 2012.

(Firm Name - Principal)

(Business Address)

Affix Seal if
Corporation

By: _____
(Signature - Attach Notary's Acknowledgment)

(Title)

(Corporation Name - Surety)

Affix Corporate
Seal

(Business Address)

By: _____
(Signature - Attach Notary's Acknowledgment)

ATTORNEY-IN-FACT
(Title-Attach Power of Attorney)

PERFORMANCE BOND

The makers of this Bond, _____, as Principal, and _____ as Surety, are held and firmly bound unto County of Riverside, hereinafter called the Owner, in the sum of _____ Dollars (\$ _____) for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

The condition of this obligation is such, that whereas the Principal entered into a certain contract, hereto attached, with the Owner, dated _____, 2012 for _____

Now therefore, if the Principal shall well and truly perform and fulfill all the undertakings covenants, terms, conditions and agreements of said Contract during the original term of said Contract and any extension thereof that may be granted by the Owner, with or without notice to the Surety, and during the file of any guarantee required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said Contract that may thereafter be made, then this obligation to be void, otherwise to remain in full force and virtue. Without notice, Surety consents to extension of time for performance, change in requirements, change in compensation or prepayment under said Contract.

Signed and Sealed this _____ Day of _____ 2012.

(Firm Name - Principal)

(Business Address)

Affix Seal if
Corporation

By: _____
(Signature - Attach Notary's Acknowledgment)

(Title)

(Corporation Name - Surety)

Affix Corporate
Seal

(Business Address)

By: _____
(Signature - Attach Notary's Acknowledgment)

ATTORNEY-IN-FACT
(Title-Attach Power of Attorney)

CONTRACTOR'S CERTIFICATE
REGARDING WORKERS' COMPENSATION

Labor Code Section 3700

Every employer, except the State and all political subdivisions or institutions thereof, shall secure the payment of compensation in one or more of the following ways:

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- (b) By securing from the Director of Industrial Relations, a Certificate of Consent to Self-Insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of this Contract.



Signature
Refaat H Mina

Principal
President

Title

(In accordance with Article 5 [commencing at Section 1860], Chapter, Part 7, Division 2 of the Labor Code, the above Certificate must be signed and filed with the Owner prior to performing any work under this Contract.)



HOLT ARCHITECTS

ARCHITECTURE AND PLANNING

■ TIMOTHY M. HOLT, A.I.A. ■ JOHN E. HOLT, A.I.A. ■

BID ADDENDUM #03: ATTACHMENT "25"

Section 00300

BID SCHEDULE, BASE BID – VOLUME #01

SECTION	DESCRIPTION	COST
DIVISION 1	General Conditions	
	Supervision	
	Overhead & Profit	
	Bonds	
	Insurance	
ALTERANATES	Alternate #1: Horizontal Sun Shade Louver System	
	Alternate #2: Vertical Perforated Aluminum Sun Shade	
	Alternate #3: Parking Garage Improvement Allowance	
	Alternate #4: Window Washer Replacement Allowance	
	Alternate #5: Contractor's Course of Construction Insurance	
ITEMIZED ALLOWANCE	Existing Building Unforeseen Allowance	
	Access Control Allowance	
	CCTV Allowance	
	IT Signage @ Conference Rooms Allowance	
	Elevator Access Controls Allowance	
	KW Meter Allowance	
	Corner Guards Allowance	
DIVISION 2	Traffic Control / Staging Area	
	Selective Demolition and Reconstruction	
	Asbestos Abatement	
	Shoring of existing structure	
	Excavating, Backfilling, and Compacting	
	Asphalt Concrete Paving	
	Site Concrete Work	

SECTION	DESCRIPTION	COST
	Automatic Irrigation System	
	Landscape & Planting	
DIVISION 3	Concrete Forming	
	Epoxy-Set Dowels and Expansion Anchors	
	Concrete Finishing	
	Shotcrete	
DIVISION 4	Concrete Block Masonry	
	Granite Surfacing	
DIVISION 5	Supporting from Structure	
	Structural Steel	
	Cold-Formed Framing	
	Metal Stairs & Railings	
DIVISION 6	Finish Carpentry	
	Custom Casework	
	Plastic Surfacing Materials	
	Ballistic Resistant Fiberglass Panels	
DIVISION 7	Thermal Insulation	
	Adhered Felback PVC Thermoplastic Membrane Roofing	
	Flashing and Sheet Metal	
	Fire Stopping	
	Caulking and Sealants	
DIVISION 8	Metal Doors and Frames	
	Wood Doors and Frames	
	Automatic Sliding Door	
	Interior Aluminum Windows	
	Finish Hardware	
	Glazing	
	Exterior Glazed Aluminum Curtain Wall System	
DIVISION 9	Lath and Plaster	
	Gypsum Board Systems	
	Tilework	
	Acoustical Ceiling Systems	
	Resilient Flooring	

SECTION	DESCRIPTION	COST
	Carpet	
	Wall Covering	
	Painting	
DIVISION 10	Tack Boards	
	Plastic Laminated Toilet Partitions	
	Louvers	
	Identifying Devices	
	Fire Protection Specialties	
	Toilet and Bath Accessories	
DIVISION 11	Knox Boxes	
	Residential Appliances	
DIVISION 12	Window Treatment	
DIVISION 13	Bullet-Resistant Baffle Windows	
	Bullet- Resistant Transaction Drawer	
DIVISION 14 - 20	Not Used	
6 DIGIT FORMAT		
DIVISION 8	Elevator Door Smoke Containment System	
DIVISION 21	Sleeves and Sleeve Seals for Fire-Suppression Piping	
	Fire-Suppression Standpipes	
	Wet-Pipe Sprinkler Systems	
	Controllers for Fire-Pump Drivers	
	Conductors and Cables for Electronic Safety and Security	
DIVISION 22	General Plumbing	
	Plumbing Equipment	
	Plumbing Piping Insulation	
	Domestic Water Piping	
	Sanitary Waste and Vent Piping	
DIVISION 23	General Mechanical	
	Instrumentation and Control for HVAC	
	Facility Natural-Gas Piping	
	Hydronic Pumps	
	Facility Natural – Gas Piping	
	Metal Ducts	

SECTION	DESCRIPTION	COST
	Air Duct Accessories	
	HVAC Power Ventilators	
	Air Terminal Units	
	Diffusers, Registers, and Grilles	
	Condensing Boilers	
	Split-System Air-Conditioners	
DIVISION 24	Not Used	
DIVISION 25	Facility Management and Control System (FMCS)	
DIVISION 26	General Electrical	
	Low Voltage Transformers	
	Switchboards	
	Panelboards	
	Enclosed Controllers	
	Engine Generators	
	Transfer Switches	
	Interior Lighting	
	Static Uninterruptible Power Supply	
DIVISION 27	Common Communications Requirements	
	In-Building Telecommunications Pathway System for Voice, Data and Video Communications Cabling	
	Telecommunications Grounding and Bonding Backbone Systems	
	Distributed Antenna System	
DIVISION 28	Digital Addressable Fire Alarm System	

BID SCHEDULE:

BASE BID – VOLUME 1:

BID AMOUNT IN FIGURES: \$ _____

BID AMOUNT WORDS: _____

VOLUME 2 – ALTERNATE # 6 (ADDITIVE):

BID AMOUNT IN FIGURES: \$ _____

BID AMOUNT WORDS: _____



MINCO'S PROJECT IN PROGRESS

Project Name No: **Anderson Two Story Classroom Building, Project# 0001-11-12**

Project Address: **William Anderson Elementary School
4130 West 154th Street, Lawndale, CA 90260**

Owner Name: **Lawndale Elementary School District**

Owner Address: **4161 West 147th Street, Lawndale, CA 90260 (310) 973-1300 - Fax: (310) 675-6462**

Contract Amount: **\$4,377,700.00**

Contact Name:

Contact Phone: **(310) 973-1300**

Contact Fax: **(310) 675-6462**

Project Name No: **Bid No. 2705 - South High School Modernization Phase 2-2006:
Underground Fire Alarm & Communications**

Project Address: **South High School
1101 Planz Road, Bakersfield, CA 93304-6199**

Owner Name: **Kern High School District**

Owner Address: **5801 Sundale Avenue
Bakersfield, California 93309-2924**

Contract Amount: **\$3,170,000.00**

Contact Name: **Mike Josephson**

Contact Phone: **(661) 979-5318**

Contact Fax:

Project Name No: **Bid #2011-4 Parking Lot Lighting & Security Upgrades Project. El Camino College**

Project Address: **16007 Crenshaw Boulevard Torrance, CA 90506**

Owner Name: **El Camino Community College District**

Owner Address: **16007 Crenshaw Boulevard Torrance, CA 90506**

Contract Amount: **\$2,477,000.00**

Contact Name: **Rick B. Yatman**

Contact Phone: **(310) 660-3593**

Contact Fax: **(310) 660-3378**

Project Name No: **Site 21 Elementary School, Adelanto School District
Category 2 Concrete, Bid Package # 2, DSA : 04-108331**

Project Address: **13125 Hopland St
Victorville, CA 92394**

Owner Name: **Adelanto School District**

Owner Address: **11824 Air Expressway
Adelanto, California 92301**

Contract Amount: **\$2,362,000.00**

Contact Name: **Terry Gott**

Contact Phone: **(909) 982-8951**

Contact Fax: **(909) 982-7916**

Project Name No: **IFB 1420-10/11- Modernization Project-Lincoln School**

Project Address: **Lincoln School
600 E Grand Ave , San Gabriel, CA 91776**

Owner Name: **Los Angeles County Office of Education**

Owner Address: **9300 Imperial Highway, Downey, CA 90242**

Contract Amount: **\$1,978,700.00**

Contact Name: **Edgar J. Paz**

Contact Phone: **(562) 427-5007**

Contact Fax: **(562) 427-3007**

Project Name No: **Long Beach Main Pumping Plant Electrical System Modifications, Contract No. 4521
File:85-08.05-31**

Project Address: **1238 W. 16th Street, Long Beach, CA 90813**

Owner Name: County Sanitation District of Los Angeles County

Owner Address: 1955 Workman Mill Road
Whittier, CA 90601-1400

Contract Amount: \$1,877,000.00

Contact Name: Walter Ackerman

Contact Phone: (310) 830-8050

Contact Fax:

Project Name No: Bid 11112-01 Baxter Elementary Multi-Purpose Building Remodel (NTD 2004- 0014) DSA 03-113282

Project Address: Albert Baxter Elementary School
14929 S. Cerritos Ave.

Owner Name: Bellflower Unified School District

Owner Address: 16703 South Clark Avenue, Bellflower, CA 90706

Contract Amount: \$1,737,700.00

Contact Name: Stacey Chanan

Contact Phone: (562) 866-9011

Contact Fax: (562) 804-6594

Project Name No: Contract No. FE07-20, "P2 Digester Gas Dryer Upgrades"
OCSD's Treatment Plant No. 2

Project Address: 22212 Brookhurst Street, Huntington, Beach, CA 92646

Owner Name: Orange County Sanitation District

Owner Address: 10844 Ellis Avenue. Fountain Valley. CA 92708-7018

Contract Amount: \$897,000.00

Contact Name: Larry D. Roberson

Contact Phone: (714) 593-7548

Contact Fax:

Project Name No: **John Wayne Airport Construction of Miscellaneous Site Restoration Project**
Project No: 281-281-4200-P275

Project Address: **John Wayne Airport**
19428 S Airport Way, Santa Ana, CA 92707

Owner Name: **Orange County**

Owner Address: **333 W. Santa Ana, Blvd.**
Santa Ana, California 92701

Contract Amount: **\$777,000.00**

Contact Name: **Kory Hariri**

Contact Phone: **(949) 252-6098**

Contact Fax:

Project Name No: **Contract No. 4656- Joint Water Pollution Control Plant East Laboratory Central Plant Upgrade,**
Drawings JO-g-1213

Project Address: **24501 South Figueroa Street**
Carson, CA 90745

Owner Name: **County Sanitation District No. 2 of LA County**

Owner Address: **1955 Workman Mill Road**
Whittier, CA 90601

Contract Amount: **\$577,000.00**

Contact Name: **Oscar Morales**

Contact Phone: **(310) 830-8050**

Contact Fax:

Project Name No: **District Wide Support Contract at Multiple Sites Project No.: RS 062**

Project Address: **Various Locations**

Owner Name: **Palos Verdes Peninsula Unified School District**

Owner Address: **3801 Via La Selva, Palos Verdes Estates, Ca 90274**

Contract Amount: **\$482,480.00**

Contact Name: **Arash Abbasian**

Contact Phone: 310-544-0152

Contact Fax: 310.541.3708

Project Name No: District Wide Support Contract RS066

Project Address: 3801 Via La Selva, Palos Verdes Estates, CA 90274

Owner Name: Palos Verdes Peninsula Unified School District

Owner Address: 3801 Via La Selva, Palos Verdes Estates, CA 90274

Contract Amount: \$479,892.50

Contact Name: Arash Abbasian-Kashi

Contact Phone: (310) 544-0152

Contact Fax: (310) 541-3708

Project Name No: Bid No.: 24-09, Plumbing Repairs Annually Districtwide Santa Ana Unified School District

Project Address: Various Locations

Owner Name: Santa Ana Unified School District

Owner Address: 150 1601 E. Chestnut Ave. Santa Ana

Contract Amount: \$300,000.00

Contact Name: Joe Dixon

Contact Phone: 714-480-5355

Contact Fax: 562.699.5422

Project Name No: Contract No. 080789:10:2
International Polytechnic High School

Project Address: 3801 W. Temple Avenue, Pomona, California 91768.

Owner Name: Los Angeles County Office of Education

Owner Address: 9300 Imperial Highway
Downey, CA 90242

Contract Amount: \$279,700.00

Contact Name: Jacqueline Brown

Contact Phone: (562) 803-8478

Contact Fax: (562) 803-8218

Project Name No: Contract No. 4661- Green Lane Pumping Plant,
Installation of Standby Generator and Enclosure

Project Address: 1928 Nelson Ave
Redondo Beach, CA 90278

Owner Name: County Sanitation District No. 2 of LA County

Owner Address: 1955 Workman Mill Road
Whittier, CA 90601

Contract Amount: \$208,350.00

Contact Name: Oscar Morales

Contact Phone: (310) 830-8050

Contact Fax:

Minco Projects_Completed_References

Project Title: C07-1023, Infrastructure & Central Plant, Phase I Cerritos Community College

Owner Name Address: Cerritos Community College District , 16126 Studebaker Rd. Norwalk, CA 90650

Description of work: Underground site utilities including 12 KV Substation for new central plant building

Contract Amount: \$10,603,697.58

Owner Contact Name: Jerry Jones

Owner Contact Phone: (714) 600.2133

Owner Contact Fax:

Year Completed: 2009

Project Manger: Moses Khalili

Project Title: Student Services- Site Preparation Phase 1, Santa Monica College

Owner Name Address: Santa Monica Community College District, 1900 Pico Blvd. , Santa Monica, CA 90405-1628

Description of work: Site Preparation Phase 1

Contract Amount: \$7,977,000.00

Owner Contact Name: Mr. John Wirfs

Owner Contact Phone: (213) 629-0500

Owner Contact Fax: (213) 629-0501

Year Completed: 2010

Project Manger: Moses Khalili

Project Title: 0708-12, Infrastructure & Central Plant, Phase III Cerritos Community College

Owner Name Address: Cerritos Community College District , 16126 Studebaker Rd. Norwalk, CA 90650

Description of work: Underground site utilities including 12 KV Substation for new central plant building

Contract Amount: \$4,977,000.00

Owner Contact Name: Jerry Jones

Owner Contact Phone: (714) 600.2133

Owner Contact Fax:

Year Completed: 2009

Project Manger: Moses Khalili

Project Title: Valley High School Modernization Project No. : 19-11-06

Owner Name Address: Santa Ana Unified School District, 1601 East Chestnut Ave., Santa Ana, CA 92701-6322

Description of work: Site electrical distribution with 3000/480V SCE Service

Contract Amount: \$4,168,048.71

Owner Contact Name: Jeffrey Anthony

Owner Contact Phone: (310) 308-3617

Owner Contact Fax: (714) 662.0233

Year Completed: 2007

Project Manger: Moses Khalili & Rick Rizkalla

Project Title: Orange Coast College East / West Utility Upgrade, Bid No. 1919 "C"- Underground Electrical & "D"- Concrete

Owner Name Coast Community College District, 1370 Adams Ave. Costa Mesa, CA 92626

Address:

Description of work: Site underground electrical distribution structure

Contract Amount: \$3,674,000.00

Owner Contact Name: Robert Stewart

Owner Contact Phone: (714) 667.1580

Owner Contact Fax:

Year Completed: 2007

Project Manger: Ash Gadalla

Project Title: Modernization Inc. 3- Fire Alarm. P.A. System & Electrical upgrades Rosemead HS. Project No. A0404

Owner Name El Monte School District, 3540 Lexington Ave. El Monte, CA 91731-2684

Address:

Description of work: (3) 5KV substation including site structures for 5KV distribution and new 5KV/480V transformers

Contract Amount: \$2,098,523.34

Owner Contact Name: Atta Alsaleh

Owner Contact Phone: (909) 305.2332

Owner Contact Fax: (909) 305-2180

Year Completed: 2006

Project Manger: Moses Khalili

Project Title: Cos-1 Kennedy Site Improvements, Project No. : 20-09-092-2
Santa Ana Unified School District

Owner Name Santa Ana Unified School Distract
Address: 2305 W. Edinger, Santa Ana, CA 92704

Description of work: School Site Improvements

Contract Amount: \$1,979,000.00

Owner Contact Name: Jason Park

Owner Contact Phone: (714) 564-9526

Owner Contact Fax: 714.564.9526

Year Completed: 2011

Project Manger: Ashraf Gadalla, Moses Khalili, Tim Elgendy

Project Title: Lawndale High School Athletic Field and Bleachers, Project No. 00164 Centinela Valley Union High School District

Owner Name Address: Centinela Valley Union High School District , 14901 S. Inglewood Ave. Lawndale, CA 90260

Description of work: Athletic Field and Bleachers

Contract Amount: \$1,916,542.38

Owner Contact Name: Howard Dobbins

Owner Contact Phone: (323) 216-7493

Owner Contact Fax:

Year Completed: 2004

Project Manger: Ash Gadalla

Project Title: 0809-14, Fire Alarm System Replacement & New Mass Notification System Group 1

Owner Name Address: Cerritos Community College District , 16126 Studebaker Rd. Norwalk, CA 90650

Description of work: Fire Alarm System Replacement & New Mass Notification System @Cerritos Community College@

Contract Amount: \$1,887,700.00

Owner Contact Name: Jerry Jones

Owner Contact (714) 600.2133

Phone:

Owner Contact Fax:

Year Completed: 2010

Project Manger: Moses Khalili

Project Title:

E- Rate Projects at Valley H.S., Esqueda Elementary, Willard and Sierra Intermediate. Bid Number: 0003 Project Number: 19-10-05

Owner Name Address:

Santa Ana Unified School District , 1601 East Chestnut Avenue Santa Ana, California 92701-6322

Description of work: E- Rate Projects

Contract Amount: \$1,770,000.00

Owner Contact Name: Joe St. Martin

Owner Contact Phone: (714) 476-1476

Owner Contact Fax: (714) 662.0233

Year Completed: 2007

Project Manger: Moses Khalili

Project Title:

Queen Mary Ship Fire Alarm Upgrade Contract (R-6776)

Owner Name Address:

City of Long Beach, 333 West Ocean Blvd., Long Beach, CA 90802

Description of work: Ship Fire Alarm Upgrade

Contract Amount: \$1,769,732.62

Owner Contact Name: Michael L. Slama

Owner Contact Phone: 562.570.6449

Owner Contact Fax: 562.570.6501

Year Completed: 2010

Project Manger: Moses Khalili

Project Title: Library/Learning Resource Center, Project No.3021A
1111 E. Artesia Blvd., Compton, CA 90221
Compton Community College

Owner Name: Compton Community College
Address: 1111 E. Artesia Blvd., Compton, CA 90221

Description of work: Constriction New Building for the Library/Learning Resource Center

Contract Amount: \$1,747,880.00

Owner Contact Name: Greg English

Owner Contact Phone: (714)808-3232

Owner Contact Fax:

Year Completed: 2010

Project Manger: Tim Elgendy

Project Title: 708-03 Infrastructure & Central Plant, Phase II Cerritos Community College

Owner Name: Cerritos Community College District, 16126 Studebaker Rd. Norwalk, CA 90650
Address:

Description of work: Underground site utilities including 12 KV Substation for new central plant building

Contract Amount: \$1,737,000.00

Owner Contact Name: Jerry Jones

Owner Contact Phone: (714) 600.2133

Owner Contact Fax:

Year Completed: 2009

Project Manger: Moses Khalili

Project Title: Growth and Modernization Project: Los Cerritos Growth and Modernization Project: Hollydale K-8 Paramount Unified School District

Owner Name Address: Paramount Unified School District , 15110 California Ave., Paramount, CA 90723-4378

Description of work: Growth and Modernization Project

Contract Amount: \$1,501,759.80

Owner Contact Name: Jaime Pace

Owner Contact Phone: (949) 500.0735

Owner Contact Fax:

Year Completed: 2005

Project Manger: Moses Khalili & Tim Elgendy

Project Title: Montellano Landslide Repair Project, Work Order No.:908-001.01 C.P.:
Montellano Avenue Slope, 3246 Heather Field Dr., Hacienda Heights, CA 91745
Contract Reference: 0908/PW 13312 dated December 29, 2009

Owner Name Address: County of Los Angeles, Department of Public Works
900 South Fremont Avenue, Alhambra, California 91803-1331

Description of work: Construct horizontal boring and vertical drilling and all associated work for land slide drainage improvement.

Contract Amount: \$1,200,000.00

Owner Contact Name: Waleed Jouzy

Owner Contact Phone: (626) 300-3289

Owner Contact Fax:

Year Completed: 2011

Project Manger: Moses Khalili

Project Title: AUHSD -Loara High School, Project No. 7361N B.P # 22 Electrical , DSA File No. 30-H1 DSA APPL.
No. 4-105447 1725 W. Cerritos Ave., Anaheim, CA 92804

Owner Name Address: Anaheim Union High School District, 501 Crescent Way, Anaheim, CA 92803-3520

Description of work: Electrical distribution for 2 new buildings

Contract Amount: \$1,133,001.63

Owner Contact Name: Mr. Lindsay McCaig

Owner Contact Phone: (949) 851-8383 Ext 423

Owner Contact Fax: (949) 756-6844

Year Completed: 2006

Project Manger: Moses Khalili & Rick Rizkalla

Project Title: Hermosa View School improvements 1800 South Prospect Ave., Hermosa Beach, CA 90254

Owner Name Address: Hermosa Beach City School District , 1645 Valley Drive, Hermosa Beach, CA 90254

Description of work: School improvements

Contract Amount: \$1,009,552.85

Owner Contact Name: Jeffrey Anthony

Owner Contact Phone: (310) 308-3617

Owner Contact Fax:

Year Completed: 2004

Project Manger: Moses Khalili & Rick Rizkalla

Project Title: Electrical Upgrade and Telecommunications at Lawndale High School Project No. 99167
Electrical Upgrade at Hawthorne High School Project No. 99166

Owner Name Address: Centinela Valley Union High School District ,14901 S. Inglewood Ave. Lawndale, CA 90260

Description of work: Electrical Upgrade and Telecommunications

Contract Amount: \$964,286.41
Owner Contact Name: Howard Dobbins
Owner Contact Phone: (323) 216-7493
Owner Contact Fax: (323) 965-7445
Year Completed: 2003
Project Manger: Ash Gadalla

Project Title: Heroes Elementary School E-Rate Improvements Project Number: 19-09-05 BP: 02

Owner Name Address: Santa Ana Unified School District ,1601 East Chestnut Avenue Santa Ana, California 92701-6322

Description of work:

Contract Amount: \$880,000.00

Owner Contact Name: Dennis Ackel

Owner Contact Phone: (714) 648.-891

Owner Contact Fax:

Year Completed: 2007

Project Manger: Moses Khalili

Project Title: Project No. RS059 -The Fire Alarm Projects Ridgecrest Intermediate School 28915 Northbay Road, Rancho Palos Verdes, CA 90275 Project No. RS059 - Fire Alarm Project at Dapplegray Elementary School 3011 Palos Verdes Drive North, Rolling Hills

Owner Name Address: Palos Verdes Peninsula Unified School District ,3801 Via La Selva, Palos Verdes Estates, Ca 90274 (310) 378-9966

Description of work: Fire Alarm Project

Contract Amount: \$828,227.00

Owner Contact Name: Arash Abbasian

Owner Contact Phone: (310) 544-0152

Owner Contact Fax: (310) 541-3708

Year Completed: 2008

Project Manger: Moses Khalili & Rick Rizkalla

Project Title: Fire Alarm Project RS024, at Peninsula High School 27118 Silver Spur Road, Rolling Hills Estates CA 90274-2300

Owner Name Address: Palos Verdes Peninsula Unified School District ,3801 Via La Selva, Palos Verdes Estates, Ca 90274 (310) 378-9966

Description of work: Fire Alarm Project

Contract Amount: \$627,000.00

Owner Contact Name: Arash Abbasian

Owner Contact Phone: (310) 544-0152

Owner Contact Fax: (310) 541-3708

Year Completed: 2008

Project Manger: Moses Khalili & Rick Rizkalla

Project Title: Project Name: 1094I, MDAB Modular Installation at the Pacific Coast Campus

Owner Name Address: Long Beach Community College District, 4901 East Carson St. Long Beach, CA 90808

Description of work: Modular Installation at the Pacific Coast Campus, Multidisciplinary Academic Building Renovation Portable Swing Space Interim Housing Relocatable Classrooms and Restrooms

Contract Amount: \$598,200.00

Owner Contact Name: Michael Boomsma

Owner Contact Phone: (714) 391-2208

Owner Contact Fax:

Year Completed: 2010

Project Manger: Moses Khalili

Project Title: Additional Receptacles & Power for HVAC Upgrades at Classrooms, A0312

Owner Name Address: El Monte School District ,3540 Lexington Ave. El Monte, CA 91731-2684

Description of work: Additional Receptacles & Power for HVAC Upgrades

Contract Amount: \$597,770.00

Owner Contact Name: Atta Alsaleh

Owner Contact Phone: (909) 305-2332

Owner Contact Fax: (909) 305-2180

Year Completed: 2004

Project Manger: Tim Elgandy

Project Title: San Gabriel River Bicycle Trail - Pavement Reconstruction
Work Order No.: 1026-011.00

Owner Name Address: County of Los Angeles, Department Of Public Works
900 South Fremont Ave., Alhambra California 91803

Description of work: River Bicycle Trail - Pavement Reconstruction

Contract Amount: \$593,221.60

Owner Contact Name:

Owner Contact Phone:

Owner Contact Fax:

Year Completed:

Project Manger:

Project Title: 2005-05 Fire Alarm System Replacement El Camino Community College District DSA File 19-C6

Owner Name Address: El Camino Community College District ,16007 Crenshaw Blvd. Torrance, CA 90506-0001

Description of work: Fire Alarm System Replacement

Contract Amount: \$588,725.00

Owner Contact Name: Curtis Guy

Owner Contact Phone: (310) 660- 6086

Owner Contact Fax: (310) 660- 6504

Year Completed: 2006

Project Manger: Moses Khalili

Project Title: Contract No. C0957 — Harbor Transitway Improvements and CCTV Surveillance System

Owner Name Address: Metropolitan Transportation Authority
One Gateway Plaza, Los Angeles, CA 90012-2952

Description of work: CCTV Surveillance System

Contract Amount: \$581,730.00

Owner Contact Name: Awny R. Malak

Owner Contact Phone: 213.922.6268

Owner Contact Fax: 213.922.3882

Year Completed: 2011

Project Manger: Mossad Rezkalla

Project Title: Deerfield E.S. Mod., Project No. 120M1-10-F25, Package #03-1
Structural / Site Concrete, Reinforcing, Asphaltic Paving, and Landscaping / Irrigation

Owner Name Irvine Unified School District

Address:

Description of work: 4861 Michelson Dr, Irvine, CA 92612

Contract Amount: \$566,635.00

Owner Contact Name: Jeff Marshall

Owner Contact Phone: 949.230.0017

Owner Contact Fax: 949.654.0201

Year Completed: 2011

Project Manger: Tim Elgendy

Project Title: "E-Rate 11 McFadden I.E., Heninger E.S., Franklin E.S., Harvey E.S., Remington E.S., & Romero Cruz E.S." (Project # 37-36-10)

Owner Name Santa Ana Unified School District , 1601 East Chestnut Avenue Santa Ana, California 92701-6322

Address:

Description of work: E-Rate

Contract Amount: \$547,700.00

Owner Contact Name: Joe St. Martin

Owner Contact Phone: (714) 476-1476

Owner Contact Fax: (714) 662.0233

Year Completed: 2008

Project Manger: Moses Khalili

Project Title: Jackson Elementary School, ERP #1401 Roofing, Santa Ana Unified School District

Owner Name Santa Ana Unified School District ,1601 East Chestnut Avenue Santa Ana, California 92701-6322

Address:

Description of work: Roofing

Contract Amount: \$518,342.19
Owner Contact Name: Jerry Hills
Owner Contact Phone: (714) 480-5355
Owner Contact Fax:
Year Completed: 2010
Project Manger: Tim Elgendy

Project Title: Rehabilitation of Service Connections M-01, P-01, and SMR-01 FM-01, P-01, and SMR-01 , of the Upper Feeder, Specifications No.1684 Contract No. 1709

Owner Name: Metropolitan Water District
Address: 700 North Alameda Street, 3rd Fl. , Los Angeles, CA 90012-2944
Description of work: Rehabilitation of Service Connections
Contract Amount: \$470,521.00
Owner Contact Name: Brian M. May
Owner Contact Phone: 909-215-5711
Owner Contact Fax:
Year Completed: 2011
Project Manger: Amir Eskandrous

Project Title: El Encanto Convalescent Hospital - Emergency Power to Existing Heating System 555 El Encanto Road City of Industry, Ca 91745

Owner Name: City of Industry, 15651 East Stafford Street City of Industry, CA 91744 Ph: (626) 333-2211
Address:
Description of work: Install Emergency Power to Existing Heating System
Contract Amount: \$467,338.09
Owner Contact Name: Jerry Perez

Owner Contact Phone: (626) 333-0336

Owner Contact Fax: (626) 336-7076

Year Completed: 2007

Project Manger: Tim Elgandy

Project Title: "Sierra Vista Middle School Modernization"
Project No. 512M1-8-861, Bid Package 03-1 "Structural / Site Concrete, Reinforcing, Asphaltic"

Owner Name Address: Irvine Unified School District, 4861 Michelson Dr, Irvine, CA 92612

Description of work: "Structural / Site Concrete, Reinforcing, Asphaltic"

Contract Amount: \$452,000.00

Owner Contact Name: Mr. Jeff Marshall

Owner Contact Phone: (949) 939-8854

Owner Contact Fax: (949) 654-0190

Year Completed: 2010

Project Manger: Tim Elgandy

Project Title: Replacement of Playground Equipment at Dolphin Park, and Calas Park, Bid No. B09-03, R041397

Owner Name Address: City of Carson Parks and Recreation, 2400 E. Dominguez St. Carson, CA 90

Description of work: Replacement of Playground Equipment

Contract Amount: \$397,000.00

Owner Contact Name: Cedric Hicks Nar Peralta

Owner Contact Phone: (310) 864.3571

Owner Contact Fax:

Year Completed: 2010

Project Manger: Amir Eskandrous

Project Title: PW 0506-6 18, Fullerton College Fire Alarm System Upgrade Phase 3

Owner Name Address: North Orange County Community College District, 1830 W. Romneya Drive Anaheim, CA 92801-1819

Description of work: Fire Alarm System Upgrade

Contract Amount: \$391,759.00

Owner Contact Name: Tanya Sundnes

Owner Contact Phone: (714) 732-5770

Owner Contact Fax: (714) 446-0770

Year Completed: 2008

Project Manger: Tim Elgendy

Project Title: Project No. 9X25, Foothill Law & Justice Center Fire Alarm Upgrade Rancho Cucamonga, California"

Owner Name Address: County of San Bernardino 385 North Arrowhead Ave, San Bernardino, CA 91415

Description of work: Project No. 9X25, Foothill Law & Justice Center Fire Alarm Upgrade Rancho Cucamonga, California"

Contract Amount: \$337,000.00

Owner Contact Name: Paul De Armond

Owner Contact Phone: (909) 387-3096

Owner Contact Fax: (909)387-5050

Year Completed: 2011

Project Manger:

Project Title: Communications Conduits at Santa Ana College Bid # 937

Owner Name Address: Rancho Santiago Community College District, 2323 North Broadway Santa Ana, CA 92706

Description of work: Communications Conduits

Contract Amount: \$329,999.00

Owner Contact Name: Robert C. Brown

Owner Contact Phone: (714) 480-7513

Owner Contact Fax: (714) 796-3907

Year Completed: 2003

Project Manger: Moses Khalili

Project Title: Dispatch & Server Room Electrical, Santa Monica College

Owner Name Address: Santa Monica Community College District, 1900 Pico Blvd. Santa Monica, CA 90405-1628

Description of work: Dispatch & Server Room Electrical

Contract Amount: \$327,000.00

Owner Contact Name: Greg Brown

Owner Contact Phone: (310) 434-4203

Owner Contact Fax: (310) 434-4328

Year Completed: 2007

Project Manger: Tim Elgandy

Project Title: Security Lighting at 8 Schools- EMCSA A0202

Owner Name Address: El Monte School District, 3540 Lexington Ave. El Monte, CA 91731-2684

Description of work: Security Lighting at 8

Contract Amount: \$277,000.00

Owner Contact Name: Atta Alsaleh

Owner Contact Phone: (909) 305-2332

Owner Contact Fax: (909) 305-2180

Year Completed: 2003

Project Manger: Moses Khalili

Project Title: C0994H Carson Street Fence Project at Liberal Arts Campus Long Beach City College

Owner Name Address: Long Beach Community College District, 4901 East Carson St. Long Beach, CA 90808

Description of work: Install 5KV/480V substation transformer and distribution system

Contract Amount: \$277,000.00

Owner Contact Name: Dana Morley

Owner Contact Phone: (562) 938-4488

Owner Contact Fax: (949) 292-2037

Year Completed: 2009

Project Manger: Tim Elgendy

Project Title: Site and Utilities work for 2 Story Modular Structures at Hawthorne High School 4859 W. El Segundo Blvd., Hawthorne, CA 90250

Owner Name Address: Centinela Valley Union High School Dist. ,14901 Inglewood Ave. Lawndale, CA 90260

Description of work: Site and Utilities work for 2 Story Modular Structures

Contract Amount: \$268,852.92
Owner Contact Name: Howard Dobbins
Owner Contact Phone: (323) 216-7493
Owner Contact Fax: (323) 965-7445
Year Completed: 2002
Project Manger: Ash Gadalla

Project Title: #1126 Fire Alarms Replacement Phase II at Santa Ana College Rancho Santiago Community College District

Owner Name Address: Rancho Santiago Community College District, 2323 North Broadway, Santa Ana, CA 92706-1640

Description of work: Fire Alarms Replacement

Contract Amount: \$247,700.00

Owner Contact Name: Darryl A. Odum

Owner Contact Phone: (714) 480-7513

Owner Contact Fax: (714) 796-3907

Year Completed: 2010

Project Manger: Moses Khalili

Project Title: Fire alarm System at Education Center East Los Angeles Office of Education Contract No. 034447:05:06

Owner Name Address: Los Angeles County Office of Education Los Angeles County Office of Education, 9300 Imperial Highway Downey, CA 90242-2890

Description of work: Fire Alarm System Replacement

Contract Amount: \$148,831.13

Owner Contact Name: Edgar Paz

Owner Contact Phone: (562) 427-5007

Owner Contact Fax: (562) 427-3007

Year Completed: 2006

Project Manger: Moses Khalili

Project Title:

Bid # C0490 Electrical Upgrade, Building "A" at the Liberal Arts Campus Long Beach Community College District

Owner Name Address: Long Beach Community College District, 4901 East Carson St. Long Beach, CA 90808

Description of work: Electrical Upgrade,

Contract Amount: \$147,770.00

Owner Contact Name: Bob Johnson

Owner Contact Phone: (562) 936-4692

Owner Contact Fax:

Year Completed: 2004

Project Manger: Moses Khalili

Project Title:

Electrical Upgrade at Whitney High School - Bid #1233 ABC Unified School District

Owner Name Address: ABC Unified School District, 6700 Norwalk Boulevard Cerritos, CA 90703

Description of work: Electrical Upgrade

Contract Amount: \$97,775.00

Owner Contact Name: Robert Kay

Owner Contact Phone: (562) 926-5566 ext. 21416

Owner Contact Fax: (562) 926-8346

Year Completed: 2003

Project Manger: Refaat Mina

Project Title:

Bid: Civic Center Parking Lot Lighting Retrofits- B2011-16
Contract # C2011-103 Contract for Civic Center Parking Lot Lighting Retrofit
City of Torrance

Owner Name: City of Torrance
Address: 3031 Torrance Blvd. Torrance CA 90503

Description of work: Parking Lot Lighting Retrofits

Contract Amount: \$66,340.00

Owner Contact Name: Diane Megerdichian

Owner Contact Phone: 310.781.7151

Owner Contact Fax: 310.781.7199

Year Completed: 2011

Project Manger: Moses Khalili

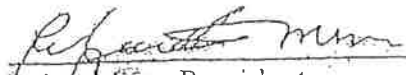
RESOLUTION
OF
MINAKO AMERICA CORPORATION
DBA
MINCO CONSTRUCTION

Whereas, the Board of Directors of Minako America Corporation convened on November 1, 2004; and

Whereas, by unanimous vote authorized Refaat Mina, as President and Secretary of the corporation; to sign on behalf of the corporation.

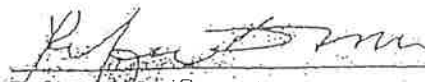
RESOLVED, that the Chairman of the Board, the President and any Vice President of the corporation be, and that each of them hereby is, authorized to execute any and all documents necessary for the transaction of corporate business, including but not limited to contracts, bonds, leases, loans and documents of title; and that the officers and the corporation agree to be bound by the execution of any obligations executed by said officers.

IN WITNESS WHEREOF, Minako America Corporation, dba, Minco Construction, has caused these presents to be signed by its respective President and attested by its Secretary this 1st day of November, 2004.



Refaat Mina, President

ATTEST:



Refaat Mina, Secretary



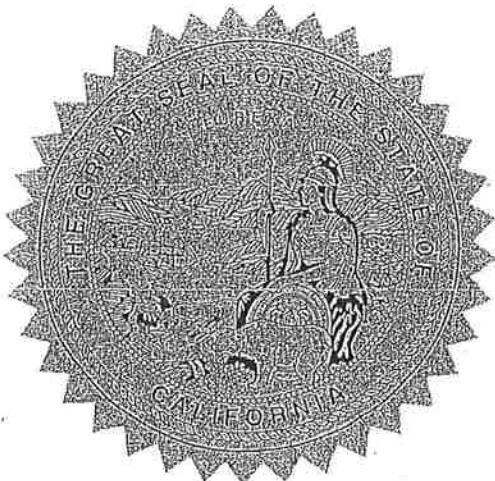
SECRETARY OF STATE

I, *BILL JONES*, Secretary of State of the State of California, hereby certify:

That the attached transcript of 2 page(s) has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this day of

OCT 01 2002



Bill Jones

Secretary of State

ARTICLES OF INCORPORATION
OF
Minako America Corporation

ENDORSED-FILED
In the Office of the Secretary of State
of the State of California

OCT 01 2002


BILL JONES, Secretary of State

I

The name of this corporation is **Minako America Corporation**

II

The purpose of this corporation is to engage in any lawful act or activity for which a corporation may be organized under the General Corporation Law of California other than the banking business, the trust company business or the practice of a profession permitted to be incorporated by the California Corporations Code.

III

The name and address in the State of California of this corporation's initial agent for service of process is Mark D. Holmes, 301 E. Ocean Boulevard, Suite 550, Long Beach, CA 90802

IV

This corporation is authorized to issue only one class of shares of stock; and the total number of shares that this corporation is authorized to issue is 1,000,000.

V

All of the corporation's issued shares of stock of all classes shall be held of record by not more than thirty-five persons. The corporation is a close corporation.

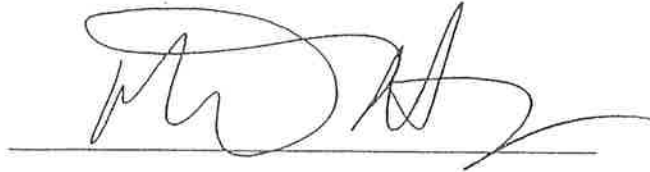
VI

The liability of the directors of this corporation for monetary damages shall be eliminated to the fullest extent permissible under California law.

VII

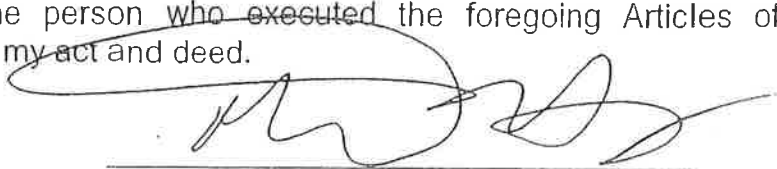
The corporation is authorized to provide indemnification of agents (as defined in Section 317 of the Corporations Code) for breach of duty to the corporation and its stockholders through bylaw provisions or through agreements with the agents, or both, in excess of the indemnification otherwise permitted by Section 317 of the Corporations Code, subject to the limits on such excess indemnification set forth in Section 204 of the Corporations Code.

Dated: September 26, 2002



Mark Holmes, Incorporator

I hereby declare that I am the person who executed the foregoing Articles of Incorporation, which execution is my act and deed.



Mark Holmes, Incorporator





State Of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE



License Number

612429

Entity

CORP

Business Name

**MINAKO AMERICA CORPORATION
DBA MINCO CONSTRUCTION**

Classification(s)

A B C-7 C10

Expiration Date

09/30/2012

www.cslb.ca.gov



Minako America Corporation
dba Minco Construction
522 E. Airline Way
Gardena, CA 90248
310-516-8100

Sealed bid for:
Riverside Public Defender
Remodel
Project Number:
FM08240003992
May 30, 2012 @ 9:00 a.m.

To:
County of Riverside
The Clerk of the Board of Supervisors
Administrative Center, 1st floor
4080 Lemon Street
Riverside, CA 92501

RECEIVED RIVERSIDE COUNTY
CLERK / BOARD OF SUPERVISORS
2012 MAY 30 AM 9:54