ADDENDUM NO. 03 **Date: May 7, 2026**
To Drawings and Specifications dated 03/17/2026

PROJECT: **Willmore ES HVAC Upgrade & Modernization**
A#04-124971
Westminster School District

PROJECT LOCATION: 7122 Maple St
Westminster, CA 92683

PROJECT ARCHITECT PBK Architects
2400 E. Katella Ave., Ste 950
Anaheim, CA 92806

This Addendum forms a part of the Contract Documents. It modifies the original Project Manual and Drawings, as well as any Addendum previously issued, as noted below. Bidders are required to acknowledge receipt of this Addendum in the space provided in the proposal form. Failure to acknowledge receipt of each addendum may subject bidder to disqualification.

SPECIFICATIONS:

Item No. 1-01: **23 00 001** **HVAC**

1. OFCI note updated
2. Refrigerant reference updated

DRAWINGS:

Item No. 1-02: **G0.05** **ENLARGED SITE PLAN**

3. Revised detail 4, Parking Lot 1 – Enlarged Site Proposed Plan

Item No. 1-03: **G0.06** **SITE DETAILS**

4. Revised detail 14, accessible drinking fountain
5. Revised detail 17, truncated dome mat.

Item No. 1-04: **D0.02** **SITE DEMOLITION PLAN**

6. Revised detail 1, Parking Lot 1 – Enlarged Site Demo Plan

Item No. 1-05: **D1.01** **DEMO FLOOR PLAN**

7. Revised detail 2, Kindergarten Bldg K – Demo Floor Plan

Item No. 1-06: **D1.02** **DEMO FLOOR PLAN**

8. Revised graphic between demolition keynote & demolition legend
9. Revised detail 17, truncated dome mat.

Item No. 1-07: **A1.01** **FLOOR PLAN**

10. Revised remodel plan legend.
11. Revised paint scope of work.

Item No. 1-08: **A1.02** **FLOOR PLAN**

12. Revised remodel plan legend.
13. Revised paint scope of work.

Item No. 1-09: **A3.01** **OVERALL ROOF PLAN**

14. Revised roof plan, Admin Building. Remove and replace existing gutter and downspouts.

Item No. 1-10: **S-1.1 DETAILS**

15. Added new detail 11/S-1.1 for a CONCRETE PAD ON EXISTING SLAB.

Item No. 1-11: **M2.01** **MECHANICAL FLOOR PLANS**

16. Revised Key Notes 10 & 13
17. Revised detail 1, Kindergarten – Floor Plan

Item No. 1-12: **M5.01** **MECHANICAL SCHEDULES**

18. Revised Indoor Fan Coil Unit Schedule
19. Revised Outdoor Heat Pump/Condensing Unit Schedule

Item No. 1-13: **M6.02** **MECHANICAL DETAILS**

20. Revised detail 16, Floor Mount Vertical Fan Coil Unit Detail

Item No. 1-14: **E0.01** **ELECTRICAL SITE PLAN**

21. Revised Key Notes, 7

Item No. 1-15: **PD2.01** **PLUMBING FLOOR PLAN - DEMOLITION**

22. Revised Demolition Key Notes, 3
23. Revised detail 1, Admin – Demo Floor Plan
24. Revised detail 3, Kindergarten – Demo Floor Plan

Item No. 1-16: **PD2.02** **PLUMBING FLOOR PLANS - DEMOLITION**

25. Revised Demolition Keynotes, #3
26. Revised detail 1, Floor Plan – Bldg A&B – Demo Floor Plan
27. Revised detail 2, Floor Plan – Bldg C&D – Demo Floor Plan

Item No. 1-17: **P2.01** **PLUMBING FLOOR PLANS**

28. Revised Key Notes, #5 & #9
29. Revised detail 1, Admin – Floor Plan
30. Revised detail 3, Kindergarten – Floor Plan

Item No. 1-18: **P2.02** **PLUMBING FLOOR PLANS**

31. Revised Key Notes, #5
32. Revised detail 1, Floor Plan – Bldg A&B
33. Revised detail 2, Floor Plan – Bldg C&D

Item No. 1-19: **P5.01** **PUMBLING SCHEDULES**

34. Revised Fixture Schedule

END OF ADDENDUM 03

SECTION 23 00 01 - HEATING, VENTILATING AND AIR CONDITIONING

PART 1 GENERAL

1.1 GENERAL CONDITIONS

A. The foregoing Section 23 00 00, General Mechanical Provisions shall form a part of this specification.

1.2 SCOPE

A. Included: Perform all work necessary and required to complete construction as indicated. Such work includes the furnishings of all labor, materials, and services necessary for a complete, lawful, and operating air conditioning, heating, ventilating system with all equipment as shown or noted on the drawings or as specified herein. The work includes, but is not necessarily limited to, the following:
1. Heating, ventilating and air conditioning equipment.
2. Air distribution system (Ductwork, Air Terminals, etc.).
3. System insulation.
4. Controls and control wiring and conduit for control wiring.

B. Work Specified Elsewhere:
1. Line voltage power wiring (60 volts or greater), motor starters in motor control centers, and disconnect switches are included in the electrical section.
2. Connection of gas and condensate drains to equipment.
3. Access doors.

PART 2 MATERIALS

2.1 DUCTWORK MATERIALS

A. General: All ductwork materials shall have fire and smoke hazard ratings as tested under ASTM E-84 and UL-181 not exceeding a flame spread of 25 and smoke developed of 50. All ductwork shall be per Chapter 6 of the CMC.

B. Low Velocity Metal Ductwork: Metal ductwork shall be galvanized sheet steel, ASTM A653.

C. Low Velocity Flexible Ductwork: Insulated flexible ductwork. Continuous internal liner bonded to galvanized steel wire helix. One pound per cubic foot glass fiber insulation, R-8. Thermal conductivity shall not exceed 0.13 Btu/hr. sq. ft.- degrees F at a mean temperature of 75°F. Seamless vapor barrier jacket. Each length shall have a factory installed metal sleeve at each end. Duct shall be capable of continuous operation at 1.5" of water static pressure and 4000 ft./ min. air velocity. Maximum length 5 ft., single piece at runouts to air terminals. Genflex, Lamborn or equal.

D. Spiral Duct: Ductwork shall be galvanized steel with uni-seal spiral seamlock and uni-seal fittings, ASTM A653. United McGill Corp or equal. All exposed spiral duct shall be painted, color selected by Owner.

E. Bonding Adhesive: Durodyne WBG, Scotchgrip Adhesive 4230 or equal.

F. Duct Mastic: Minnesota Mining and Manufacturing Duct Sealer 800, Tuff-Bond No. 12, Glencoat Seal-Flex or equal.

G. Duct Joints:
1. As an option to joints and seams designated by SMACNA or shown on Drawings, the following systems may be used:
   a. Ducts with sides 24 inches to 48 inches, transverse duct joint system by Ductmate Jr., Nexus or equal (SMACNA "E" Type connection).
   b. Ducts 48 inches and larger, Ductmate Regular, Nexus (SMACNA "J" Type connection) or equal.

H. Fiber Tape: Mineral impregnated fiber tape and plastic activator-adhesive. Hardcast, Inc., United McGill Uni-Cast or equal.

2.2 AIR TERMINALS AND DUCT FITTINGS

A. Grilles: (Grilles, Registers and Diffusers)
1. Information on Drawings: Refer to the Air Distribution Schedule on the drawings for the list of grilles. Manufacturer's model numbers are listed to complete the description. Equivalent models of J & J, Krueger, Barber-Colman, Anemostat, Price, Titus or equal. Refer to the floor plans for neck size, CFM, air diffusion pattern, and fire damper, if required.
2. Performance: If, according to the certified data of the manufacturer of the proposed units, the sizes indicated on the drawings will not perform satisfactorily, the units shall be re-selected by the Contractor for the proper diffusion, spread, drop, and throw.
3. Frame and Accessories: All supply, return, and exhaust grilles shall be provided with cushion heads and attachments to structure, unless otherwise noted. All surface mounted grilles shall have a perimeter gasket and flanged edge. All grilles shall have frames suitable for mounting in the surfaces designated by the architectural drawing, coordinate prior to ordering.
4. Finish: All ceilings and wall grilles shall have a paintable white finish unless otherwise noted. Interior components shall be flat black.
5. Gyms: Provide 12 Ga. wire safety cables for all overhead grilles in Gym.

B. Turning Vanes: Double wall, hollow metal, air-foil shape. Spacing in accordance with manufacturer's recommendations. Aero Dyne, HEP or equal.

C. Flexible Connection: UL listed neoprene coated 30-ounce fiberglass cloth. 3" metal, 6" fabric, 3" metal. Ventglas or equal.

D. Branch Duct Volume Damper: Volume control damper (VCD) in rectangular ducts shall be as follows: Opposed blade, 6” maximum blade width, 16-gage blade, 48” maximum length, nylon or oil impregnated bronze bearings, ½” diameter pin shaft, 16-gage channel frame, actuating rod and linkage out of air stream. VCD in round duct shall be as follows: Damper blade full height of branch and 1” less than branch width. All branch dampers shall have regulator with stamped steel handle, spring loaded shaft nut, cast body, and serrated self-locking die cast core. Regulator for horizontal ducts overhead shall be mounted on sides or bottom of ducts. Secure a 12” length of brightly colored plastic ribbon to handle for ease of location. Where rectangular or round ductwork is insulated, slit insulation to allow handle to protrude. Ventlok 641 (with 607 end bearing for round ducts).

E. Fire/ Smoke Damper: Multi-blade construction in accordance with CBC & CMC. UL 555 and UL 555S labels. Blades shall have metal-to-metal seals and not rely on actuator torque to maintain leakage rating. Prefco, Air Balance, Ruskin, Greenheck 5020-1 with 5800MB2 power open/spring close operator, or equal.

2.3 DUCTWORK INSULATION MATERIALS

A. General: All ductwork insulation materials shall have fire and smoke hazard ratings as tested under ASTM E-84 and UL-181 not exceeding a flame spread of 25 and smoke developed of 50.

B. Acoustic Lining: Glass fiber. One side coated to prevent fiber erosion up to 6000 ft./ min. Average noise reduction coefficient of 0.90. 0.13 Btu/ hr – sq. ft. – degrees F conductivity at a mean temperature of 75 degrees F, R-8. CSG Insulation Corp., Schuller, Owens-Corning, Knauf or equal. Duct dimensions shown on drawings for lined duct are clear (net) opening inside of lining.

C. Fiber Glass Blanket: Foil faced, 0.13 Btu/ hr – sq. ft. – degrees F conductivity at a mean temperature of 75 degrees F, R-8. CSG Insulation Corp., Schuller, Owens-Corning, Knauf or equal.

D. Bonding Adhesive: Benjamin Foster 85-15 or equal.

2.4 PIPING MATERIALS

A. Refrigerant Piping:
1. Type L hard temper seamless copper, ASTM B88. Wrought copper fittings ANSI B16.22. 95/ 5 tin-silver brazed joints. Provide schedule 40 PVC sleeve pipe for all below grade refrigerant piping. All piping shall be sized per equipment manufacturer requirements.
2. Valves and Specialties:
   a. Line Valves: Bronze body, ball type, TFE locked in seals. Back seated valve stem. Contromatics C-11.
   b. Filter-Drier: Replaceable core. Capacity in accordance with ARI Standard 710. Sporlan "Catch-All".
   c. Moisture Indicator-Sight Glass: Double port. Henry, Sporlan.
   d. Vibration Isolating Connection: Seamless flexible bronze tubing, braid covered. Suitable for system pressure. American, Flexonics.

B. Refrigerant Piping (Ductless Split System Multi-Zone):
1. Type ACR soft temper seamless copper, ASTM B280. Cast copper alloy fittings for flared copper tubes, ASME B16.26. Follow the Society of Automotive Engineers SAE J533 Standard-Flares for tubing. All piping shall be sized per equipment manufacturer requirements.
2. Valves and Specialties:
   a. Line Valves: Bronze body, ball type, TFE locked in seals. Back seated valve stem. Contromatics C-11.
   b. Filter-Drier: Replaceable core. Capacity in accordance with ARI Standard 710. Sporlan "Catch-All".
   c. Moisture Indicator-Sight Glass: Double port. Henry, Sporlan.
   d. Vibration Isolating Connection: Seamless flexible bronze tubing, braid covered. Suitable for system pressure. American, Flexonics.

C. Miscellaneous Piping Items:
1. Pipe Support:
   a. Pipe Hanger: Adjustable split ring, swivel hanger and rod. Black malleable iron. Size and maximum loads per manufacturer's recommendation. Felt Lined, Kin-Line 450 F.
   b. Construction Channel: 12 gage 1-5/8" x 1-5/8" steel channel. Single or multiple sections. Self-locking nuts and fittings. Kin-Line, Unistrut.
2. Pipe Sleeves: 24 gage galvanized steel. Adjus-to-Crete #10 with #99 thimble for floors. #100 for walls.

D. Flashing: Flashing for piping through roof shall be prefabricated 24 gage galvanized steel roof jacks with 8" square flange around pipe. Seal with weatherproofing mastic.

2.5 PIPING INSULATION MATERIALS

A. General: All piping insulation materials shall have fire and smoke hazard ratings as tested under ASTM E-84 and UL 723 not exceeding a flame spread of 25 and smoke developed of 50.

B. Refrigerant Piping: Rubber based elastomeric preformed pipe insulation. Thermal conductivity shall not exceed 0.25 Btu-in/hr-SF-degree F at mean temperature of 75 degrees F., 3/4" thick. Provide aluminum pipe and fitting jacketing. 0.016" thickness for straight pipe, 0.024" thickness for fittings with integral moisture barrier, pre-fabricated strapping and seals for piping exposed to weather, Childers, Pabco or equal.
1. Insulation shall be provided on both refrigerant lines for ductless split systems.

2.6 EQUIPMENT

A. General Requirements:
1. Capacity: Capacities shall be in accordance with schedules shown on drawings. Capacities are to be considered minimum.
2. Dimensions: Equipment must conform to space requirements and limitations as indicated on drawings and as required for operation and maintenance. Where Architectural screening is indicated, equipment shall not extend above or beyond screening. Equipment will not be accepted that does not readily conform to space conditions. Prepare and submit layout drawings for all proposed equipment (different than scheduled units) showing actual job conditions, required clearances for proper operation, maintenance, etc.
3. Ratings:
   a. Gas: Gas burning equipment shall be furnished with 100% safety gas shut-off, intermittent pilot ignition, and be CSA (US) certified, except that boilers shall be CSA (US) certified or UL listed.
   b. Electrical: Electrical equipment shall be in accordance with NEMA Standards and UL or ETL listed where applicable standards have been established.
4. Piping: Each item or assembly of items shall be furnished completely piped for connection to services. Control valves and devices shall be provided. Equipment requiring domestic water for non-potable use shall be provided with backflow preventer acceptable for intended use by local governing authorities.
5. Electrical:
   a. General: Each item or assembly of items shall be furnished completely wired to individual terminal blocks for connection to single branch electrical circuit. All electrical accessories and controls required by equipment shall be furnished. Provide terminal blocks for controls and interlocks not included in equipment package. Manual and magnetic starters shall have ambient compensating running overcurrent protection in all ungrounded conductors. Magnetic starters shall be manual reset, shall have H-O-A switches and auxiliary contacts. Controllers and other devices shall be in NEMA 1 or 3R enclosures as applicable.
   b. Wiring: Conductors, conduit, and wiring shall be in accordance with Electrical Specifications. Individual items within assembly shall be separately protected with dead front, fused disconnect, fuse block, or circuit breaker for each ungrounded conductor, all accessible on operating side of equipment. Switches, contacts, and other devices shall be in ungrounded conductors.
   c. Motors: Shall be rated, constructed, and applied in accordance with NEMA and ANSI Standards without using service factor. Single-phase motor shall be of type to suit application. Three-phase motors shall be open drip proof, NEMA B design

on pumps and fans, NEMA C on reciprocating equipment, sealed ball bearing, three-phase induction unless otherwise noted. Design shall limit starting inrush current and running current to values shown on drawings. Motors 1 horsepower and larger shall be the premium efficiency type, tested according to IEEE Standard 112, Method B. Motors exposed to weather shall be TEFC. Motors in a fan air stream shall be TEFC or TEAO. Vertical motors outdoors shall be ODP or TEFC and shall have rain caps.

d. Starters: Motor starters shall be furnished for all equipment except where starter is in a motor control center as designated on the electrical drawings. Deliver starter to Electrical Contractor for installation and wiring.
e. Control Voltage: Equipment connected to greater than 240 volts shall be provided with 120 volt control circuit from integral protected transformer if separate source is not indicated on plans. 240 volt control is acceptable if confined within control panel.
f. Submittals: Included in shop drawings shall be internal wiring diagrams and manufacturer's recommend external wiring.

6. Fan Selection:
   a. Fan Curves: Performance curves shall be submitted for all units of 3000 CFM or greater. Operating point for forward curved fans shall be from point of maximum efficiency towards increased CFM limited by horsepower scheduled. Operating point for backward inclined fans shall be selected near point of maximum efficiency. Curves shall plot CFM verses static pressure with constant brake horsepower, RPM, and efficiency lines.
   b. Static Pressure: Unless otherwise noted, pressure scheduled as external static pressure (ESP) includes all ductwork and accessory losses external to the unit housing. Unless otherwise noted, pressure scheduled as total static pressure includes all ductwork, filter, coil, cabinet, damper, and other accessory losses. Unless otherwise noted, pressure scheduled as duct static pressure includes all supply and return ductwork and accessory losses external to the unit housing and plenum (as applicable). The allowance for filter losses is 0.3" WC, unless otherwise noted. Submit itemized static pressure losses for all components.
7. Filters:
   a. General: Tested and rated in accordance with ASHRAE Standard 52.2 and Title 24, C.C.R. Furnish and install one complete change of all filters after air balance in completed and prior to acceptance. Provide pressure differential gage across all filter banks.
   b. Filter Media: 2" media. MERV 13. Clean filter resistance 0.25" water at 500 fpm. Throw-away frame. Class 2. Camfil Farr AP.
   c. Pressure Differential Gage: Diaphragm actuated. 4" dial. Zero adjustment. Accuracy +/ - 2% of full scale. Range as required. Provide static pressure sensors, tubing, and mounting brackets. Dwyer Series 2000. Mark gage to indicate filter replacement pressure, coordinate point with filter and equipment manufacturers.
8. Mixing Dampers: Opposed blade, 16-gage. Six-inch maximum blade width, 48" maximum length. Nylon or oil impregnated bronze bearings. One-half inch diameter pin shaft. 16- gage channel frame. One percent maximum leakage at 4" WC in accordance with AMCA 500 for outside air dampers. Actuating rod out of air stream. Arrow.
9. Sound Ratings: Shall be in accordance with ASHRAE 36-72. Sound ratings shall not exceed scheduled values.
10. Drives: Unless noted as direct connected, drives shall be V-belt, rated at 150% of motor horsepower. Multiple drive belts shall be matched set. Drive sheaves shall be dynamically balanced, adjustable, range +/ - 10%, selected at mid-range. Adjustable relative movement shall be lockable to shaft. Belts shall be aligned within 1-1/2 degrees at all times. Open drives shall be provided with OSHA approved open mesh belt guards. Belt guards exposed to weather shall be weatherproof enclosure with louvered face for adequate ventilation. Driving motor shall be mounted on adjustable

rails. T.B. Woods, Browning. Submit RPM range of driven machine with drive selection.

B. Variable Refrigerant Flow (VRF) Air Conditioning Specification – Heat Pump:

1. ~~All equipment under this section shall be~~ Owner Furnished Contractor Installed (OFCI). **Exception, Kindergarten classroom unit.** 2

2. System Description:
   a. The variable capacity, heat pump air conditioning system shall be a Samsung, Toshiba, Daikin, Mitsubishi, Carrier, Trane or approved equal. Variable Refrigerant Flow Series (heat/cool model) split system. The system shall consist of multiple evaporators using PID control, and condensing unit. The outdoor units shall be a nominal 3 ton, 4 ton, or 5 ton direct expansion (DX), air-cooled heat pump air-conditioning system, inverter driven variable speed compressor, multi-zone split system, using **R-454B or R32** refrigerant. The outdoor unit may connect an indoor evaporator capacity up to 130% to that of the outdoor condensing unit capacity. All indoor units are each capable of operating separately with individual temperature control. 2
   b. The outdoor unit shall be interconnected to indoor unit and shall range in capacity from 7,500 Btu/h to 54,000 Btu/h in accordance with manufacturer's engineering data book detailing each available indoor unit. The indoor units shall be connected to the condensing unit utilizing manufacturer's specified piping joints and headers to ensure correct refrigerant flow and balancing. T style joints are not acceptable.
   c. Operation of the system shall permit either cooling or heating of all of the indoor units. Each indoor unit or group of indoor units shall be able to provide set temperature independently via a local remote controller, an Intelligent Touch Controller (ITC), an Intelligent Touch Manager (ITM) or a BMS interface.

3. VRF Features and Benefits:
   a. Voltage Platform: Heat pump condensing units shall be available in 208-230V/1/60 configurations.
   b. Advanced Zoning: A single system shall provide for up to 10 zones.
   c. Independent Control: Each indoor unit shall use a dedicated electronic expansion valve for independent control.
   d. VFD Inverter Control: Each condensing unit shall use a high efficiency, variable speed "inverter" compressor coupled with inverter fan motors for superior part load performance.
   e. Compressor capacity shall be modulated automatically to maintain a constant suction pressure, while varying the refrigerant volume for the needs of the cooling or heating loads.
   f. Indoor units shall use PID control to control superheat to deliver a comfortable room temperature condition.
   g. Variable Refrigerant Temperature (VRT) Control: Each condensing unit shall utilize an algorithm to automatically adjust the refrigerant suction and condensing temperatures in response to the heating and cooling loads, and in response to the current weather conditions. The VRT control shall be capable of being customized in the following modes and sub-modes:
      i. Automatic (factory preset): The Automatic VRT mode shall allow the target evaporator temperature (Te) and target condensing temperature (Tc) to float based on outdoor ambient temperature conditions, and shall incorporate the following sub-modes: Powerful, Quick, and Mild (factory preset).
      ii. High Sensible: The High Sensible mode shall allow the system Te and Tc values to be programmed to series of fixed Te and Tc values. The High Sensible mode shall also be capable of incorporating the following sub-mode: Eco.
      iii. Basic: The Basic mode shall disable the VRT control of the outdoor unit and allow the system to operate with constant Te and Tc values.
   h. Flexible Design:

i. Linear piping distance between the condensing unit and furthest located indoor unit shall be per manufacturer's recommendations.
ii. Total "one-way" piping distance in the piping network shall be per manufacture's recommendations.
iii. Vertical (height) separation between the condensing unit and the indoor unit units shall be per manufacturer's recommendations.
iv. The outdoor unit shall connect an indoor evaporator capacity up to 130% of the outdoor condensing unit capacity.

i. Simple Wiring: Systems shall use 2 wire, multi-stranded, non-shielded and non polarized daisy chain control wiring.
j. Advanced Diagnostics: Systems shall include a self diagnostic, auto-check function to detect a malfunction and display the type and location.
k. Advanced Controls: Each system shall have at least one remote controller capable of controlling up to 16 indoor unit units.

Quality Assurance:

a. The units shall be tested by a Nationally Recognized Testing Laboratory (NRTL), in accordance with ANSI/UL 1995 – Heating and Cooling Equipment and bear the Listed Mark.
b. All wiring shall be in accordance with the National Electric Code (NEC).
c. Each combination shall be rated in accordance with Air Conditioning, Heating and Refrigeration Institute's (AHRI) Standard 210/240 and bear the AHRI label.
d. The system will be produced in an ISO 9001 and ISO 14001 facility, which are standards set by the International Standard Organization (ISO). The system shall be factory tested for safety and function.
e. The outdoor unit will be factory charged with **R-454B or R-32**.

Delivery, Storage and Handling:

a. Unit shall be stored and handled according to the manufacturer's recommendations.

Standard Limited Warranty:

a. Manufacturer shall warrants original owner of the non-residential building products are installed that under normal use and maintenance for comfort cooling and conditioning applications such products (the "Products") will be free from defects in material and workmanship. This warranty applies to compressor and all parts and is limited in duration to ten (10)
years starting from the ''installation date'' which is one of the two dates below:
i. The installation date is the date that the unit is originally commissioned, but no later than 18 months after the manufacture date noted on the unit's rating plate.
ii. If the date the unit is originally commissioned cannot be verified, the installation date is three months after the manufacture date.

Outdoor Unit:

a. General: The outdoor unit is designed specifically for use with VRF series components.
i. The outdoor unit shall be factory assembled and pre-wired with all necessary electronic and refrigerant controls. The refrigeration circuit of the condensing unit shall consist of a compressor, motors, fans, condenser coil, electronic expansion valves, solenoid valves, 4-way valve, distribution headers, capillaries, filters, shut off valves, oil separator, service ports and suction line accumulator. Liquid and suction lines must be individually insulated between the outdoor and indoor units.
ii. The outdoor unit can be wired and piped with outdoor unit access from the left, right, rear or bottom.
iii. The connection ratio of indoor units to outdoor unit shall be permitted up to 130%.
iv. The outdoor system shall be able to support the connection of up to 10 indoor unit's dependent on the model of the outdoor unit.
v. The sound pressure level standard shall be that value as listed in the engineering manual for the specified models at 3 feet from the front of the unit. The outdoor unit

shall be capable of operating automatically at further reduced noise during night time.

vi. The system will automatically restart operation after a power failure and will not cause any settings to be lost, thus eliminating the need for reprogramming.

vii. The outdoor unit shall allow for side-by-side installation with minimum spacing.

viii. The following safety devices shall be included on the condensing unit; high pressure switch, low pressure sensor, control circuit fuses, crankcase heaters, fusible plug, overload relay, inverter overload protector, thermal protectors for compressor and fan motors, over current protection for the inverter and anti recycling timers.

ix. To ensure the liquid refrigerant does not flash when supplying to the various indoor unit units, the circuit shall be provided with a sub-cooling feature.

x. Oil recovery cycle shall be automatic occurring 2 hours after start of operation and then every 8 hours of operation.

xi. The outdoor unit shall be capable of heating operation at 0°F dry bulb ambient temperature without additional low ambient controls.

b. Unit Cabinet:

i. The outdoor unit shall be completely weatherproof and corrosion resistant. The unit shall be constructed from rust-proofed mild steel panels coated with a baked enamel finish.

c. Fan:

i. The condensing unit fan(s) shall consist of propeller type, direct-drive fan motors that have multiple speed operation via a DC (digitally commutating) inverter.

ii. The fan shall be a horizontal discharge configuration with a nominal airflow maximum range of 3,740 CFM.

iii. The fan motor shall have inherent protection and permanently lubricated bearings and be mounted.

iv. The fan motor shall be provided with a fan guard to prevent contact with moving parts.

d. Condenser Coil:

i. The condenser coil shall be manufactured from copper tubes expanded into aluminum fins to form a mechanical bond.

ii. The heat exchanger coil shall be of a waffle louver fin and rifled bore tube design to ensure high efficiency performance.

iii. The heat exchanger on the condensing units shall be manufactured from Hi-X seamless copper tube.

iv. The fins are to be covered with an anti-corrosion acrylic resin and hydrophilic film type E1.

v. E-coated Aluminum-Fin Evaporator and Condenser Coils (3-Phase Models Only):

1) Shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.

2) Coating process shall ensure complete coil encapsulation of tubes, fins and headers.

3) Color shall be high gloss black with gloss per ASTM D523.

4) Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges.

5) Superior hardness characteristics of 2H per ASTM D3363 and cross-hatch adhesion of R-454B per ASTM D3359.

6) Impact resistance shall be up to 160 in.-lb (ASTM D2794).

7) Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247 and ASTM D870).

8) Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117.

e. Compressor:

i. The compressor shall be variable speed controlled which is capable of changing the speed to follow the variations in total cooling and heating load as determined by the suction gas pressure as measured in the condensing unit. In addition, samplings of evaporator and condenser temperatures shall be made so that the high/low pressures detected are read every 20 seconds and calculated. With each reading, the compressor capacity shall be controlled to eliminate deviation from target value.
ii. The inverter driven compressor in each condensing unit shall be of highly efficient reluctance DC (digitally commutating), hermetically sealed swing type.
iii. Neodymium magnets shall be adopted in the rotor construction to yield a higher torque and efficiency in the compressor instead of the normal ferrite magnet type. At complete stop of the compressor, the neodymium magnets will position the rotor into the optimum position for a low torque start.
iv. The capacity control range shall be 14% to 100%.
v. The compressor shall be equipped with a crankcase heater, high pressure safety switch, and internal thermal overload protector.
vi. Oil separators shall be standard with the equipment together with an intelligent oil management system.
vii. The compressor shall be spring mounted to avoid the transmission of vibration.

f. Electrical:
i. The power supply to the outdoor unit shall be 208/230 volts, 1 phase, 60 hertz +/- 10%.
ii. The control voltage between the indoor and outdoor unit shall be 18VDC non-shielded, stranded 2 conductor cable.
iii. The control wiring shall be a two-wire multiplex transmission system, making it possible to connect multiple indoor units to one outdoor unit with one 2-cable wire, thus simplifying the wiring operation.

Concealed Ceiling Ducted Unit:

a. General: The indoor unit shall be a built-in ceiling concealed fan coil unit, operable with refrigerant **R-454B or R-32**, equipped with an electronic expansion valve, for installation into the ceiling cavity. It is constructed of a galvanized steel casing. It shall be available in capacities from 72,000 Btu/h to 96,000 Btu/h. Indoor unit to be connected to outdoor unit heat pump. It shall be a horizontal discharge air with horizontal return air configuration. All models feature a low height cabinet making them applicable to ceiling pockets that tend to be shallow. Computerized PID control shall be used to control superheat to deliver a comfortable room temperature condition. The unit shall be equipped with a programmed drying mechanism that dehumidifies while limiting changes in room temperature when used with remote control. The indoor units sound pressure shall be 48 dB(A) at low speed measured 5 feet below the ducted unit.
b. Performance: Each unit's performance is based on nominal operating conditions.
c. Indoor Unit:
i. The indoor unit shall be completely factory assembled and tested. Included in the unit is factory wiring, piping, electronic proportional expansion valve, control circuit board, fan motor thermal protector, flare connections, self-diagnostics, auto-restart function, 3-minute fused time delay, and test run switch. The unit shall have an adjustable external static pressure switch.
ii. Indoor unit and refrigerant pipes will be charged with dehydrated air prior to shipment from the factory.
iii. Both refrigerant lines shall be insulated from the outdoor unit.
iv. The indoor units shall be equipped with a return air thermistor.
v. The indoor unit will be separately powered with 208~230V/1-phase/60Hz.
vi. The voltage range will be 253 volts maximum and 187 volts minimum.
d. Unit Cabinet:
i. The cabinet shall be located into the ceiling and ducted to the supply and return openings.

ii. The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.

e. Fan:
   i. The fan shall be direct-drive Sirocco type fan, statically and dynamically balanced impeller with high and low fan speeds available.
   ii. The fan motor shall operate on 208/230 volts, 1 phase, 60 hertz, with a motor output of 0.51 HP.
   iii. The airflow rate shall be available in high and low settings.
   iv. The fan motor shall be thermally protected.
   v. The fan motor shall be equipped as standard with adjustable external static pressure (ESP) settings.
f. Coil:
   i. Coils shall be of the direct expansion type constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
   ii. The coil shall be of a waffle louver fin and high heat exchange, rifled bore tube design to ensure highly efficient performance.
   iii. The coil shall be a 3 row cross fin copper evaporator coil with 13 fpi design completely factory tested.
   iv. The refrigerant connections shall be flare connections and the condensate will be 1-5/16 inch outside diameter PVC.
   v. A thermistor will be located on the liquid and gas line.
g. Electrical:
   i. A separate power supply will be required of 208/230 volts, 1 phase, 60 hertz. The acceptable voltage range shall be 187 to 253 volts.
   ii. Transmission (control) wiring between the indoor and outdoor unit shall be per manufacturer's recommendations.
   iii. Transmission (control) wiring between the indoor unit and remote controller shall be per manufacturer's recommendations.
h. Control:
   i. The unit shall have controls provided to perform input functions necessary to operate the system.
   ii. The unit shall be compatible with interfacing with a BMS system via optional LonWorks or BACnet gateways.
   iii. The unit shall be compatible with a Daikin Intelligent Touch Manager advanced multi-zone controller.

4-Way Ceiling Cassette Indoor Unit:

a. The indoor unit shall be a ceiling cassette fan coil unit for installation into the ceiling cavity equipped with an air panel grille to be connected to indoor unit as scheduled and specified in this section. The indoor unit shall have a four-way air distribution type, ivory white, impact resistant, and washable decoration panel. The supply air shall be distributed via motorized louvers which can be horizontally and vertically adjusted from 0 degree to 90 degree angle.
b. Acoustic Performance: The indoor units sound pressure shall range from 27 dB(A) to 33 dB(A) at low speed measured at 5 feet below the unit.
c. Construction:
   i. The indoor unit shall be completely factory assembled and tested. The unit shall include factory wiring, piping, electronic proportional expansion valve, control circuit board, fan motor thermal protector, flare connections, condensate drain pan, condensate drain pump, self-diagnostics, auto-restart function, 3 minute fused time delay, and test run switch.
   ii. The 4-way supply airflow shall be field modifiable to 3-way and 2-way airflow to accommodate various installation configurations including corner installations.
   iii. Return air shall be through the concentric panel, which shall include a filter.
   iv. The indoor units shall be equipped with a condensate pan and condensate pump. The condensate pump shall provide up to 25" of lift.

v. The indoor units shall be equipped with a return air thermistor.
vi. The indoor unit shall be separately powered with 208-230V/ 1-phase/60Hz.
vii. The voltage range shall be 253 volts maximum and 187 volts minimum.

d. Unit Cabinet:
i. The cabinet shall be space saving and shall be located into the ceiling.
ii. The airflow of the unit shall have the ability to shut down one or two sides allowing for simpler corner installation.
iii. Provide fresh air intake kit where used and indicated on the drawings. A branch duct knockout shall exist for branch ducting supply air.
iv. The cabinet shall be constructed with sound absorbing foamed polystyrene and polyethylene insulation.

e. Fan:
i. The fan shall be direct-drive turbo fan type with statically and dynamically balanced impeller with high and low fan speeds available.
ii. The indoor unit shall operate with a power supply of 208/230 volts, 1 phase, 60 hertz. The allowable voltage range shall be 187 to 253 volts.
iii. The airflow rate shall be adjustable and have high, medium and low fan settings.
iv. The fan motor shall be thermally protected.

f. Filter: The return air shall be filtered by means of a washable long-life filter with mildew proof resin.

g. Coil:
i. Coils shall be of the direct expansion type constructed from copper tubes expanded into aluminum fins to form a mechanical bond.
ii. The coil shall be of a waffle louver fin and high heat exchange, rifled bore tube design to ensure highly efficient performance.
iii. The refrigerant connections shall be flare connections and the condensate shall be 1-1/4 inch outside diameter PVC.
iv. A condensate pan shall be located under the coil.
v. A condensate pump with a 25 inch lift shall be located below the coil in the condensate pan with a built in high level safety alarm to shut down the unit.
vi. A thermistor shall be located on the liquid and gas line.

C. Exhaust Fans:
1. General: All exhaust fans shall be tested and rated in accordance with AMCA Standard 210. Fans exposed to the weather shall have ventilated weatherproof housing over motor and drive assembly.
2. Ceiling Fan: Ceiling mounted direct drive centrifugal exhaust fan with exhaust grille. Motor mounted on rubber-in-shear isolators. Motor and fan removable through grille. Acoustically lined housing. Backdraft damper. UL listed. Penn, Cook, ACME, Greenheck or equal.
3. In-Line Fan: Attic mounted direct drive centrifugal exhaust fan. Motor shall be open drip proof with permanently lubricated sealed bearings and built-in thermal overload protection and disconnect plug. Acoustic lined housing. Backdraft damper. UL listed. Provide 24”x24” access panel with cylinder key lock when above hard ceiling. Penn, Cook, ACME, Greenheck or equal.

PART 3 EXECUTION

3.1 DUCTWORK INSTALLATION

A. General:
1. Standards: Unless otherwise noted, all ductwork shall be constructed and installed in accordance with current SMACNA "HVAC Duct Construction Standards". Ductwork and accessories shall be installed in a manner to prevent vibration and rattling.
2. Seismic Bracing: All ducts shall be braced and supported per details on the drawings.

3. Duct Access Doors: Provide access doors as required to adjust equipment and dampers.
4. Flexible Connections: Connections of ductwork to all equipment shall be with 6" (min.) flexible connection. Install with ample slack and uniform gap after deflection of vibration isolators. There shall be no metal to metal contact across flexible connection. Protect outdoor connections with weatherproof metal shroud on top and sides, no metal-to-metal contact. Provide at all seismic joints.
5. Ducted Returns: All air handling that is not directly located in the space that it serves shall have ducted returns.
6. Open ends of ductwork shall be covered during construction to keep inside clean.

B. Low Velocity-Low Pressure (up to 2000 ft/ min; up to 2.0 in. water):
1. Sheet Metal Ductwork:
   a. Ells: Ells with less than standard radius and square ells shall be fitted with turning vanes.
   b. Tees: Tees shall be straight tap-in with extractor or 45 degree takeoff, as shown on drawings.
   c. Duct Joints: Seal duct joints airtight with fiber tape and adhesive per manufacturer's printed instruction. Ducts in weather shall be sealed air and watertight with duct mastic before closing and taping.
      1) Where Ductmate type joints are used, the manufacturer's designated procedure shall be followed. Ductmate joints on roof shall have continuous cleat on top duct flange to prevent water from collecting on gasket.
   d. Dampers: Install volume control damper and damper regulator in all branch ducts.
   e. Duct dimensions shown on drawings for lined ducts, are clear net openings inside of lining.
   f. Top of ducts exposed to weather shall be cross broken and sloped slightly to each side to allow rainwater to run off. Ducts that do not drain off top will be rejected and need to be replaced at contractors' expense.
2. Flexible Glass Fiber Ductwork: Hangers shall be 2" wide metal straps spaced to prevent sagging, 3 feet spacing maximum. Insert 6" wide fiberglass pad between duct and hanging strap. All joints and fittings shall be sheet metal and shall be installed with metal bands or 3 (min) self-tapping screws and fiber tape. Maximum length of flexible duct shall be 5 ft. Single piece minimum length shall be 3 ft. Minimum turn radius shall be in accordance with SMACNA Standards (turn radius to duct centerline not less than 1.5 times the duct diameter).

3.2 AIR TERMINALS AND DUCT FITTINGS INSTALLATION

A. General: Unless otherwise noted, all air terminals and duct fittings shall be installed in accordance with current SMACNA "HVAC Duct Construction Standards", details on drawings and manufacturer's instructions. Terminals and fittings shall be installed in a manner to prevent vibration and rattling.

B. Fire Smoke Damper: Fire smoke dampers shall be installed in accordance with their State Fire Marshal approval and the manufacturer's recommendations.

C. Gym: Attach safety cable to inside of duct and to grille neck with #10 sheet metal screws.

3.3 DUCTWORK INSULATION INSTALLATION

A. General: All supply and return sheet metal ductwork shall be insulated.

B. Concealed Ductwork: Wrap ductwork with fiberglass blanket lapped 2" minimum. Secure with foil tape at all joints for a complete vapor barrier.

C. Acoustic Lining: All ductwork in equipment rooms, where exposed to weather, and elsewhere as indicated on drawings, shall have acoustic lining. Increase each sheet metal dimension to accommodate lining and maintain clear inside duct dimensions shown on drawings. Apply lining with bonding adhesive in accordance with manufacturer's recommendations and secure with mechanical fasteners in accordance with SMACNA Standards. Seal exposed edges of lining with bonding adhesive.

3.4 PIPING INSTALLATION

A. General:
   1. Piping Layout: Piping shall be concealed in walls, above the ceilings, or below grade unless otherwise noted. Exposed piping shall run parallel to room surfaces; location to be approved by Architect. No structural member shall be weakened by cutting, notching, boring or otherwise unless specifically allowed by structural drawings and/ or specifications. Where such cutting is required, reinforcement shall be provided as specified or detailed. All piping shall be installed in a manner to ensure unrestricted flow, eliminate air pockets, prevent any unusual noise, and permit complete drainage of the system. All piping shall be installed to permit expansion and contraction without strain on piping or equipment. Expansion joints and/or flexible connectors shall be installed as required. Vertical lines shall be installed to allow for building settlement without damage to piping. Lines shall be adequately braced against vertical and lateral movement.
   2. Pipe Support:
      a. General: Hangers shall be placed to support piping without strain on joints or fittings. Maximum spacing between supports shall be as specified below. Actual spacing requirements will depend on structural system. Refer to drawings for additional requirements and attachment to structure. Vertical piping shall be supported at floor and ceiling. Support pipe within 12" of all changes in direction. No perforated straphanger shall be used in any work.
      b. Refrigerant Piping: Pipe shall be cut square. Joint surfaces shall be thoroughly cleaned, fitted, and erected before brazing. Install specified accessories. After installation, evacuate to 29 inches of mercury, ambient temperature during evacuation shall not be less than 70 degrees F. After evacuation, fill with dry nitrogen to 250 psi and maintain for two-hour period without additional charge. After nitrogen test, purge with refrigerant charged through dryer and maintain holding charge in system and equipment. Refrigerant piping below grade shall be run in 4” (min.) PVC conduit with long radius ells. Seal ends of conduit watertight.
      c. Flue Piping: Flue piping shall be installed in accordance with its UL listing and manufacturer's instructions. All welders shall be certified in accordance with AWS Standard D9.1, Specifications for welding sheet metal.
      d. PVC Piping: Shall be cut square and assembled prior to solvent weld. Apply primer per manufacturer’s recommendations. Coat male joint fully with solvent, make joint before solvent dries and wipe exterior clean.

3.5 PIPING INSULATION INSTALLATION

A. Refrigerant Piping: Cover suction piping with foamed plastic insulation. Longitudinal and end seams shall be thoroughly cemented with adhesive in accordance with manufacturer's recommendation. Cover all fittings, unions, valves, and connections. Piping exposed to weather shall be covered with aluminum jacketing, seal all joints and seams with grey outdoor mastic or silver silicone sealant. Piping exposed in room shall be covered with piping chase painted to match wall.

3.6 EQUIPMENT INSTALLATION

A. General: It shall be the responsibility of the contractor to ensure that no work done under other specification sections shall in any way block, or otherwise hinder access panels or diminish the effectiveness of equipment vibration isolation.

B. Connections to Equipment: Where size reductions are required for connections to equipment, they shall be made immediately adjacent to the equipment and, if possible, inside the equipment cabinet. Connections made to equipment mounted on vibration isolators shall be with flexible connectors, installed adjacent to equipment.

C. Start Up: Engage manufacturer or factory-authorized service representative to perform start up supervision. Manufacturer shall provide on-site start up and commissioning assistance through job completion. Complete installation and start up checks according to manufacturer's written instructions.

3.7 TEMPERATURE CONTROL SYSTEM

A. Thermostats shall have the capability of terminating all heating at a temperature of no more than 70 degrees F or terminating all cooling at a temperature of no less than 78 degrees F, and to provide a temperature range of up to 10 degrees F between full heating and full cooling. Thermostats shall be 7 day programmable, Carrier, Robertshaw or equal with sub-base capable of battery backup or capacitor to retain program in the event of a power outage. All control wiring, regardless of voltage, shall be installed in conduit.

3.8 SYSTEM AIR BALANCE

B. Scope: Provide services necessary to initially deliver the air quantities shown on the plans and finally to balance for uniform temperature in the spaces served. Adjust all elements in grilles and diffusers for proper air distribution and to minimize drafts. Submit final Air Balance Report for approval before final completion of the construction contract. Comply with SMACNA manual for the balancing and adjustment of air distribution systems.

C. As a minimum, the balance report shall include CFM and neck size at each supply, return and exhaust grille, total CFM and external static pressure for all air moving equipment, and name plate and actual motor amps for indoor air fans.

D. Scope: Provide the services of a qualified independent test and balance agency certified by the Associated Air Balance Council (AABC) or The National Environmental Balancing Bureau (NEBB) to test, adjust and balance, retest, and record performance of the system to obtain design quantities as specified. Balancing contractor must also be TABB certified.

E. Qualifications: Prior to commencing work, the agency shall be approved by the Owner's Representative.

F. Instruments: All instruments shall be accurately calibrated; calibration histories shall be available for examination. Application of instrumentation shall be in accordance with AABC standards.

G. Procedure: General: Balanced quantities shall be plus 10%, minus 10% of design quantities. All name-plate data, manufacturer, model, and serial numbers shall be recorded for each item tested. All outside air flow listed in minimum.

H. Extended Warranty: The test and balance agency shall include an extended warranty of 90 days after completion of test and balance work, during which time the Owner's Representative at his discretion may request a recheck or resetting of any item or items in test report. The agency shall provide technicians to assist the Owner's Representative in

making any tests he may require during this period of time.

I. Air Balance Procedure (for each Air Handling System):
1. All air filters shall be clean when air balance is performed.
2. Provide a sketch of the equipment showing exactly where all pressure readings were taken.
3. Adjust blower RPM to design requirements.
4. Record motor full load amperes.
5. Make pitot tube traverse of main supply and return ducts and obtain design CFM at fans.
6. Record system static pressures, inlet, and discharge.
7. Record filter quantity, size(s) and pressure drop across filter(s) at each filter bank.
8. Adjust system for design CFM recirculated air.
9. Adjust system for design CFM outside air minimum settings.
10. Record entering air temperatures. (DB heating, DB and WB cooling.)
11. Record leaving air temperatures. (DB heating, DB and WB cooling.)
12. Adjust all main supply and return air ducts to design CFM.
13. Adjust all zones to design CFM, supply, and return.
14. Adjust all diffusers, grilles, and registers to plus 10%, minus 0% of design requirements.
15. Adjust CFM at all exhaust fans, make-up units, etc. (high and low speed, where applicable). Record applicable data from items 1 through 11 above.
16. Each grille, diffuser and register shall be identified as to location.
17. Verify proper diffusion pattern for all ceiling grilles and that all sidewall grilles are set for 5 degrees downward deflection unless otherwise noted. Make a notation of any that are not set properly.
18. Size, type and manufacturer of diffusers, grilles, registers, and all tested items shall be identified and listed. Manufacturer's ratings shall be used to make required calculations on all items.
19. Readings and tests of diffusers, grilles, and registers shall include required FPM velocity and test resultant velocity, required CFM and test resultant CFM after adjustments.
20. In cooperation with the control manufacturer's representative, set adjustments of automatically operated dampers to operate as specified. Testing agency shall check all controls for proper calibrations and list all controls requiring adjustment by control installers.
21. All diffusers, grilles and registers shall be adjusted for required air patterns and to minimize drafts.
22. As a part of the work of this contract, THE AIR CONDITIONING CONTRACTOR shall make any changes in pulleys, belts, dampers, or the addition of dampers cleaning of insect screens and replacement of filters required for correct balance as recommended by air balance agency, at no additional cost to Owner.
23. Set, test, and adjust packaged heating/ cooling unit economizer operation in cooperation with controls contractor. Record minimum and maximum outside and exhaust airflows.

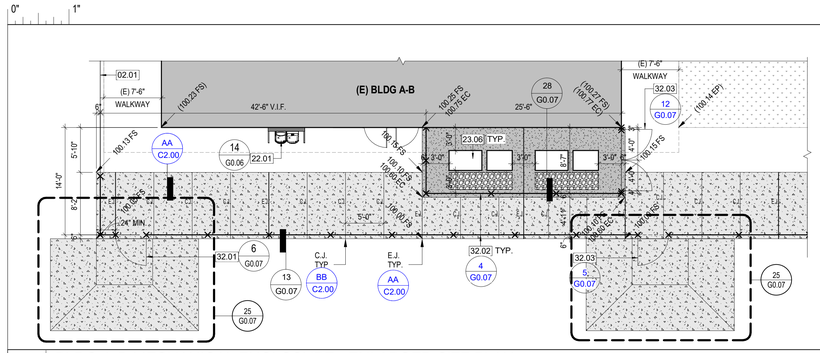
J. Water Balance Procedure:
1. Set valves for maximum coil flow.
2. Remove and clean all strainers.
3. Examine water in system and determine if water has been treated and cleaned.
4. Check expansion tanks to determine that they are properly charged, and that the system is completely full of water. Bleed air from system.
5. Adjust water flow through boilers, to design flow.
6. Record leaving and return water temperatures at boiler. Reset to correct design temperature.

7. Record the following at each coil:
   a. Inlet water temperatures.
   b. Leaving water temperatures.
   c. Pressure drop across coil.
   d. Pressure drop across bypass valve.
8. Record pump suction and discharge pressures at operating condition and with pump discharge valve completely closed.
9. Record running amperage of pump motor at operation condition and with pump discharge valve completely closed.
10. Record water metering device readings.

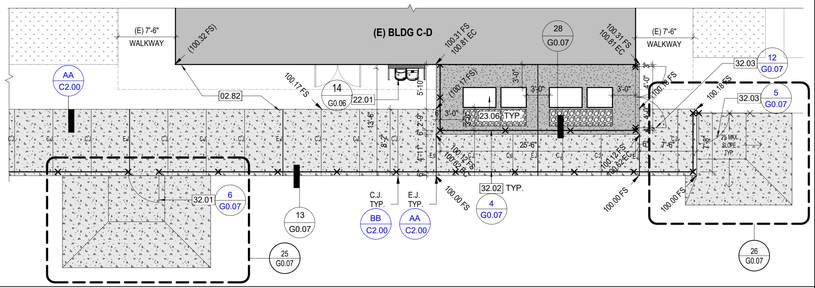
K. Test, adjust, and retest water bleed rates from evaporative coolers. Record all data.

L. Acoustic Performance Testing: Provide acoustic performance testing in accordance with the requirements of EQ3.0 of the "California Criteria for High Performance Schools, Best Practices Manual, 2009 Edition".
   1. Maximum Background Noise Level: Unoccupied classrooms must have a maximum background noise level of no more than 45 dBA LAeq. The standard anticipates two primary noise sources, steady HVAC equipment noise and the usually unsteady exterior environmental noise. Where the measured ambient noises due to sources other than HVAC are within 5 dB of the measured overall noise (HVAC and exterior intrusive noise) a measurement of at least ½ hour duration shall be made in at least two classrooms in each building in the worst case (noisiest) locations on the school site during normal school days and hours.
      a. To evaluate the significance of intrusive exterior noise, a 30-minute Equivalent Sound Level (LAeq30, in general conformance with ANSI S12.60-2002, Annex E3) measurement shall be made in the classroom that is subjectively assessed to represent the worst case exposure to exterior noise, with the HVAC system not in operation. This Leq30 measurement shall be repeated with the HVAC in operation. If the second "HVAC-on" sound level is more than 5 dB greater than the initial "HVAC-off" measurement, exterior noise intrusion shall be deemed "not significant".
      b. Where intrusive exterior noise has been deemed "not significant" short-term (15 second) A-weighted sound level measurements shall be made in each classroom with the HVAC systems in operation. Where exterior intrusive noise has been deemed "significant" (per the evaluation method noted above), LAeq30 sound level measurements shall be made in each classroom with the HVAC system in operation. In either case, where classrooms are served by variable-air-volume systems, the systems shall be operated at maximum nominal flow (typically by means of varying the thermostat set point).
      c. Where exposure to exterior noise varies significantly between groups of classrooms (e.g. one side of a classroom wing adjacent to a street, the other side facing away), separate evaluations of exterior noise significance can be conducted to limit the need for LAeq30 measurements.
   2. Maximum Reverberation: Classrooms less than 10,000 cubic feet must have a 0.6-second maximum (unoccupied) reverberation time and classrooms with volumes between 10,000 cubic feet and 20,000 cubic feet must have a 0.7-second maximum (unoccupied, furnished, and fitted-out) reverberation time. (ANSI Standard S12.60-2002). The reverberation times shall be measured in each classroom in three octave bands with center frequencies of 500, 1000, and 2000 Hz. The arithmetic average of the three measured values shall be compared to the standard.

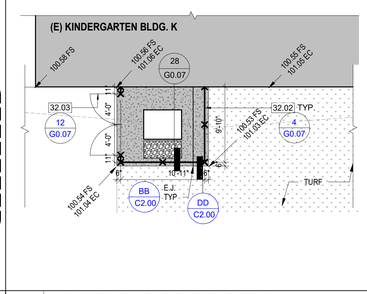
END OF SECTION 23 00 01



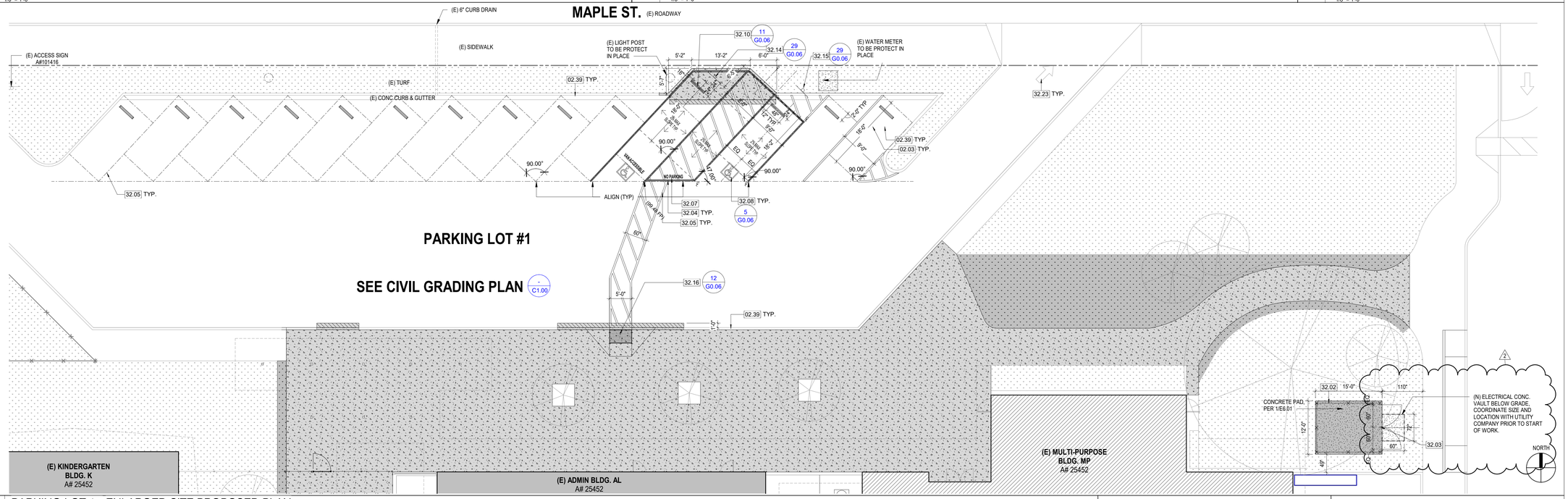
7 BLDG A-B MECHANICAL ENCLOSURE - ENLARGED SITE PLAN
1/8" = 1'-0"



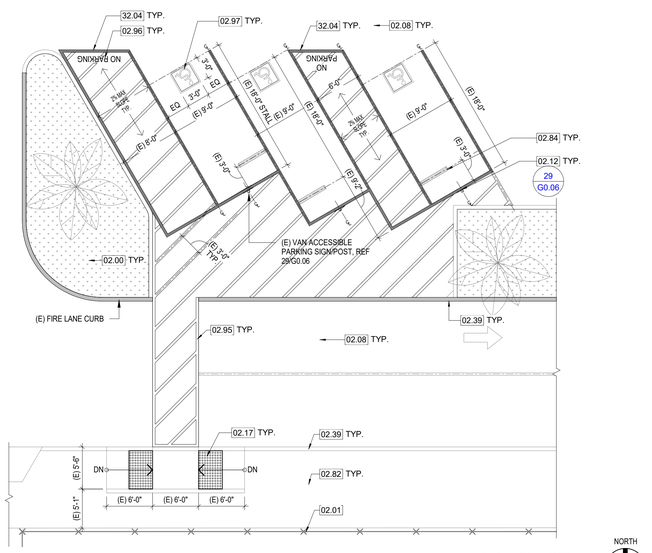
6 BLDG C-D- MECHANICAL ENCLOSURE - ENLARGED SITE PLAN
1/8" = 1'-0"



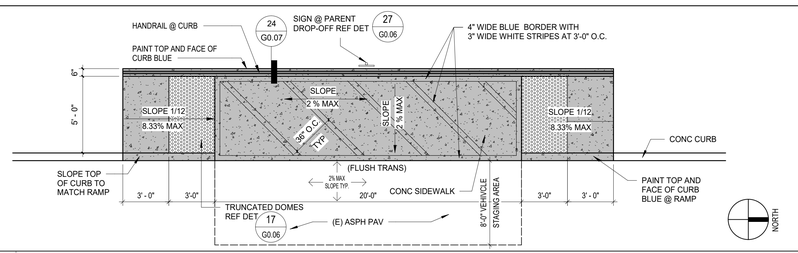
5 KINDER ENCLOSURE -SITE PLAN
1/8" = 1'-0"



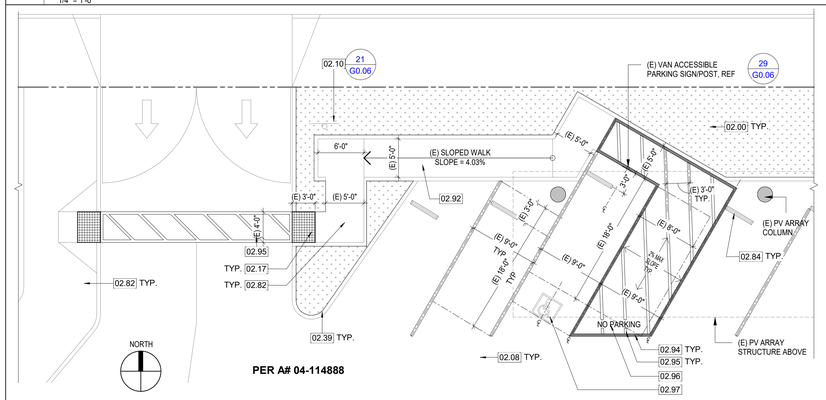
4 PARKING LOT 1 - ENLARGED SITE PROPOSED PLAN
1" = 10'-0"



2 PARKING LOT 2 - ENLARGED EXISTING ACCESSIBLE PARKING STALLS
1/8" = 1'-0"



3 (N) DROP-OFF CURB
1/4" = 1'-0"



1 PARKING LOT 2 - ENLARGED EXISTING ACCESSIBLE PARKING STALLS & RAMP @ SOLAR ARRAY
1/8" = 1'-0"

SITE ABBREVIATION LEGEND

(#)	- TOPOGRAPHIC HEIGHT IN FEET
BW	- BACK OF WALL
CLF	- CHAIN LINK FENCE
EC	- EDGE OF CONCRETE
EG	- EDGE OF GUTTER
EP	- EDGE OF PAVEMENT
INV	- INVERT
LP	- LIP OF GUTTER
FG	- FINISH GRADE
FL	- FLOW LINE
FP	- FINISH PAVEMENT
FS	- FINISH SURFACE
NG	- NATURAL GROUND
TC	- TOP OF CURB

CONSTRUCTION KEYED NOTES

02.00	(E) TURF TO REMAIN
02.01	(E) CHAINLINK FENCING
02.03	(E) TURF
02.08	(E) A.C.PAVING
02.10	(E) TOW AWAY SIGN PER A#04-114888
02.12	(E) ACCESSIBLE PARKING SIGN / POST, REPLACE PER DETAIL PER A#04-114888
02.17	(E) TRUNCATED DOMES PER A#04-114888
02.39	(E) CONCRETE CURB AND GUTTER TO REMAIN, PROTECT IN PLACE PER A#04-114888
02.82	(E) CONCRETE PAVEMENT TO REMAIN & PROTECT IN PLACE.
02.84	(E) CONCRETE WHEELSTOP
02.92	(E) ACCESSIBLE CURB RAMP PER A#04-114888
02.94	(E) 4" BLUE STRIPING
02.95	(E) 4" WHITE STRIPING
02.96	(E) 12" HIGH MIN. LETTERS IN WHITE PAINT, READING 'NO PARKING'. NO DIAGONAL STRIPING THROUGH TEXT, TYP.
02.97	(E) INTERNATIONAL SYMBOL OF ACCESSIBILITY PER A#04-114888
22.01	(N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER AND WING GUARDS
23.06	(N) MECHANICAL UNIT , SEE MECHANICAL DRAWING
32.01	(N) 6'-0" HIGH GALV. STEEL CHAIN LINK GATE WITH PANIC HARDWARE
32.02	(N) 6'-0" HIGH GALV. STEEL CHAIN LINK FENCE
32.03	(N) 6'-0" HIGH GALV. STEEL CHAIN LINK GATE
32.04	(N) 4" BLUE STRIPING
32.05	(N) 4" WHITE STRIPING
32.07	(N) 12" HIGH MIN. LETTERS IN WHITE PAINT, READING 'NO PARKING'. NO DIAGONAL STRIPING THROUGH TEXT, TYP.
32.08	(N) INTERNATIONAL SYMBOL OF ACCESSIBILITY
32.10	(N) CONCRETE WHEELSTOP
32.14	(N) VAN ACCESSIBLE PARKING SIGN
32.15	(N) ACCESSIBLE PARKING SIGN
32.16	(N) TRUNCATED DOMES
32.23	(N) PAINTED WHITE DRIVE AISLE DIRECTIONAL SIGNAGE

ENLARGED SITE LEGEND

- (N) PATH OF TRAVEL
- PROPERTY LINE
- (E) CHAINLINK FENCE
- (N) CHAINLINK FENCE
- (E) BUILDING N.I.C. - NO SCOPE OF WORK
- (E) BUILDING - FIRE ALARM SCOPE ONLY (IN SCOPE OF WORK)
- (E) BUILDING TO BE REMODELED (IN SCOPE OF WORK)
- TOILET ROOMS
  - RR = GENDER NEUTRAL RESTROOM
  - B = BOYS
  - G = GIRLS
  - S = STAFF
- AREA OF (N) MEP CONC. PAD
- AREA OF (N) CONCRETE PAVING SEE CIVIL PLAN
- AREA OF (N) ASPHALT PAVING SEE CIVIL PLAN
- AREA OF (N) LANDSCAPING. SEE CIVIL PLAN
- SLOPE IN DIRECTION OF TRAVEL
- 0.0% 0.0% (E) SLOPES PER SMART LEVEL, VERIFIED IN FIELD.
- CROSS SLOPE

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WILLMORE ELEMENTARY SCHOOL
HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7122 Maple St.
Westminster, CA 92683

CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-124971 DSA FILE NO.: 30-43

K | AD | MP
F4F3F2F1 | F8F7F6F5 | A-B | C-D | E5/E4 | F1 F2 F3 | SDC

KEY PLAN
NORTH: PLAN TRUE

Consultant

Architect
LICENSED ARCHITECT Tong Yao No. C-31162 REN. 10-31-2021 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
02-18-2026	250377

REVISIONS

No.	Description	Date
1	Revision 1	Date 1
2	ADDENDUM 3	5/8/26

CONSTRUCTION DOCUMENTS

ENLARGED SITE PLAN

G0.04

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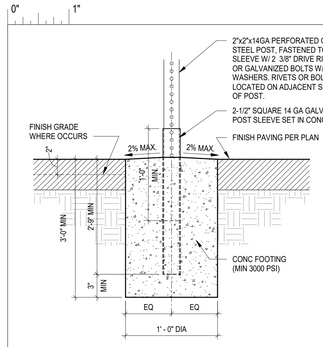
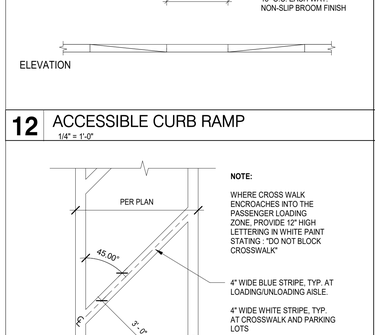
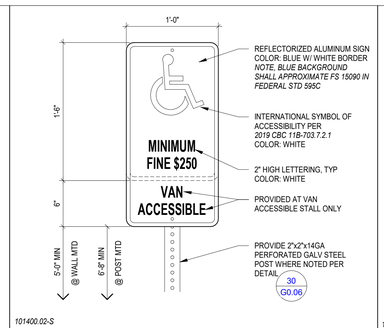


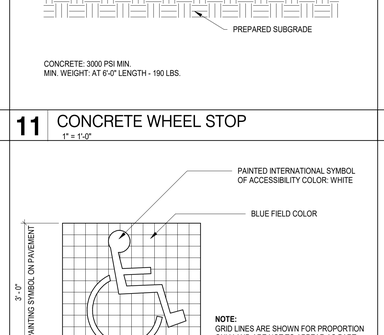
30 SIGN POST DETAIL
1 1/2" = 1'-0"





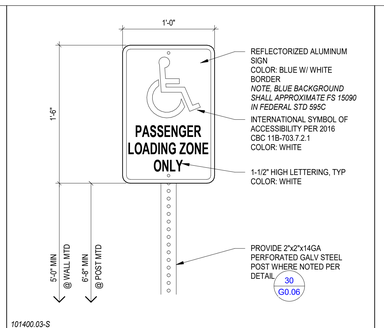
101400.02-S

29 SIGNAGE - ACCESSIBLE PARKING
1 1/2" = 1'-0"



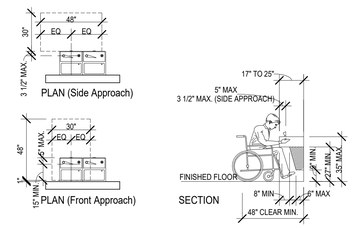
101400.01-S

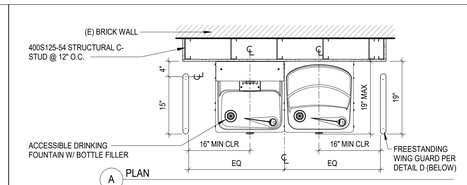
28 SIGNAGE - PASSENGER LOADING ZONE
1 1/2" = 1'-0"



101400.03-S

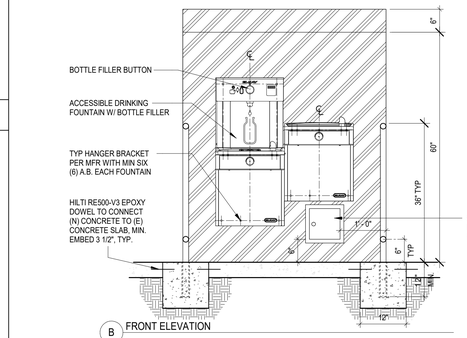
26 DRINKING FOUNTAIN GUIDELINE
1/4" = 1'-0"





NOTES:

1. SPOUT SHALL PROVIDE A FLOW OF WATER 4" MIN. HIGH.
2. WHERE SPOUTS ARE LOCATED 3"-5" FROM FRONT OF UNIT, THE ANGLE OF THE WATER SHALL BE 15 DEGREES MAX.
3. WHERE SPOUTS ARE LOCATED LESS THAN 3" FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX.
4. UNDERSIDE OF DRINKING FOUNTAIN SHALL BE FREE OF SHARP OR ABRASIVE EDGES OR SURFACES GRIND ALL WELDS.
5. CLEARANCES PER 26 G0.06
6. WATER FLOW (11B-602.6): THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (102 MM) HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES (127 MM) MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES (76 MM) OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES (76 MM) AND 5 INCHES (127 MM) MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.

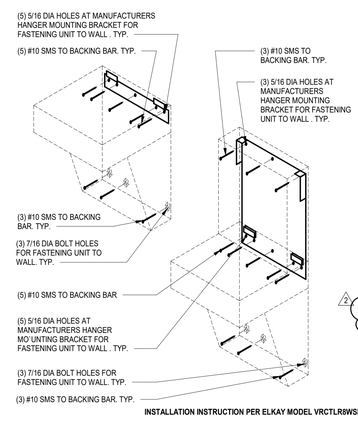


22 SIGNAGE - DO NOT ENTER
1 1/2" = 1'-0"

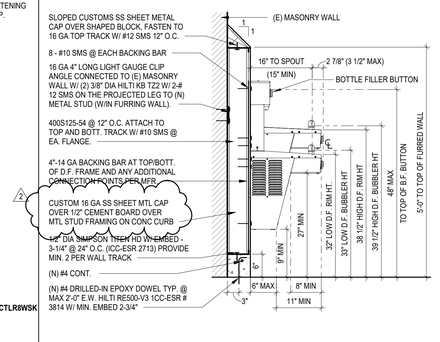
21 TOW AWAY SIGN
1 1/2" = 1'-0"

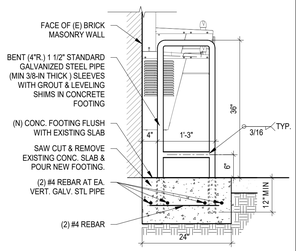
27 DROP-OFF SIGN
1/2" = 1'-0"

CBC:11B-705



INSTALLATION INSTRUCTION PER ELKAY MODEL VRCTLR8WSK





18 PAVEMENT DIRECTIONAL ARROW
3/4" = 1'-0"

17 TRUNCATED DOME MAT
3" = 1'-0"

15 D.F. ANCHORAGE DETAIL
1/4" = 1'-0"

14 ACCESSIBLE D.F. W/ BOTTLE FILLER
3/4" = 1'-0"

HARDWARE GROUP (EMERGENCY EGRESS PANIC HARDWARE)

- 3 HINGE (HEAVY WEIGHT): T4A3386 4-1/2" X 4-1/2" NRP
- EXIT HARDWARE: VON DUPRIN AXPA-98EO-US26D - 3 OR 4 FT LENGTH DEPENDING ON GATE SIZE (PUSH BAR EXIT DEVICE) VON DUPRIN 998L-NL-RV-US26D (OUTSIDE TRIM FOR PUSH BAR NIGHT LATCH FUNCTION)
- EXIT PULL DEVICE: VON DUPRIN 996L-DT
- FORMAT IC CORE (KEYED PER DISTRICT REQUIREMENT)
- CLOSURE: LOCINOX PART # MAMMOTH 180-ZILV (HYDRAULIC GATE CLOSER)
- KICK PLATE: 10 GA. GALV.
- HARDWARE BACKING-PLATE: 24" TALL X WIDTH OF GATE 16 GA GALV.
- CLOSURE BACKING PLATE: SIZED FIT ITEM C. CLOSURE.
- FLAT MOUNTED GORILLA WELD ON HINGES.

***DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM
*** THE FORCE REQUIRED TO ACTIVATE GATE OPERABLE PARTS (SWING & UNLATCHING) SHALL BE 5 LBS. MAXIMUM.

PROVIDE NEW SECURITY GATES WITH POWDER COATED PAINTS.

NOTE:
*GATES SHALL HAVE AN OPENING FORCE OF FIVE POUNDS MAXIMUM PER CBC 11B-404.2.9.
*HARDWARE SHALL UNLATCH WITH FIVE POUNDS MAXIMUM FORCE PER CBC 11B-309.4.

12 ACCESSIBLE CURB RAMP
1/4" = 1'-0"

NOTE:

WHERE CROSS WALK ENCROACHES INTO THE PASSENGER LOADING ZONE, PROVIDE 12" HIGH LETTERING IN WHITE PAINT STATING : "DO NOT BLOCK CROSSWALK"

11 CONCRETE WHEEL STOP
1" = 1'-0"

10 HM GATE JAMB DETAIL
3" = 1'-0"

9 HM GATE HEAD DETAIL
3" = 1'-0"

NOTE:
GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL.

ACCESSIBILITY SYMBOL SHALL COMPLY WITH SECTION 11B-703.7.2.1 CALIFORNIA BUILDING CODE.

SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN VEHICLE IS PARKED IN THE SPACE.

NOTE:
1. CONCRETE MINIMUM COMPRESSIVE STRENGTH 3000 PSI
2. REBARS: ASTM A615 GR 40 FOR # 3, GR60 FOR #4 & LARGER.

6 ACCESSIBLE PEDESTRIAN PATH
1/2" = 1'-0"

5 ACCESSIBLE PARKING SYMBOL
3/4" = 1'-0"

4 HM GATE SILL DETAIL
3" = 1'-0"

3 STEEL COLUMN AT METAL GATES
3/4" = 1'-0"

2 (N) ACCESSIBLE MAIN ENTRANCE ORNAMENTAL GATE
1/2" = 1'-0"

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WILLMORE ELEMENTARY SCHOOL
HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-124971 DSA FILE NO.: 30-43

K | AD | MP
F4F3F2F1 | A-B | C-D | F1 F2 F3 | SDC
F8F7F6F5 | E5E4

KEY PLAN
NORTH: PLAN TRUE

Consultant

Architect
LICENSED ARCHITECT Tong Yao No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
02-18-2026	250377

REVISIONS

No.	Description	Date
2	ADDENDUM 3	5/8/26

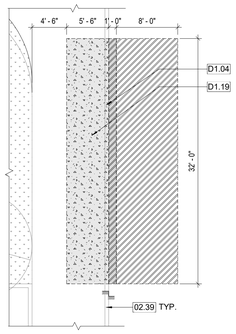
CONSTRUCTION DOCUMENTS

SITE DETAILS

G0.06

D0.02 - SITE DEMOLITION PLAN

0" 1"



CONSTRUCTION KEYED NOTES

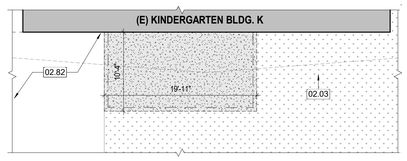
02.01 (E) CHAINLINK FENCING
02.03 (E) TURF
02.08 (E) A.C.PAVING
02.39 (E) CONCRETE CURB AND GUTTER TO REMAIN, PROTECT IN PLACE
02.82 (E) CONCRETE PAVEMENT TO REMAIN & PROTECT IN PLACE.

SITE DEMOLITION LEGEND

- PROPERTY LINE
- (E) CHAINLINK FENCE
- DEMO (E) CHAINLINK FENCE
- (E) RELOCATABLE BUILDINGS WITH LIMITED SCOPE
- BUILDING TO BE REMODELED. SEE DEMOLITION FLOOR AND CEILING PLANS
- AREA OF (E) ASPHALT PAVING TO BE REMOVED AND REPLACED. SEE CIVIL PLAN
- AREA OF (E) TURF TO BE REMOVED , PREPARE FOR (N) NEW PAVING. ADJUST IRRIGATION AS NECESSARY. SEE CIVIL PLAN.
- AREA OF (E) CONCRETE PAVING TO BE REMOVED , PREPARE FOR (N) CONCRETE PAVING. SEE CIVIL PLAN
- AREA OF (E) LANDSCAPE TO BE REMOVED SEE CIVIL PLAN
- CONTRACTOR SHALL TRENCH AS REQUIRED FOR THE ELECTRICAL SCOPE OF WORK. BACKFILL TRENCHES AND PATCH SURFACES TO MATCH EXISTING FINISHES.

DEMOLITION KEYNOTES

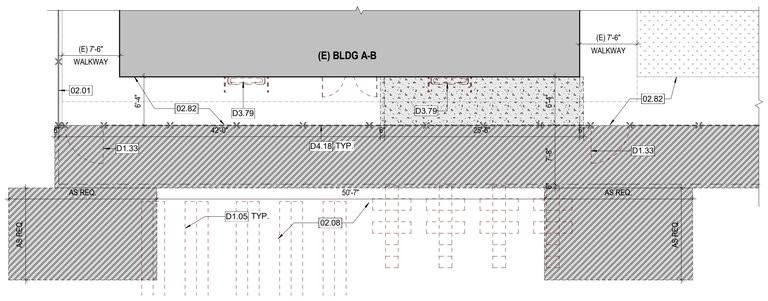
D1.04 REMOVE (E) CONCRETE CURB AS INDICATED
D1.05 REMOVE (E) STRIPING AS INDICATED
D1.06 REMOVE (E) ASPHALT IN THE HATCHED AREA, REF. CIVIL DWGS.
D1.12 REMOVE PORTION OF (E) TURF. GRADE COMPACTED & PERPARE FOR CONSTRUCTION. REFER TO SPECS & SOIL REPORT. ADJUST OR CAP IRRIGATION AS REQUIRED. CONTRACTOR TO ENSURE (E) REMAINING IRRIGATION TO BE FUNCTIONAL. PREPARE FOR REINSTALLATION AFTER RELOS ARE REMOVED.
D1.15 REMOVE (E) SIGNAGE, POST, AND FOOTING. PROVIDE SIGNAGE TO CAMPUS FOR STORAGE AND REINSTALLATION, DISPOSE OF POST AND FOOTING
D1.16 REMOVE (E) CONCRETE WHEEL STOP
D1.19 REMOVE (E) CONCRETE PAVING, PER CIVIL PLAN.
D1.33 REMOVE (E) CHAINLINK GATE.
D3.79 REMOVE (E) DRINKING FOUNTAINS, PREPARE FOR NEW DRINKING FOUNTAIN OR PATCH & CAULK ALL WALL PENETRATION PER PLAN
D4.18 REMOVE (E) CHAINLINK FENCE



NORTH

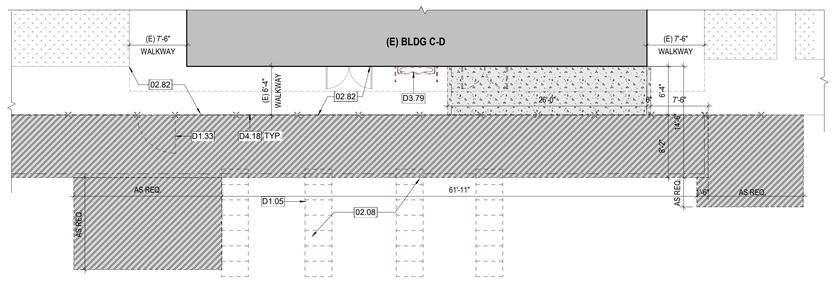
5 DROP-OFF - ENLARGED SITE DEMO PLAN
1/8" = 1'-0"

4 KINDERGARTEN MECHANICAL ENCLOSURE - ENLARGED SITE DEMO PLAN
1/8" = 1'-0"



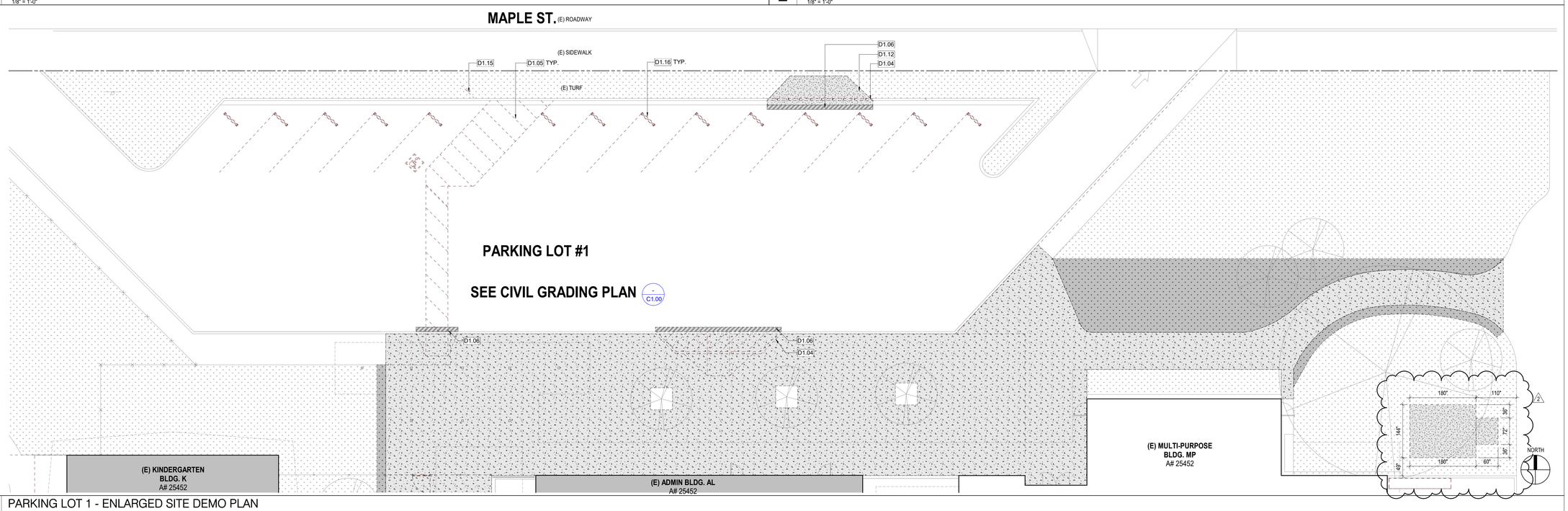
NORTH

3 BLDG A-B - MECHANICAL ENCLOSURE - ENLARGED SITE DEMO PLAN
1/8" = 1'-0"



NORTH

2 BLDG C-D - MECHANICAL ENCLOSURE - ENLARGED SITE DEMO PLAN
1/8" = 1'-0"



1 PARKING LOT 1 - ENLARGED SITE DEMO PLAN
1" = 10'-0"

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K AD MP
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KEY PLAN
NORTH: PLAN TRUE

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Architect
LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

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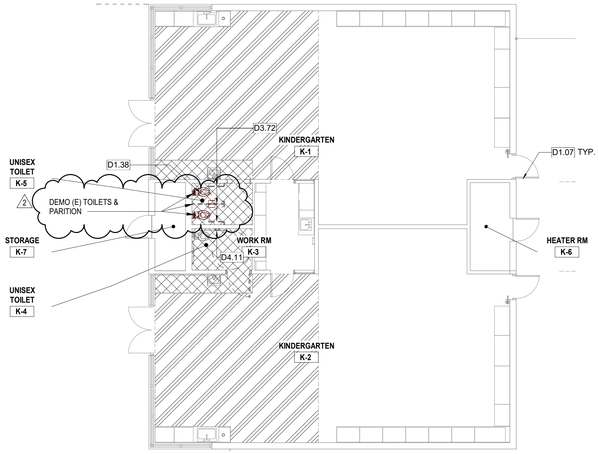
CONSTRUCTION DOCUMENTS

SITE DEMOLITION PLAN

D0.02

D1.01 - DEMO FLOOR PLAN

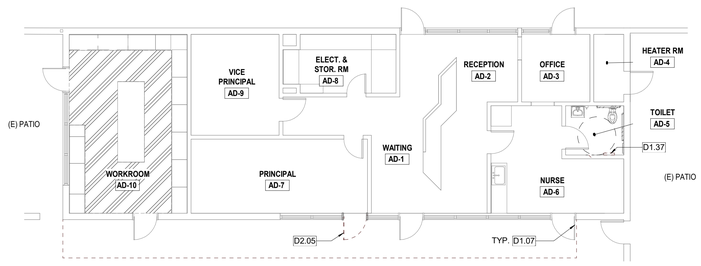
0" 1"



NORTH

2 KINDERGARTEN BLDG K- DEMO FLOOR PLAN

1/8" = 1'-0"



NORTH

1 ADMIN BLDG AL - DEMO FLOOR PLAN

1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES. AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMOLITION KEYNOTES

D1.07	(E) EXTERIOR DOOR HARDWARE TO BE REMOVED AND REPLACED, WHERE REQUIRED, SEE DOOR SCHEDULE
D1.37	DEMO AND DISPOSE (E) SANITARY NAPKIN DISPENSER. PATCH AS NECESSARY TO MATCH EXISTING FINISH.
D1.38	DEMO AND DISPOSE (E) WATER CLOSET. SEE PLUMBING DRAWING
D2.05	REMOVE (E) DOOR & DOOR HARDWARE. PROVIDE NEW PAINT & RE-INSTALLED PER PLAN
D3.72	(E) TOILET PARTITION TO BE REMOVED AND DISPOSED, PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D4.11	REMOVE (E) TOILET PAPER DISPENSER AND RELOCATE PER ELEVATION, PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING

DEMOLITION LEGEND

EXISTING NON-BEARING WALL TO BE REMOVED

DOOR AND FRAME TO BE REMOVED, U.N.O.

DEMO ALL (E) WALL FINISH, FLOOR SLAB, DUCTS, PIPES, CONDUITS & FIXTURES, U.N.O.

PREPARE FLOOR SLAB FOR NEW FINISHES AND PROVIDE MAX 2% SLOPE IN ALL DIRECTION AND PROVIDE (N) TILE TO MATCH ADJACENT FLOOR FINISH.

DEMO (E) FLOOR FINISH,

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WILLMORE ELEMENTARY SCHOOL
HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
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CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-124971 DSA FILE NO.: 30-43

K | AD | MP
F4F3F2F1 / F8F7F6F5 | A-B | C-D | E5E4 | F1 F2 E3 | SDC

KEY PLAN

NORTH: PLAN TRUE

Consultant

Architect

LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
02-18-2026	250377

REVISIONS

No.	Description	Date
2	ADDENDUM 3	5/8/26

CONSTRUCTION DOCUMENTS

DEMO FLOOR PLAN

D1.01

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D1.02 - DEMO FLOOR PLAN

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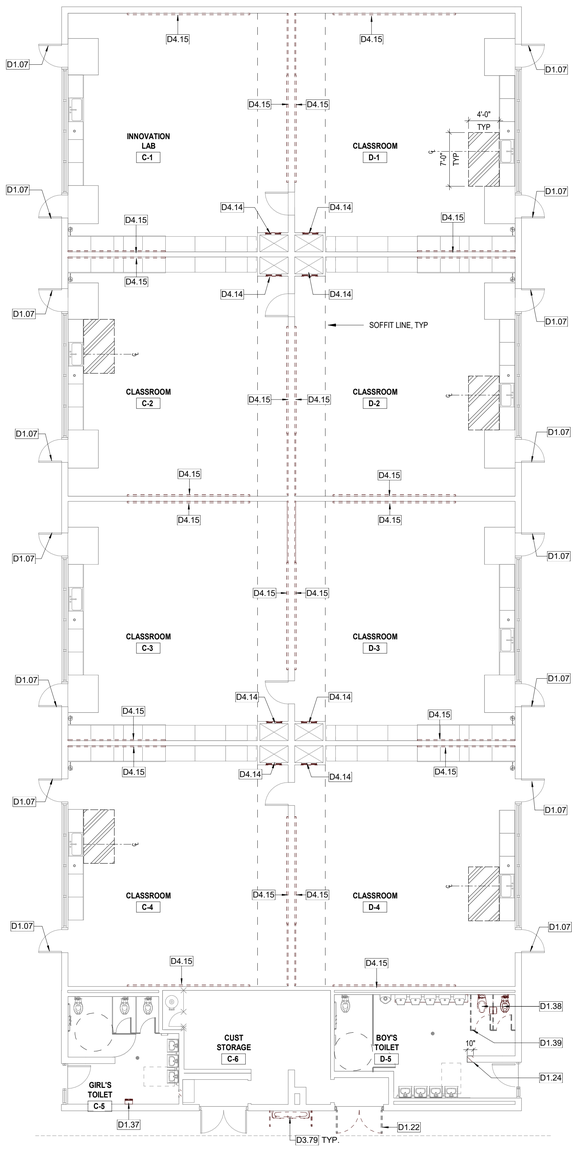
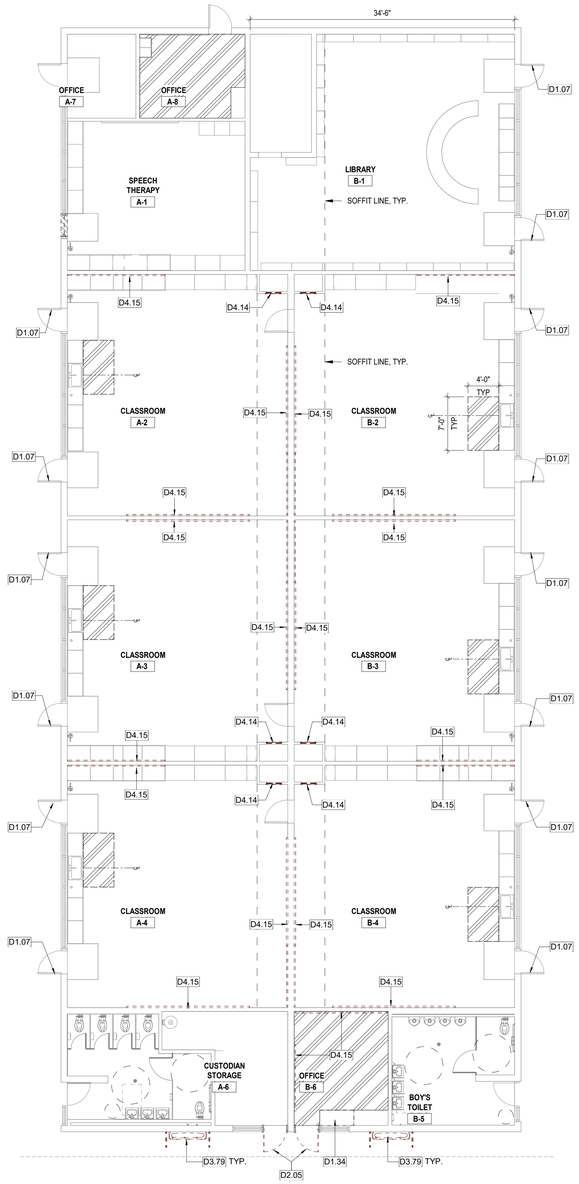


2 CLASSROOM BLDG C & D - DEMO FLOOR PLAN
1/8" = 1'-0"



1 CLASSROOM BLDG A & B - DEMO FLOOR PLAN
1/8" = 1'-0"

NORTH

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES. AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXISTISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMOLITION KEYNOTES

D1.07 (E) EXTERIOR DOOR HARDWARE TO BE REMOVED AND REPLACED, WHERE REQUIRED, SEE DOOR SCHEDULE
D1.22 (E) HM DOOR FRAME & (E) DOOR PANEL TO BE REMOVED AND DISPOSED
D1.24 (E) INTERIOR PARTITION TO BE REMOVED
D1.34 REMOVE AND DISPOSE (E) CASE. PROVIDE NEW FINISH TO MATCH EXISTING
D1.37 DEMO AND DISPOSE (E) SANITARY NAPKIN DISPENSER. PATCH AS NECESSARY TO MATCH EXISTING FINISH.
D1.38 DEMO AND DISPOSE (E) WATER CLOSET. SEE PLUMBING DRAWING
D1.39 DEMO AND DISPOSE (E) RESTROOM PARTITION. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D2.05 REMOVE (E) DOOR & DOOR HARDWARE. PROVIDE NEW PAINT & RE-INSTALL PER PLAN
D3.79 REMOVE (E) DRINKING FOUNTAINS. PREPARE FOR NEW DRINKING FOUNTAIN OR PATCH & CAULK ALL WALL PENETRATION PER PLAN
D4.14 REMOVE (E) MECH. DUCT / GRILLE, CAP & COVER (E) CHASE.
D4.15 REMOVE (E) MARKERBOARD / TACKBOARD, PATCH & REPAIR WALL FASTENING, TO BE REPLACED.

DEMOLITION LEGEND

EXISTING NON-BEARING WALL TO BE REMOVED

DOOR AND FRAME TO BE REMOVED, U.N.O.

DEMO ALL (E) WALL FINISH, FLOOR SLAB, DUCTS, PIPES, CONDUITS & FIXTURES, U.N.O.

PREPARE FLOOR SLAB FOR NEW FINISHES AND PROVIDE MAX 2% SLOPE IN ALL DIRECTION AND PROVIDE (N) TILE TO MATCH ADJACENT FLOOR FINISH.

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KEY PLAN
NORTH: PLAN TRUE

Consultant

Architect

LICENSED ARCHITECT
Yong Yoo
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REN. 10-31-2027
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REVISIONS

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2	ADDENDUM 3	5/5/26

CONSTRUCTION DOCUMENTS

DEMO FLOOR PLAN

D1.02

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A1.01 - FLOOR PLANS

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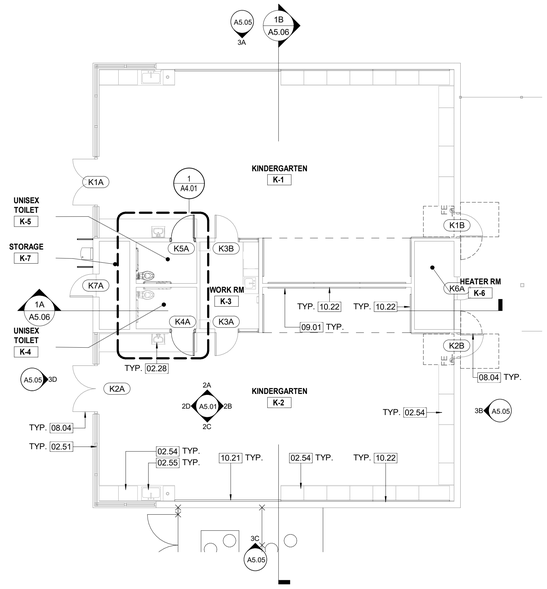
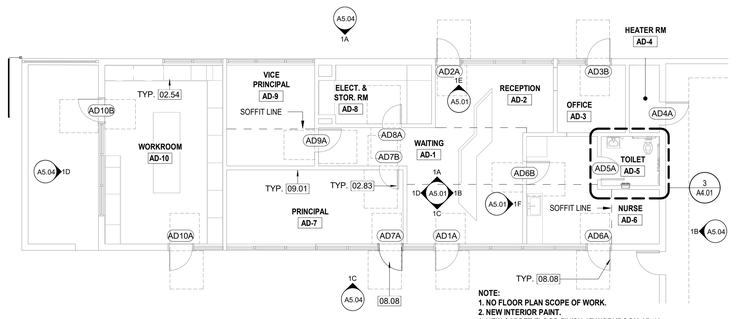


NORTH

2 FLOOR PLAN KINDERGARTEN BLDG. K
1/8" = 1'-0"



NOTE:
1. NO FLOOR PLAN SCOPE OF WORK.
2. NEW INTERIOR PAINT.
3. NEW CARPET FLOOR FINISH AT WORKROOM AD-10

NORTH

1 FLOOR PLAN ADMIN BLDG. AL
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL.
2. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
4. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALKS EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROLS JOINTS
PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.

NOTE:
1. ALL BUILDINGS ARE NON-SPRINKLERED
2. ALL EXTERIOR CLASSROOM, ADMIN WINDOW FRAMES AND GLAZING TO BE REPLACED. PATCH AND REPAIR WALLS, AS NEEDED, FOLLOWING WINDOW INSTALLATION. VERIFY IN FIELD ALL DIMENSIONS SHOWN.

PAINT SCOPE OF WORK

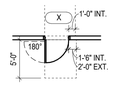
2

1. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SURFACES OF ALL BUILDINGS INCLUDING PORTABLES PER SPECIFICATION, THIS WORK INCLUDES ALL FLASHING, FASCIA, PLASTER, LOUVER, DRYWALL, DOORS AND FRAMES WITH THE EXCEPTION OF BRICK SURFACES. MINIMUM OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
2. CONTRACTOR SHALL PAINT ALL COLUMN AND BEAMS OF SOLAR SHADE STRUCTURE PER SPECIFICATION, EXCEPT GALVANIZED AND SOLAR PANEL SURFACES, MINIMUM OF 2 COLORS TO BE SELECTED BY ARCHITECT.
3. GENERAL CONTRACTOR TO NOTIFY AND DOCUMENT ANY AREAS WITH DRYROT AND / OR TERMITE DAMAGE IN WRITTEN FORMAT PRIOR TO BID
4. CONTRACTOR SHALL PAINT ALL BREEZEWAY PLASTER CEILINGS, FASCIA, AND TRIM.
5. PAINTING OF BUILDING EXTERIOR TO INCLUDE ALL CEILINGS OF EXISTING BUILDING OVERHANGS.
6. CONTRACTOR TO PAINT EXISTING AND NEW ORNAMENTAL FENCING. COLOR TO BE SELECTED BY ARCHITECT.

REMODEL PLAN LEGEND

EXISTING WALL TO REMAIN

NEW WALL TO BE PROVIDED



(E) DOOR PANEL & (E) HM DOOR FRAME TO REMAIN. PROVIDE (N) DOOR HARDWARE; REFER TO A6.01 FOR DOOR SCHEDULE AND TYPES.

NOTE: VERIFY IN FIELD 2% SLOPES AWAY FROM BUILDING AND 2% MAX CROSS SLOPE. PROVIDE NEW CONCRETE AS REQ.



2 1 / AX1.01
2 / AX1.01

FE WHERE EXISTING FIRE EXTINGUISHER IS MISPLACED IN CLASSROOM, MOVE (E) FIRE EXTINGUISHER WITH WALL BRACKET TO LOCATION SHOWN ON PLAN. IF FIRE EXTINGUISHER AND/OR MOUNTING BRACKET IS MISSING PROVIDE PER SPEC 10 44 00 AND REFER TO DETAIL 6 / AX6.01

CONSTRUCTION KEYED NOTES

02.28	(E) ACCESSIBLE LAVATORY TO REMAIN
02.51	(E) ALUMINUM FRAME & GLAZING STOREFONT SYSTEM, TO REMAIN.
02.54	(E) CASEWORK TO REMAIN. PROTECT IN PLACE.
02.55	(E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
02.83	(E) INTERIOR DOOR PANEL & FRAME TO REMAIN & PROTECT IN PLACE. PROVIDE NEW PAINT FINISH.
08.04	(E) DOOR PANEL & (E) DOOR FRAME. PROVIDE (N) DOOR HARDWARE WHERE NEEDED AND (N) PAINT FINISH. SEE DOOR SHEDULE
08.08	(N) DOOR PANEL & (N) DOOR FRAME. PROVIDE (N) DOOR HARDWARE WHERE NEEDED AND (N) PAINT FINISH. SEE DOOR SHEDULE
09.01	(N) INTERIOR PAINT FINISH, SEE FINISH SCHEDULE
10.21	(N) MARKER BOARD
10.22	(N) TACKABLE SURFACE

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K □AD□ MP
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KEY PLAN NORTH: PLAN TRUE

Consultant

Architect

LICENSED ARCHITECT Yong Yoo No. C-31162 REN 10-31-2027 STATE OF CALIFORNIA

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CONSTRUCTION DOCUMENTS

FLOOR PLANS

A1.01

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A1.02 - FLOOR PLANS

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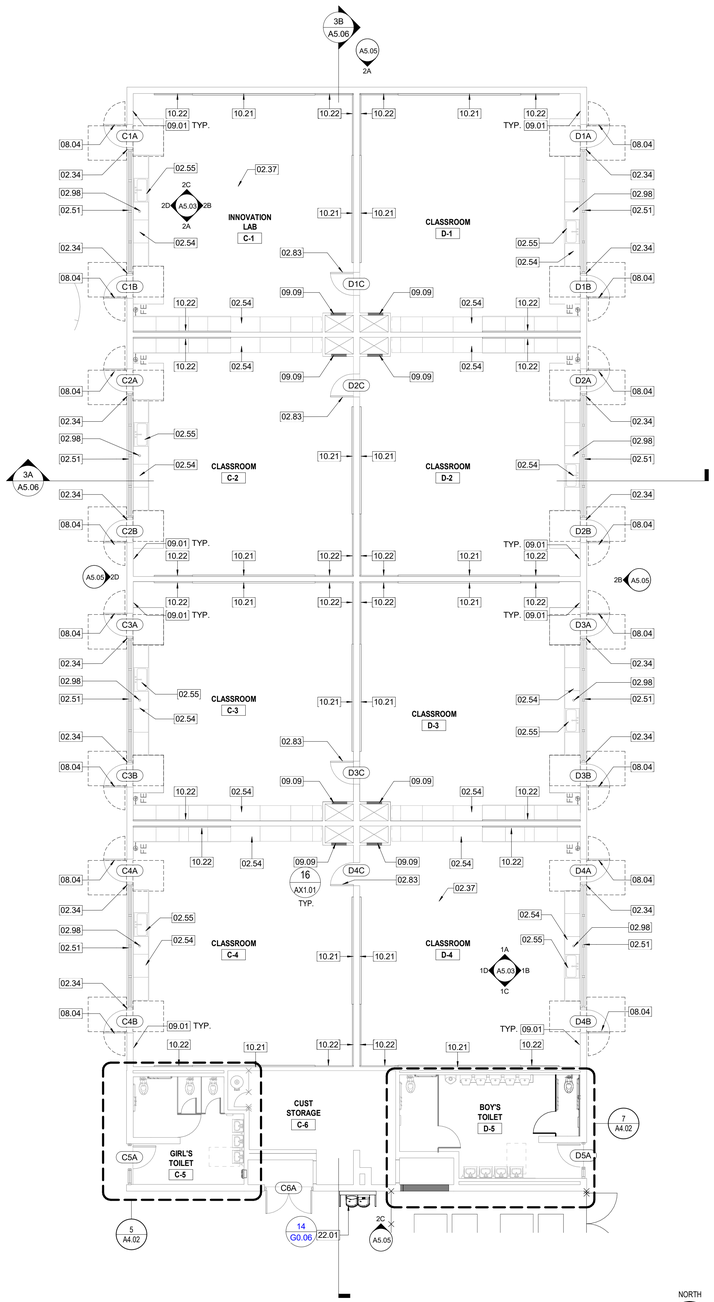
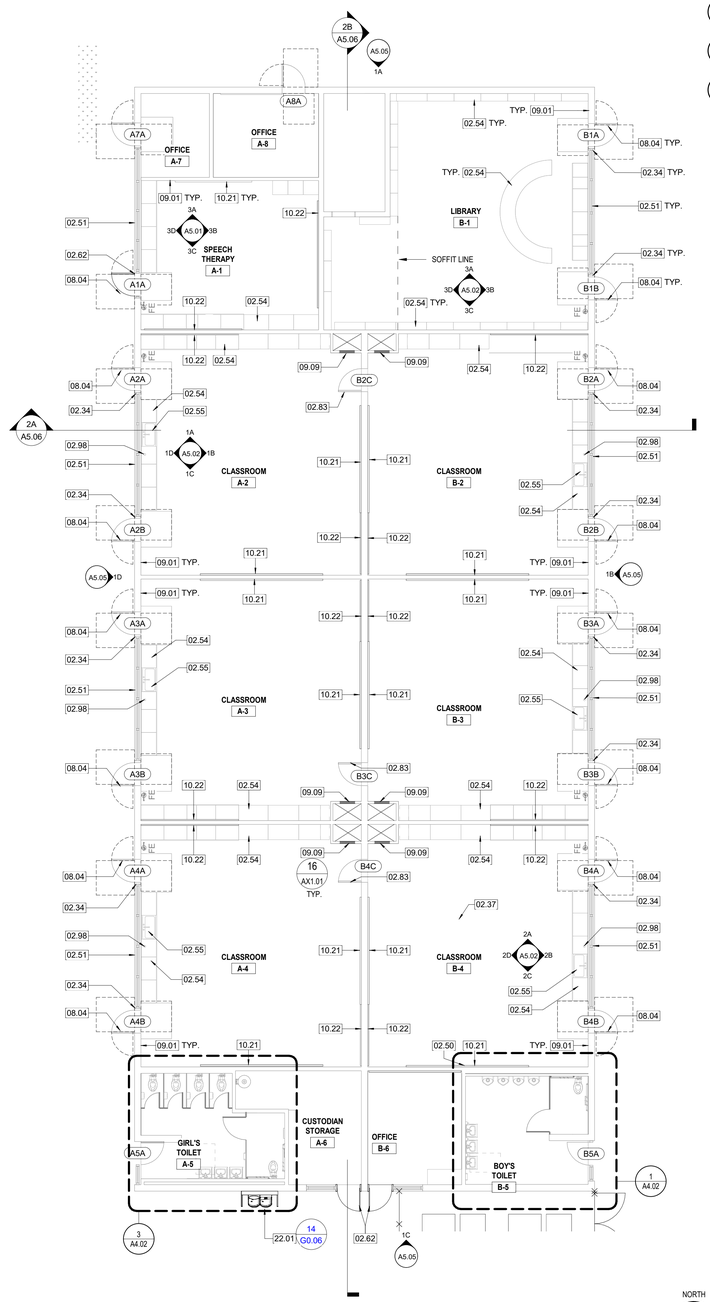


2 FLOOR PLAN BLDG C&D

1/8" = 1'-0"



1 FLOOR PLAN BLDG A&B

1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL.
2. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
4. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALKS EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROLS JOINTS
PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.

NOTE:
1. ALL BUILDINGS ARE NON-SPRINKLERED
2. ALL EXTERIOR CLASSROOM, ADMIN WINDOW FRAMES AND GLAZING TO BE REPLACED. PATCH AND REPAIR WALLS, AS NEEDED, FOLLOWING WINDOW INSTALLATION. VERIFY IN FIELD ALL DIMENSIONS SHOWN.

PAINT SCOPE OF WORK

1. CONTRACTOR SHALL PAINT ALL EXTERIOR AND INTERIOR SURFACES OF ALL BUILDINGS INCLUDING PORTABLES PER SPECIFICATION, THIS WORK INCLUDES ALL FLASHING, FASCIA, PLASTER, LOUVER, DRYWALL, DOORS AND FRAMES WITH THE EXCEPTION OF BRICK SURFACES. MINIMUM OF 4 COLORS TO BE SELECTED BY THE ARCHITECTS.
2. CONTRACTOR SHALL PAINT ALL COLUMN AND BEAMS OF SOLAR SHADE STRUCTURE PER SPECIFICATION, EXCEPT GALVANIZED AND SOLAR PANEL SURFACES, MINIMUM OF 2 COLORS TO BE SELECTED BY ARCHITECT.
3. GENERAL CONTRACTOR TO NOTIFY AND DOCUMENT ANY AREAS WITH DRYROT AND / OR TERMITE DAMAGE IN WRITTEN FORMAT PRIOR TO BID
4. CONTRACTOR SHALL PAINT ALL BREEZEWAY PLASTER CEILINGS, FASCIA, AND TRIM.
5. PAINTING OF BUILDING EXTERIOR TO INCLUDE ALL CEILINGS OF EXISTING BUILDING OVERHANGS.
6. CONTRACTOR TO PAINT EXISTING AND NEW ORNAMENTAL FENCING. COLOR TO BE SELECTED BY ARCHITECT.

REMODEL PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW WALL TO BE PROVIDED
- (E) DOOR PANEL & (E) HM DOOR FRAME TO REMAIN. PROVIDE (N) DOOR HARDWARE; REFER TO A6.01 FOR DOOR SCHEDULE AND TYPES.
  NOTE: VERIFY IN FIELD 2% SLOPES AWAY FROM BUILDING AND 2% MAX CROSS SLOPE. PROVIDE NEW CONCRETE AS REQ.
- LETTER INDICATES PARTITION TYPE, REF. DETAIL
  # INDICATES CORE WIDTH
  LETTER INDICATES CORE TYPE (S=STUD)
- WHERE EXISTING FIRE EXTINGUISHER IS MISPLACED IN CLASSROOM, MOVE (E) FIRE EXTINGUISHER WITH WALL BRACKET TO LOCATION SHOWN ON PLAN. IF FIRE EXTINGUISHER AND/OR MOUNTING BRACKET IS MISSING PROVIDE PER SPEC 10 44 00 AND REFER TO DETAIL 6 / AX6.01

CONSTRUCTION KEYED NOTES

02.34 (E) EXTERIOR H.M. DOOR FRAME TO REMAIN, PROVIDE (N) PAINT FINISH
02.37 (E) FLOOR FINISH & (E) RUBBER BASE TO REMAIN. SEE FINISH SCHEDULE
02.50 (E) PROJECTOR TO REMAIN. PROTECT IN PLACE
02.51 (E) ALUMINUM FRAME & GLAZING STOREFONT SYSTEM, TO REMAIN.
02.54 (E) CASEWORK TO REMAIN. PROTECT IN PLACE.
02.55 (E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE
02.62 REMOVE (E) DOOR AND DOOR HARDWARES. PROVIDE NEW PAINT AND RE-INSTALLED PER PLAN.
02.83 (E) INTERIOR DOOR PANEL & FRAME TO REMAIN & PROTECT IN PLACE. PROVIDE NEW PAINT FINISH.
02.98 (E) VENT PIPE TO REMAIN
08.04 (E) DOOR PANEL & (E) DOOR FRAME, PROVIDE (N) DOOR HARDWARE WHERE NEEDED AND (N) PAINT FINISH. SEE DOOR SHEDULE
09.01 (N) INTERIOR PAINT FINISH, SEE FINISH SCHEDULE
09.09 (N) DRYWALL IN-FILL W/ PAINT FINISH, REMOVE & CAP (E) MECH GRILLE
10.21 (N) MARKER BOARD
10.22 (N) TACKABLE SURFACE
22.01 (N) ACCESSIBLE DRINKING FOUNTAIN W/ BOTTLE FILLER AND WING GUARDS

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WILLMORE ELEMENTARY SCHOOL
HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7122 Maple St.
Westminster, CA 92683

CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-124971 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT EST. 1872

K | AD | MP
F4F3F2F1 / F8F7F6F5 | A-B | C-D | E5E4 | F1 F2 F3 | SDC

KEY PLAN
NORTH: PLAN TRUE

Consultant

Architect

LICENSED ARCHITECT Tong Yao No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
02-18-2026	250377

REVISIONS

No.	Description	Date
2	ADDENDUM 3	5/8/26

CONSTRUCTION DOCUMENTS

FLOOR PLANS

A1.02

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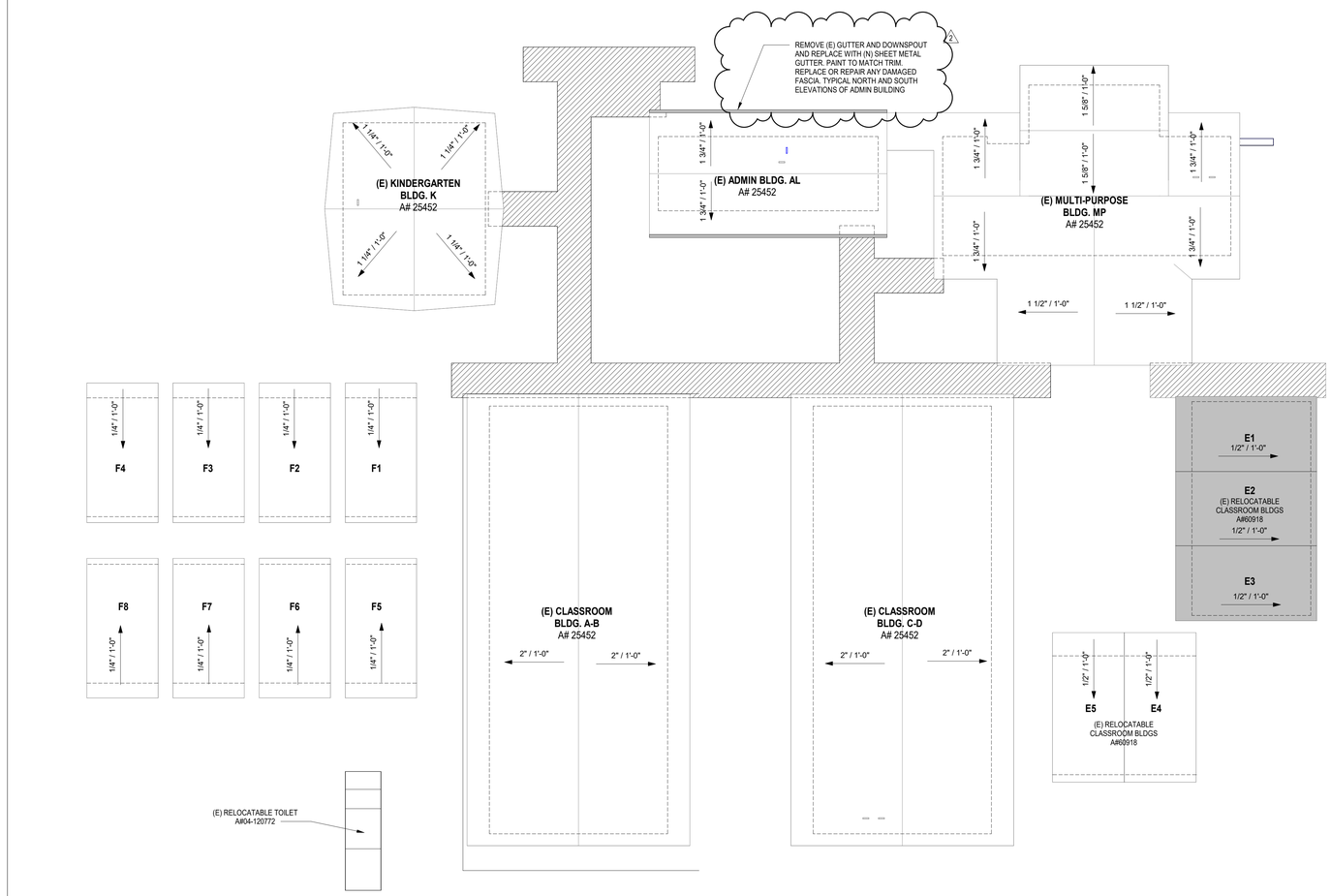
A3.01 - OVERALL ROOF PLAN

0" 1"



6 OVERALL ROOF PLAN
1" = 20'-0"

ROOF GENERAL NOTES

A. CONTRACTOR SHALL VISIT TO SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY SHALL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING THE SITE VISIT BY THE CONTRACTOR, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND WARRANTY REQUIREMENTS.

B. DIMENSIONS, DETAILS, EQUIPMENT SIZE AND LOCATION SHOWN IN THESE DOCUMENTS ARE FOR INFORMATION AND REFERENCE ONLY. EXACT SIZE, LOCATION, TYPE OF MATERIAL AND TYPE OF CONSTRUCTION OF EXISTING CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN AND CONFIRM.

C. ALL NEW CRICKETS AND TAPERED INSULATION SHALL BE INSTALLED WITH A FINISHED 1/4" PER FOOT MIN. SLOPE. CRICKET THE UP SLOPE SIDE OF ALL SQUARE CURBS AND PROJECTIONS.

D. REMOVE ALL ABANDONED EQUIPMENT IDENTIFIED ON ROOF TOP AND AS SHOWN ON DRAWINGS (PATCH DECK) HOLES LESS THAN 10" WIDE - SCREW 22 GA STAINLESS STEEL SHEET METAL TO EXISTING DECK.

E. ALL HVAC AND / OR DX UNITS, ELECTRICAL TRANSFORMERS, ROOF TOP EQUIPMENT, ETC. THAT ARE ON SLEEPERS SHALL BE DISCONNECTED / REMOVED , RAISED & PLACED ON NEW CURBED PLATFORMS (RE: DETAIL) AND RECONNECTED / RE-INSTALL. VERIFY ALL EXISTING CURB MOUNTED UNITS, EQUIPMENT, ETC. HAVE A MINIMUM 10" CURB HEIGHT (RAISED AS REQUIRED) - ALL DISCONNECTS AND RECONNECTS SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.

F. IF EXISTING ELECTRICAL / GAS / WATER / ETC. LINES ARE MODIFIED - ONLY LICENSED SUBCONTRACTORS SPECIALIZING IN HVAC, PLUMBING AND ELECTRICAL SHALL PERFORM THAT TYPE OF WORK. PERMITS AND INSPECTIONS REQUIRED - PROVIDE " MERCURY" GAS LINE TEST (COORDINATE OWNER / ARCHITECT WITNESS OF TEST) , REPAIR ALL LEAKS AND RE-TEST.

G. REPLACE AND RAISE (AS REQUIRED) ALL EXISTING EXPANSION JOINT / AREA DIVIDERS / CURB MOUNTED EQUIPMENT / SKYLIGHTS AS MIN. 10" ABOVE ROOF DECK. (UNLESS INDICATED OTHERWISE ON DRAWING.)

H. ENSURE ALL SOIL STACK FLASHING IS MIN 10" ABOVE ROOF. COUPLE PVC PIPE ABOVE DECK, COUPLE CAST IRON PIPE UNDER DECK.

I. PROVIDE SHEET META HOODED (W/ METAL FACE CLOSURE), WOOD CURB, BOX COVER AT ALL GAS LINE AND WATER LINE ROOF PENETRATIONS (RE: DETAILS). ENSURE LINES SLOPE AWAY FROM FACE COVER.

J. PROVIDE WALKWAY PROTECTION PADS (AS ACCEPTABLE TO MANUFACTURER - RE: SPECS) AROUND ALL ROOF HATCHES, A/C UNITS, DOORS THAT OPEN ONTO ROOF, AND AT ALL ROOF TOP ACCESS LADDERS (TOP & BOTTOM).

K. ISOLATE ALL HEAT PIPES / FLUES AS RECOMMENDED & OUTLINED IN THE NRCA MANUAL FOR ISOLATED STACK FLASHING - (RE: DETAILS)

L. ALL OUTSIDE AIR INTAKES SHALL BE COVERED TO ELIMINATE ODORS AND FUMES FROM ENTERING INTO THE BUILDING DURING WORK.

M. EXAMINE AND CLEAN EXISTING DRAIN LINES OF DEBRIS AND BLOCKAGE, FLUSH WITH WATER TO ENSURE THAT DRAINS FLOW FREELY.

N. OWNER WILL VERIFY CORRECT OPERATION OF ALL ROOF TOP EQUIPMENT BEFORE AND AFTER. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL INOPERABLE EQUIPMENT PRIOR TO RELEASE OR RETAIN.

O. REPLACE ALL RUSTED / DETERIORATED EXISTING METAL VENT FLASHING AND FLUES.

P. COORDINATE WALK OF ENTIRE ROOF (PRIOR TO STARTING) WITH ROOFING MANUFACTURER'S TECHNICAL REP. TO IDENTIFY AND LOCATE ALL AREAS OF HIGH SLOPE WHICH MIGHT REQUIRE SPECIAL PROCEDURES FOR SYSTEM ATTACHMENT.

Q. PROVIDE ONE-WAY MOISTURE VENTS 1 PER 900 SF AT ALL LT. WT. OVER POUR AREAS.

ROOF SCOPE OF WORK

REMOVE AND PROPERLY DISPOSE OF EXISTING ROOFING (WEIGHING APPROXIMATELY 8 LBS/SF) DOWN TO EXISTING ROOF DECK AT RELOCATABLE CLASSROOMS E1, E2. E3. PREPARE / REPAIR EXISTING FASCIA NAILER FOR INSTALLATION OF NEW CLASS 'A' ROOF SYSTEM. PREPARE / REPAIR EXISTING ROOF DECK WITH LIKE KIND MATERIAL AND ATTACHMENT. MECHANICALLY ATTACH NEW BASE SHEET, HEAT WELD MODIFIED BITUMEN PLY ROOF MEMBRANE, ENSURE ITS WATER TIGHT PRIOR COVERING UP. HEAT WELD MODIFIED BITUMEN PER TITLE 24 FINISH PLY ROOF MEMBRANE WITH ASSOCIATED ROOF RELATED SHEET METAL, GUTTERS, DOWNSPOUTS, EDGE METALS AND TRIMS. THE TOTAL WEIGHT OF THE NEW COMPLETED ROOF IS NOT TO EXCEED 5 LBS / SF.
ROOFING TO BE CLASS A ASSEMBLY.

ROOF LEGEND

NEW ROOF SCOPE OF WORK
- (N) CLASS A ROOF ASSEMBLY, SEE ROOF SCOPE OF WORK
- (N) PAINT FINISH AT (E) FASCIA, GUTTER
- (N) PAINT FINISH AT (E) ROOF EAVE
- REPLACE OR REPAIR ALL EXISTING ROOF DAMAGE.

EXISTING ROOF AT WALKWAY SCOPE OF WORK
- (N) PAINT FINISH AT (E) FASCIA, GUTTER
- (N) PAINT FINISH AT (E) ROOF EAVE
- (N) PAINT FINISH AT WALKWAY POST

NOT IN SCOPE

ROOF SCHEDULE

AREA	APPROX SQ.FT.	Comments
RELO F5	1128 SF	
RELO F6	1128 SF	
RELO F7	1128 SF	
RELO F8	1128 SF	
RELO F1	1128 SF	
RELO F2	1128 SF	
RELO F3	1128 SF	
RELO F4	1128 SF	
KINDERGARTEN BLDG	3821 SF	
CLASSROOM BLDG A-B	11557 SF	
CLASSROOM BLDG C-D	11557 SF	
ADMIN BLDG	3315 SF	
RELO E4 E5	2436 SF	
RELO E1 E2 E3	3589 SF	
WALKWAY ROOF	5460 SF	
WALKWAY ROOF 2	690 SF	
RELO TOILET	480 SF	

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CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-124971 DSA FILE NO.: 30-43

K AD MP
F4F3F2F1 / F8F7F6F5 A-B C-D F1 F2 E3 E5E4 SDC

KEY PLAN
NORTH: PLAN TRUE

Consultant

Architect
LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

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DATE	PROJECT NUMBER
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REVISIONS

No.	Description	Date
2	ADDENDUM 3	5/8/26

CONSTRUCTION DOCUMENTS

OVERALL ROOF PLAN

A3.01

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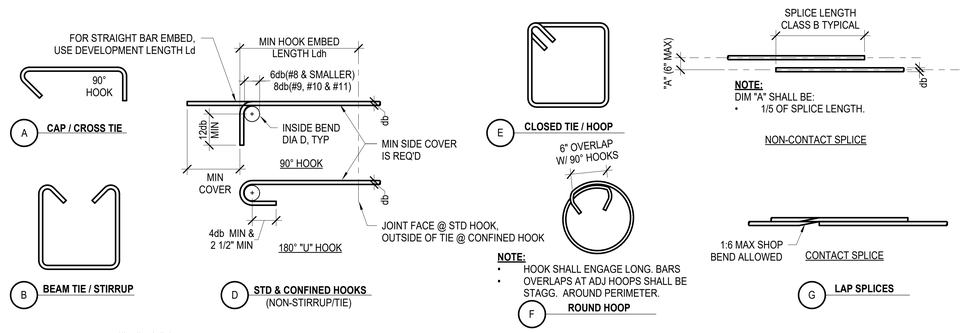
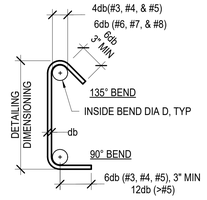




C STIRRUP & TIE HOOKS (#8 & SMALLER ONLY)

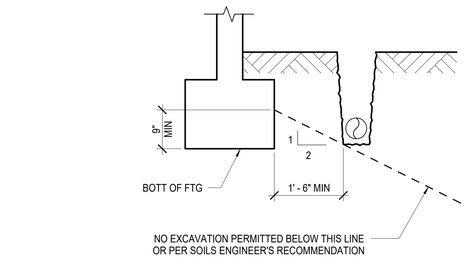
BAR SIZE	FINISHED BEND DIAMETER "D" IN INCHES
#3	2 1/4"
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	8"

STANDARD HOOKS

	BAR SIZE	L_{dh}(in) STD HOOK	LAP SPLICE (in) CLASS B		L_d(in) DEVELOPMENT LENGTH	
			TOP	OTHER	TOP	OTHER
4000 PSI NWC	#3	6	25	20	19	15
	#4	7	33	25	25	19
	#5	9	41	32	31	24
	#6	12	49	38	37	29
	#7	15	71	55	54	42
	#8	19	81	63	62	48
	#9	22	91	71	70	54
	#10	27	103	80	79	61
	#11	31	114	88	87	67

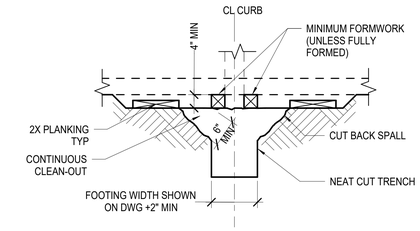
NOTES:
1. Ldh = HOOK DEVELOPMENT LENGTH.
2. Ld = DEVELOPMENT LENGTH.
3. db = REINFORCING BAR DIAMETER
4. SEE BUILDING CODE AND ACI 318-19 VERSION FOR ALL REQUIREMENTS NOT NOTED.
5. FOR LIGHTWEIGHT CONCRETE MULTIPLY Ldh AND Ld VALUES SHOWN BY 1.33.
6. TOP BARS ARE HORIZONTAL WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "OTHER" BARS.
7. STANDARD HOOK Ldh DOES NOT ACCOUNT FOR THE EFFECT OF TIES. CONFINED HOOK Ldh MAY BE USED WHERE ACI 318-19 25.4.3 APPLIES.
8. VALUES SHOWN ABOVE ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
9. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN 2db, CONCRETE COVER NOT LESS THAN db.
10. IF EPOXY-COATED REINFORCEMENT IS USED, THE DEVELOPMENT/LAP SPLICE LENGTHS HEREIN SHALL BE MULTIPLIED BY APPLICABLE FACTORS IN ACI 318-19 SECTIONS 25.4.2.5 OR 25.4.3.2.
11. IN LIEU OF LAP SPLICES, PROVIDE TYPE 2 COUPLERS PER IAPMO ER 0129. STAGGER COUPLERS SO THAT COUPLERS DO NOT OCCUR IN ROW.

5 S-1.1 TYP CONC REINFORCEMENT DETAILS AND DEVELOPMENT LENGTHS
SCALE:N.T.S.



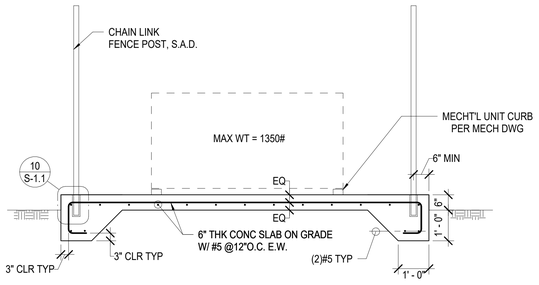
NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.

3 S-1.1 TYPICAL EXCAVATION PARALLEL TO FOOTING
SCALE:N.T.S.

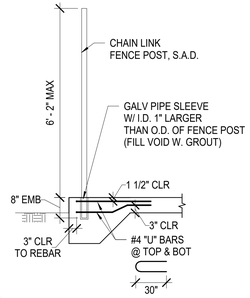


NOTES:
1. FOOTINGS POURED AGAINST EARTH ARE SUBJECT TO APPROVAL OF GEOTECH. ENGR.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.
4. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.
5. CONT CLEAN-OUT STAKES NOT PERMITTED IN THE FTG AREA.
6. AFTER CONCRETE HAS SET, REMOVE LAITANCE AND SCUM.

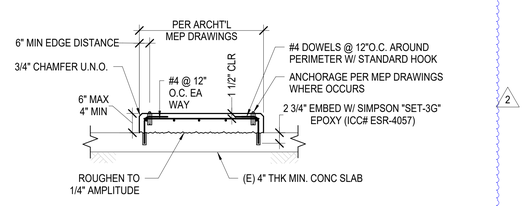
4 S-1.1 FOOTING POURED AGAINST EARTH
SCALE:N.T.S.



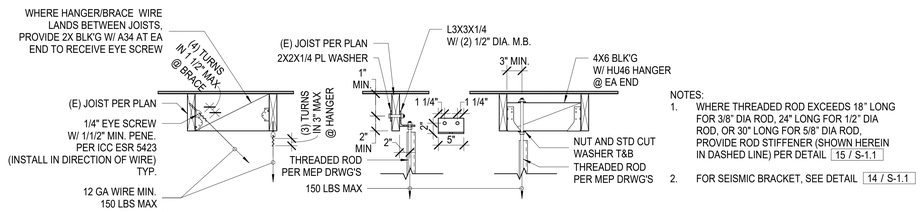
9 S-1.1 MEP CONC PAD DETAIL
SCALE: 1/2" = 1'-0"



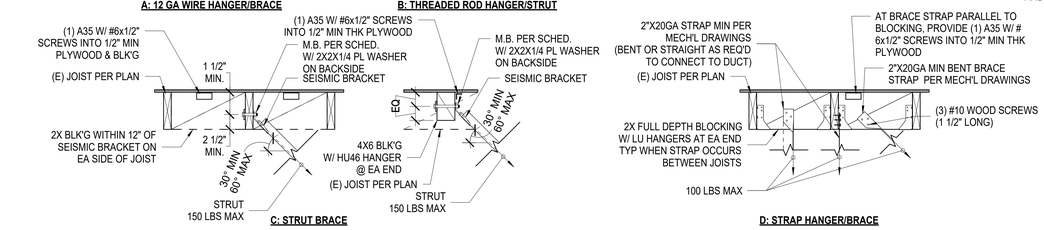
10 S-1.1 FENCE POST DETAIL
SCALE: 1/2" = 1'-0"
REF DET:9 S-1.1



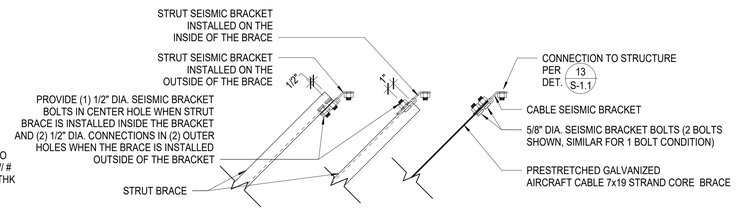
11 S-1.1 CONC. PAD ON (E) SLAB
SCALE:N.T.S.



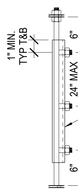
NOTES:
1. WHERE THREADED ROD EXCEEDS 18" LONG FOR 3/8" DIA ROD, 24" LONG FOR 1/2" DIA ROD, OR 30" LONG FOR 5/8" DIA ROD, PROVIDE ROD STIFFENER (SHOWN HEREIN IN DASHED LINE) PER DETAIL 15 / S-1.1
2. FOR SEISMIC BRACKET, SEE DETAIL 14 / S-1.1



13 S-1.1 MEP HANGER AND BRACE CONNECTION TO STRUCTURE (WOOD FRAMING
SCALE:N.T.S.
REF DET:14 S-1.1



NOTES:
1. STRUT SEISMIC BRACKET TYPE (BY MASON WEST OR EQUAL WITH APPROVED OPM):
   A. FOR 3/8" AND 1/2" DIA. ANCHOR USE SSBS-12
   B. FOR 5/8" AND 3/4" DIA. ANCHOR USE SSBS-20
   C. SEISMIC BRACKET BOLTS FOR THE SSBS-12 AND SSBS-20 SHALL BE 1/2" DIA. STRUT NUT WITH STUD AND BREAK-OFF NUT (MW-BON-1/2) AND STANDARD WASHER TORQUED TO 50 FT-LBS
2. CABLE SEISMIC BRACKET TYPE (BY MASON WEST OR EQUAL WITH APPROVED OPM):
   A. FOR 3/32" DIA. CABLE USE SCB-0 W/ (1) 5/8" BOLT
   B. FOR 1/8" DIA. CABLE USE SCB-1 W/ (2) 5/8" BOLTS
   C. FOR 3/16" DIA. CABLE USE SCB-2 W/ (2) 5/8" BOLTS
   D. SEISMIC BRACKET BOLTS FOR SCB-0, SCB-1, AND SCB-2 SHALL BE 5/8" DIA. SQUARE HEAD BOLTS AND NUTS, TORQUED TO 30 FT-LBS OR USE 30 FT-LBS MIN BREAK AWAY NUT (MW-SCB-BON)



NOTES:
1. ROD STIFFENER CLAMP TYPE (BY MASON WEST OR EQUAL WITH APPROVED OPM):
   A. UCC SEISMIC ROD CLAMP TORQUED TO 10 FT-LBS

14 S-1.1 BRACE UPPER DETAIL
SCALE:N.T.S.

15 S-1.1 THREADED ROD STIFFENER
SCALE:N.T.S.

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50% CD

DSA APPL NO.: ## ##### DSA FILE NO.: ###

PLAY | K | AD | MP | F4F3F2F1 | F8F7F6F5 | A-B | C-D | E1 E2 | E5E4 | SDC | PLAY

KEY PLAN
NORTH: PLAN TRUE

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CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
09-30-2025	250377

REVISIONS

No.	Description	Date
2	Addendum #2	5/8/26

50% CD

DETAILS

S-1.1

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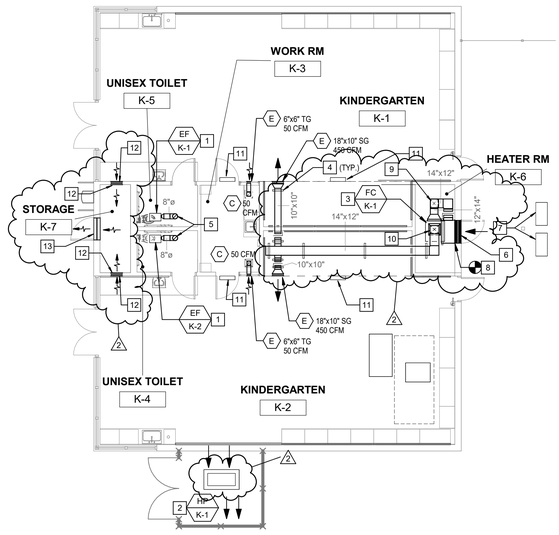

1 KINDERGARTEN - FLOOR PLAN

1/8" = 1'-0"

N

SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS (EQUIPMENT, DUCT, PIPES, ETC.) BEFORE COMMENCING ANY WORK AND REPORT ANY DISCREPANCY TO ENGINEER.
2. PROVIDE ALL BRANCH DUCT TO DIFFUSER, REGISTER, GRILLE, OSA CONNECTION TO FC UNIT WITH VOLUME (BALANCING DAMPER).

KEY NOTES

1. CEILING MOUNT EXHAUST FAN, SEE SCHEDULE SHEET M5.01 FOR INFORMATION.
2. GROUND MOUNTED HEAT PUMP UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION.
3. FLOOR MOUNTED, VERTICAL FAN COIL UNIT, SEE SCHEDULE SHEET M5.01 FOR INFORMATION.
4. DUCT SUPPORT AND HANGER, SEE DETAILS 2/M6.02, 4/M6.02, 6/M6.02, 14/M6.02.
5. 8"Ø EA DUCT UTR.
6. (E) 36"x48" LOUVER (ABOVE DOOR).
7. (E) OUTDOOR SPLIT SYSTEM HEAT PUMP (MOUNTED ABOVE CANOPY).
8. RUN 36"x24" OSA PLENUM AND CONNECT TO EXISTING OSA LOUVER AT POINT OF CONNECTION, AS SHOWN.
9. RUN 12"x14" OSA DUCT UP AND TRANSITION TO 14"x12".
10. RUN 14"x12" SA DUCT UP.
11. (E) WALL MOUNT INDOOR SPLIT SYSTEM FAN COIL UNIT.
12. 18"x10" RA SIDE WALL GRILLE, 450 CFM.
13. 34"16" RELIEF AIR LOUVER (ABOVE DOOR), 3.6 SQUARE FEET 50% FREE AREA, 900 CFM.

N

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WILLMORE ES HVAC UPGRADE & MODERNIZATION

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100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-121971 DSA FILE NO.: 30-43

KEY PLAN

K | AD | MP
F4F3F2F1 / F8F7F6F5 | A-B | C-D | E5E4 | F1 F2 E3 | SDC

NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
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WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
11-14-2025	250377

REVISIONS

No.	Description	Date
2	Addendum 2	05/08/2026

100% CONSTRUCTION DOCUMENTS

MECHANICAL FLOOR PLANS

M2.01

OUTDOOR HEAT PUMP/CONDENSING UNIT SCHEDULE

UNIT NO.	MANUFACTURER AND MODEL NO.	INDOOR UNIT SERVING	COOLING CAP. (MBH) COOLING (TOTAL)	COOLING CAP. (MBH) HEATING (@17°F AMB. WB)	COP2 (@17°F AMB. WB)	AMB.°F	E.E.R.	ELECTRICAL COMPRESSOR QTY.	COMPRESSOR RLA	COMPRESSOR LRA	OUTDOOR FAN QTY.	OUTDOOR FAN FLA	MCA	MOCP	VOLTAGE	OPER WT. (LBS)	ANCHORAGE DETAIL	REMARKS
HP A-1	TOSHIBA/CARRIER MMY-MUB2401HT8P	FC A-1 TO FC A-6	240.0	270.0	3.88	88.0 DB 68.0 WB	11.2	2	-	-	1	-	51.5 + 36.6 = 88.1	70 + 45 = 115	230V / 3Ø / 60HZ	758 + 518 = 1276	20 M6.02	SEE NOTES #1-11
HP B-1	TOSHIBA/CARRIER MMY-MUB2641HT8P	FC B-1 TO FC B-5	264.0	297.0	3.82	88.0 DB 68.0 WB	10.3	2	-	-	1	-	57.4 + 36.6 = 94.0	80 + 45 = 125	230V / 3Ø / 60HZ	758 + 518 = 1276	20 M6.02	SEE NOTES #1-11
HP C-1	TOSHIBA/CARRIER MMY-MUB2401HT8P	FC C-1 TO FC C-4	240.0	270.0	3.88	88.0 DB 68.0 WB	11.2	2	-	-	1	-	51.5 + 36.6 = 88.1	70 + 45 = 115	230V / 3Ø / 60HZ	758 + 518 = 1276	20 M6.02	SEE NOTES #1-11
HP D-1	TOSHIBA/CARRIER MMY-MUB2401HT8P	FC C-1 TO FC D-4	240.0	270.0	3.88	88.0 DB 68.0 WB	11.2	2	-	-	1	-	51.5 + 36.6 = 88.1	70 + 45 = 115	230V / 3Ø / 60HZ	758 + 518 = 1276	20 M6.02	SEE NOTES #1-11
HP K-1	AAON CFA-004-A-A-8-LJ00H	FC K-1	45.1	40.3	3.88 COP	88.0 DB 68.0 WB	12.6	1	16.7	-	1	2.8	24	40	208V / 3Ø / 60HZ	868	6 M6.01	SEE NOTES #1-11
2																	2	

NOTES:
1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES.
2. PROVIDE LOW AMBIENT KIT.
3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD.
4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS.
5. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.
6. PROVIDE HAIL-GUARD.
7. INSTALL UNIT ON 6" CONCRETE PAD.
8. GROUND MOUNT HEAT PUMP UNIT.
9. ALL UNITS SHALL HAVE R-32 REFRIGERANT.
10. PROVIDE ALL OUTDOOR HEAT PUMP WITH FACTORY APPLIED ANTI-CORROSION COATING FOR COASTAL INSTALLATION APPLICATIONS.
11. ALL UNITS SHALL BE OWNER FURNISHED CONTRACTOR INSTALLED (OFCI).

FANS SCHEDULE

UNIT	MANUFACTURER & MODEL NO.	SERVICE	TYPE	CFM	SP IN W.G.	FAN RPM	MOTOR HP BHP	MOTOR FLA	MCA	MOCP	DRIVE	VOLT	PH	HZ	SONES	OPER WT. (LBS)	ANCHORAGE DETAIL	REMARKS
EF A-1	GREENHECK CSP-A510-VG	BLDG. "A" GIRL'S TOILET A-5	INLINE	350	0.5	1190	83 WATTS	2.45	-	-	DIRECT	115	1	60	6.6	55	19 M6.02	SEE NOTES #1, 2, 3, 4.
EF A-2	GREENHECK CSP-A390-VG	BLDG. "A" CUSTODIAN STORAGE A-6	INLINE	150	0.3	1007	21 WATTS	1.5	-	-	DIRECT	115	1	60	5	35	19 M6.02	SEE NOTES #1, 2, 3, 4.
EF B-1	GREENHECK CSP-A390-VG	BLDG. "B" BOY'S TOILET B-5	INLINE	150	0.3	1007	21 WATTS	1.5	-	-	DIRECT	115	1	60	5	35	12 M6.02	SEE NOTES #1, 2, 3, 4.
EF C-1	GREENHECK	BLDG. "C" GIRLS RR C-5	INLINE	210	0.5	-	- -	-	-	-	DIRECT	115	1	60	-	-	19 M6.02	SEE NOTES #1, 2, 3, 4.
EF C-2	GREENHECK CSP-A390-VG	BLDG. "C" CUST STORAGE C-6	INLINE	150	0.3	1007	21 WATTS	1.5	-	-	DIRECT	115	1	60	5	35	19 M6.02	SEE NOTES #1, 2, 3, 4.
EF D-1	GREENHECK CSP-610-VG	BLDG. "D" BOY'S TOILET D-5	INLINE	630	0.5	1250	120 WATTS	2.70	-	-	DIRECT	115	1	60	7.2	70	19 M6.02	SEE NOTES #1, 2, 3, 4.
EF K-1	GREENHECK SP-A125	BLDG. "K" UNISEX TOILET K-5	CEILING	100	0.25	1056	18 WATTS	0.18	-	-	DIRECT	115	1	60	0.6	35	12 M6.02	SEE NOTES #1, 3, 4, 6, 7, 8, 9.
EF K-2	GREENHECK SP-A125	BLDG. "K" UNISEX TOILET K-5	CEILING	100	0.25	1056	18 WATTS	0.18	-	-	DIRECT	115	1	60	0.6	35	12 M6.02	SEE NOTES #1, 3, 4, 6, 7, 8, 10.
SF K-1	GREENHECK SP-A125	BLDG. "K" UNISEX TOILET K-5	CEILING	100	0.25	1056	18 WATTS	0.18	-	-	DIRECT	115	1	60	0.6	35	12 M6.02	
SF A/B-1	GREENHECK SQ-160-VG	BLDG. "A" & "B"	INLINE	2760	1.0	1555	3/4 / 0.44	8.8	11	20	DIRECT	115	1	60	12.1 INLET 9.7 RADIATED	70	19 M6.02	SEE NOTES #1, 2, 3, 4, 5, 11.
SF C/D-1	GREENHECK SQ-160-VG	BLDG. "C" & "D"	INLINE	2760	1.0	1555	3/4 / 0.44	8.8	11	20	DIRECT	115	1	60	12.1 INLET 9.7 RADIATED	70	19 M6.02	SEE NOTES #1, 2, 3, 4, 5, 12.

NOTES:
1. PROVIDE BUILT-IN FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. PROVIDE BACKDRAFT DAMPER.
3. INTERLOCK FAN 'S OPERATION WITH TIMKE CLOCK SCHEDULE PROVIDED BY THE SCHOOL DISTRICT.
4. PROVIDE FACTORY SOLID STATE SPEED CONTROLLER MOUNTED WITHIN THE FAN CASING.
5. PROVIDE FAN WITH MERV 13 FILTER BOX.
6. PROVIDE WITH FACTORY INTEGRAL BACKDRAFT DAMPER.
7. PROVIDE WITH HANGING KIT.
8. PROVIDE WITH ROUND DUCT CONNECTOR.
9. INTERLOCK FAN'S OPERATION WITH FAN COIL UNIT FC-K-1.
10. INTERLOCK FAN'S OPERATION WITH FAN COIL UNIT FC-K-2.
11. INTERLOCK FAN'S OPERATION WITH FAN COIL UNITS FC-A-1, FC-A-2, FC A-3, FC-A-4, FC-A-5, FC-A-6, FC-B-1, FC-B-2, FC-B-3 AND FC-B-4.
12. INTERLOCK FAN'S OPERATION WITH FAN COIL UNITS FC-C-1, FC-C-2, FC C-3, FC-C-4, FC-D-1, FC-D-2, FC-D-3 AND FC-D-4.

INDOOR FAN COIL UNIT SCHEDULE

UNIT NO.	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	TYPE	CAPACITY (MBH) COOLING (TOTAL/ SENSIBLE)	CAPACITY (MBH) HEATING (@17°F AMB. WB)	OSA TEMP. (°F) (DB/WB)	EAT. (°F) (DB/WB)	LAT. (°F) (DB/WB)	SUPPLY FAN MAX. CFM	SUPPLY FAN E.S.P. (IN.)	SUPPLY FAN H.P./ B.H.P.	SUPPLY FAN MAX. B.H.P.	SUPPLY FAN RPM.	ELECTRICAL VOLTAGE	ELECTRICAL UNIT MCA	ELECTRICAL MOCP	OPER. WT. (LBS.)	MIN. OSA (CFM)	ANCHORAGE DETAIL	REMARKS
FC A-1	TOSHIBA/CARRIER MMD-UB0121VHN-UL	OFFICE A-7	BLDG. "A"	VRF INDOOR	12.0	13.5	88.0/68.0	80.0	67.0	424	0.4	73 WATTS	-	-	208V/ 1Ø / 60HZ	4	6	120	30	25 M6.01	SEE NOTES 1-8, 11.
FC A-2	TOSHIBA/CARRIER MMD-UB0121VHN-UL	OFFICE A-8	BLDG. "A"	VRF INDOOR	12.0	13.5	88.0/68.0	80.0	67.0	424	0.4	73 WATTS	-	-	208V/ 1Ø / 60HZ	4	6	120	30	25 M6.01	SEE NOTES 1-8, 11.
FC A-3	TOSHIBA/CARRIER MMD-UB0361VHN-UL	SPEECH THERAPY A-1	BLDG. "A"	VRF INDOOR	36.0	40.0	88.0/68.0	80.0	67.0	923	0.6	241 WATTS	-	-	208V/ 1Ø / 60HZ	5	6	135	75	25 M6.01	SEE NOTES 1-8, 11.
FC A-4	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM A-2	BLDG. "A"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	345	25 M6.01	SEE NOTES 1-8, 11.
FC A-5	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM A-3	BLDG. "A"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	345	25 M6.01	SEE NOTES 1-8, 11.
FC A-6	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM A-4	BLDG. "A"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	345	25 M6.01	SEE NOTES 1-8, 11.
FC B-1	TOSHIBA/CARRIER MMD-UB0601VHN-UL	LIBRARY B-1	BLDG. "B"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	345	25 M6.01	SEE NOTES 1-8, 11.
FC B-2	TOSHIBA/CARRIER MMD-UB0721VHN-UL	COMPUTER LAB B-2	BLDG. "B"	VRF INDOOR	72.0	81.0	88.0/68.0	80.0	67.0	2,235	1.0	0.54 KW	-	-	208V/ 1Ø / 60HZ	5.7	15	220	345	25 M6.01	SEE NOTES 1-8, 11.
FC B-3	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM B-3	BLDG. "B"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	345	25 M6.01	SEE NOTES 1-8, 11.
FC B-4	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM B-4	BLDG. "B"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	345	25 M6.01	SEE NOTES 1-8, 11.
FC B-5	TOSHIBA/CARRIER MMD-UB0121VHN-UL	OFFICE B-6	BLDG. "B"	VRF INDOOR	12.0	13.5	88.0/68.0	80.0	67.0	424	0.4	73 WATTS	-	-	208V/ 1Ø / 60HZ	4	6	120	30	25 M6.01	SEE NOTES 1-8, 11.
FC C-1	TOSHIBA/CARRIER MMD-UB0601VHN-UL	CLASSROOM C-1	BLDG. "C"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC C-2	TOSHIBA/CARRIER MMD-UB0601VHN-UL	CLASSROOM C-2	BLDG. "C"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC C-3	TOSHIBA/CARRIER MMD-UB0601VHN-UL	CLASSROOM C-3	BLDG. "C"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC C-4	TOSHIBA/CARRIER MMD-UB0601VHN-UL	SPECIAL ED CLASSROOM C-4	BLDG. "C"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC D-1	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM D-1	BLDG. "D"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC D-2	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM D-2	BLDG. "D"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC D-3	TOSHIBA/CARRIER MMD-UB0301VHN-UL	CLASSROOM D-3	BLDG. "D"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC D-4	TOSHIBA/CARRIER MMD-UB0601VHN-UL	SPECIAL ED CLASSROOM D-4	BLDG. "C"	VRF INDOOR	60.0	67.0	88.0/68.0	80.0	67.0	1,728	0.6	519 WATTS	-	-	208V/ 1Ø / 60HZ	7	10	175	-	25 M6.01	SEE NOTES 1-8, 11.
FC K-1	AAON V3-ARB-9-0-461C	KINDERGARTEN K-1, K-2, WORK RM K-3	BLDG. "K"	DOAS INDOOR	45.1/35.1	40.3	88.0/68.0	88.0/68.0	51.0/50.5	900	0.7	-/0.62	2.4	2439	208V/ 1Ø / 60HZ	6	15	425	900	16 M6.01	SEE NOTES 1-4, 8, 9, 10, 11.
2																			2		

NOTES:
1. PROVIDE WITH CONDENSATE DRAIN PAN (PRIMARY AND SECONDARY) FOR FAN COIL UNIT AND ASSOCIATED PIPING.
2. PROVIDE WITH CONDENSATE DRAIN LIFT PUMP (CONDENSATE PUMP SHALL BE POWERED THRU INDOOR FAN COIL UNIT).
3. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE FACTORY T-24 COMPLIANT PROGRAMMABLE THERMOSTAT WITH "COOLMASTER" INTERFACE FOR BACNET, AND AIR-THINGS CO2 MONITOR.
5. SUSPENDED HORIZONTAL MOUNT UNIT.
6. UNIT WITH STEP DOWN TRANSFORMER. INTERLOCK UNIT WITH OSA & RA MOTORIZED DAMPERS, SEE MOTORIZED DAMPER SCHEDULE THIS SHEET.
7. UNIT SHALL HAVE DUCT FLEX CONNECTIONS INSTALLED ON HORIZONTAL DUCTS.
8. ALL UNITS SHALL HAVE R-454B REFRIGERANT.
9. VERTICAL, FLOOR MOUNT UNIT.
10. PROVIDE UNIT WITH HOT GAS REHEAT: 22.7 MBH, 41.5% RH.
11. ALL UNITS SHALL BE OWNER FURNISHED CONTRACTOR INSTALLED (OFCI).

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	MAKE & MODEL	DESCRIPTION
A	CEILING SUPPLY	TITUS MODEL MCD-3	MODULAR CORE DIFFUSER WITH FRAME FOR LAY-IN T-BAR CEILING, FLUSH FACE MOUNTING.
B	CEILING RETURN	TITUS MODEL PAR-3	PERFORATED FACE DIFFUSER WITH FRAME FOR LAY-IN T-BAR CEILING, FLUSH FACE MOUNTING.
C	CEILING SUPPLY	TITUS MODEL MCD-1	MODULAR CORE DIFFUSER WITH RAPID MOUNT FRAME MODEL TRM FOR SURFACE MOUNTING.
D	CEILING RETURN/EXHAUST	TITUS MODEL 50F	EGG CRATE GRILLE DIFFUSER WITH RAPID MOUNT FRAME MODEL TRM FOR SURFACE MOUNTING.
E	SIDEWALL SUPPLY/RETURN	TITUS MODEL 1700	DOUBLE DEFLECTION HORIZONTAL 5" DOWN FRONT GRILLE WITH 1/2" BLADE SPACING AND OBD, FOR DUCT/WALL MOUNTING.
F	CEILING SUPPLY	TITUS MODEL ML-3B-2B	ALUMINUM LINEAR SLOT DIFFUSER, 3/4" SLOT,4-SLOT, PATTERN CONTROLLER, FLANGED BORDER FOR SURFACE MOUNTING, OPTIONAL PLENUM IN 2,3,4 OR 5 FOOT SECTIONS PER PLANS, COLOR PER ARCHITECT.

NOTES:
1. EQUIVALENT MODELS OF KRUEGER, ANEMOSTAT, PRICE OR T&B ARE ACCEPTABLE.
2. REFER TO THE FLOOR PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN AND FIRE/DAMPER, IF REQUIRED.
3. PROVIDE AIR CONTROL GRID FOR ALL CEILING SUPPLY DIFFUSERS SET AT 90°.
4. INTERIOR OF ALL GRILLES SHALL BE PAINTED FLAT BLACK.

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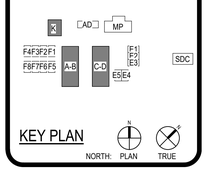
WILLMORE ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7122 Maple St.
Westminster, CA 92683

100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-121971 DSA FILE NO.: 30-43



Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID WANG No.M36155 Exp.09-30-2026 MECHANICAL STATE OF CALIFORNIA

Architect

LICENSED ARCHITECT Yong Yoo No. C-31162 REN 10-31-2026 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
11-14-2025	250377

REVISIONS

No.	Description	Date
1	Addendum 1	04/27/2026
2	Addendum 2	05/08/2026

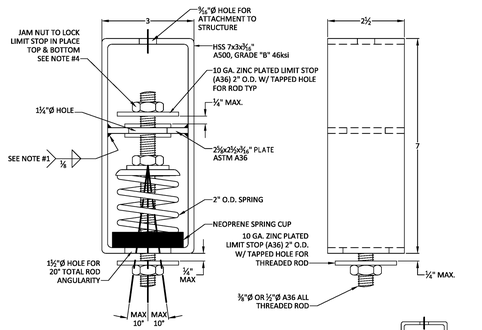
100% CONSTRUCTION DOCUMENTS

MECHANICAL SCHEDULES

M5.01

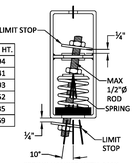
0" 1"

HANGER BOX DETAIL



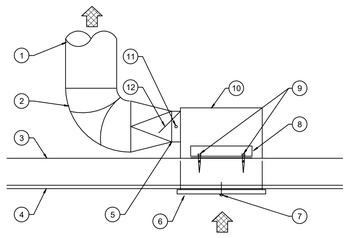
SPRING	COLOR	OD	DEFL	LOAD @ DEFL	ASTM DESIGN	WIRE Ø	TOTAL COILS	FREE HT.	SOLID HT.
2220	YELLOW	2"	1"	20 LBS	A229-12	0.125"	4.75	2.25	0.594
2250	RED	2"	1"	50 LBS	A229-12	0.156"	4.75	2.25	0.741
2275	GREEN	2"	1"	75 LBS	A229-12	0.156"	3.8	2.25	0.593
22100	PINK	2"	1"	100 LBS	A229-12	0.177"	4.25	2.25	0.752
22150	WHITE	2"	1"	150 LBS	A229-12	0.207"	5	2.5	1.035
22225	ORANGE	2"	1"	225 LBS	A229-12	0.225"	4.75	2.5	1.069

NOTE(S):
1. MAX. LOAD CAPACITY (DEAD): 225 LBS
2. MAX. SEISMIC LOAD RATING: 1,200 LBS
3. WELDING WILL BE DONE USING ER 70XX ELECTRODES.
4. THE LIMIT STOPS ARE TO BE ADJUSTED ONCE THE SPRING IS SET AT THE OPERATING DEFLECTION SO THE ¼" GAP IS ACHIEVED.
5. W/ DESIGN DEFL. @ 1", THE LOAD @ DEFL. IS ALSO THE SPRING RATE IN LBS/IN.
6. A229-12 WIRE USED IS MIN CLASS I (MIN. TENSILE STRENGTH IS 188ksi).



18 HANGER BOX DETAIL
NOT TO SCALE

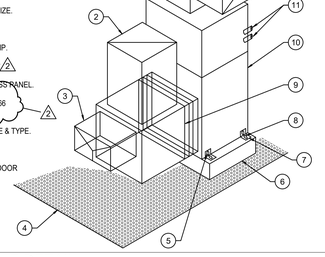
NOTES:
1. ROUND GALVANIZED SHEET METAL DUCT THRU ROOF, SEE MECHANICAL PLAN FOR SIZE.
2. ROUND GALVANIZED SHEET METAL 90° ELBOW.
3. 2X WOOD FRAMING OR BLOCKING.
4. GYPSUM BOARD CEILING, SEE ARCH. DRAWINGS.
5. SQUARE TO ROUND GALVANIZED SHEET METAL TRANSITION.
6. MOLDED WHITE PLASTIC GRILLE FURNISHED WITH EXHAUST FAN.
7. GRILLE BUTTON FURNISHED WITH FAN.
8. ADJUSTABLE MOUNTING FLANGE ON EACH SIDE. FURNISHED WITH EXHAUST FAN.
9. 1/4"Ø X 1-1/2" LAG SCREW INTO WOOD FRAMING OR BLOCKING.
10. CEILING MOUNTED EXHAUST FAN.
11. #7 X 1/2"Ø SHEET METAL SCREWS MIN. 4" O.C., TAPE WITH 2" HARDCAST TAPE
12. INTEGRAL BACKDRAFT DAMPER.



12 EXHAUST FAN CEILING MOUNTING DETAIL1
NOT TO SCALE

DETAIL NOTES:
1. ACOUSTIC LINED GALV. SHT. METAL SUPPLY AIR PLENUM.
2. RETURN AIR DUCT DROP, SEE MECH. PLAN FOR SIZE.
3. OUTSIDE AIR DUCT WITH BACKDRAFT DAMPER, SEE MECH. PLAN FOR SIZE.
4. FLOOR, SEE ARCH. DRAWINGS.
5. 3/8" X 2" BOLT W/NUT, LOCK WASHER & 1/4" NEOPRENE PAD AT EACH CLIP.
6. 6" CONCRETE PAD, SEE STRUCTURAL DETAIL 1/S-1.1.
7. 2-1/2" X 2-1/2" X 1/4" ANGLE CLIP (4) REQUIRED LOCATE TO AVOID ACCESS PANEL.
8. 3/8" DIAM. HILTI KB-TZ2 W/ 2-1/2" NOMINAL EMBEDMENT FOR ICC ESR 4266 (TORQUE TEST = 30 FT-LBS).
9. SLIDE-IN FILTER RACK ASSEMBLY, SEE HEAT PUMP SCHEDULE FOR SIZE & TYPE.
10. UPFLOW HEATPUMP, SEE MECHANICAL PLAN AND SCHEDULE.
11. REFRIGERATION LINES, SEE MECHANICAL PLAN FOR ROUTING TO OUTDOOR CONDENSING UNIT.
12. INSULATED SUPPLY AIR DUCT, SEE MECHANICAL PLAN FOR SIZE.

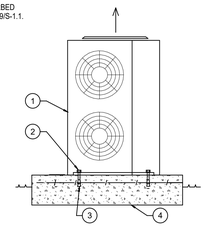
NOTE:
COORDINATE CLEARANCES AND ACTUAL CLOSET DIMENSIONS WITH GENERAL CONTRACTOR PER THE C.M.C. AND MANUFACTURER'S REQUIREMENTS.



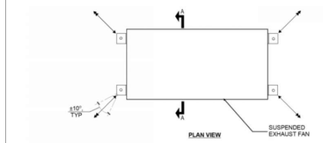
16 FLOOR MOUNT VERTICAL FAN COIL UNIT DETAIL
NOT TO SCALE

NOTES:
1. HEAT PUMP UNIT. SEE HEAT PUMP UNIT SCHEDULE SHEET M5.01. 1350 MAX. WEIGHT.
2. SEE STRUCTURAL DETAIL 9/S-1.1 FOR ANCHORAGE INFORMATION.
3. EXPANSION BOLT, (TYP.) SEE STRUCTURAL DETAIL 9/S-1.1 FOR ATTACHMENT (TYP.)
4. CONCRETE PAD POURED ON UNDISTURBED OR PACKED SOIL, SEE STRUCT. DETAIL 9/S-1.1.

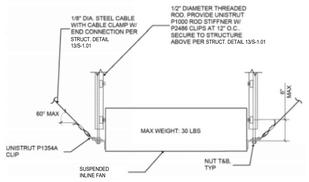
NOTE:
MAINTAIN CLEARANCES REQUIRED BY ANUFACTURER.



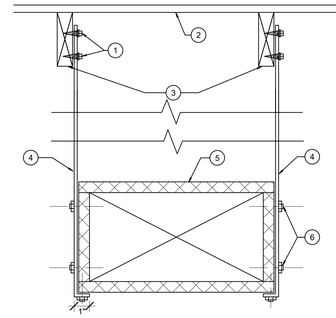
20 CU/HP UNIT MOUNTING DETAIL
NOT TO SCALE







19 INLINE FAN HANGING DETAIL
NOT TO SCALE



NOTES:
1. #10 X 1-1/4" CADIUM PLATED SCREWS. (TYPICAL).
2. ROOF OR FLOOR SLAB, SEE ARCH. & STRUCT. DWGS.
3. 2X WOOD FRAMING MEMBER, SEE STRUCTURAL DRAWINGS.
4. 1 X 18 GA. GALV. SHEET METAL STRAP @ 8'-0" O.C.
5. ACOUSTIC LINED GALVANIZED SHEET METAL DUCT - SEE MECHANICAL PLAN FOR SIZE.
6. #10 X 3/4" SELF TAPPING CADMIUM PLATED SHEET METAL SCREWS TO ANCHOR STRAPS TO DUCT. ALL STRAPS TO BE TIGHT AGAINST DUCT AND SUPPORT MEMBERS. (TYPICAL)

NOTE:
SEE STRUCT. DETAILS FOR ATTACHMENT TO STRUCTURE.

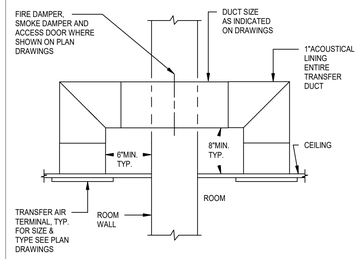
14 GRAVITY DUCT STRAP HANGER DETAIL1
NOT TO SCALE



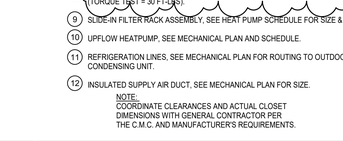
DETAIL NOTES:
1. 2x FRAMING, SEE STRUCT. DRAWINGS OR NEW 4x6 BLOCKING WITH U46 EACH END.
2. 1"x18 GA. GALV. S.M. STRAP, ATTACH TO STRUCTURE WITH (2) #10x1-1/4" CADMIUM PLATED SCREWS.
3. 1/4"Ø THRU BOLT WITH LOCKWASHER AND NUT.
4. ROUND DUCTWORK, SEE PLAN FOR SIZE.

NOTES:
A. DUCT SUPPORTS SHALL BE 10'-0" O.C.
B. ALL DUCTS ARE LESS THAN 28"Ø, NO LATERAL BRACING REQUIRED.
C. SEE STRUCTURAL DETAILS FOR ATTACHMENT TO STRUCTURE.

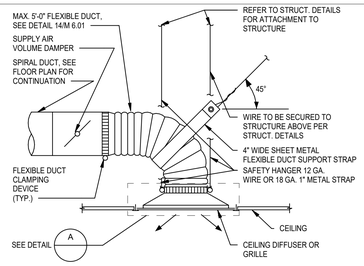
6 GRAVITY ROUND DUCT SUPPORT DETAIL1
NOT TO SCALE



5 TRANSFER DUCT DETAIL1
NOT TO SCALE

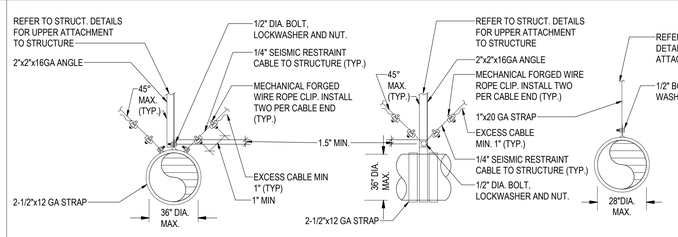


DETAIL A



NOTES:
1. REFER TO DETAIL 14/M6.01 FOR FLEXIBLE DUCTWORK DETAIL.
2. LOCATE VOLUME DAMPER AS FAR AWAY FROM DIFFUSER OR GRILLE AS POSSIBLE.

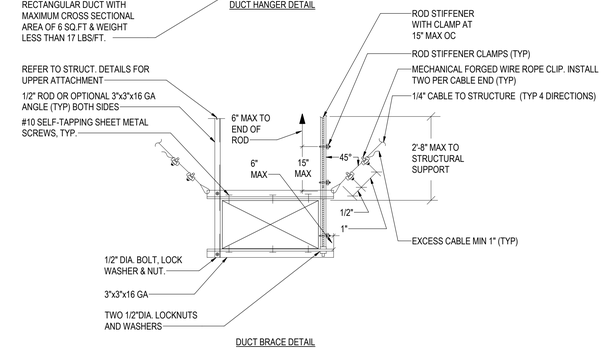
10 LAY-IN DIFFUSER CONNECTION DETAIL
NOT TO SCALE



DUCT BRACE DETAIL

NOTES:
1. HANGERS SHALL BE INSTALLED AT EVERY CHANGE OF DIRECTION AND NO MORE THAN 8'-0" APART.
2. PROVIDE SEISMIC CABLE TRANSVERSE BRACING AT 30 FT AND SEISMIC CABLE LONGITUDINAL BRACING AT 60 FT.
3. REFER TO CBC 1617A.1.25 EXEMPTION #2 AND DSA IR 16-13 APPENDIX B-3.0 FOR BRACING EXEMPTION REQUIREMENTS, IF APPLIES.

4 ROUND DUCT SUPPORT1
NOT TO SCALE



NOTES:
1. MAXIMUM SPACING OF HANGERS SHALL BE 5'-0".
2. PROVIDE TRANSVERSE BRACING AT 30 FT AND LONGITUDINAL BRACING AT 60 FT, WHERE BRACING IS REQUIRED.
3. INSTALL ROD STIFFENER AS REQUIRED.
4. REFER TO CBC 1617A.1.25 EXEMPTION #2 AND DSA IR 16-13 APPENDIX B-3.0 FOR BRACING EXEMPTION REQUIREMENTS, IF APPLIES.

2 RECTANGULAR DUCT HANGER DETAIL1
NOT TO SCALE

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100% CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-121971 DSA FILE NO.: 30-43

AD MP
F4F3F2F1 F8F7F6F5 A-B C-D E5E4 E1 E2 E3 SDC

KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER REX DAVID WAND No.M36165 Exp.09-30-2026 MECHANICAL STATE OF CALIFORNIA

Architect
LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 11-14-2025
PROJECT NUMBER 250377

REVISIONS

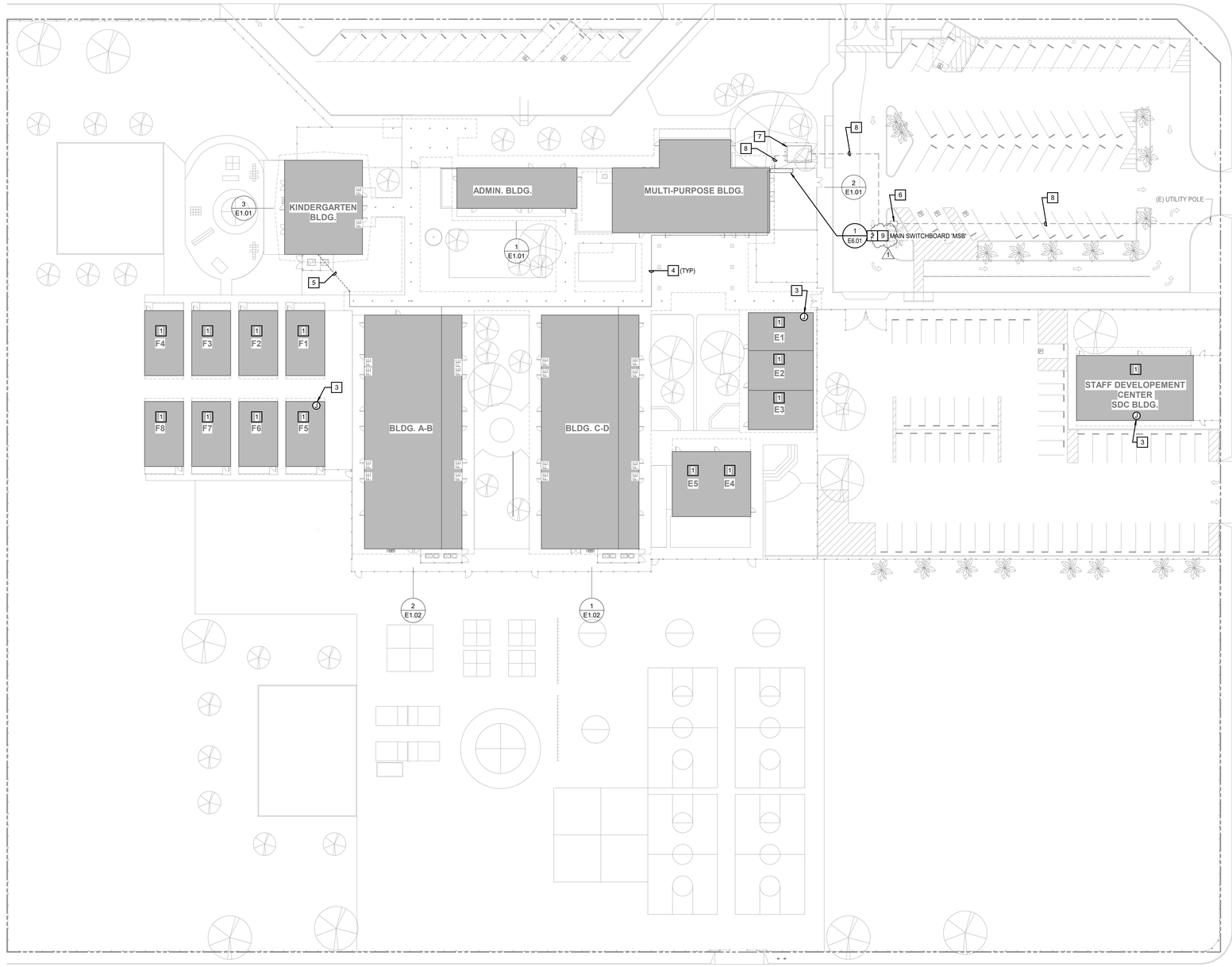
No.	Description	Date
2	Addendum 2	05/08/2026

100% CONSTRUCTION DOCUMENTS

MECHANICAL DETAILS

M6.02

0" 1"



GENERAL NOTES

1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

KEY NOTES

1. BUILDING NOT IN SCOPE, UNO.
2. EXTEND EXISTING FEEDER(S) FROM EXISTING POWER TO REPLACED EQUIPMENT SHOWN.
3. PROVIDE CONNECTION FOR FIRE ALARM POWER SUPPLY AND AMPLIFIER. CONNECT TO PANEL SERVING THIS PORTABLE/BUILDING. PROVIDE RED LOCK-ON CIRCUIT BREAKER.
4. FEEDERS SHALL BE RAN ALONG ROOF SURFACE FROM POWER SOURCE.
5. FEEDERS SHALL BE RAN ALONG ROOF SURFACE FROM POWER SOURCE, THEN DOWN, ROUTED UNDERGROUND TO EQUIPMENT INDICATED.
6. PROVIDE 3' x 5' PULLBOX, PER UTILITY REQUIREMENTS.
7. PROVIDE CONCRETE XFMR PAD AND VAULT, PER UTILITY REQUIREMENTS. COORDINATE SIZE AND LOCATION WITH UTILITY COMPANY PRIOR TO START OF WORK .

   TRANSFORMER CLEARANCE REQUIREMENTS SHALL BE AS FOLLOWS:
   - FRONT - 8'-0"
   - SIDES - 3'-0"
8. CONTRACTOR SHALL TRENCH AS REQUIRED AND PROVIDE PRIMARY AND SECONDARY CONDUITS, PER UTILITY REQUIREMENTS. BACKFILL AND PATCH EXISTING FINISHES.
9. EQUIPMENT TO BE OFCI (OWNER FURNISHED, CONTRACTOR INSTALLED).

1 ELECTRICAL SITE PLAN
1" = 30'-0"

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WILLMORE ES HVAC UPGRADE & MODERNIZATION

PROJECT ADDRESS:
7122 Maple St.
Westminster, CA 92683

100% DESIGN DEVELOPEMENT

DSA APPL NO.: 04-121616 DSA FILE NO.: 30-43

K | AD | MP
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KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER
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CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
09-30-2025	250377

REVISIONS

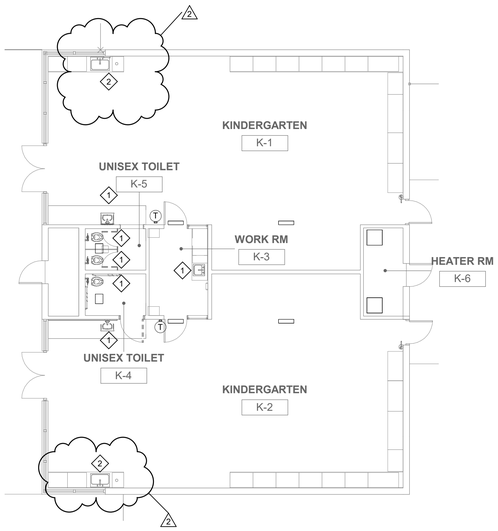
No.	Description	Date
1	ADDENDUM 1	04/27/2026
2	ADDENDUM 2	5-08-2026

100% DESIGN DEVELOPEMENT

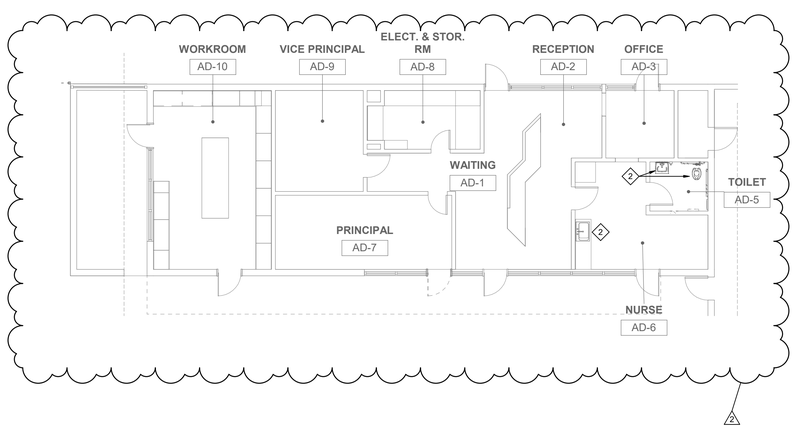
ELECTRICAL SITE PLAN

E0.01

0" 1"



3 KINDERGARTEN - DEMO FLOOR PLAN
1/8" = 1'-0"



1 ADMIN - DEMO FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL CONDENSATE DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
2. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILT/RECORD SET DRAWINGS.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO BIDDING PROJECT.
5. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
6. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES AND EQUIPMENT. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRIMS, TAILPIECES, STRAINERS, P-TRAPS, ARMS, HOT COLD WATER STOPS AND FAUCETS AS REQUIRED.

DEMOLITION KEY NOTES

1. REMOVE EXISTING PLUMBING FIXTURE, RELATED ROUGH-IN & PIPING. CAP EXISTING PIPING BELOW GRADE, IN WALL OR OVERHEAD.
2. (E) PLUMBING FIXTURE TO REMAIN.
3. REMOVE / REPLACE EXISTING PLUMBING FIXTURE, RELATED ROUGH-IN & PIPING. CAP EXISTING PIPING BELOW GRADE, IN WALL OR OVERHEAD. PREPARE FOR RECONNECTION UNDER RENOVATION PHASE.

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WILLMORE ELEMENTARY SCHOOL
HVAC UPGRADE & MODERNIZATION

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Westminster, CA 92683

CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-121616 DSA FILE NO.: 30-43

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KEY PLAN
NORTH: PLAN TRUE

Consultant

REGISTERED PROFESSIONAL ENGINEER REX DAVID YANG No.M36155 Exp.09-30-2026 MECHANICAL STATE OF CALIFORNIA

Architect

LICENSED ARCHITECT Yong Yoo No. C-31162 REN 10-31-2027 STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
11-14-2025	250377

REVISIONS

No.	Description	Date
2	ADDENDUM 2	05-08-2026

CONSTRUCTION DOCUMENTS

PLUMBING FLOOR PLAN - DEMOLITION

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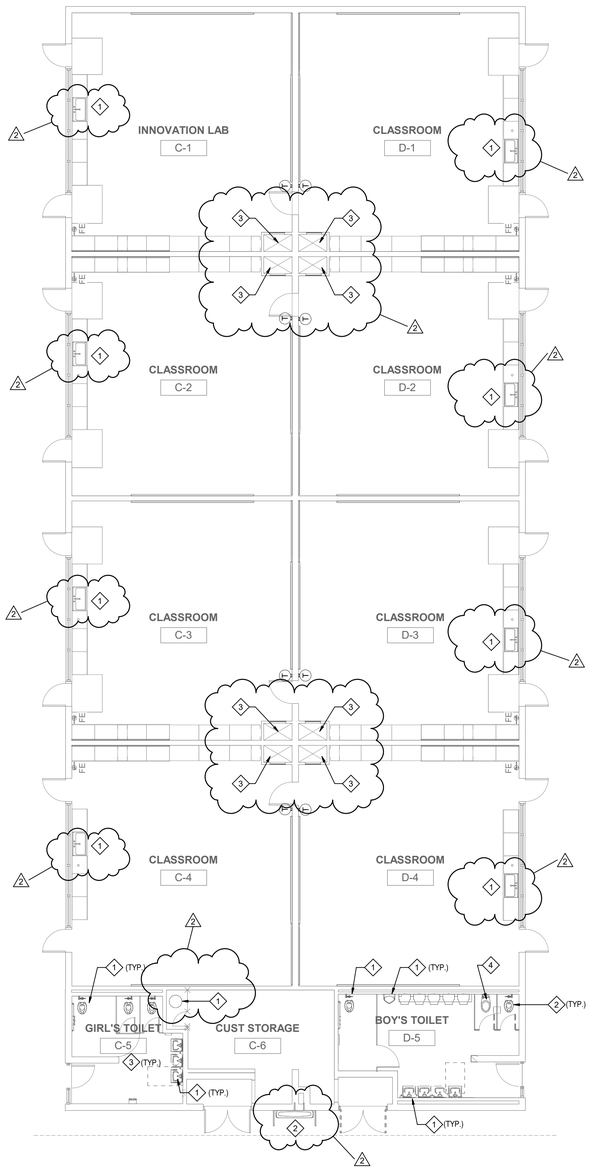
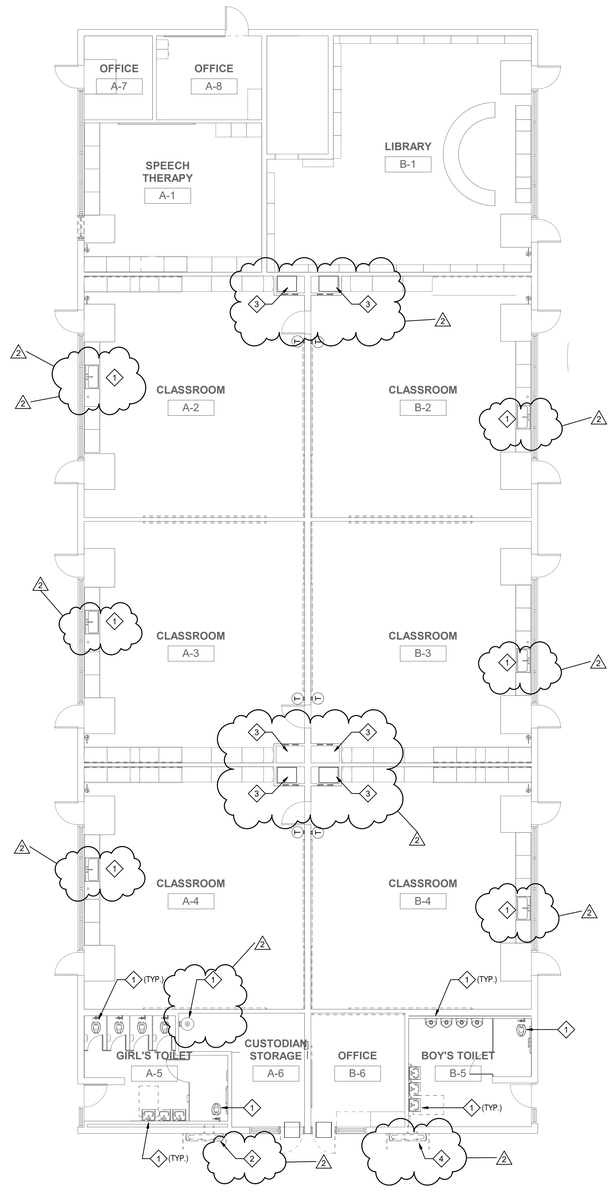
PD2.02 - PLUMBING FLOOR PLANS - DEMOLITION



2 FLOOR PLAN - BLDG C&D - DEMO FLOOR PLAN
1/8" = 1'-0"



1 FLOOR PLAN - BLDG A&B - DEMO FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL GRADE NOTE DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
2. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILT/RECORD SET DRAWINGS.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO BIDDING PROJECT.
5. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
6. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES AND EQUIPMENT. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRIMS, TAILPIECES, STRAINERS, P-TRAPS, ARMS, HOT COLD WATER STOPS AND FAUCETS AS REQUIRED.

DEMOLITION KEY NOTES

1. (E) PLUMBING FIXTURE TO REMAIN.
2. REMOVE / REPLACE EXISTING PLUMBING FIXTURE, RELATED ROUGH-IN & PIPING. CAP EXISTING PIPING TEMPORARILY, IN WALL OR OVERHEAD. PREPARE FOR RE-CONNECTION.
3. EXISTING A/C UNIT TO BE REMOVED. CAP EXISTING GAS ABV. IN CEILING SPACE. REMOVE EXISTING CONDENSATE.
4. REMOVE EXISTING PLUMBING FIXTURE, RELATED ROUGH-IN & PIPING. CAP EXISTING PIPING BELOW GRADE, IN WALL OR OVERHEAD. PATCH AND SEAL AS REQUIRED.

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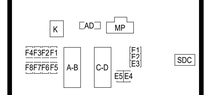
DSA APPL NO.: 04-121816 DSA FILE NO.: 30-43

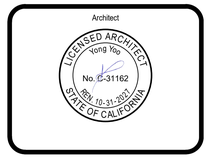


KEY PLAN
NORTH: PLAN TRUE

Consultant



Architect



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DATE	PROJECT NUMBER
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2	ADDENDUM 2	05-08-2026

CONSTRUCTION DOCUMENTS

PLUMBING FLOOR PLANS - DEMOLITION

PD2.02

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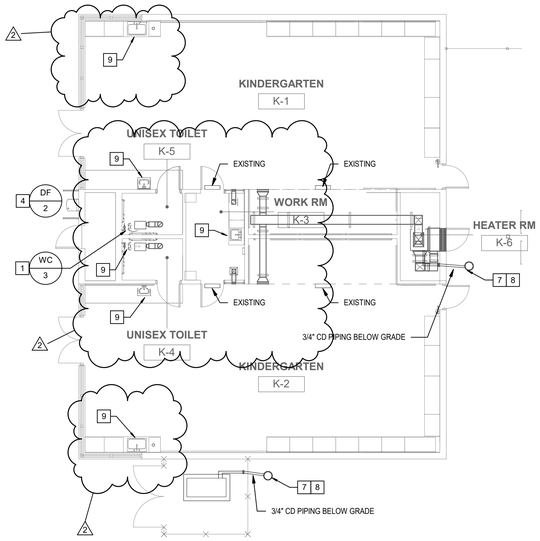

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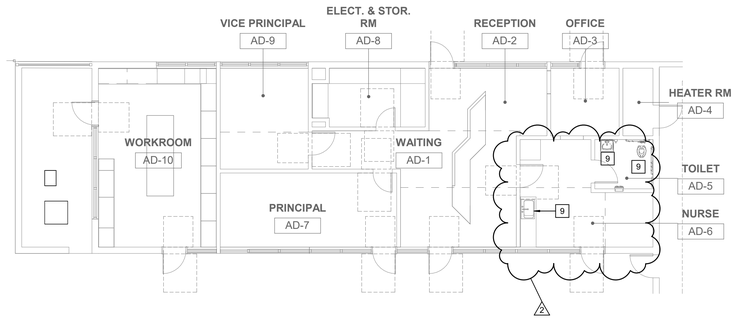
3 KINDERGARTEN - FLOOR PLAN

1/8" = 1'-0"



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1 ADMIN - FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

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KEY NOTES

1. WATER CLOSET TO BE INSTALLED. PLUMBING CONTRACTOR TO SUPPLY & INSTALL VACUUM BREAKER INTEGRAL SHUT OFF, SUPPLY. PROVIDE 2" SANITARY SEWER , 2" VENT AND 1-1/2" CW.
2. LAVATORY AND FAUCET. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, LAVATORY SUPPLY, COMPLETE WITH LOOSE KEY, CHROME ESCUTCHEON PLATE COMPRESSION INLET, HEAVY DUTY OUTLET RISER, PROVIDE 1/2" CW / HW, ACCORDING TO THE REQUIREMENT TO THE ROOM.
3. SINK AND FAUCET TO BE INSTALLED ADA COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY. INSTALLED AT REFER TO ARCHITECTURAL PLANS.
4. DRINKING FOUNTAIN TO BE REPLACED AND RECONNECTED IN PLACE. PROVIDE 3/4" CW. INSTALLED AT ACCESSIBLE HEIGHT ; REFER TO ARCHITECTURAL PLANS FOR DETAILS. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ROUGH-IN, ANGLE STOP, SUPPLY LINE. INSTALLED AT REFER TO ARCHITECTURAL PLANS. REFER TO DETAIL 13/G0.06.
5. NOT USED
6. 3/4" CONDENSATE LINE DOWN IN WALL TO LAV TAILPIECE. SEE DETAIL 10/P601
7. PROVIDE 3/4" CONDENSATE DRAIN FROM CONDENSER UNIT. PROVIDE SECONDARY SHEET METAL PAN BENEATH CONDENSER ON PAD. ROUTE PRIMARY AND SECONDARY DRAIN LINES TO DRYWELL 11/P601
8. DRYWELL BELOW GRADE , ROUTE 3/4" CONDENSATE DRAIN TO DRYWELL 11/P601
9. EXISTING TO REMAIN

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KEY PLAN
NORTH: PLAN TRUE

Consultant

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REF. DAVID WANG
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STATE OF CALIFORNIA

CLIENT
WESTMINSTER SCHOOL DISTRICT

DATE	PROJECT NUMBER
11-14-2025	250377

REVISIONS

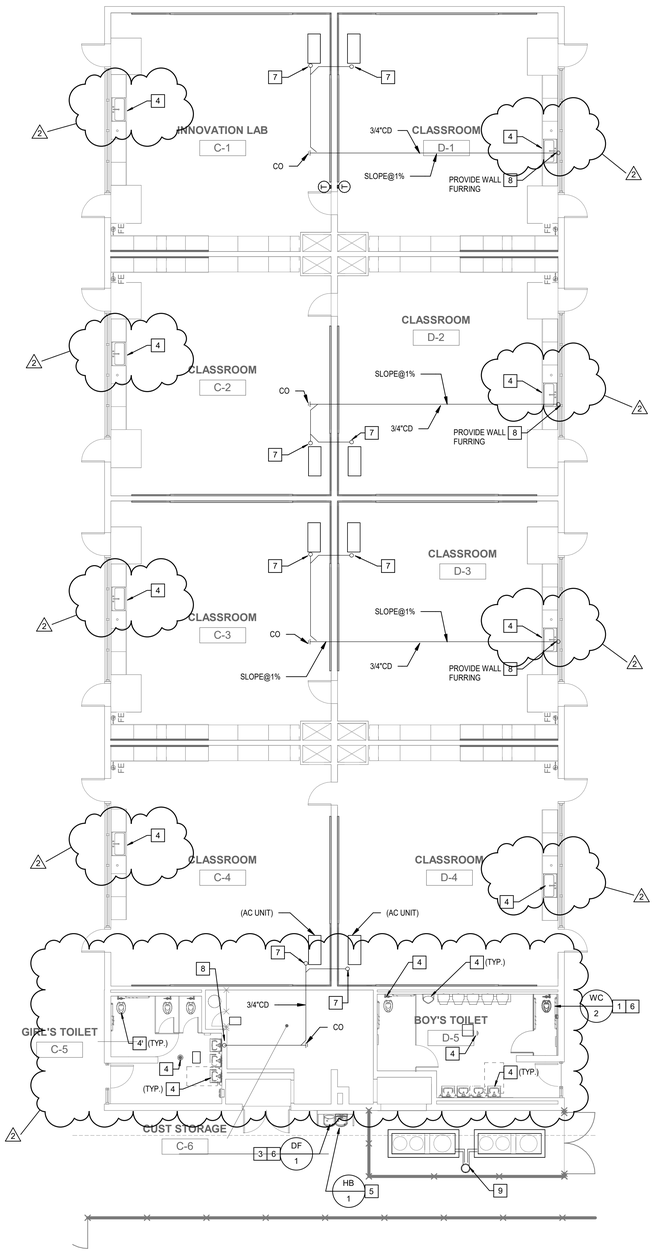
No.	Description	Date
2	ADDENDUM 2	05-08-2026

CONSTRUCTION DOCUMENTS

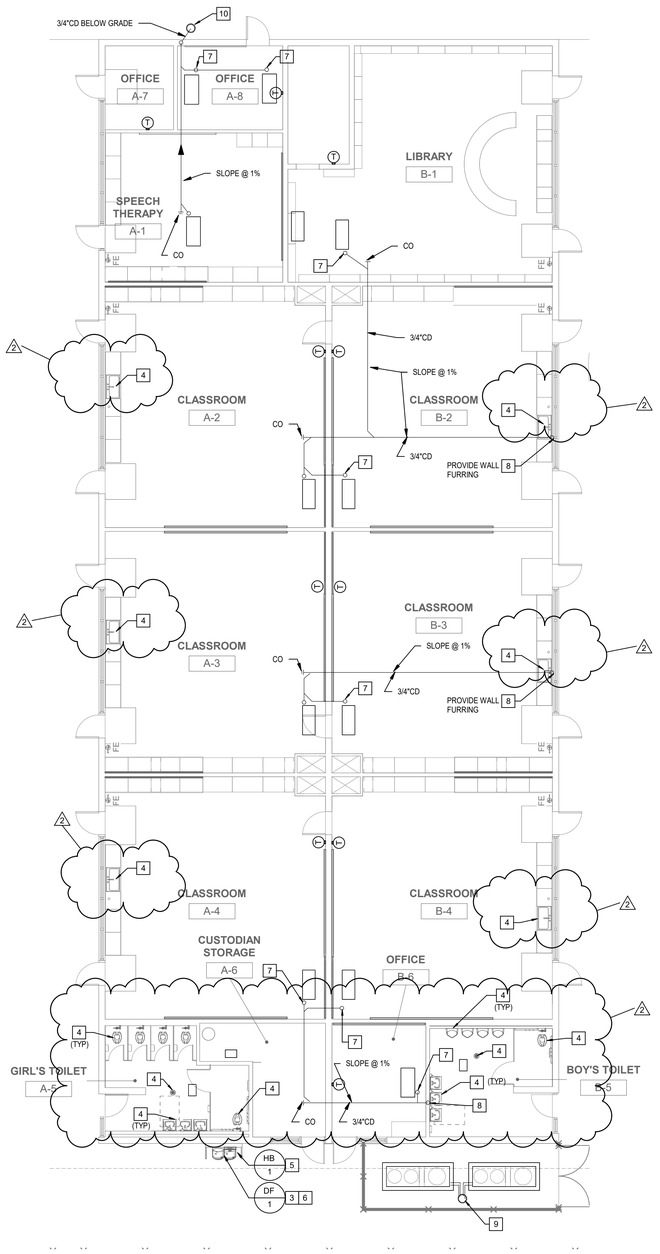
PLUMBING FLOOR PLANS

P2.01

0" 1"



2 FLOOR PLAN - BLDG C&D
1/8" = 1'-0"



1 FLOOR PLAN - BLDG A&B
1/8" = 1'-0"

GENERAL NOTES

1. ALL CONDENSATE DRAIN PIPING ABOVE CEILING SHALL SLOPE AT 1% UNLESS OTHERWISE NOTED.
2. FOR CONTINUATION OF ALL UTILITIES SEE BUILDING AS-BUILT/RECORD SET DRAWINGS.
3. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO BIDDING PROJECT.
5. WHERE PLANS INDICATE NEW FIXTURES OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL MODIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-INS AS REQUIRED TO SUIT THE NEW FIXTURE.
6. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES AND EQUIPMENT. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRIMS, TAILPIECES, STRAINERS, P-TRAPS, ARMS, HOT COLD WATER STOPS AND FAUCETS AS REQUIRED.

KEY NOTES

1. WATER CLOSET TO BE INSTALLED. PLUMBING CONTRACTOR TO SUPPLY & INSTALL VACUUM BREAKER INTEGRAL SHUT OFF, SUPPLY, PROVIDE 4" SANITARY SEWER, 2" VENT AND 1 1/2" CW. ACCORDING TO THE REQUIREMENT OF THE ROOM.
2. LAVATORY AND FAUCET TO BE INSTALLED ADA COMPLIANT. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ANGLE STOP, SINK SUPPLY, COMPLETE WITH LOOSE KEY, PROVIDE 2" SANITARY SEWER , 1 1/2" VENT AND 3/4" CW. ACCORDING TO THE REQUIREMENT OF THE ROOM.
3. DRINKING FOUNTAIN TO BE REPLACED AND RECONNECTED IN PLACE. PROVIDE 3/4" CW. INSTALLED AT ACCESSIBLE HEIGHT , REFER TO ARCHITECTURAL PLANS FOR DETAILS. PLUMBING CONTRACTOR TO SUPPLY & INSTALL NEW ROUGH-IN, ANGLE STOP, SUPPLY LINE.
4. EXISTING TO REMAIN
5. HOSE BIBB TO BE INSTALLED BELOW DRINKING FOUNTAIN. PLUMBING CONTRACTOR TO SUPPLY & INSTALL VACUUM BREAKER INTEGRAL SHUT OFF, SUPPLY. PROVIDE 3/4" CW. EXTEND AND CONNECT LINE AS REQUIRED. INSTALLED AT REFER TO ARCHITECTURAL PLANS. REFER TO DETAIL 13/G0.06.
6. POINT OF DISCONNECTION AND RE-CONNECTION. CONTRACTOR TO EXTEND AND CONNECT LINE AS REQUIRED POC TO EXISTING SANITARY SEWER LINE
7. PROVIDE 3/4" CONDENSATE LINE FROM A/C UNIT. TRAP AND VENT AS REQUIRED
8. 3/4" CONDENSATE LINE DOWN IN WALL TO LAV TAILPIECE. SEE DETAIL 10/P601
9. PROVIDE 3/4" CONDENSATE DRAIN FROM CONDENSER UNIT. PROVIDE SECONDARY SHEET METAL PAN BENEATH CONDENSER ON PAD. ROUTE PRIMARY AND SECONDARY DRAIN LINES TO DRYWELL 11/P601
10. DRYWELL BELOW GRADE ; ROUTE 3/4" CONDENSATE DRAIN TO DRYWELL 11/P601

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WILLMORE ELEMENTARY SCHOOL
HVAC UPGRADE & MODERNIZATION

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CONSTRUCTION DOCUMENTS

DSA APPL NO.: 04-121616 DSA FILE NO.: 30-43

K AD MP
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KEY PLAN
NORTH: PLAN TRUE

Consultant
REGISTERED PROFESSIONAL ENGINEER REF. DAVID WANG No.M38155 Exp.09-30-2026 MECHANICAL STATE OF CALIFORNIA

Architect
LICENSED ARCHITECT Yong Yoo No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

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PLUMBING FLOOR PLANS

P2.02

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FIXTURE SCHEDULE

	FIXTURE	MIN. ROUGH-IN SIZES				FLOW RATE	REMARKS
		CW	HW	S OR W	V		
WC 1	WATER CLOSET STAFF (ACCESSIBLE)	1½"	-	4"	2"	1.28 GPF	AMERICAN STANDARD MODEL 2599.001 MADERA FLOWISE 14" FLOOR MOUNTED WATER CLOSET, VITREOUS CHINA, ELONGATED BOWL WITH 1½" TOP SPUD INLET. COMPLETE WITH SLOAN ROYAL MODEL 111-1.28 HET EXPOSED, MANUAL OPERATED FLUSHOMETER @ 1.28 GPF AND OLSONITE HEAVY-DUTY SEAT MODEL 95SSCT. (AGE 9-12)
WC 2	WATER CLOSET STAFF	1½"	-	4"	2"	1.28 GPF	AMERICAN STANDARD MODEL 3461.001 MADERA FLOWISE 16-1/2" FLOOR MOUNTED WATER CLOSET, VITREOUS CHINA, ELONGATED BOWL WITH 1½" TOP SPUD INLET. COMPLETE WITH SLOAN ROYAL MODEL 111-1.28 HET EXPOSED, MANUAL OPERATED FLUSHOMETER @ 1.28 GPF AND OLSONITE HEAVY-DUTY SEAT MODEL 95SSCT AT ACCESSIBLE HEIGHT .
WC 3	WATER CLOSET BOYS / GIRLS (KINDER 5-8)	1½"	-	4"	2"	1.28 GPF	AMERICAN STANDARD # 2282.001 BABY DEVORO FLOWISE FLUSHOMETER VITREOUS CHINA TOILET . HIGH EFFICIENCY LOW CONSUMPTION, ELONGATED BOWL 10-1/4 HEIGHT COMPLETEWITH CHURCH TOILET SEAT LESS COVER WITH AMERICAN STANDARD # 6047.121.002 MANUAL FLUSH VALVE AT 1.28 GPF.
DF 1	DRINKING FOUNTAIN (WALL MTD. W/ BOTTLE FILLER)	3/4"	-	2"	1¼"	0.45 GPM	ELKAY MODEL EZSTL8WSSK / FILTERED HIGH LOW COOLER WALL MOUNTED W/ TOUCHLESS BOTTLE FILLER EZH20 W / SOILENOID VALVE , CONTROLLED BY TRANSFORMER 115 / 60 HZ / 4.2 FLA 14 GAUGE STAINLESS STEEL W/ INTEGRAL 1/4" STAINLESS STEEL MOUNTING PLATE, ADA APPROVED, COMPLETE WITH VANDAL PROOF BOTTOM CHICAGO NO. 45LKABCP. ANGLE STOP W 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCEIBLE HEIGHT.
DF 2	DRINKING FOUNTAIN (WALL MTD. W/ BOTTLE FILLER)	3/4"	-	2"	1½"	0.45 GPM	ELKAY MODEL LZS8WSLP / FILTERED SINGLE LZ COOLER WALL MOUNTED W/ TOUCHLESS BOTTLE FILLER EZH20 W / SOILENOID VALVE , CONTROLLED BY TRANSFORMER 115 / 60 HZ / 4.2 FLA 14 GAUGE STAINLESS STEEL W/ INTEGRAL 1/4" STAINLESS STEEL MOUNTING PLATE, ADA APPROVED, COMPLETE WITH VANDAL PROOF BOTTOM CHICAGO NO. 45LKABCP. ANGLE STOP W 1/2" FEMALE INLET & OUTLET. MOUNT AT ADA ACCEIBLE HEIGHT.
HB 1	HOSE BIBB (RECESSED)	3/4"	-	-	-	7.5 GPM	JAY R. SMITH MODEL 5518-R, WALL MOUNTED HOSE BOX IN STAINLESS STEEL RECESSED BOX WITH INTEGRAL VACUUM BREAKER, DUAL CHECK VALVE AND LOCKING COVER. REFER TO DETAIL 2/P6.3.
WHA 1	WATER HAMMER ARRESTOR	SEE PLANS	-	-	-	-	WATTS "SS" SERIES, STAINLESS STEEL BELLOWS OPERATED TYPE WATER HAMMER ARRESTORS. INSTALLATION AND SIZING SHALL CONFORM TO PDI WH-201 STANDARD. PROVIDE BEHIND ACCESS PANELS WHERE REQUIRED.
WCO 1	WALL CLEANOUT	-	-	SEE PLANS	-	-	WATTS MODEL CO-590-RD THREADED BRASS CLEANOUT PLUG WITH COUNTERSUNK HEAD, STAINLESS STEEL ACCESS COVER AND VANDAL PROOF STAINLESS STEEL SCREW. WATTS MODEL CO-460-RD FOR STACK CLEANOUT APPLICATIONS. REFER TO DETAIL 5/P6.3.

NOTES:

A. ALL FIXTURES SHALL BE PROVIDED WITH MINIMUM ROUGH-IN CONNECTIONS AS INDICATED IN THIS SCHEDULE OR PER MANUFACTURERS RECOMMENDATIONS. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS AND FAUCETS AS REQUIRED.

B. OPENINGS IN GRATINGS OR STRAINERS LOCATED IN PEDESTRIAN WAYS OR IN PATH OF TRAVEL (P.O.T.) SHALL NOT ALLOW PASSAGES OF A SPHERE MORE THAN 1/2" DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH SECTION 11B-302.3.

C. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS.

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PLUMBING SCHEDULES

P5.01

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