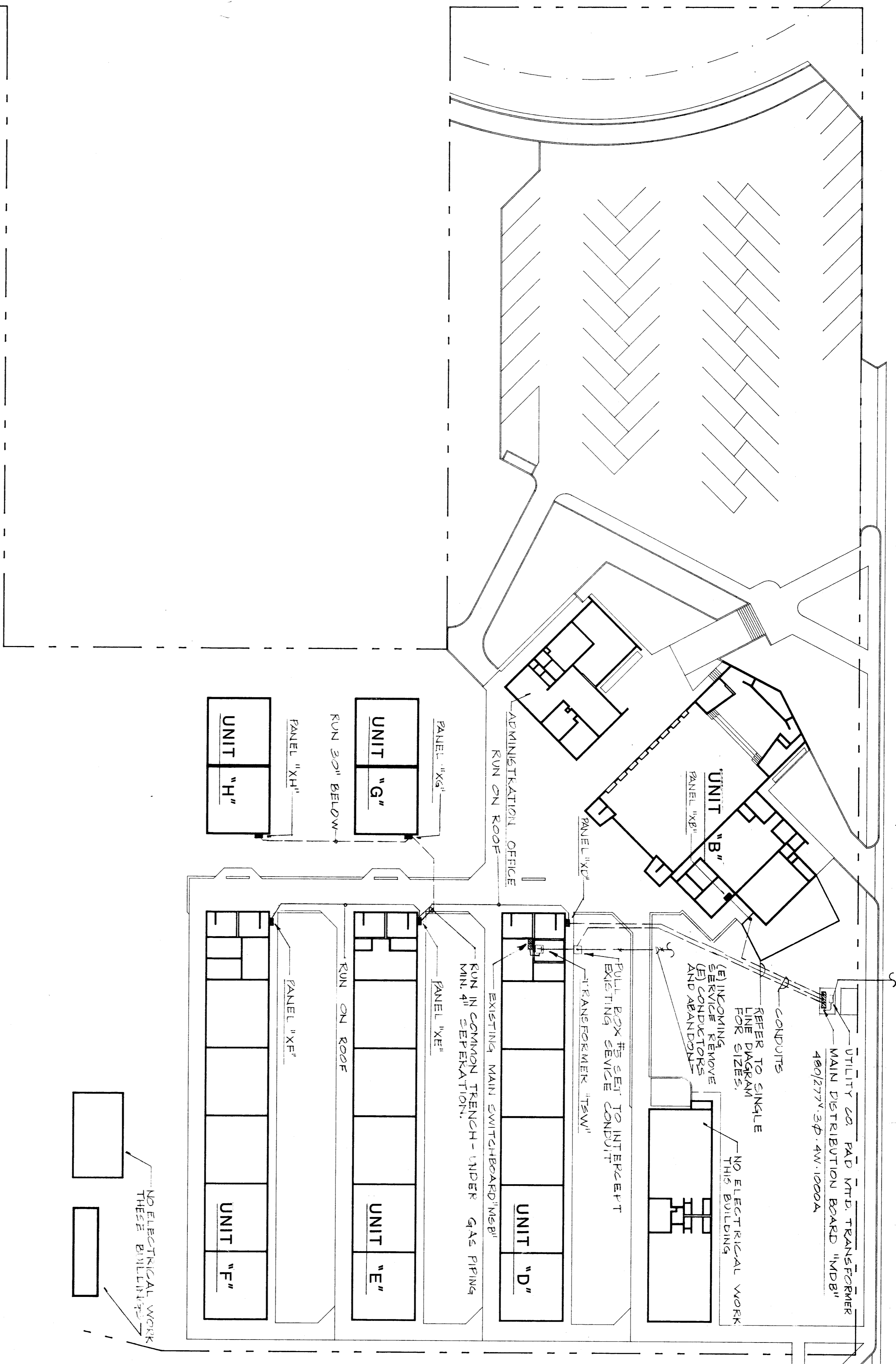
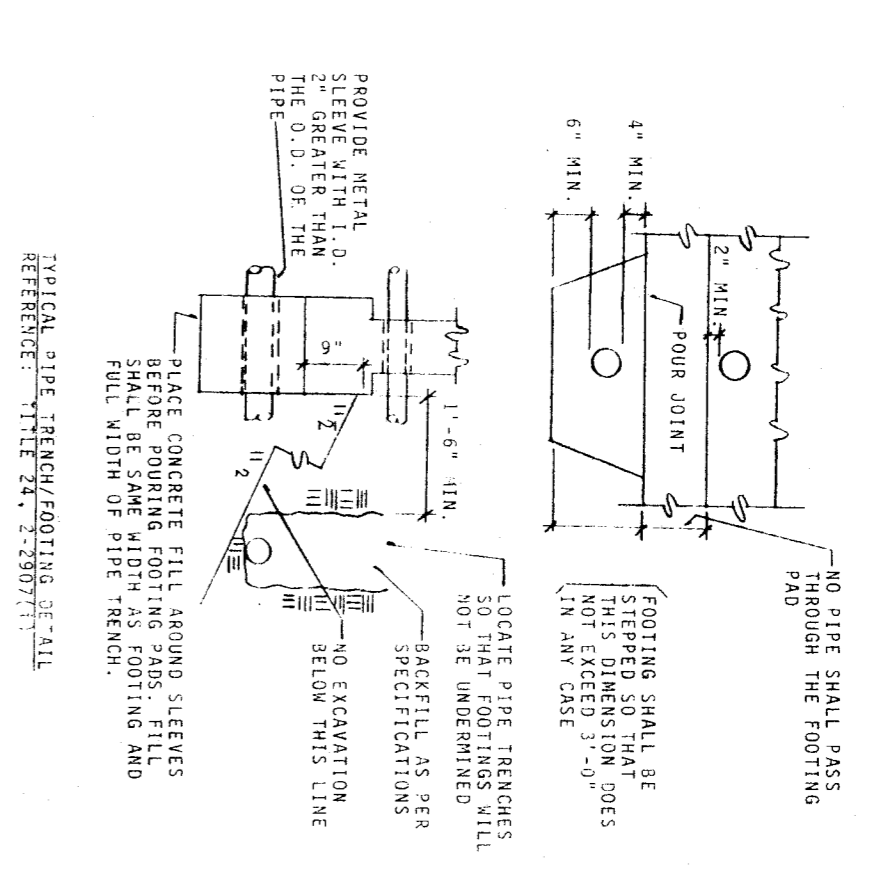


# ELECTRICAL SITE PLAN

SCALE: 1" = 30'-0"



SYMBOL SCHEDULE	
SYMBOL NAME	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET
	MOTOR WITH DISCONNECT SWITCH
	FLEXIBLE CONDUIT
	J-BOX
	J-BOX
	REFERENCE NOTES
	FEEDER NOTES
	Denotes Existing Item



**GENERAL REQUIREMENTS:** All of the work under this section of the specifications is subject to the general, supplementary and special conditions contained in Division 26 of the specifications preceding this section and this contract. Drawings indicate the general arrangement of the electrical layout and work included. Contractor shall follow drawings in laying out and installing other trades to verify location and spaces in which work will be installed.

**SCOPE:** This portion of the work includes the furnishing of all labor and materials necessary for the complete wiring systems for all equipment shown on the drawings and the installation of the same. In general, the work included is as follows:

1. Utility services and facilities as detailed on the plans including the removal of the existing installation changes.
2. Power service and distribution systems as shown complete with switchboards, panelboards, feeders and motor control centers.
3. All excavating, backfill and concrete pads and bases as required for electrical work.
4. All disconnection and removal of existing electrical facilities not to be reused.
5. Include payment of all required franchise, electrical permits, fees, taxes and all charges by utilities for installation of services unless specifically shown "by others".

**SITE VISITATIONS:** The Contractor shall carefully examine the site and existing buildings, shall compare the drawings with all existing conditions within the scope of this work. By the act of submitting a bid, the Contractor shall be deemed to have accepted the conditions as shown on the drawings and to have made allowance therefore in preparing his figures.

**RULES AND REGULATIONS:** All work and materials shall be in full accordance with the latest rules and regulations of:

1. National Electric Code.
2. Uniform Building, Mechanical and Plumbing Codes.
3. State and local Fire Marshalls rules.

Before the final certificate of payment will be issued, the Contractor shall submit to the Architect all certificates, permits, record drawings, instruction and parts manuals.

**NOTING:** In these plans and specifications is to be construed to permit work not conforming to these codes.

**CUTTING, PATCHING AND MATCHING:** Unless otherwise provided by the drawings or specification no existing work shall be cut or altered without authorization from the Architect.

**INTERPRETATION OF DRAWINGS AND SPECIFICATIONS:** The Engineer's opinion will be final in all cases. The Contractor shall be responsible for the interpretation of the drawings and specifications. The Contractor shall be responsible for the interpretation of the drawings and specifications. The Contractor shall be responsible for the interpretation of the drawings and specifications.

**CLEANING OF EQUIPMENT, MATERIALS AND PREMISES:** All partitions of the equipment shall be thoroughly cleaned of dirt, rust, cement, plaster, etc., and shall be ready for use. Surfaces to be painted shall be in proper condition to receive paint finish.

**APPROPRIATE RESTRAINT:** All electrical equipment shall have a means to prohibit excessive vibration during operation. All electrical equipment shall be designed to resist lateral seismic forces as shown below.

**WARRANTY:** This Contractor agrees to replace or repair to the satisfaction of the Owner, any part of the installation which may be defective or faulty for a period of one year after final acceptance. He shall further secure from the manufacturer and service manuals and active same to Owner.

**CONDUCTORS:** All conductors shall be PVC Schedule 40 with steel wires as allowed below finished grade. Provide 1/8 inch diameter conductors with 20 inches leave 18 inches free coiled end in all empty conduits with identification tags on both ends.

**CONDUITS:** All conductors shall be minimum of 98% conductivity soft drawn copper, minimum #12 AWG unless shown otherwise. Conductors #8 and larger shall be stranded, type THWN, 900 volt insulation. Conductors #10 and smaller shall be solid copper THWN.

**PANELBOARDS:** Furnish panelboards shown on plans and described herein. They shall be totally flat or equal, with flush keyed latches. Panelboards shall be of the totally interchangeable without disturbing adjacent circuits. They shall be of the totally interchangeable without disturbing adjacent circuits. They shall be of the totally interchangeable without disturbing adjacent circuits. They shall be of the totally interchangeable without disturbing adjacent circuits.

**CONCRETE PADS AND PILLARS:** At the contractor's option he shall provide cast in place or precast structures. Provide 8" concrete pads under all exterior switchboards, transformers, etc.

**SCHOOL EQUIPMENT ANCHORAGE**

ALL ELECTRICAL EQUIPMENT WEIGHING 400 POUNDS OR MORE - ANCHORAGE DETAILS AND DESIGN CALCULATIONS SHALL BE SUBMITTED AND SHALL BE BRACED OR ANCHORED TO THE FIRST HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA: THE FIXED EQUIPMENT ON GRADE 30% OF OPERATING WEIGHT 30% OF OPERATING WEIGHT EMERGENCY POWER EQUIPMENT ON STRUCTURE 40% OF OPERATING WEIGHT FOR FLEXIBLY MOUNTED EQUIPMENT - USE 1/3 X HORIZONTAL FORCE. SIMULTANEOUS VERTICAL FORCE - USE 1/3 X HORIZONTAL FORCE.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS FOR EQUIPMENT 400 POUNDS OR LESS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECTAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

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EMP 3, 51, -91

**FIRE MARSHALL**

O.S.A.

DATE

SHEET 1 OF 4

98

NO.

NO.

NO.

ELECTRICAL SITE PLAN - SPECIFICATIONS - SYMBOL SCHEDULE

( AIR CONDITIONING )

RUTH HARDING SCHOOL

BAKERSFIELD CITY SCHOOL DISTRICT

3201 PICO STREET, BAKERSFIELD, KERN COUNTY, CALIFORNIA

BAKERSFIELD CITY SCHOOL DISTRICT

BY RESOLUTION OF THE BOARD OF TRUSTEES

APPROVED:

DATE

Glenn Hartzell A.I.A.

26 'H' STREET, 93304

P.O. BOX 2344, 93303, BAKERSFIELD, CALIFORNIA

ARCHITECT C-10298

DATE

Glenn Hartzell A.I.A.

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