ELECTRICAL SPECIFICATIONS

SCOPE: Furnish all labor and new materials necessary for a complete and satisfactory operating electrical system for illumination, power and equipment in accordance with governing codes.

Wiring systems, disconnect switches and electrical connections to equipment covered by other sections of these specifications.

All hangers, anchors, sleeves, chases and supports and all electrical equipment and materials.

Extend existing fire alarm system.

All work and materials shall be in full accordance with the governing codes and rules including the National Electric Code, 1987 Edition. Nothing in these plans and specifications is to be construed to permit work not conforming to these Codes.

Submit six copies of equipment lists for power devices and any other special equipment. Contractor is to review and sign these indicating his review.

Include payment of all required insurances, electrical permits, fees and taxes.

Prepare record drawings of work installed.

LOCAL CONDITIONS AND PLANS: Before submitting a proposal the Contractor shall visit the site and fully inform himself of all existing conditions and limitations applying to the work. If after such examinations and study it appears that any change in the drawings and specifications should be allowed, the bidder shall so state in writing together with any change in cost involved.

GENERAL COORDINATION: The drawings indicate diagrammatically the desired location or arrangement of conduit runs, outlets, equipment, etc., and are to be followed as closely as possible. It shall be the contractor's responsibility to verify and coordinate the location of all outlets and raceways with other trades.

CUTTING, PATCHING, MATCHING:

This Contractor shall do all cutting necessary for the proper installation of his work and shall repair any damage done by himself or his workmen in kind and shall coordinate with that of other parties. Wherever possible, work shall be done in a concealed and neat workmanlike manner, necessitating the least amount of cutting of studs, plates and woodwork, and such cutting or notching is allowed only after consultation with and by permission of the Engineer.

EARTHQUAKE RESTRAINT: All electrical equipment and connections shall be designed to resist lateral seismic forces equal to 0.33 of equipment weight with allowable working code capacity increased by one-third, or 0.5 of the weight yield capacity.

MECHANICAL AND OTHER SPECIAL EQUIPMENT: Prior to commencing construction this Contractor shall arrange a conference with the Mechanical and Plumbing Contractors and sub-contractors as well as equipment suppliers and shall verify type, sizes, location, requirements, controls and diagrams of all equipment furnished by them. He shall, in writing, inform the Electrical Engineer that all phases of coordination of this equipment have been covered.

GUARANTEE: The Contractor agrees to replace any damage or defect in any part of the installation which may fail due to defective material and/or workmanship or failure to follow plans and specifications for a period of one year after final acceptance. He shall repair any damages to the electrical finishes.

RACEWAYS:

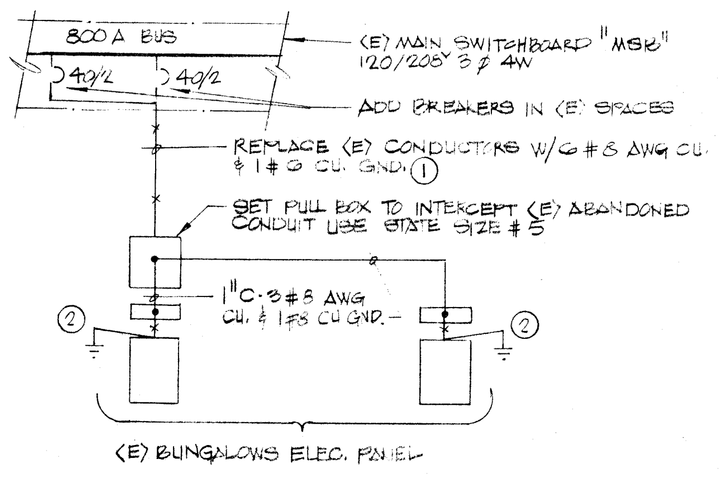
All conduit installed for general building wiring in hollow dry spaces of walls and ceiling shall be in EMT.

Flex may be used where fishing down existing walls is necessary and shall have a GWG. Sealtite flex not over 18" shall be used to feed mechanical units and shall be supported adequately.

CONDUCTORS: Furnish and install a copper THWN 600 volt conductor system for proper connection and operation of all equipment. Wire #10 and smaller shall be solid copper, see below. All conductors entering any panel or terminal box shall be identified by use of Brady Labels. Wiring shall be color coded.

DISCONNECT SWITCHES: Shall be NEMA 3R, properly supported with proper size "FRN" fuses.

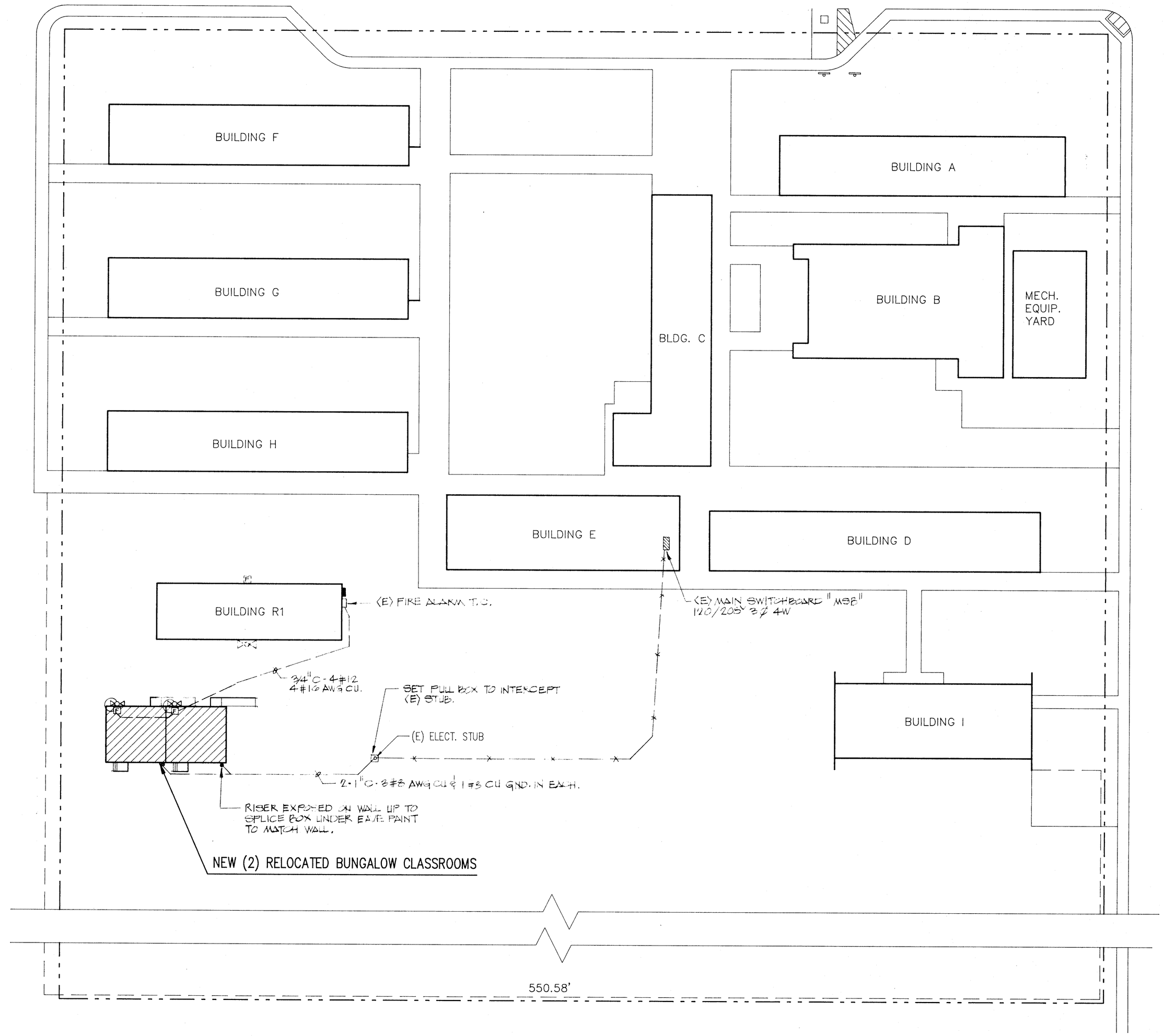
PANELBOARDS: Shall be in accordance with plans in locations shown with door and lock. All branch circuit conductors shall be neatly served with Ty-Rap's and permanently tagged. They shall have typed panel schedules mounted behind plastic on doors. All existing panel schedules to be verified and updated including all new loads.



SINGLE LINE DIAGRAM

NOT TO SCALE

1 / E-3



ELECTRICAL SITE PLAN

SCALE : 1" = 30'-0"

GROUNDING NOTES:

1. ALL GROUNDING PER C.C.R. TITLE 24
2. GROUND BOND BUILDING AND ALL METALLIC PIPES, GAS, WATER, ETC.
3. TEST GROUND AND CERTIFY IN WRITING, 25 OHMS OR LESS, GROUND READINGS. ADD GROUND RODS AS REQUIRED TO OBTAIN GROUND READING REQUIREMENT.

"The power source has been investigated and is adequate for the load"

By _____
James W. Graham EE5101

SIERRA JR. HIGH SCHOOL 3017 CENTER STREET

FIRE MARSHAL

A.C.S.

O.S.A.

Glenn Hartzell A.I.A.
26 'H' STREET, 93303, BAKERSFIELD, CALIFORNIA (805) 324-6416
P.O. BOX 2344, 93303, BAKERSFIELD, CALIFORNIA
ARCHITECT C-10298 DATE 6-11-90

INTERSTATE ENGINEERING, INC.
Electrical Engineer 5101
5151 E. Shields Ave.
Fresno, CA 93701
(209) 486-1151

BAKERSFIELD CITY SCHOOL DISTRICT
BY RESOLUTION OF THE BOARD OF TRUSTEES
APPROVED: _____ DATE _____

SIERRA JR. HIGH SCHOOL ~ SPECS. ~ SINGLE LINE DIAGRAM

(RELOCATE BUNGALOW CLASSROOMS)
BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD, KERN COUNTY, CALIFORNIA

DATE 6-11-90
DRAWN

JOB NO. 122

SHEET NO. E-3

SHEET 3 OF 3