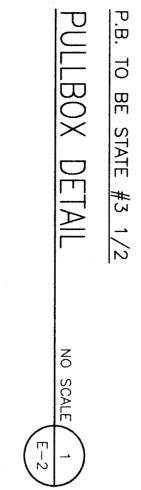
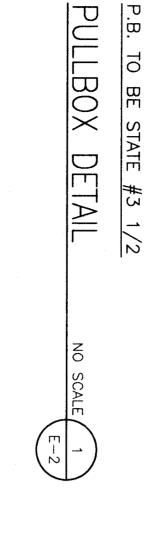
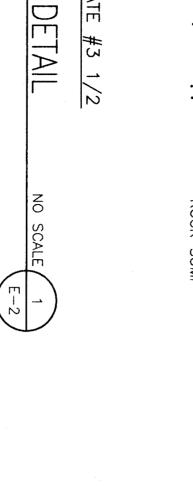
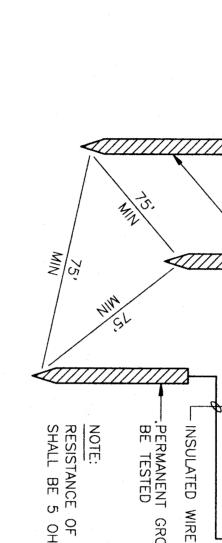
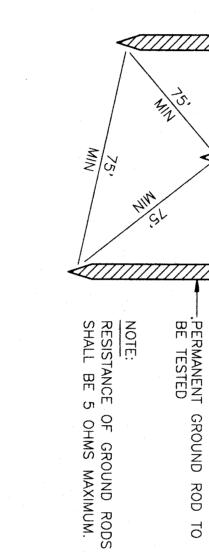
7 STATE #3 1/2

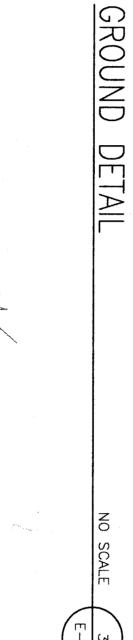


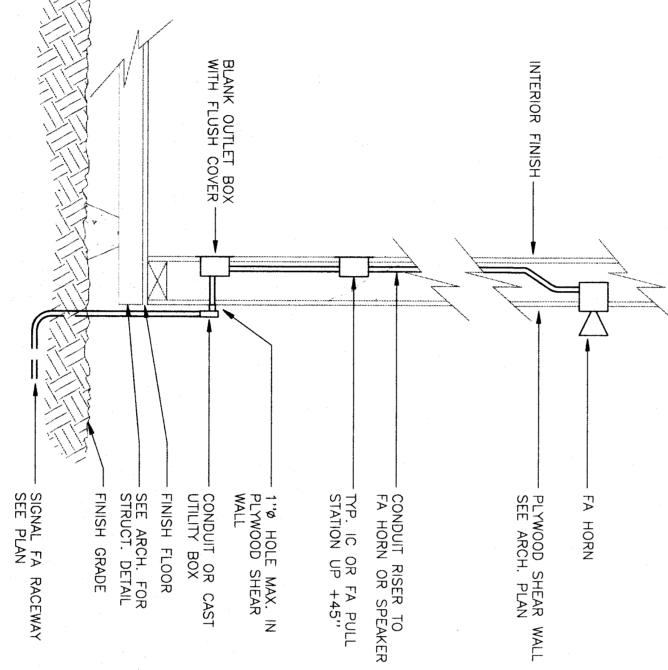












METAL BUILDING FRAME

- 1/2"x8'-0" LONG
COPPERCLAD GROUND
ROD OR OTHER ELECTRODE AS SPECIFIED
IN NATIONAL ELECTRICAL
CODE (NEC 250-83)

TEE CONDUIT FOR SEPARATE CONDUCTOR GROUND BONDED TO METAL BUILDING FRAME

NOTES:

PANEL BONDED TO GROUND CONDUCTOR

SIGNA NO SCALE

SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS.

CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS (NEC 250-84) AS REQUIRED.

ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).

BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-91). IN ADDITION TO THE DETAIL SHOWN ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL F AVAILABLE (NEC 250-81 AND 250-83).

SIZE OF CONDUCTOR SHALL COMPLY WITH NEC TABLE 250-95.

GROUND ROD BOX

FIXED EQUIPMENT ON GRADE FIXED EQUIPMENT ON STRUCTURE ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FOR FLEXIBLY SIMULTANEOUS

MOUNTED EQUIPMENT USE 4x THE ABOVE VALUES. VERTICAL FORCE — USE 1/3x 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 MECHAN—ICAL AND ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

20% OF OPERATING WEIGHT 30% OF OPERATING WEIGHT

Prior to requesting final inspection and testing of the system, initial test adjustments shall be performed by the contractor. These costs will be included in his bid and he shall furnish all equipment necessary and perform all work required to determine or modify the performance of system is accordance with the specifications.

GROUNDING

NOTES:

ALL GROUNDING PER NATIONAL ELECTRIC CODE, ARTICLE 250.
GROUND BOND BUILDING AND ALL METALLIC PIPES, GAS, WATER, ETC.
TEST GROUND AND CERTIFY IN WRITING, 25 OHMS OR LESS, GROUND READINGS.
ADD GROUND RODS AS REQUIRED TO OBTAIN GROUND READING REQUIREMENT.

SCOPE: Furnish all labor and new materials necessary for and satisfactory operating electrical system for illumpower and equipment in accordance with governing codes. Wiring systems, disconnect switches connections to equipment covered by other sespecifications. tor a complete llumination, des.

SYMBOL

NAME

DESCRIPTION

SYMBOL

SCHEDULE

DENOTES EXISTING ITEM

All work and materials shall be in full accordance with the governing codes and rules including the National Electric Code, 1990 Edition as amended by California Electrical Code. Nothing in these plans and specifications is to be construed to permit work not conforming to these Codes. Extending existing fire alarm.

FIRE ALARM HORN +82"MAX

FIRE ALARM PULL STATION (W.P.)+45

FIRE ALARM STROBE +82"

FARADAY #5521U CSFM# 7300-065:114

CLOCK (EXISTING)

DRIVE 100 T

Include payment of all mits, fees and taxes. Submit six copies of equipment lists for power devices and any other special equipment. Contractor is to review and sign these indicating his review. required insurances, electrical per

GENERAL COORDINATION: The drawings indicate diagradesired location or arrangement of conduit recomposited, and are to be followed as closely as penalty be the contractor's responsibility to verify and contractor's and raceways with other tradethe location of all outlets and raceways with other tradethe Wherever possible, work shall be done in a concealed and neat workmanlike manner, necessitation the least amount of cutting of studs, plates and woodwork, and such cutting or notching is allowed only after consultation with and permission of the Engineer. UTTING, PATCHING, MATCHING: This Contractor shall do all cutting ecessary for the proper installation of his work and shall repair ny damage done by himself or his workmen in kind and coordinate with that of other parties. ARTHQUAKE RESTRAINT: All electrical equipment and nall be designed to resist lateral seismic forces equal transporting of the weight yield capacity. Cantil pre-third, or 0.5 of the weight yield capacity. Cantil proporting equipment shall be designed to resist late of the capacity of the weight with allowable of the capacity increased by one—third. Floor mounted equipment to same accordingly. ummatically the uns, outlets, possible. It coordinate es. connections to 0.33 of increased by ever posts ral seismic working code ment shall be

3UARANTEE: The Contractor agrees to replace any damage or defect n any part of the installation which may fail due to defective naterial 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. MECHANICAL AND OTHER SPECIAL EQUIPMENT: Prioronstruction this Contractor shall arrange a conference of the contract of the controls and diagrams of all equipment of the controls are controls and diagrams of the controls of this equipment have been all phases of coordination of this equipment have been or to commer nce with the tors as well as location, furnished by gineer that covered.

All conduit installed on regid conduit with steel obuilding wiring in hollow dry be in EMT. Sealtite flex not over 18" shall be used to feed mechanical units and be supported adequately. in damp areas, shall be allowed by NEC. General of walls and ceiling may

BOXES: Shall be steel 4/S minimum with proper ring and shall not be "through wall" boxes or mounted back to back. EXISTING PANELBOARDS: All existing panel schedules to and updated including all new loads. DISCONNECT SWITCHES: proper size "FRN" fuses. ONDUCTORS: Furnish and install a copper THWN 600 vystem for proper connection and operation of all equipm 10 and smaller shall be solid copper, see below. All ntering any panel or terminal box shall be identified by Labels. Wiring shall be color coded. Shall be NEMA be verified

At the completion of the project all new work shand certified by the manufacturer and/or representative. Provide and install new devices where necessary. Identify all conductors. All new components to be compatible with existing system and shall be State Fire Marshal listed. Provide all required appurtenances required for a complete operating system. Shop drawings and equipment new equipment, conductor requirements. Adjust existing fire alarm duct detector locations. cable. as required to acco submittals are required showing requirements and outlet box all be tested his authorized

If, during final testing, a system does not appear to be functioning properly, special tests may be required on any item of equipment to determine that that item meets the pertinent specifications. This contractor shall perform final tests on all of his equipment and wiring to ascertain its proper performance in addition to any special tests called for, including fire

All hangers, anchors, sleeves, all electrical equipment and materials. nd supports for and electrical ections of these

Prepare record drawings of work installed.

LOCAL CONDITIONS AND PLANS: Before submitting of contractor shall visit the site and fully inform hims existing conditions and limitations applying to the work such examinations and study it appears that any conditions and study it appears that any conditions and study it appears that any contravings and specifications should be allowed, the bidd state in writing together with any change in cost involves the

MATCH EXISTING F.A. SYSTEM DEVICES

AND A.D.A. REQUIREMENTS

UNDERGROUND OR IN WALL WIRING

MOTOR WITH DISCONNECT SWITCH

JUNCTION BOX -

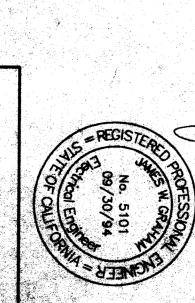
ALL WIRING IS SHOWN DIAGRAMMATIC, CUITRY; HOWEVER, ALL CIRCUITS SHOW DEVICE OR FOUND SHALL BE ALLOWED. ANY CONNECTION AT A DEVI

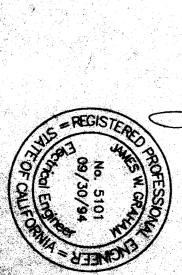
WRITTEN CERTIFICATION BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO THE ARCHITECT (WITH COPIES TO THE ELEC-TRICAL ENGINEER AND THE STATE FIRE MARSHAL) AND THAT THE INSTALLATION INCLUDES TESTING AND OPERATION CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN CALIF. BUILDING CODE SECTION 809, CALIF. ELECT. CODE ART. 760 AND CALIF. FIRE CODE ART. 14 BE #16AWG, SOLID COPPER, UNLESS OTHERWISE NOTED.

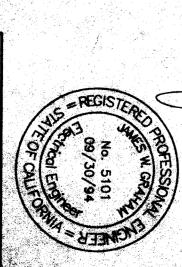
NSTALLATION OF THE FIRE ALARM SYSTEMS SHALL NOT BE STARTED UNTIL WORKING DRAWINGS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS OF ALL FIRE ALARM COMPONENTS, ARE SUBMITTED TO AND APPROVED BY THE STATE FIRE MARSHAL AT THE OFFICE OF THE STATE ARCHITECT. JPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY SET OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.

F TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 10db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM AUDIBLE DEVICES MAY BE REQUIRED BY THE ENFORCING NOISE CBC 7203 (b).

INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN AND







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INTERSTATE ENGINEERING, INC. 2727 N. GROVE INDUSTRIAL DR., BLDG. 155, STE. FRESNO, CA 93727. (209)453-9491 JAMES W. GRAHAM E.E. 5101

Glenn Hartzell-Architect, inc. 26 'H' STREET, 93304

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