WPX IS	60 80	WP ISV 15	1/4W ISV 30		⊙ 1/2₩	O D D D	O PS	PS HV	O _{PS}	Θ^{\square}	M _P	<u>×</u>	₹	RCC	DAA	VMRC	RA	FACP	[
EXTERIOR AND DAMP LOCATION STROBE	INTERIOR STROBE	EXTERIOR (AND DAMP LOCATION) SPEAKER STROBE	INTERIOR SPEAKER/STROBE WALL MOUNT	INTERIOR SPEAKER WALL MOUNT	CEILING SPEAKER	DETECTOR. DOOR CONTROL. ADDRESSABLE	PHOTOELECTRIC SMOKE DETECTOR. ELEVATOR RECALL. ADDRESSABLE PHOTOELECTRIC SMOKE	PHOTOELECTRIC DUCT DETECTOR ADDRESSABLE	PHOTOELECTRIC SMOKE DETECTOR. ADDRESSABLE	THERMAL DETECTOR	MANUAL PULL STATION	MONITOR MODULE	ADDRESSABLE CONTROL MODULE	FIREFIGHTER REMOTE CONTROL CENTER	DIGITAL AUDIO AMPLIFIERS	DIGITAL VOICE MESSAGE RELAY CABINET	REMOTE ANNUNCIATOR	FIRE ALARM CONTROL PANEL	
COOPER WHEELOCK ETRSSWP	COOPER WHEELOCK E5014MCWAW	COOPER WHEELOCK ETC70WP	COOPER WHEELOCK E5024MCWAW	COOPER WHEELOCK ET50W	COOPER WHEELOCK ET90W	NOTIFIER FSD 851 W/ B710LP BASE	NOTIFIER FSD 851 W/ B710LP BASE	NOTIFIER DNR	NOTIFIER FSD 851 W/ B710LP BASE	NOTIFIER FST-851 W/ B510LP BASE	NOTIFIER MBG 12LX	FMM	NOTIFIER FCM	NOTIFIER AUDIO COMMAND CENTER NFV 25/50		NOTIFIER XPIQ	NOTIFIER LCD-160	NOTIFIER 3030	\$ \$
6th. & 7th. FLOORS NO. INDICATES CANDELA (30cd SHOWN)	BER INDICATE	SPEAKER/STROBE (1)(2) (1/2 WATT/15cd SHOWN)	MULTIPLE TAP. NUMBER INDICATES WATTS/CANDELA (1/4 WATT/30cd SHOWN)(1)	\sim	MULTIPLE TAP. CORRIDORS. NO. INDICATES WATTAGE (1) (1/2 WATT SHOWN)WHITE	PROVIDE RELAYS (MODULES) TO CLOSE DOORS.	PROVIDE RELAYS FOR RECALL, ALT. FLOOR RECALL, & SC RELEASING	WITH ALL REQUIRED ACCESSORIES	CORRIDORS AND EQUIPMENT PROTECTION	ELEVATOR MACHINE ROOMS.	LOCATED AT NORTH AND SOUTH EXITS & FACP. ADDRESSABLE	REQUIRED	FRM WHERE REQUIRED	1st. FLOOR SOUTH ELECT. ROOM	MOUNTED IN LOCKING CABINET.	AT FACP W/CABINET	NORTH & SOUTH EXITS 1st. FLOOR	PROVIDE ALL REQUIRED MODULES.	
7300-0785:154	7125-0785:165	7300-0785:154	7125-0785:165	7320-0785:134	7320-0785:134	7300-0028:206	7272- 7300-	3242-1653:209	7272-0028:206 7300-0028:0173	7270-0028:196	7150-0028:199	/300-0028:219	7300-0028:202	6911-0028:229	7170-0028:223 7170-0028:224	6911-0028:211	7120-0028:227	7165-0028:224 7170-0028:227	() () () () ()

NOTE:
Requirements for Disabled Fire Alarm Systems:
Requirements for Disabled Fire Alarm Systems:
Requirements for Disabled Fire Alarm Systems:
As per the 2010 California Fire Code, Section 901.7 and Section 1404.5 Standby
As per the Compus Fire Marshal is authorized
Personnel or Systems Temporarily Out of Service. The Campus Fire Marshal's order at all times when until the system is restored. Such individuals shall be subject to the Campus Fire Marshal's order at all times when so employed and shall remain on duty during the time such places are open to the public, or when such activity is being conducted.

Such individuals shall keep a diligent watch for fires and be able to take prompt and appropriate action in the event of fire. Such individuals shall not be required or permitted, while on duty, to perform any other duties than those herein specified.

GENERAL NOTE:
THE PROJECT SITE CONTAINS ASBESTOS AND LEAD
THE INTENT OF THIS PROJECT IS NOT ABATEMENT
DEFINED IN CCR TITLE 17 §35001 THRU §36100. (Pb) CONTAINING BUILDING MATERIALS. OF AN EXISTING LEAD HAZARD AS

GENERAL INSTALLATION NOTES

QUIPMENT

SCHEDULE

All new fire alarm and mass notification wiring is THHN with red overall jacket, power limited plenum rated.

All exterior exposed conduit on building is rigid galvanized steel (GRC). All network conduit surface mounted is electrical metallic tubing (EMT). ALL PENETRATIONS OF FLOORS AND FIRE RATED WALLS SHALL BE FIRE SEALED. WHERE EXISTING OPENINGS ARE USED FOR FIRE ALARM WIRING THEY SHALL BE FIRE SEALED.

ent locations were taken from Verify exact locations prior to

Where existing conduits are used and conduit openings are not sealed; provide required fire sealing.
Where power limited cabling methods are used cables shall be supported from the building structure.

DO NOT LAY CABLES ON CEILING DUCTWORK ETC., CABLES SHALL NOT BE ATTACHED TO EXISTING PIPES OR CONDUITS. SUPPORT CABLES FROM BUILDING STRUCTURE. etrations of existing cor

All conduit penedrilled.

All ceiling demolition, repairs and installation shall be performed by a licensed acoustical ceiling contractor. Cabling for Fire Alarm may be routed in existing barriered cable trays. Provide barriers in existing cable trays per plans. Paint walls where existing equipment is removed. Paint walls where finishes are restored to original condition after conduit and box installation (See E4.0). All 120v circuit breakers serving fire alarm equipment shall be painted red and labeled "Fire Alarm Equipment. Do Not Disconnect"

GENERAL NOTES

equipment shall be listed by a recognized test lab that label of approval.

Grounding and bonding shall be per code plus any additional provisions specified or shown on drawings. ontractor shall furnish, install and connect all aterial and equipment for this work unless otherwise oted.

These plans are not complete until approved by the authority having jurisdiction. ıs shall contain a code sized green

All wiring (and boxes) is concealed. Equipment may be surface mounted where required to be mounted on concrete walls. Existing locations of ceiling access panels are approximate. Verify exact locations in field.

Where ceilings are indicated as open ceilings access may be blocked in areas by ductwork and/or piping. Verify exact routes of conduit and cabling prior to installation.

INSTALLATION METHODS

Where impossible to conceal;
a. In unfinished equipment room, use EMT.
b. Exposed exterior use rigid galvanized steel.
c. In finished spaces use surface mounted raceway
d. In open ceiling lab spaces use emt. All wiring is concealed. Open walls and ceilir patch to match where required.

aint all exposed visible raceways to match mo wiring shall be installed in raceway, no exception

ble shall not be installed where exposed to damage attics and ceiling spaces. Where structure does not afford tection, install mechanical protection.

space areas is in conduit

All voice wiring is shielded. All wiring in open

10.

The fire alarm work shall be installed in accordance with the California Electrical Code and all applicable local ordinances. Where plans call for a higher standard than applicable codes, the plans shall govern. Conduit runs are shown diagrammatically. Exact locations shall be determined in the field to suit field conditions.

All 120V conduit rur ground wire.

Dimensions indicated for buildings and building floor plans were taken from existing record documents. DO NOT SCALE DRAWING! Field verify all dimensions.

Conversion of floor plans to electronic media creates dimensional discrepancies. Field verify critical dimensions.

Remove all existing fire alarm equipment to be replaced by new system.

in fire ala

de Record drawings and written operating instructions location determined by Campus Fire Marshall. Provide d drawings in Autocad (2004—2010) format and (2) hard de protective covers where required to protect ment from damage. de Record of Completion (Per NFPA 72) to the UCSB Project ger the Campus Fire Marshall and post one copy adjacent to the Narm Panel.

Restore existing wall and ceiling finishers to original condition where opened to conceal conduit and boxes. project "As—Built" record drawings and provide electronics to University in .pdf format.

ove all existing wire where required rdinate DACT wiring w/UCSB).

Existing door holders and wiring may be reused. Provide power and releasing modules as required. Salvage all equipment deemed salvageable by ow to location (on site) specified by owner. Remove all other from site.

GENER. AND \leq AL **ASS NOTIFICATION WORK** SCOPE 유 FIRE

ALARM

FIRE ALARM SYMBOLS

SCOP Ĕ OF NEW MANUAL AND AUTOMATIC ADDRESSABLE AND MASS NOTIFICATION SYSTEM AT SCIENCES II BLDG. #571. FIRE ALARM WORK

SCOPE OF FIRE ALARM WORK ire alarm and mass notification work is not intended to work and equipment required to accomplish this work. ed to indicate generally the tasks to be performed under

Smoke Detector

Smoke Detector - Ventilation duct type

Smoke Detector - Door release type

Smoke Detector - Elevator Recall

Thermal Detector - Elevator Rooms

Manual Pull Station

Monitor Module (Device Address Unit)

Control Module

nstallation

vide new wiring and new raceways where required. Iuding 120V wiring to control equipment. de new wiring in existing conduit where required de connections to existing elevator smoke curtains.

30 **X**

INTERIOR VOICE (SPEAKER) CEILING MOUNT (NUMBER INDICATES WATT SETTING)

1S 1/2W 30 📉

≟ ≷

INTERIOR VOICE (SPEAKER) WALL MOUNT (NUMBER INDICATES WATT SETTING)

72 ****

EXTERIOR VOICE (SPEAKER) WALL MOUNT (NUMBER INDICATES WATT SETTING)

ide 24V con

ections to existing door holders.

ide all patching required to restore finishes wher aged by this work. de all core drilling, penetrations, and <u>fire sealing</u> red by this work, per codes.

ide all painting of exposed equipment in finisheds, including raceways.

oer Switch

ide 100% Pre—test of system prior to call for final system completely in the presence of the UCSB sentative(s), certify and provide complete report of 19 to the UCSB. ning of new system

Door Holder (Control) Electro Mechanical End Of Line (Resistor) Device For Elevator Inte

ing conduits and wiring for water flow and tampernes may be reused to connect new monitoring es where appropriate.

de network card w/ I server and voice chip relays abling required to connect the MNS to the campus only works servers and Whelen consoles. Verify network cables and coordinate with University.

Voice EVAC Appliance Circuit Water Flow (Device)

DC #14 UTP (UNS) (2) #14 UTP) 2#12 (COPPE (COPPER, AWG)(HORNS)

NAC 4#12 (HORNS)

NAC 2#12 (STROBES)

NAC 4#12 (STROBES) 4#14(IDC)IN 3/4"C

INITIATION DEVICE CIRCUIT VOICE MESSAGE (MASS NOTIFICATION) CIRCUIT SHIELDED CABLE.

2#12(24VDC)IN 3/4"C.

4#12S(VM)(SHIELDED)

2x2 LAY-IN. HT. VARIES (9'-0") VERIFY.

2x4 LAY-IN. HT. VARIES (9'-0") VERIFY.

ACOUSTICAL (12x12) TILE (HT. VARIES) VERIFY.

OPEN CEILING (30" PAN OPENING 6" RIBS) * GYP. BOARD CEILING (HT. VARIES) VERIFY. SPECIAL CEILING (REFR.,METAL PAN OR) -INDICATES CEILING HT. (APPROXIMATE—VERIFY)

Legend
(E): EXISTING
(R): REMOVE SLAB DEPTH VARIES EACH FLOOR AND LOCATION. (6" TO 8"D.)

SANTA BARBARA

ELECTRICAL DESIGN, INC.

314 E. Carrillo St. Ste. 7
Santa Barbara, CA 93101
(805) 963-8631

UNIVERSITY OF CALIFORNIA SANTA BARBARA MASS NOTIFICATION & FIRE ALARM SYSTEM BIOLOGY II BUILDING #571