

NOTES (THIS SHEET ONLY): TO REMAIN IN USE FOR RECONNECTION PER FIRE ALARM RISER DIAGRAM #1/E3.2. APPLICABLE CODES AND STANDARDS

TO REMAIN IN USE. SEE KEYNOTE #12 FOR ADDITIONAL INFORMATION.

- 3 DISCONNECT REMOVE AND DISPOSE OF AS DIRECTED BY THE OWNER.
- 4) DISCONNECT AND REMOVE THIS SECTION OF SURFACE RACEWAY. LEAVE CONDUCTORS IN PLACE AT CORNER FOR RECONNECTION.
- (5) RUN NEW RACEWAY FROM EXISTING SURFACE RACEWAY JUNCTION BOX UP WALL THEN HORIZONTAL ON WALL TO CORNER AT CEILING. THEN TURN DOWN WALL AND RUN TO NEW SURFACE RACEWAY JUNCTION BOX (LOCATED TO INTERCEPT EXISTING RACEWAY). PULL IN 2 #12 + 1 #12 GND AND CONNECT TO COILED UP CONDUCTORS FROM KEYNOTE #4.
- 6 MOUNT PER DETAIL #I/E3.I.
- 7) MOUNT PER DETAIL #4/E3.I.
- 8 MOUNT PER DETAIL #5/E3.I.
- 9 PROVIDE A I I/4"C. PULL IN CABLES PER FIRE ALARM RISER DIAGRAM #I/E3.2.
- (10) 1/2°C 2 #12.
- (I) RUN NEW RACEWAY FROM EXISTING SURFACE RACEWAY RECEPTACLE JUNCTION BOX HORIZONTAL ON WALL TO CORNER. THEN TURN UP WALL AND RUN TO NEW SURFACE RACEWAY JUNCTION BOX (LOCATED TO INTERCEPT EXISTING RACEWAY). PULL IN 2 #12 + 1 #12 GND AND CONNECT TO COILED UP CONDUCTORS FROM KEYNOTE #4.
- (12) RELOCATE TO THE SOUTH AS SHOWN. TO REMAIN CONNECTED AS IS.
- (13) TO REMAIN IN USE. NO WORK REQUIRED.
- (14) RUN A TWO SECTION, SURFACE NON-METALLIC RACEWAY UP WALL. FOLLOW PATH OF RACEWAY FROM KEYNOTES #5 AND #11 TO OTHER SIDE OF ROOM. IN ONE SECTION PULL IN 3 #12 + 1 #12 GND (POWER). IN THE OTHER PULL IN 2 #14.
- (15) PROVIDE A 3/4"C. PULL IN CABLES PER FIRE ALARM RISER DIAGRAM #1/E3.2.
- (16) MOUNT PER DETAIL #6/E3.1. MOUNT ON WALL BELOW DIGITAL VOICE PANEL.
- (17) OVERHEAD FIRE ALARM FEED PER SITE ELECTRICAL PLAN.
- (18) PROVIDE A 20A DUPLEX RECEPTACLE IN A SURFACE MOUNTED BOX. MOUNT ON BACKBOARD AT 36" FOR PLUGGING IN THE AC TRANSFORMER FOR THE COMMUNICATOR
- 19 PROVIDE NEW CIRCUIT BREAKERS PER PANEL "PUMP" SCHEDULE ON SHEET #E4.I.
- 20) PROVIDE A SURFACE JUNCTION BOX AND INSTALL 8" BELOW NEW SURFACE DUPLEX RECEPTACLE. SEE DETAIL #3/E3.2 FOR ADDITIONAL INFORMATION.
- 21) NEW SURFACE RACEWAY JUNCTION BOX.
- (22) RUN CONDUIT UP WALL FROM RACEWAY JUNCTION BOX INTO ACCESSIBLE ATTIC SPACE. CONTINUE IN ATTIC SPACE I END OF BUILDING. THEN PENETRATE THROUGH WALL (SEAL PENETRATION TO PREVENT LEAKS) THEN DOWN WALL AND OVER TO PANEL "PUMP" AND CONNECT.

DIVISION OF THE STATE ARCHITECT

- 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART I, TITLE 24 C.C.R.
- 2013 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE, VOLUMES I AND 2 WITH 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
- 2013 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R.
- (2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS).

(2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R.

2013 CALIFORNIA ENERGY CODE (CEnC), PART 6, TITLE 24 C.C.R.

- 2013 CALIFORNIA REFERENCE STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.
- TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

- NFPA 72 (CALIFORNIA AMENDED) NATIONAL FIRE ALARM CODE. 2013 EDITION
- ADAAG AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES UL 38 - MANUAL OPERATING SIGNAL BOXES, 2013 EDITION
- UL 268 SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2013 EDITION
- UL 268A SMOKE DETECTORS DUCT APPLICATIONS, 2009 EDITION

UL 464 - AUDIBLE SIGNAL APPLIANCES, 2012 EDITION

- UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2010 EDITION
- UL 864 CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2012 EDITION

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.I.18 THROUGH 1616A.I.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

I. ALL PERMANENT EQUIPMENT AND COMPONENTS.

THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM#).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

TITLE 24, PART 6

DATE REVISIONS

CHECK AND VERIFY ALL DIMENSIONS

CONSTRUCTION SHALL CONFORM

BEFORE PROCEEDING WITH THE

WORK. REPORT DISCREPANCIES

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IDENTIFICATION STAMP

OFFICE OF REGULATION SERVICES APPL: 03-116978

FILE: 15-6

DATE: 1964 0 3 2016

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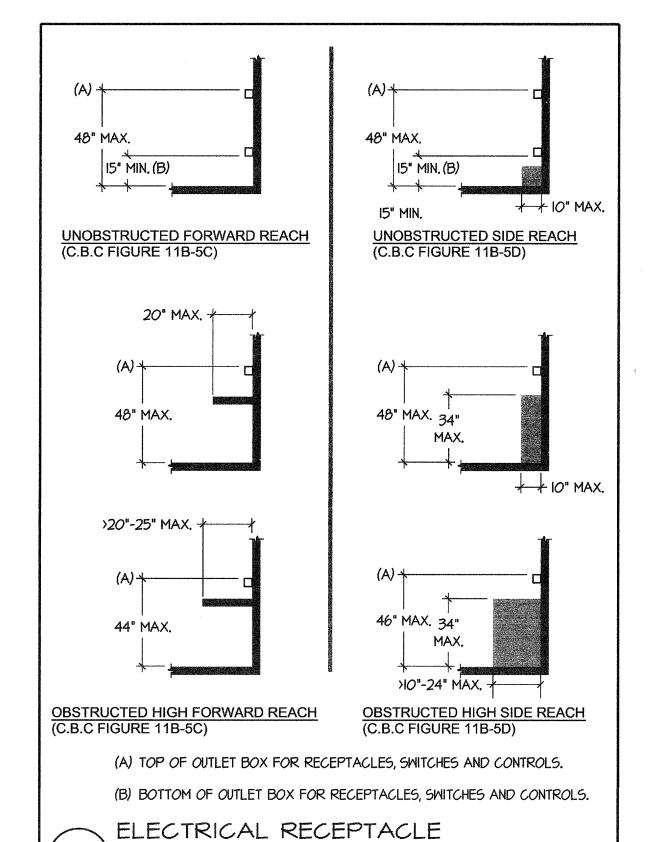
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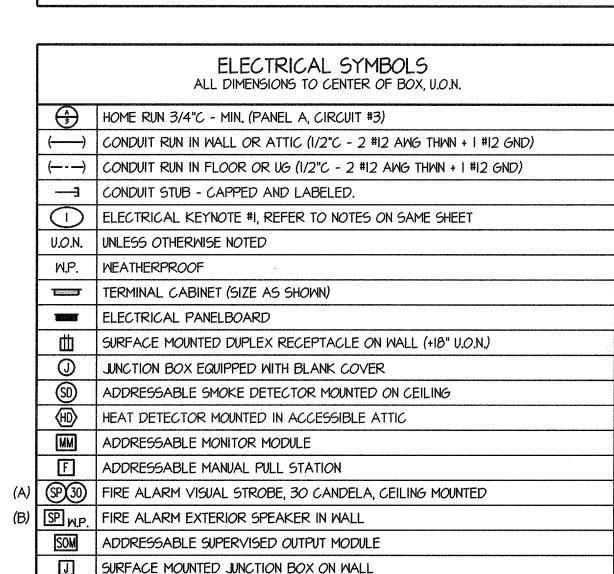
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THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.





SWITCH AND CONTROL HEIGHTS

ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #5/E3.2 FOR RESPECTIVE MOUNTING HEIGHTS.

(B) SEE FIRE ALARM PLAN FOR MOUNTING HEIGHTS.

GENERAL NOTE:

(I) PROVIDE ALL SURFACE RACEWAY COMPONENTS TO FORM COMPLETE AND FINISHED

COMPLETE AUTOMATIC FIRE ALARM SYSTEM

PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE

DETECTION SYSTEM, PER C.F.C. SECTION 907,2.3.6, AND SHALL COVER EVERY ROOM

AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM

SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND

TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

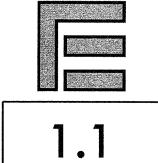
THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE

INCURRED DUE TO THIS SUBSTITUTION.

Rose Sing and Associates, Inc. Electrical Consultants 131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705

ELECTRICAL SYMBOLS, CODES AND PARTIAL ADMIN. **ELECTRICAL ROOM PLANS**

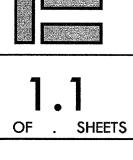
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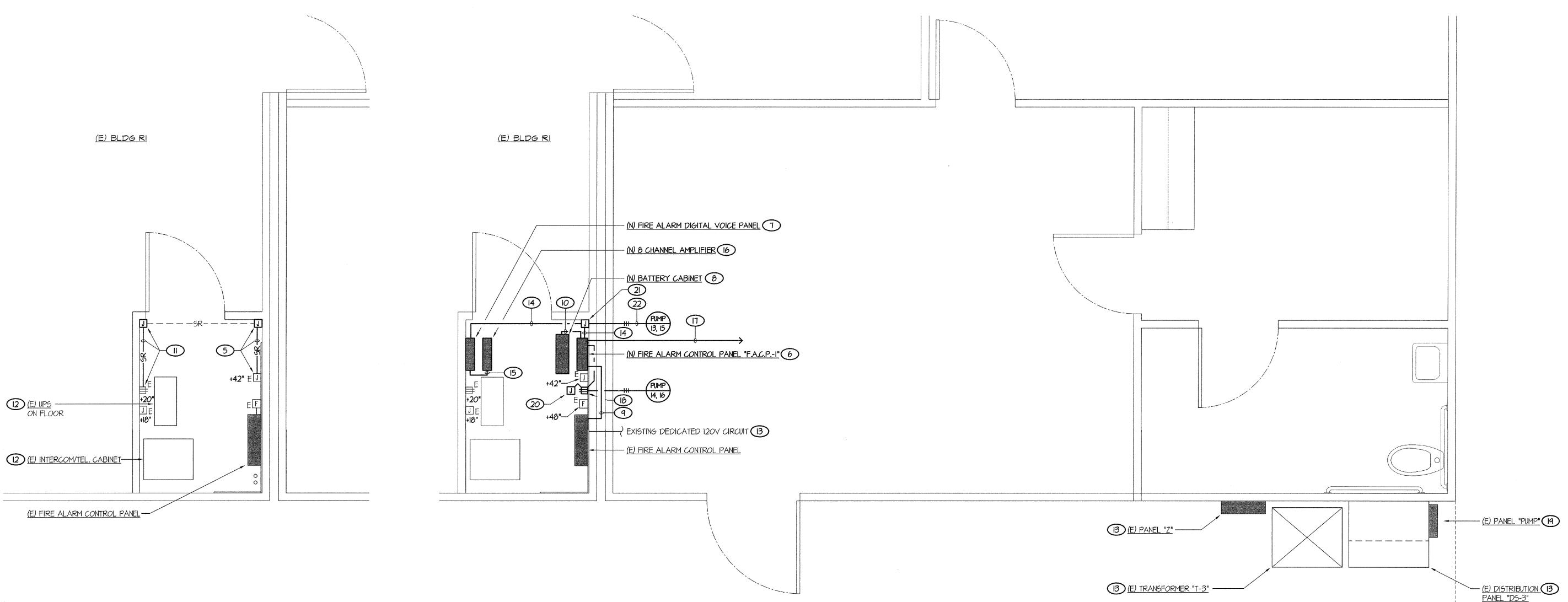
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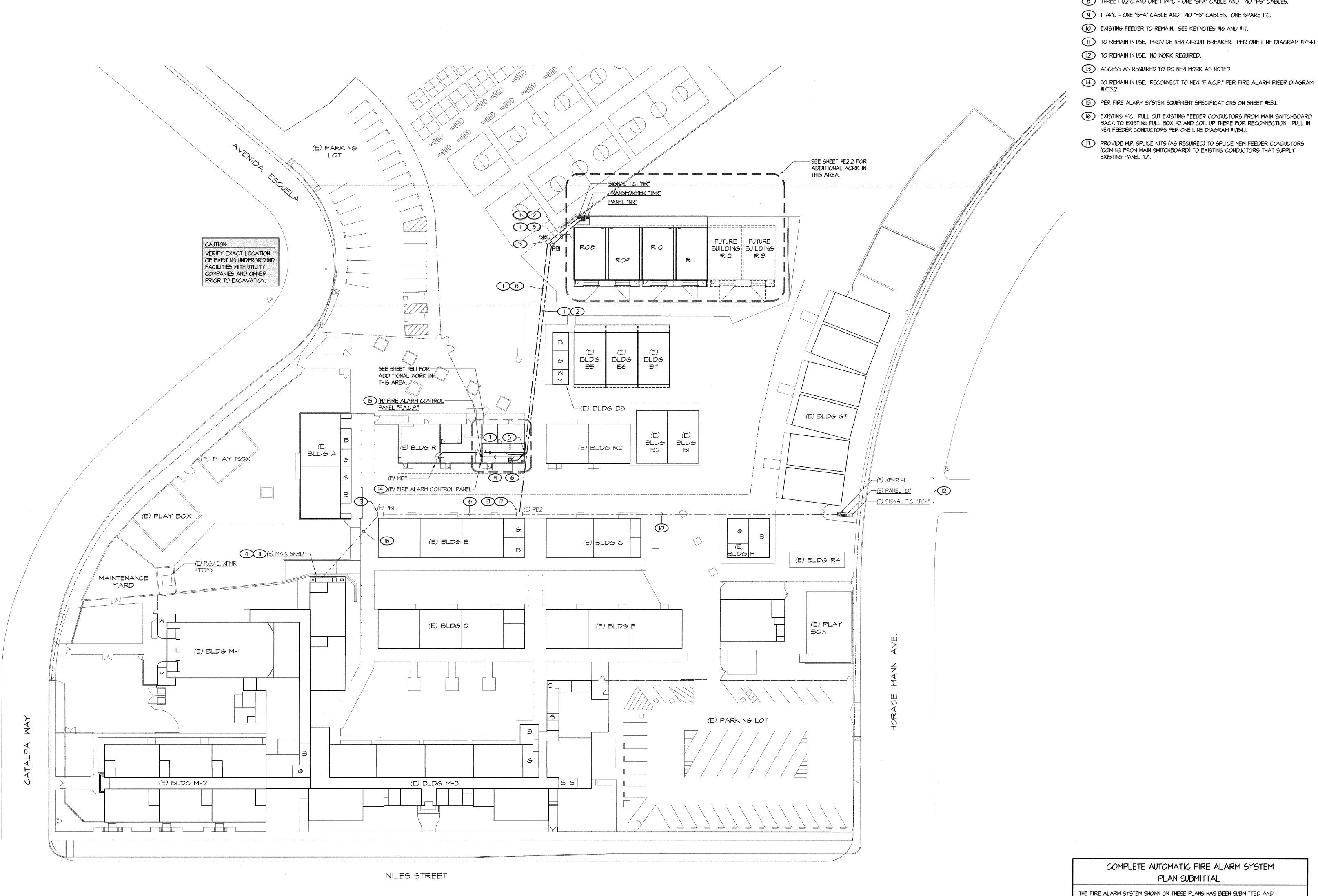
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NOTES (THIS SHEET ONLY):

- BORE UNDER OR SAWCUT AND PATCH EXISTING PAVED AREA AS REQUIRED TO UNDERGROUND CONDUITS AS SHOWN.
- 2) FEEDER PER ONE LINE DIAGRAM #I/E4.I.
- 3 NEW PULL BOXES PER DETAIL #3/E5.I. TYPICAL, U.O.N.
- 4 ACCESS AS REQUIRED TO CONNECT NEW FEEDER CONDUCTORS AND NEW CIRCUIT BREAKER AS REQUIRED.
- PROVIDE A NEW 36" SQ x 12" D, NEMA 3R SCREW COVER ENCLOSURE HIGH UP ON EXTERIOR WALL ABOVE HEIGHT OF INTERIOR OF BUILDING ACCESSIBLE ATTIC SPACE. SEE DETAIL #8/E5.I.
- RUN ONE 2"C FROM M.D.F. UP WALL INTO ACCESSIBLE ATTIC SPACE THEN CONCEALED

6 PROVIDE THREE 1 1/2"C STUBS INTO ACCESSIBLE ATTIC SPACE FOR OWNER'S USE.

- IN ACCESSIBLE ATTIC SPACE TO EXTERIOR WALL. THEN PENETRATE THROUGH EXTERIOR WALL INTO BACK OF NEW PULL ENCLOSURE AT KEYNOTE #5.
- 8 THREE I I/2"C AND ONE I I/4"C ONE "SFA" CABLE AND TWO "FS" CABLES.
- 1 1/4"C ONE "SFA" CABLE AND TWO "FS" CABLES. ONE SPARE I"C.
- (IO) EXISTING FEEDER TO REMAIN. SEE KEYNOTES #16 AND #17.
- 12) TO REMAIN IN USE, NO WORK REQUIRED.
- (13) ACCESS AS REQUIRED TO DO NEW WORK AS NOTED.
- TO REMAIN IN USE. RECONNECT TO NEW "F.A.C.P." PER FIRE ALARM RISER DIAGRAM #1/E3.2.
- 15 PER FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS ON SHEET #E3.I.
- (16) EXISTING 4"C. PULL OUT EXISTING FEEDER CONDUCTORS FROM MAIN SWITCHBOARD BACK TO EXISTING PULL BOX #2 AND COIL UP THERE FOR RECONNECTION, PULL IN NEW FEEDER CONDUCTORS PER ONE LINE DIAGRAM #1/E4.I.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM

PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE

SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND

TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM

APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE

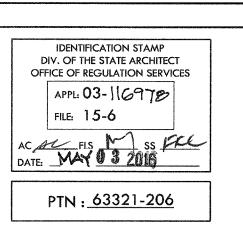
INCURRED DUE TO THIS SUBSTITUTION.

PROVIDE W.P. SPLICE KITS (AS REQUIRED) TO SPLICE NEW FEEDER CONDUCTORS (COMING FROM MAIN SWITCHBOARD) TO EXISTING CONDUCTORS THAT SUPPLY EXISTING PANEL "D".

MARK DATE REVISIONS

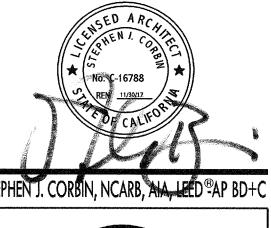
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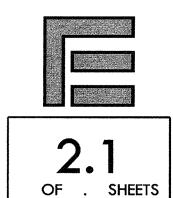


SITE ELECTRICAL PLAN - OVERALL

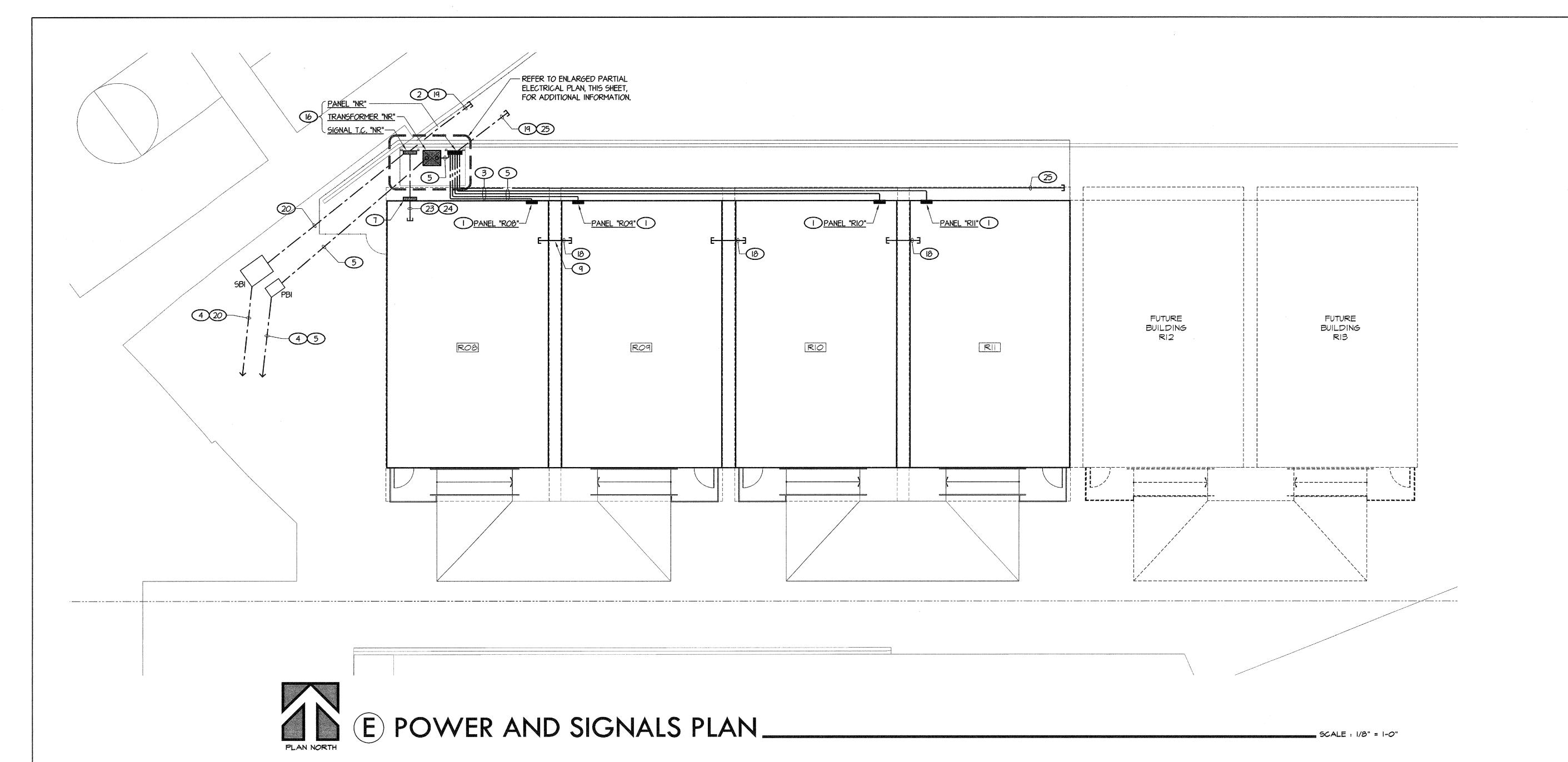
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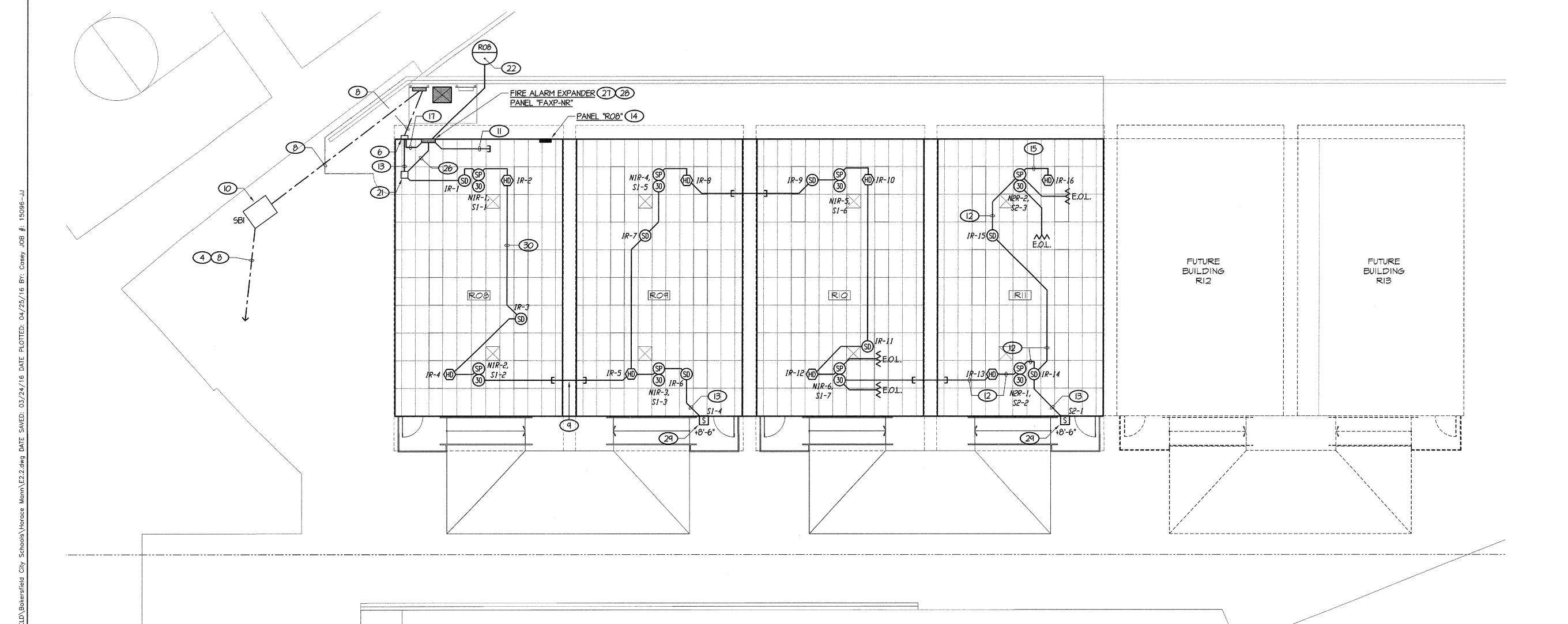
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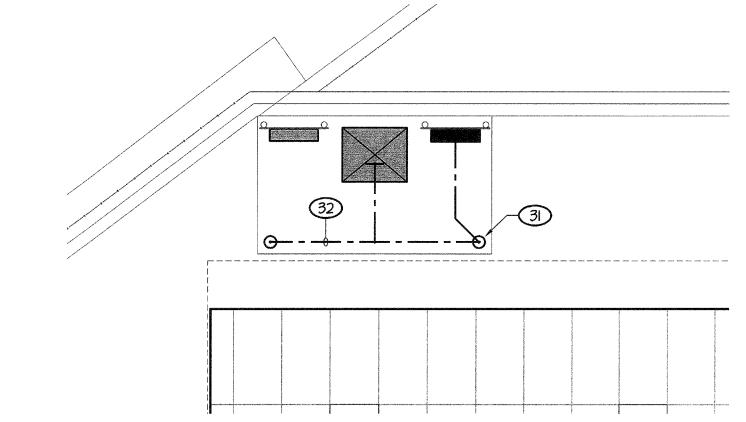
E SITE ELECTRICAL PLAN - OVERALL _____ _ SCALE : I" = 30'-0"





NOTES (THIS SHEET ONLY):

- CONNECT PANEL PROVIDED WITH RELOCATABLE BUILDING.
- 2 PROVIDE FOUR I 1/2"C STUB OUTS FOR FUTURE USE.
- 3 RUN CONDUITS SURFACE MOUNTED ON WALL ON BACK OF RELOCATABLE BUILDING.
- 4 SEE SITE ELECTRICAL PLAN SHEET #E2.1 FOR CONTINUATION AND REQUIREMENTS.
- 5 FEEDER PER ONE LINE DIAGRAM #1/E4.I.
- 6 PROVIDE A 18" H x 12" W x 6" D, NEMA 3R, SCREW COVER ENCLOSURE HIGH ON WALL ABOVE INTERIOR T-BAR CEILING. MOUNT PER DETAIL #5/E5.I.
- PROVIDE A 36" H \times 24"W \times 6" D, NEMA 3R, SCREW COVER ENCLOSURE HIGH ON WALL ABOVE INTERIOR T-BAR CEILING. MOUNT PER DETAIL #II/E5,I.
- 8 I 1/4"C ONE "SFA" CABLE, TWO "FS" CABLES.
- 9 SEE DETAIL #10/E5.1 FOR CONDUIT CONNECTIONS REQUIREMENTS BETWEEN BUILDINGS,
- PROVIDE NEW PULL BOX PER SITE ELECTRICAL PLAN. SEE SHEET #E2.I FOR
- II) TWO SPARE I"C.
- 12 I"C ONE "FA" CABLE, ONE "FS CABLE, 2 #12.
- (3) 3/4"C TWO "FS" CABLES.
- PROVIDE A NEW 20A, I-POLE CIRCUIT BREAKER WITH "LOCK" ACCESSORY AND RED HANDLE FOR FIRE ALARM CONNECTIONS.
- 15 3/4"C ONE "FA" CABLE.
- 16 SEE DETAIL #9/E5.1 FOR MOUNTING REQUIREMENTS.
- 17) 3/4"C ONE "SFA" CABLE.
- PROVIDE ONE 1"C, ONE 3/4"C AND TWO I 1/4"C BETWEEN BUILDINGS FOR USE BY THE OWNER. INSTALL IN ACCESSIBLE ATTIC SPACE.
- 19 STUB INTO ACCESSIBLE PLANTER AREA AND CAP FOR FUTURE USE.
- 20 PROVIDE THREE I 1/2"C (WITH NYLON PULL ROPE) FOR OWNER'S USE.
- 21) PROVIDE A 12" $SQ \times 6$ "D, NEMA I, SCREW COVER CAN CONCEALED IN ACCESSIBLE ATTIC SPACE.
- 22) CONNECT TO A NEW DEDICATED 20A, I-POLE CIRCUIT BREAKER IN LISTED PANEL.
- 23) TWO SPARE I"C (F.A.), FOUR I I/4"C AND ONE 2"C FOR OWNER'S USE.
- 24) STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING.
- 25 SPARE CONDUIT(S) FOR FUTURE RELOCATABLE BUILDINGS PER ONE LINE DIAGRAM
- 26) I"C ONE "FA" CABLE, 4 #12.
- 27 PROVIDE CONDUIT ENCLOSING SHROUD PER DETAIL #2/E3.I.
- 28) MOUNT PER DETAIL #3/E3.I.
- 29) USE JUNCTION BOX SUPPLIED WITH RELOCATABLE BUILDING FOR MOUNTING OF
- 30 I I/4"C TWO "FS" CABLES, ONE "FA" CABLE, 4 #12. TYPICAL "FA" WIRING, U.O.N.
- 31) PROVIDE GROUND ROD AND WELL PER DETAIL #2/E5.1
- 32) I #2/O CU. TYPICAL BETWEEN GROUND RODS AND EQUIPMENT.





AUTOMATIC FIRE SPRINKLER SYSTEM

BUILDING ___ HAS AN AUTOMATIC FIRE SPRINKLER SYSTEM. HEAT DETECTORS HAVE BEEN OMITTED IN CONCEALED ATTIC SPACES ABOVE CEILINGS AND SOFFITS DUE TO THE AUTOMATIC FIRE SPRINKLER SYSTEM IS FULLY EQUIPPED IN THESE AREAS. C.F.C. 907.2.3.6.1.

> COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

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MARK	DATE	REVISIONS
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2		
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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM

TO THE C.B.C.

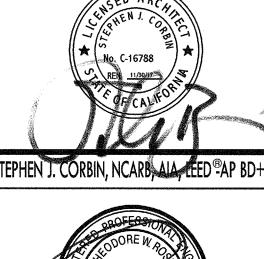
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POWER AND SIGNALS PLAN AND FIRE ALARM PLAN

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E FIRE ALARM PLAN_

FIRE ALARM BATI	CONTRO TERY CA			P."		
DEC CRIPTION		SUPV. C	URRENT	ALARM CURRENT		
DESCRIPTION	QUANTITY	EACH	SUB-TOTAL	EACH	SUB-TOTAL	
FIRE ALARM CONTROL PANEL	I	0.300	0.300	0.350	0.350	
SUPERVISED OUTPUT MODULE	ı	0.00022	0.00022	0.006	0.006	
ATTIC HEAT DETECTORS	8	0.00035	0.0028	0.00050	0.0040	
CEILING MOUNTED SMOKE DETECTOR	8	0.00045	0.0036	0.00054	0.00432	
MONITOR MODULES	2	0.00055	0.0011	0.00066	0.00132	
	TOTALS	30 T. S.	0.308		0.3657	

TOTAL ALARM CURRENT OF 0.3657 x 0.250 (15 MINUTES) = 0.0914 A.H. TOTAL SUPERVISORY CURRENT OF 0.308 x 24 HOURS = 1.392 A.H. TOTAL AMP HOURS REQUIRED 7.484 A.H. x I.2 SAFETY FACTOR 8.981 A.H.

PROVIDE 18.0 AMP HOUR BATTERIES

FIRE ALARM POWE BATT	ER EXPA			AXP-NR	JE	
DECCRIPTION	QUANTITY	SUPV. C	URRENT	ALARM CURRENT		
DESCRIPTION		EACH	SUB-TOTAL	EACH	SUB-TOTAL	
FIRE ALARM POWER EXPANDER PANEL		0.09	0.09	0.175	0.175	
30cd STROBE/SPEAKER (CEILING)	8			0.088	0.704	
	,					
	TOTALS		0.09		0.879	

TOTAL ALARM CURRENT OF 0.879 x 0.250 (15 MINUTES) = 0.2198 A.H. TOTAL SUPERVISORY CURRENT OF 0.09 x 24 HOURS = 2.160 A.H. TOTAL AMP HOURS REQUIRED 2.380 A.H. x I.2 SAFETY FACTOR

PROVIDE 7.0 AMP HOUR BATTERIES

APPROX. WEIGHT = 34 LBS

FOR ENCLOSURE.

PER CHANNEL.

INSIDE DOOR.

-FLUSH LOCK.

EACH CORNER.

FIRE ALARM CONTROL PANEL MOUNTING

-ENGRAVED NAMEPLATE.

-TYPEWRITTEN ZONE DIRECTORY

WITH FOUR 3/8" DIA, STUD NUTS.

APPROX. WEIGHT = 38 LBS

FOR ENCLOSURE.

PER CHANNEL.

INSIDE DOOR.

EACH CORNER.

FIRE ALARM DIGITAL VOICE PANEL MOUNTING

-FLUSH LOCK.

- ENGRAVED NAMEPLATE.

TYPEWRITTEN ZONE DIRECTORY

WITH FOUR 3/8" DIA. STUD NUTS,

-PROVIDE INTERMEDIATE STUD

EXISTING BUILDING STRUCTURE STUDS.

-1 5/8" SQ. x 12 GA. GALV. (HG) FRAMING

CHANNELS, UNPUNCHED (LENGTH AS REQUIRED),

WITH I/4" DIA. x 2 I/2" LG. LAG BOLTS. TWO

-ATTACH ENCLOSURE TO "FRAMING" CHANNEL

LOCKWASHERS AND HEX NUTS, ONE AT

TYPICAL. BOLT CHANNEL TO WALL STRUCTURE

- ATTACH ENCLOSURE TO "FRAMING" CHANNEL

LOCKWASHERS AND HEX NUTS, ONE AT

-PROVIDE INTERMEDIATE STUD

- EXISTING BUILDING STRUCTURE STUDS.

-- 1 5/8" SQ. x 12 GA. GALV. (HG) FRAMING

CHANNELS, UNPUNCHED (LENGTH AS REQUIRED),

TYPICAL. BOLT CHANNEL TO WALL STRUCTURE

WITH I/4" DIA. x 2 I/2" LG. LAG BOLTS. TWO

	.ARM AM TERY CA					
OFC C DIOTION	OHAUTITY	SUPV. CURRENT		ALARM CURRENT		
DESCRIPTION	QUANTITY	EACH	SUB-TOTAL	EACH	SUB-TOTAL	
FIRE ALARM AMPLIFIER PANEL		0.312	0.312	2,714	2.714	
	TOTALS		0.312		2.714	

FIRE ALARM DIGITAL VOICE PANEL "F.A.D.V."

SUPV. CURRENT ALARM CURRENT

EACH SUB-TOTAL EACH SUB-TOTA

x I.2 SAFETY FACTOR

6.617 A.H.

9.800 A.H.

0.186 | 0.186 | 0.199 | 0.199

0.186

BATTERY CALCULATION

TOTALS

TOTAL ALARM CURRENT OF 0.199 x 0.250 (15 MINUTES) = 0.0498 A.H.

TOTAL SUPERVISORY CURRENT OF 0.186 x 24 HOURS = 4.464 A.H.

DESCRIPTION

FIRE ALARM DIGITAL VOICE PANEL

TOTAL AMP HOURS REQUIRED

PROVIDE 7.0 AMP HOUR BATTERIES

TOTAL SUPERVISORY CURRENT OF 0.312 x 24 HOURS = 7.488 A.H. TOTAL AMP HOURS REQUIRED 8.167 A.H. x I.2 SAFETY FACTOR

TOTAL ALARM CURRENT OF 2.714 x 0.250 (15 MINUTES) = 0.679 A.H.

PROVIDE 18.0 AMP HOUR BATTERIES

FIRE /	ALARM SY	STEM SEQ	UENCE OF	OPERATIO	DNS				
RESULT OF OPERATION	TYPE OF INITIATION								
	MANUAL PULL STATION	AREA SMOKE/ HEAT DETECTOR (I)	LOSS OF POWER	SHORT CIRCUIT/ GROUND FAULT	FIRE SPRINKLER RISER WATER FLOW SWITCH	FIRE SPRINKLEI RISER TAMPER SMITCH			
ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL	YE5	YES	***************************************		YE5				
ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL			YES	YES		YES			
ACTIVATE ALL AUDIBLE ALARMS	YES	YES	•	***************************************	YE5				
ACTIVATE ALL VISUAL ALARMS	YE5	YES			YES				
TRANSFER TO BATTERY BACK-UP			YES						
SHUTDOWN RESPECTIVE A/C UNIT	WINEST COMMENT OF THE PROPERTY	YES		Contract and Alexander and Ale	***************************************				
ANNUNCIATE AT 24 HR, ATTENDED LOCATION	YE5	YES	YES	Billion Colombia Billion Billion Colombia Billion Billion Colombia Billion	YE5	YES			
CENTRAL STATION FOR MONITORING (ALARM)	YE5	YES		COMPONENCIA DO COMO POR LA COMPONENCIA DE COMPONENC	Management of the Control of the Con	EXEMPERAL POLICY CONTROL OF THE PROPERTY OF TH			
CENTRAL STATION FOR MONITORING (TROUBLE)	WARRING LACESTAL CONTROL OF CONTROL CO	STROUGHAND COLUMN STRONG COLUM	YE5						
CENTRAL STATION FOR MONITORING (SUPERVISORY)	Manuscin-Malekalore Galekalorea pinkenyakonyakonyakonya		2002/07/02/07/07/07/07/07/07/07/07/07/07/07/07/07/		pressure and construction and constructi	YES			

2.856 A.H.

(I) THIS OPERATION SHALL BE ACCOMPLISHED BY UTILIZING THE TOTAL SMOKE COVERAGE SYSTEM TO ACTIVATE THE RESPECTIVE RELAY MODULE. THE CONTACTS SHALL BE PROGRAMMED TO "OPEN", THUS "OPENING" THE H.V.A.C. CONTROL CIRCUIT.

SHROUD AT SURFACE MOUNTED FIRE ALARM

(FOR ENCLOSING OF EXPOSED CONDUITS)

EXPANDER AND SURFACE MOUNTED AMPLIFIER

SHROUD TO MATCH-

SECTION

-SELF-DRILLING SCREW $10-16 \times 3/4$ " HWH,

TYPICAL

WIDTH AND DEPTH

OF ENCLOSURE

WHERE SURFACE MOUNTED

SHROUD ABOVE ENCLOSURE TO CEILING, ATTACH SHROUD

TO 16 GA. ANGLE CONTINUOUSLY

AT WALL AND FLOOR, PAINT AS

ENCLOSURES ARE SHOWN,

PROVIDE A 16 GA. G.I.

DIRECTED BY OWNER.

-SURFACE MOUNTED

FIRE ALARM PANEL.

APPROX. WEIGHT = 16.5 LBS

-PROVIDE INTERMEDIATE STUD

-1 5/8" SQ. x 12 GA. GALV. (HG) FRAMING

CHANNELS, UNPUNCHED (LENGTH AS REQUIRED).

TYPICAL BOLT CHANNEL TO WALL STRUCTURE

WITH I/4" DIA. x 2 I/2" LG. LAG BOLTS. TWO

- ATTACH ENCLOSURE TO "FRAMING" CHANNEL

LOCKWASHERS AND HEX NUTS, ONE AT

WITH FOUR 3/8" DIA. STUD NUTS,

-TYPEWRITTEN ZONE DIRECTORY

FOR ENCLOSURE.

PER CHANNEL.

-FLUSH LOCK.

EACH CORNER.

INSIDE DOOR.

FIRE ALARM BATTERY CABINET MOUNTING

-ENGRAVED NAMEPLATE.

SYMBOL	DESCRIPTION	MODEL #	CSFM LISTING #	BACKBOX REQUIREMENTS B	MOUNTING HEIGHT (TO CENTER U.O.N.)
FACP	FIRE ALARM CONTROL PANEL "FACP"	HOCHIKI #FN-4127 (45LC)	7165-0410:0159	INCLUDED	+54"
FAXP	FIRE ALARM NAC POWER EXPANDER	HOCHIKI #FN-642-ULADA-R	7315-0410:0166	INCLUDED	+54"
BATT.CAB.	BATTERY CABINET	HOCHIKI #FN-ACC-R	7165-0410:0159	INCLUDED	+54"
FADV	FIRE ALARM DIGITAL VOICE COMMUNICATIONS CONTROL PANEL	HOCHIKI #FNV-MP-16-R	6911-0410:0175	INCLUDED	+54"
AMP	AMPLIFIER (8 CHANNEL)	HOCHIKI #FNV-DPS-100R	6911-0410:0175	INCLUDED	+54"
DSM	DUAL SYNC. MODULE	GENTEX #AV544	7125-0569:0123	4" 5Q. x 2 1/8" D B	
MM	MONITOR MODULE	HOCHIKI #FRCME-P	7300-0410:0150	4" 5Q. x 2 1/8" D B	
SOM	SUPERVISED OUTPUT MODULE	HOCHIKI #50M-A	7300-0410:0150	4" 5Q. x 2 1/8" D B	
(3)	ANALOG ADDRESSABLE PHOTOELECTRONIC SMOKE SENSOR	HOCHIKI #ALN-V, HSB-NSA-6 BASE	7272-0410:0204	3.5" OCTAGON BOX OR 4" OCTAGON BOX WITH RAISED ROUND COVER B	PER DETAIL #2/E2.2
働	ATTIC HEAD DETECTOR 190° FIXED AND BASE	HOCHIKI #ATJ-EAF, HSB-NSA-6 BASE	7272-0410-0203	3.5" OCTAGON BOX OR 4" OCTAGON BOX WITH RAISED ROUND COVER B	PER DETAIL #2/E2.2
SP M.P.	EXTERIOR WEATHERPROOF SPEAKER WALL MOUNTED	GENTEX #WSS-PK-R	7320-0569:0141	4" 5Q. x 1 1/2" D	DE.
(SP) (30)	COMBINATION SPEAKER/30cd STROBE	HOCHIKI #H55P-K24-PKR	7320-0410:0194	4" 5Q. x 2 1/8" D	
——€ E.O.L.	END OF LINE RESISTOR				MODERNIA POR SE PLANTA MARIANTA
"FA" CABLE	ADDRESSABLE FIRE ALARM CABLE (INDOORS)	WEST PENN #D990	7161-0859:0101		
"SFA" CABLE	ADDRESSABLE FIRE ALARM CABLE (OUTDOORS)	WEST PENN #AQ225	7161-0859:0101		
"F9" CABLE	FIRE ALARM SPEAKER CABLE (INDOOR/OUTDOORS)	WEST PENN #AQC225	7161-0859:0101		

NOTES (FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS):

- (A) END OF LINE RESISTORS FOR NOTIFICATION APPLIANCE CIRCUITS SHALL BE 3.9K OHM, 1/2 WATT.
- B VERIFY BACKBOX REQUIREMENTS WITH FIRE ALARM SYSTEM EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- (C) END OF LINE RESISTORS FOR CONVENTIONAL DEVICES CONNECTED TO ADDRESSABLE MONITOR MODULE DEVICES AND/OR ADDRESSABLE CONTROL MODULES SHALL BE 3.9K OHM, I/2 WATT.
- (D) SEE FIRE ALARM PLAN FOR MOUNTING HEIGHT.
- (E) PROVIDED WITH W.P. BACKBOX #GBLP

APPROX. WEIGHT = 19 LBS

FOR ENCLOSURE.

PER CHANNEL.

INSIDE DOOR,

FLUSH LOCK.

EACH CORNER.

FOR ENCLOSURE.

PER CHANNEL.

INSIDE DOOR.

EACH CORNER.

FIRE ALARM AMPLIFIER PANEL MOUNTING

--- FLUSH LOCK.

-ENGRAVED NAMEPLATE.

TYPEWRITTEN ZONE DIRECTORY

WITH FOUR 3/8" DIA, STUD NUTS.

FIRE ALARM POWER EXPANDER PANEL MOUNTING

-ENGRAVED NAMEPLATE.

TYPEWRITTEN ZONE DIRECTORY

WITH FOUR 3/8" DIA. STUD NUTS,

APPROX. WEIGHT = 48 LBS

PROVIDE INTERMEDIATE STUD

--- EXISTING BUILDING STRUCTURE STUDS.

-- 1 5/8" SQ. x 12 GA. GALV. (HG) FRAMING

CHANNELS, UNPUNCHED (LENGTH AS REQUIRED).

WITH I/4" DIA. x 2 I/2" LG. LAG BOLTS. TWO

ATTACH ENCLOSURE TO "FRAMING" CHANNEL

LOCKWASHERS AND HEX NUTS, ONE AT

TYPICAL. BOLT CHANNEL TO WALL STRUCTURE

- ATTACH ENCLOSURE TO "FRAMING" CHANNEL

LOCKWASHERS AND HEX NUTS, ONE AT

PROVIDE INTERMEDIATE STUD

--- EXISTING BUILDING STRUCTURE STUDS.

-1 5/8" SQ. x 12 GA. GALV. (HG) FRAMING

CHANNELS, UNPUNCHED (LENGTH AS REQUIRED),

WITH 1/4" DIA. x 2 1/2" LG. LAG BOLTS. TWO

TYPICAL. BOLT CHANNEL TO WALL STRUCTURE

VOLTAGE DROP CALCULATIONS (OHM'S LAW)
VOLTAGE DROP = 2 $\left(\begin{array}{c} DC \text{ RESISTANCE AT 75°C} \\ FROM TABLE 8 C.E.C. \end{array}\right) \left(\begin{array}{c} LENGTH OF CIRCUIT \\ IOOO \end{array}\right) \left(\begin{array}{c} CURRENT \\ \end{array}\right)$
PERCENT VOLTAGE DROP = VOLTAGE DROP NOMINAL VOLTAGE × 100
I. NOTIFICATION APPLIANCE CIRCUIT "NP1":
SP : 6 x 0.088A = 0.528A
VOLTAGE DROP = 2 (1.98) $\left(\frac{230'}{1000'}\right)$ (0.528) = 0.481 V.D.
PERCENT VOLTAGE DROP = $\frac{0.481}{24}$ × 100 = 2.00%
2. NOTIFICATION APPLIANCE CIRCUIT "NP2":
SP : 2 × 0.088A = 0.176A
VOLTAGE DROP = 2 (1.98) $\left(\frac{285'}{1000}\right)$ (0.176) = 0.199 V.D.
PERCENT VOLTAGE DROP = $\frac{0.199}{24}$ × 100 = 0.83%

SCOPE OF WORK

- PROVIDE A NEW AUTOMATIC FIRE ALARM SYSTEM WITH SUPPLEMENTAL MANUAL FIRE DETECTION.
- PROVIDE A FIRE ALARM CONTROL PANEL, FIRE ALARM POWER EXPANDER PANEL. ADDRESSABLE INITIATION DEVICES, NOTIFICATION APPLIANCES, CONDUIT, CABLING AND CONDUCTORS AS SHOWN ON THE DRAWINGS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 160 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING FIRE AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM "CERTIFICATE OF COMPLETION" FORM IN NFPA 72 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3.

GENERAL NOTES:

- SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR REGISTERS.
- 2. FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 12 FIGURE 1.8.2(q) AND READ OUT VERIFICATION FORM FROM CENTER STATION.
- 3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS.
- 4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15 dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dBA AT 10' OR MORE THAN 110 dBA IN TOTAL. <u>THROUGHOUT!</u> (NFPA 72 18.4.1, C.F.C. 907.5.21.1 AND C.F.C. 907.5.2.1.2).
- AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN. CODE 3. EXCEPT WHEN ISSUING A VOICE MESSAGE.
- 6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND (NFPA 72 18.5.3.1).

PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER. FILE NUMBER AND DATE OF APPROVAL AT NEW FIRE ALARM CONTROL PANEL AND AT NEW FIRE ALARM POWER EXPANDER PANEL.

A. THE PRIMARY POWER SUPPLY TO THE NEW FIRE ALARM CONTROL PANEL "F.A.C.P." AND THE NEW FIRE ALARM POWER EXPANDER PANEL "P.E.P." SHALL

BE IN ACCORDANCE WITH NFPA 72 10.6.5.1, 10.6.5.2 AND AS FOLLOWS:

- a) THE CIRCUIT BREAKER FEEDING THE RESPECTIVE PANEL SHALL BE LOCATED IN A LOCKED ROOM OR BEHIND A LOCKABLE DOOR AND BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY. PAINT HANDLE RED IN COLOR.
- b) THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH A LOCK-ON ACCESSORY. PAINT ACCESSORY RED IN COLOR.
- c) THE CIRCUIT BREAKER SHALL HAVE AN ENGRAVED NAMEPLATE THAT IDENTIFIES IT AS A "FIRE ALARM CIRCUIT". THIS ENGRAVED NAMEPLATE SHALL HAVE WHITE LETTERS ON A RED BACKGROUND. MOUNT ONTO THE INTERIOR TRIM AND LOCATE ADJACENT TO CIRCUIT BREAKER WHERE POSSIBLE.
- d) THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL "F.A.C.P." AND AT THE FIRE ALARM POWER EXPANDER PANEL "P.E.P.". PROVIDE AN ENGRAVED NAMEPLATE (WHITE LETTERS ON A RED BACKGROUND) WHICH INDICATES THIS.

THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY CONFORMANCE WITH THE ABOVEMENTIONED REQUIREMENTS AND PROVIDE ANY ACCESSORIES/ NAMEPLATES AS REQUIRED.

- B. ALL ENGRAVED NAMEPLATES SHALL BE ATTACHED TO THE FRONT OF THE
- PROVIDE A COPY OF THE BATTERY CALCULATION AT THE NEW FIRE ALARM CONTROL PANEL AND A COPY OF THE BATTERY CALCULATION AT NEW FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.

RESPECTIVE ENCLOSURE WITH SCREWS OR RIVETS.

- MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION. NFPA 72 18.5.5.4.2(3).
- IO. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.8).

SYSTEM EQUIP., NOTES AND BATTERY CALCS

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6. AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

MARK REVISIONS DATE

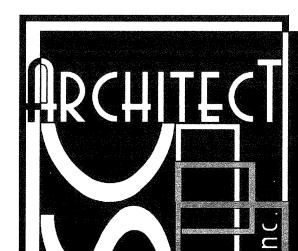
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

> MODULA| STREET ARY FEMEN (4) (4) (4) (4) (4) (4) OR.

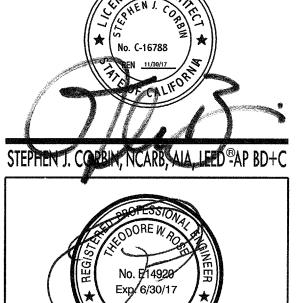
5

IDENTIFICATION STAMP OFFICE OF REGULATION SERVICES APPL: 03-116978 FILE: 15-6 AC __ FLS ____ SS PCC DATE: NAK 0 3 2016

PTN: 63321-206



1601 NEW STINE ROAD, SUITE 280 BAKERSFIELD, CA 93309 PH: (661) 397-4377 FAX: (661) 397-4378 WWW.SCARCHITECT.COM





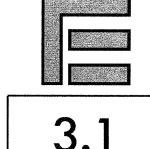
FIRE ALARM

JOB NO. DRAWN: CS

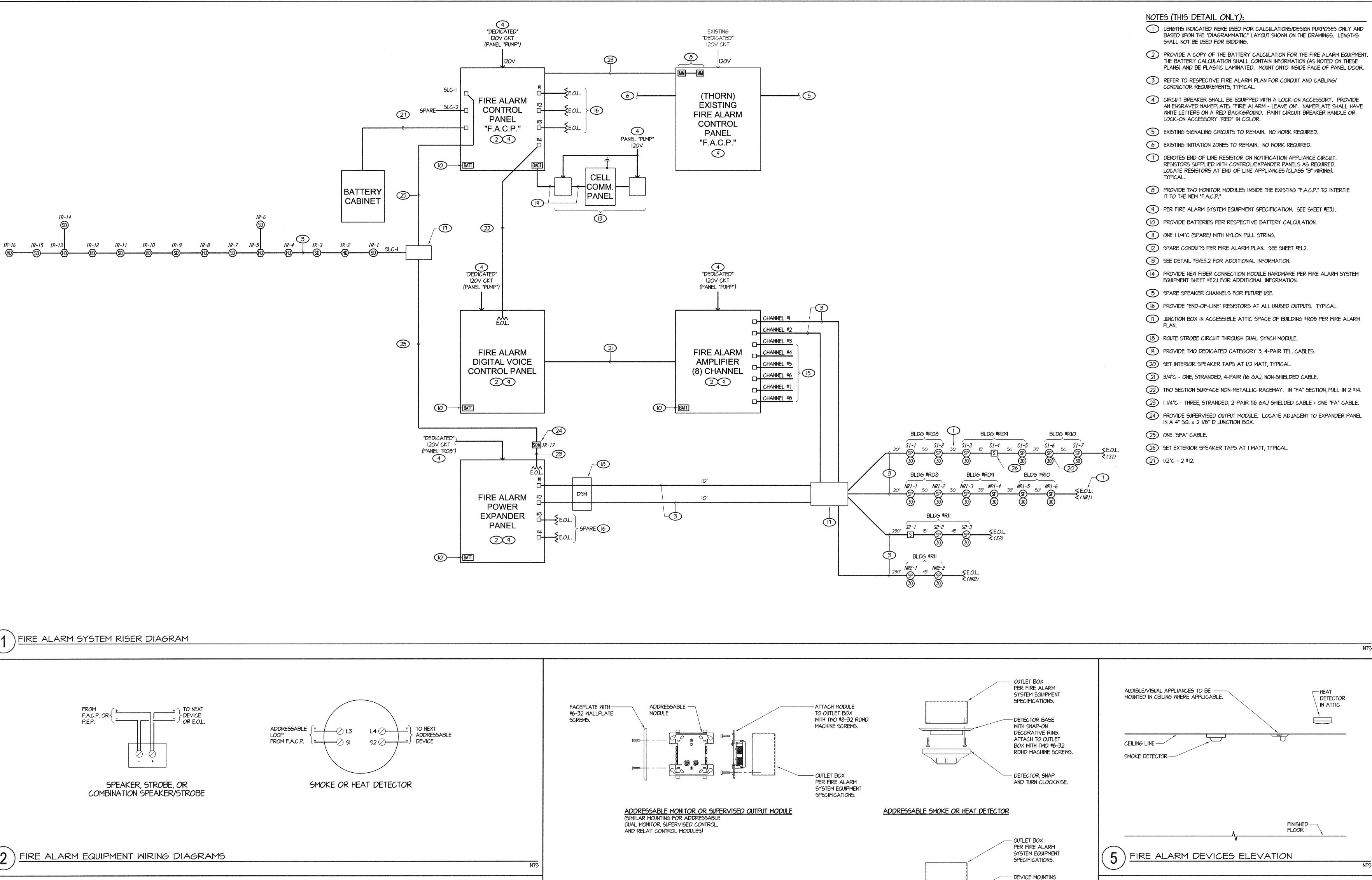
CHECKED:

04-26-16

DATE:



OF . SHEETS



DEVICE MOUNTING

- HONEYWELL #IPGSM-4G

120V BRANCH CIRCUIT-

PER RESPECTIVE FIRE

ALARM PLAN.

└─1/2"C - 2 #14.

- WALL OUTLET BOX,

SUPPLIED WITH FIRE ALARM

MOUNT DUPLEX RECEPTACLE

PLUG-IN AC TRANSFORMER

COMMUNICATOR PANEL.

SUPPLIED WITH FIRE ALARM

COMMUNICATOR PANEL.

- 4 II/16" SQ. x 2 I/8" DP.

OUTLET BOX EQUIPPED

WITH A BLANK COVER.

3/4"C - I #12 GND, PLUS

FIRE ALARM COMMUNICATOR PANEL WIRING DIAGRAM

TWO CAT. 3, 4 PR.

TELEPHONE CABLES.

INTERNET AND **DIGITAL CELLULAR**

FIRE ALARM COMMUNICATOR

PANEL

RUN 1/2"C - 1 #12 GND TO-

RESPECTIVE SUB-PANEL

RECEPTACLE FOR THE PLUG-IN AC TRANSFORMER.

WHICH FEEDS THE DUPLEX

RUN 3/4"C - TWO CAT. 3, - $\sqrt{}$

4 PR. TELEPHONE CABLES

THE FIRE ALARM CONTROL

PANEL "F.A.C.P."

TO THE INTERNAL D.A.C.T. AT

PLATE. ATTACH TO

BACKBOX WITH FOUR

#6-32 x 3/8" LG. PAN

HEAD SCREWS.

EXTERIOR -

SPEAKER

SCREW

SECURITY MOUNTING-

EXTERIOR SPEAKER

FIRE ALARM DEVICE MOUNTING

(WITH SURFACE WEATHERPROOF BACKBOX)

SURFACE WEATHERPROOF

FIRE ALARM SYSTEM RISER COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION. THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM

PLATE. ATTACH TO

OUTLET BOX WITH

TWO #8-32 RDHD

MACHINE SCREWS.

SPEAKER/STROBE.

ALIGN ATTACHMENT

TABS AND SNAP

MOUNTING PLATE.

- SECURITY MOUNTING

ONTO DEVICE

SCREW

CEILING SPEAKER/STROBE

SURFACE

WEATHERPROOF

TO OUTLET BOX

MACHINE SCREWS.

PER FIRE ALARM

SPECIFICATIONS.

SYSTEM EQUIPMENT

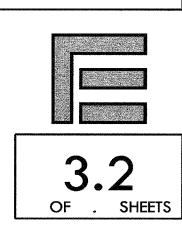
OUTLET BOX

BACKBOX. ATTACH

WITH TWO #8-32 RDHD

JOB NO. DRAWN: CS CHECKED:

04-26-16



MARK DATE REVISIONS

CHECK AND VERIFY ALL DIMENSIONS

BEFORE PROCEEDING WITH THE WORK, REPORT DISCREPANCIES

CONSTRUCTION SHALL CONFORM

IDENTIFICATION STAMP

OFFICE OF REGULATION SERVICES APPL: 03-116978

AC - FLS W SS FRC

PTN: 63321-206

1601 NEW STINE ROAD, SUITE 280 BAKERSFIELD, CA 93309

PH: (661) 397-4377 FAX: (661) 397-4378

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Rose Sing and Associates, Inc.

Electrical Consultants

131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705

FILE: 15-6

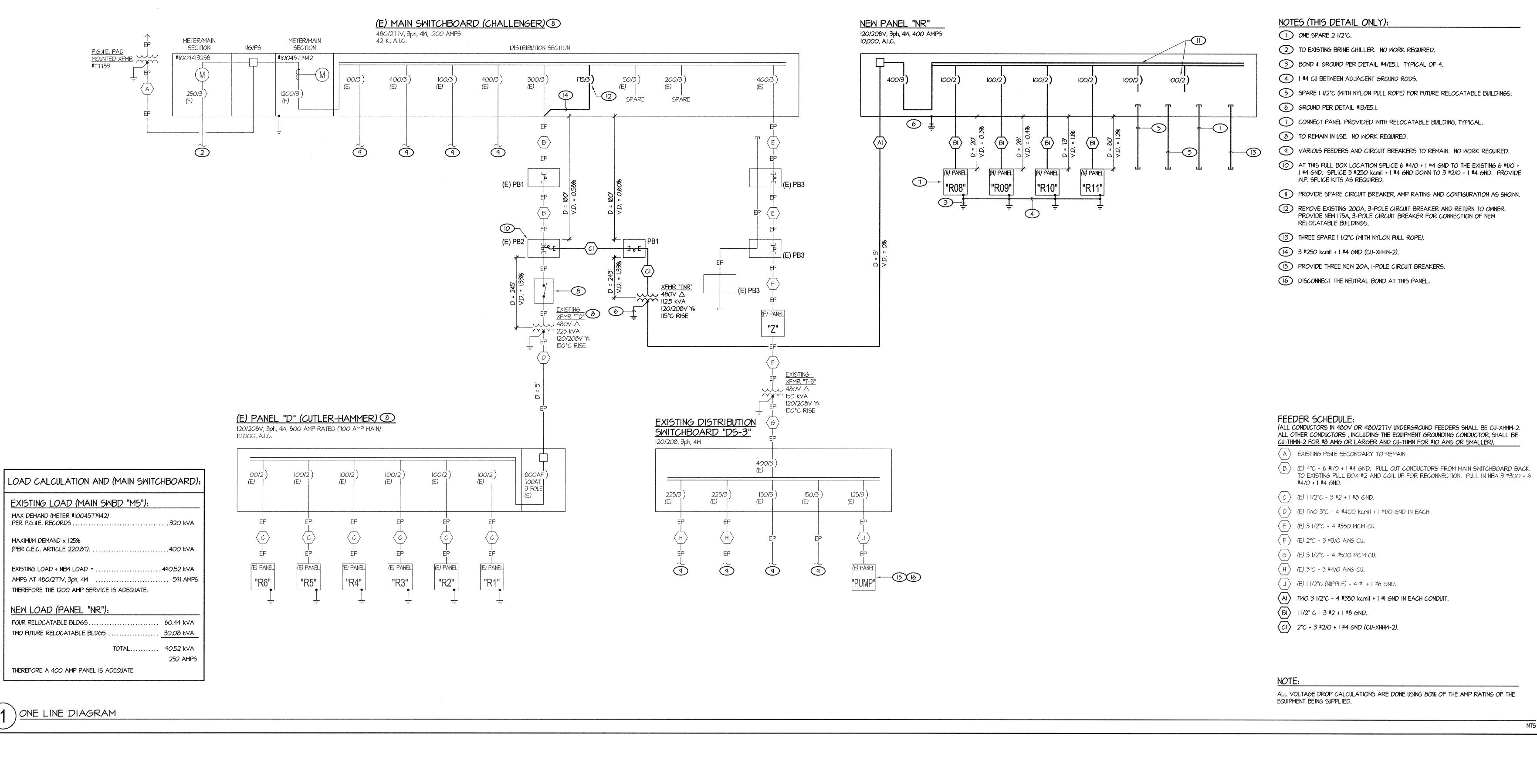
DATE: MAY 0 3 2016

TO THE ARCHITECT. ALL

TO THE C.B.C.

AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

DS DATE:



3	100 30	A. CIR		<u>400</u> A.	MAIN BKR.		_ "NR"	6 1/4 POST	DO MA	X. ENCL. MO	DEPT	Н
<u>C</u> R.	: 1	ФΑ	LOAD V.A		DESCRIPTION		DESCRIPTION	ФС	LOAD V Ι ΦΒ	′.А. I ФА	KR.	SR.
	yO ₂	7660			RELOC. BLDG. "ROS"	Ħ	RELOC. BLDG. "RII"			7660	9/2	2
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TOTAL LOAD: PA: 22,700 V.A. PB: 22,700 V.A. PC: 15,040 V.A.

— V.A. — V.A. — V.A. — V.A. 22,700 V.A. 15,040 V.A.

125 16		BUSSING CUIT	<u>NO</u> A.	MAIN BKR. (E) PANE	EL "P	UMP"	3 3/4 SURF.	MA	BREAKEI X. ENCL. MC PF	DEPT	Ή
宗	ФΑ	LOAD V./ ØB	4. ΦC	DESCRIPTION	DESCRI	PTION	ФС	LOAD V ØB	′.Α. ΦΑ	BKR.	(1)
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5 /			3100	*			1080				1
7 291	1080			RECEPT - IMC					900		1
9		1260			÷			720			
11 29			-	SPARE			900				1
13	500			FIRE ALARM DIGITAL VOICE PANEL	RECEPT	- DACT XFMR			180	291	1
15		500		FIRE ALARM AMPLIFIER PANEL	FIRE ALARM CONTROL PANEL			500			1

55 A 55 A 43 A

PANEL SCHEDULE NOTES:

(I) PROVIDE NEW CIRCUIT BREAKER, AMP RATING AS SHOWN.

MARK DATE REVISIONS

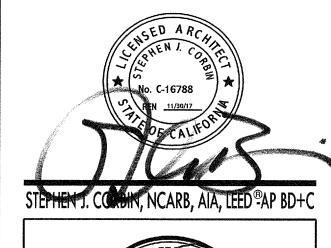
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL

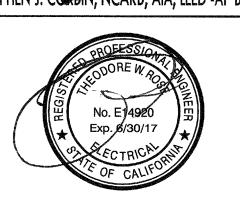
CONSTRUCTION SHALL CONFORM TO THE C.B.C.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL: 03-116978 FILE: 15-6 PTN: 63321-206



1601 NEW STINE ROAD, SUITE 280 BAKERSFIELD, CA 93309 PH: (661) 397-4377 FAX: (661) 397-4378 WWW.SCARCHITECT.COM





Rose Sing and Associates, Inc.
Electrical Consultants 131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705

ONE LINE DIAGRAM AND PANEL SCHEDULE

DRAWN: CS CHECKED : DS DATE:

04-26-16

