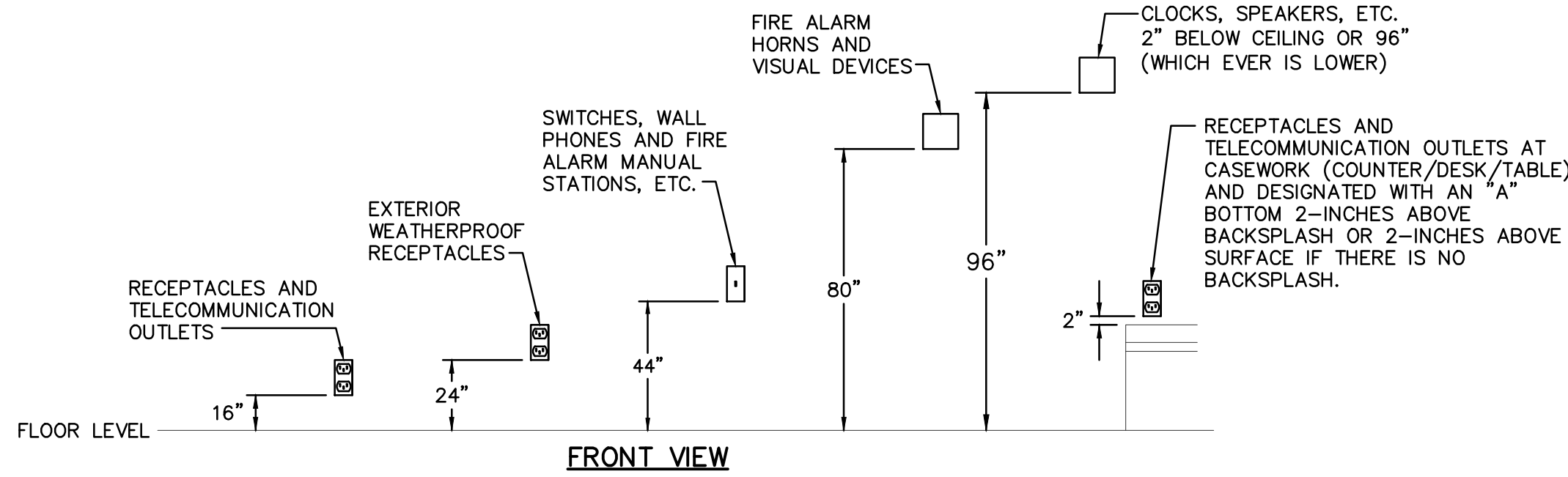


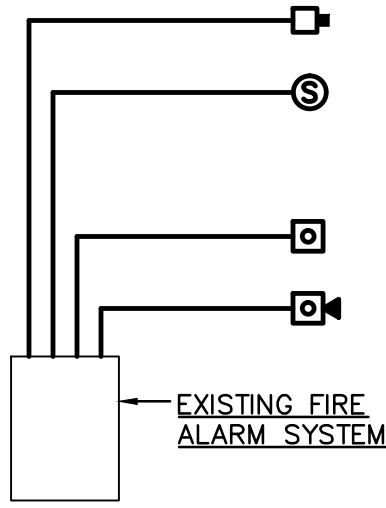
ELECTRICAL SYMBOLS LEGEND					
SWITCHES		FIRE ALARM		MISCELLANEOUS	
S ₀	SINGLE POLE SWITCH, LETTER INDICATES SWITCH LEG, 'K' INDICATES KEY TYPE, 'P' INDICATES PILOT	○	COMBINATION HEAT DETECTOR		HOME RUN TO PANEL
S ₂	DOUBLE POLE SWITCH	⊙	FIXED TEMP. HEAT DETECTOR		ELECTRICAL CIRCUIT
S ₃	THREE-WAY SWITCH	F	FIRE ALARM MANUAL STATION		UNSWITCHED LIGHTING CIRCUIT
S ₄	FOUR WAY SWITCH	⊞	FIRE ALARM COMBINATION VOICE EVACUATION/VISUAL		EMERGENCY CIRCUIT
S _D	DIMMER SWITCH	⊞	FIRE ALARM VISUAL SIGNAL		SYMBOLS SHOWN "STACKED" ON THE FLOOR PLANS INDICATE THAT THE DEVICES ARE TO BE LOCATED IN THE SAME OUTLET BOX AND FACEPLATE.
S _H	HORSEPOWER RATED SWITCH	S	SMOKE DETECTOR	01 / E1.1	PARTIAL PLAN IDENTIFICATION TAG SHEET NUMBER DRAWING NUMBER / ROOM NUMBER
LIGHTING		⊞	MAGNETIC DOOR HOLDER		GENERAL ELECTRICAL KEYNOTE - SEE CORRESPONDING NOTES
	FLUORESCENT CEILING LUMINAIRE	TELECOMMUNICATION			MECHANICAL EQUIPMENT WITH ELECTRICAL CONNECTION, SEE MECHANICAL / ELECTRICAL COORDINATION SCHEDULE
	EMERGENCY FLUORESCENT CEILING LUMINAIRE	◀W	TELEPHONE OUTLET - WALL MOUNTED		PROXIMITY CARD READER, ROUGH-IN
	FLUORESCENT WALL MOUNTED LUMINAIRE	◀1	TELEPHONE OUTLET		
○	CEILING LUMINAIRE	◀2	DATA OUTLET		
●	EMERGENCY CEILING LUMINAIRE	◀1	T.V. OUTLET		
⊙	WALL MOUNTED LUMINAIRE	2"	CONDUIT SLEEVES STUBBED BETWEEN LOCATIONS INDICATED. SIZE AS NOTED ON DRAWINGS		
⊙	EXIT LIGHT LUMINAIRE	ABBREVIATIONS			
⊙	EXIT LIGHT LUMINAIRE - WALL MOUNTED	[30A3]	BRANCH CIRCUIT FEEDER SIZE. PROVIDE CIRCUIT AS INDICATED IN SCHEDULE. DO NOT COMBINE WITH OTHER CIRCUITS IN THE SAME CONDUIT.		
POWER		F.A.C.P.	FIRE ALARM CONTROL PANEL		
	DUPLEX RECEPTACLE	H.O.A.	HAND-OFF-AUTO		
	FOUR-PLEX RECEPTACLE - TWO DUPLEX RECEPTACLES	NF	NON-FUSED		
	SPECIAL RECEPTACLE	30/3/10/3R	RATED AMPACITY/NO. POLES/FUSING REQ'D/NEMA ENCL. NO.		
	LIGHTING & APPLIANCE PANELBOARD	DEVICE SUBSCRIPTS			
	CABINET, TYPE INDICATED	WP	WEATHER-PROOF		
	SAFETY SWITCH	C	CEILING MOUNTED		
	MOTOR	G	GROUND-FAULT - CIRCUIT INTERRUPTER DEVICE		
	JUNCTION BOX	A	DEVICE INDICATED ABOVE DESK/TABLE/COUNTER. COORDINATE HEIGHT WITH OWNER/ARCHITECT.		



NOTES:
THE MOUNTING HEIGHT SCHEDULE IS INCLUDED TO ASSIST THE CONTRACTOR IN ESTIMATING. HEIGHTS LISTED ARE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL DEVICE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND ELEVATIONS. EXACT HEIGHTS SHALL BE OBTAINED FROM THE PROJECT SUPERINTENDENT AT THE TIME OF INSTALLATION.

1 TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHT

NOT TO SCALE



2 FIRE ALARM SYSTEM

NOT TO SCALE

FIRE ALARM SYSTEM NOTES

FIRE ALARM SYSTEM SHALL CONSIST OF (BUT NOT LIMITED TO) THE FOLLOWING DEVICES.

- VISUAL, COMBINATION VISUAL/AUDIO SIGNAL - INTENSITY TO MEET ADA REQUIREMENTS
- SMOKE DETECTOR - PHOTOELECTRIC TYPE

CONTRACTOR SHALL MODIFY THE EXISTING FIRE ALARM SYSTEM TO ACCOMMODATE NEW DEVICES SHOWN.

CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, ETC. FOR A COMPLETE AND OPERATING SYSTEM.

NEW DEVICES SHALL BE PROVIDED TO MAINTAIN ALL EXISTING SYSTEM FEATURES.

CONTRACTOR SHALL FULLY TEST THE SYSTEM. MODIFY EXISTING BATTERIES AS REQUIRED TO ACCOMMODATE NEW DEVICES.

CONNECT MAGNETIC DOOR HOLDERS TO FIRE ALARM SYSTEM

PROVIDE CABLE PER MANUFACTURERS REQUIREMENTS. ALL CABLING SHALL BE

INSTALLED IN CONDUIT.

SUBMIT SHOP DRAWINGS FOR SYSTEM INCLUDING PRODUCT DATA, RISER DIAGRAMS, BATTERY CALCULATIONS AND LAYOUT DRAWINGS.

SYSTEM EQUIPMENT SHALL BE PROVIDED BY SIMPLEX - TO BE COMPATIBLE WITH THE EXISTING SIMPLEX 4120-8201 SYSTEM.

GENERAL ELECTRICAL NOTES

- ALL CONDUITS IN NEW WALLS, EXISTING STUD WALLS, OR IN AREAS WITH SUSPENDED CEILINGS SHALL BE INSTALLED CONCEALED.
- BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING FOR DEVICES ON EXISTING WALLS OR EXPOSED CEILINGS WHERE RACEWAY CANNOT BE CONCEALED SHALL BE INSTALLED IN SURFACE METAL RACEWAY.
- ALL EXPOSED RACEWAY IN ROOMS TO BE PAINTED SHALL BE PAINTED TO MATCH SURROUNDING SURFACE. COORDINATE COLOR WITH ARCHITECT. ALL EXPOSED RACEWAY AND FITTINGS IN ROOMS WHICH ARE NOT TO BE PAINTED SHALL BE WIREMOLD #V500 OR #V700 OR #V2400 SERIES WITH FACTORY IVORY FINISH. RACEWAY SUPPORT CLIPS SHALL BE V5703 SERIES.
- SURFACE RACEWAY FOR TV CABLE SHALL NOT BE SMALLER THAN WIREMOLD #V700.
- SURFACE RACEWAY FOR TELECOMMUNICATION CABLE SHALL NOT BE SMALLER THAN WIREMOLD #V2400. PROVIDE COMPATIBLE 2 GANG EXTRA DEEP DEVICE BOX. ALL FITTINGS FOR TELECOMMUNICATION RACEWAYS SHALL COMPLY WITH EIA STANDARDS FOR BEND RADIUS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILINGS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF ELECTRICAL WORK.
- REFER TO MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE AND SMOKE DAMPERS INCLUDING POWER, FIRE ALARM, ETC. VERIFY EXACT LOCATION AND QUANTITY OF DAMPERS WITH MECHANICAL DRAWINGS.
- LABELING FOR PANELBOARD DIRECTORIES, FIRE ALARM PANEL PROGRAMMING, ETC. SHALL USE ROOM NUMBERS ASSIGNED BY OWNER AND NOT ROOM NUMBERS LISTED ON DRAWINGS. LABELS ON PANELBOARD DIRECTORY SHALL INCLUDE A DESCRIPTION OF LOAD SUCH AS LIGHTS, RECEPTACLES, MECHANICAL UNIT LOCATIONS, ETC.
- KEYNOTES FOR OCCUPANCY SENSORS SHOWN ON THE DRAWINGS INDICATE ONLY THE ROOM/AREA TO BE CONTROLLED BY THE SENSORS. PROVIDE SENSORS AND RELATED EQUIPMENT AS REQUIRED FOR COMPLETE COVERAGE AND SWITCHING ARRANGEMENTS AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- MULTIWIRE BRANCH CIRCUITS AS DEFINED BY THE NATIONAL ELECTRICAL CODE (CIRCUITS WITH COMMON NEUTRAL) SHALL NOT BE USED. EXCEPTION: WHERE AN EQUIPMENT MANUFACTURER REQUIRES A MULTIWIRE BRANCH CIRCUIT FOR ONLY ONE UTILIZATION EQUIPMENT AND WHERE ALL UNGROUNDED CONDUCTORS OF THAT CIRCUIT ARE OPENED SIMULTANEOUSLY BY THE BRANCH CIRCUIT OVERCURRENT DEVICE.
- THE SPECIFICATIONS LIST ACCEPTABLE WIRING METHODS AND MATERIALS. OTHER WIRING METHODS AND MATERIALS NOT LISTED IN THE SPECIFICATIONS (SUCH AS MC CABLE, ETC.) ARE NOT ACCEPTABLE.
- ALL POWER/DATA LOCATIONS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.

GENERAL ELECTRICAL KEYNOTES

- PROVIDE OCCUPANCY SENSOR CONTROL OF THE LIGHTING IN ROOM/AREA WITH THIS KEYNOTE UNLESS OTHERWISE NOTED. THIS AUTOMATIC CONTROL SHALL BE IN ADDITION TO AND CONNECTED ON THE LINE SIDE OF MANUAL CONTROL SHOWN. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- NOT USED.
- CONNECT TO EXISTING UNSWITCHED LIFE SAFETY (EMERGENCY) LIGHTING CIRCUIT SERVING AREA.
- NOT USED.
- CONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT SERVING AREA.
- NOT USED.
- NOT USED.
- PROVIDE 20/1 CIRCUIT BREAKER IN PANEL NOTED AND CONNECT CIRCUIT INDICATED.

LUMINAIRE SCHEDULE

MARK	MANUFACTURER (OR APPROVED EQUAL)	CATALOG NO.	LAMPS		FINISH	DESCRIPTION	REMARKS	ACCEPTABLE MANUFACTURERS
			QTY	TYPE				
BA	WILLIAMS	12-4-332-RA12125-EB3	2	F032/841 T-8	WHITE	2X4' SURFACE MOUNT		REMARK 1
F	PRESCOLITE	CF7632HEB-STF602H-LP32T41L	1	CF7R32W	CLEAR ALZAK	6" RECESSED CAN LIGHT - FLUORESCENT		REMARK 4
G	GOTHAM	ALED041144AR		LED	SEMI-SPECULAR	4" RECESSED CAN LIGHT - LED		REMARK 4
H	PRUDENTIAL	PT8W-SS-2T804-SC	2	F032/841 T-8	WHITE	4" STAGGER STRIP		
HA	PRUDENTIAL	PT8W-SS-TEL-2T804-SC	2	F032/841 T-8	WHITE	4" STAGGER STRIP - TELESOPING		
M	WINONA	5622-C-48F	2	F028/841 T-5	WHITE	BARMOUNT WALL MOUNT UP/DOWN DISTRIBUTION	5	SPI LIGHTING
X1	DUAL-LITE	SESRW		LED	WHITE	EXIT LIGHT	3	REMARK 2

REMARKS:

SEE SPECIFICATIONS 16511 FOR ADDITIONAL REQUIREMENTS FOR LUMINAIRES, LAMPS AND BALLASTS.

- COLUMBIA, DAY-BRITE, LITHONIA, LIGHTOLIER AND METALUX ARE ACCEPTABLE MANUFACTURERS FOR FIXTURE TYPE INDICATED.
- LIGHTALARMS, CHLORIDE, DUAL-LITE, EMERGI-LITE, HUBBELL, INFINITY, LITHONIA, MCPHILBEN AND SURE-LITES ARE ACCEPTABLE MANUFACTURERS FOR FIXTURE TYPE INDICATED.
- REFER TO DRAWINGS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE FIXTURES ACCORDINGLY. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- GOTHAM, LIGHTOLIER, OMEGA, PORTFOLIO, PATHWAY COVENTRY AND INFINITY WITH -YM OPTION ARE ACCEPTABLE MANUFACTURERS FOR FIXTURE TYPE INDICATED.
- WALL MOUNT ABOVE MIRROR, SEE ARCHITECTURAL DRAWINGS. LUMINAIRE SHALL BE APPROVED FOR HORIZONTAL MOUNTING.

MECHANICAL / ELECTRICAL COORDINATION SCHEDULE

ABBREVIATIONS:														
FLA	FULL LOAD AMPS	C	COMBINATION STARTER AND SAFETY SWITCH			ZS	TWO SPEED			N1	NEMA 1			
HP	HORSEPOWER					3S	THREE SPEED			N3R	NEMA 3R			
KW	KILOWATTS	CB	CIRCUIT BREAKER			FV	FULL VOLTAGE			N4X	NEMA 4X			
PH	PHASE	SH	HP RATED SWITCH			NR	NON-REVERSING							
V	VOLTAGE	SS	SAFETY SWITCH			RE	REVERSING							
E	ELECTRICAL CONTRACTOR	MR	PER MANUFACTURER'S RECOMMENDATIONS			RV	REDUCED VOLTAGE							
I	INTEGRAL WITH EQUIPMENT					VFC	VARIABLE FREQUENCY							
M	MECHANICAL CONTRACTOR	NF	NON-FUSED											
EQUIPMENT			ELECTRICAL SYSTEM			DISCONNECT				CONTROLLER			REMARKS	
ID	DESCRIPTION	LOAD	V	PH	PANEL - CIRCUIT	FURNISH/ INSTALL BY	TYPE	RATING (AMPS)	FUSE SIZE	ENCL.	FURNISH/ INSTALL BY	TYPE/ NEMA SIZE		ENCL.
EF-3.1	INLINE CABINET EXHAUST FAN	3.1 A	120	1	SEE DRAWINGS	E/E	SH	15	MR	N1	M/M	-	-	
EF-3.2	INLINE CABINET EXHAUST FAN	3.1 A	120	1	SEE DRAWINGS	E/E	SH	15	MR	N1	M/M	-	-	
EW-1.1	ELECTRIC WATER COOLER	-	120	1	-	-	-	-	-	-	-	-	-	1
FC-2.14	FAN COIL UNIT	1.4 FLA	120	1	SEE DRAWINGS	E/E	SH	15	MR	N1	M/M	-	-	
FC-2.15	FAN COIL UNIT	1.4 FLA	120	1	SEE DRAWINGS	E/E	SH	15	MR	N1	M/M	-	-	

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY/COORDINATE ALL RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS REQUIRED FOR SPECIFIED UNIT, DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR ALL COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED EQUIPMENT.
- ALL FRACTIONAL HORSEPOWER MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION.
- HORSEPOWER RATED SWITCHES (SH): FOR 120 V MOTORS LESS THAN 1/2 HP, PROVIDE FUSEHOLDER WITH SWITCH, FUSED PER MANUFACTURER'S RECOMMENDATION AND NEC REQUIREMENTS. FOR 208 VOLT 1-PHASE MOTORS LESS THAN 3/4 HP PROVIDE FUSE HOLDER WITH DOUBLE-POLE SWITCH THAT OPENS BOTH CONDUCTORS OF THE CIRCUIT. RATING OF FUSES SHALL NOT EXCEED 15 AMPS. FOR 120 V MOTORS RATED 1/2 HP OR 3/4 HP, PROVIDE HP RATED TOGGLE SWITCH (WHERE BRANCH CIRCUIT OVERCURRENT DEVICE MEETS NEC REQUIREMENTS FOR SHORT-CIRCUIT PROTECTION) OR FUSED SAFETY SWITCH.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED.

REMARKS:

- CORD AND PLUG CONNECTED.