

GENERAL NOTES

ALL LIGHTING SWITCH LEGS SHALL USE A DEDICATED NEUTRAL WIRE.

EC SHALL LABEL ALL J-BOXES, RECEPTACLES,AND LIGHTING FIXTURES WITH PANEL AND CIRCUIT NUMBERS, USING DYNO TAGS.

EC SHALL PROVIDE STAINLESS STEEL COVER PLATES FOR ALL OUTLETS AND SWITCH PLATES

ALL CONDUIT SHALL RUN PARALLEL TO BUILDING STRUCTURE.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE RULES, REGULATIONS AND CODES OF THE STATE OF COLORADO AND THE LOCAL JURISDICTIONAL AUTHORITY NEC 2008.

THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER BUILDING TRADES TO ENSURE PROPER INSTALLATION OF SYSTEMS SHOWN ON THESE DOCUMENTS.

THIS CONTRACTOR SHALL REVIEW EXISTING FIELD CONDITIONS PRIOR TO THE PURCHASE, FABRICATION AND INSTALLATION OF ANY EQUIPMENT, DUCTWORK, PIPING, ETC., AND SHALL INFORM THE ARCHITECT OR GENERAL CONTRACTOR OF ANY DISCREPANCIES FOR RESOLUTION. SEE SPECIFICATION SECTION 15010 FOR MORE REQUIREMENTS.

THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT SHOW EVERY DUCTWORK AND PIPING OFFSET REQUIRED. THIS CONTRACTOR SHALL COORDINATE WITH THE EXISTING, AND OR NEW, STRUCTURE, ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND CEILING TO PROVIDE OFFSETS AS REQUIRED AND APPROPRIATE. DO NOT SCALE DRAWINGS.

SOME OF THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM. ALL MATERIALS SHALL CONFORM TO NFPA 90A FOR FIRE AND SMOKE RATINGS.

THIS CONTRACTOR SHALL PROVIDE ACCESS TO ALL EQUIPMENT, BOXES, ETC., ABOVE ALL NON-LAYIN CEILINGS AND IN OTHER CONCEALED SPACES FOR SERVICING AND MAINTENANCE.

ALL EXPOSED WIRING TO BE IN EMT CONDUIT. WIRING ABOVE LAY IN CEILINGS SHALL BE IN EMT OR MC TYPE CONDUIT. EXPOSED RACEWAYS IN APPARATUS BAY WITHIN 12' OF FLOOR TO BE RIGID CONDUIT

THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SPATIAL REQUIREMENTS, ACOUSTICAL, THERMAL, AND ELECTRICAL PERFORMANCE CHARACTERISTICS AND COORDINATION OF ALL INSTALLATION REQUIREMENTS FOR EQUIPMENT SUBSTITUTIONS FROM THAT DEFINED AS THE BASIS FOR DESIGN. REVIEW AND APPROVAL BY THE DESIGN TEAM DOES NOT ALTER OR MITIGATE THIS RESPONSIBILITY.

THIS CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME ACQUAINTED WITH EXISTING CONDITIONS. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY FOR PERFORMING THE WORK PROPERLY.

MAINTAIN ALL REQUIRED SERVICE AND ACCESS CLEARANCES REQUIRED BY CODE OR THE MANUFACTURER FOR ALL NEW AND EXISTING EQUIPMENT.

ELECTRICAL LEGEND

LOW VOLTAGE SYSTEMS

- TELEPHONE OUTLET IN FLOOR OR WALL
- COMPUTER/DATA OUTLET IN FLOOR OR WALL

TELEPHONE BACKBOARD

- OCCUPANCY SENSOR
- LINE VOLTAGE THERMOSTAT AT 60° UNLESS NOTED
- VIDEO INTERCOM/ DOOR ENTRY UNIT. T.V. MONITOR.
- FIRE ALARM PANEL
- INTERCOM OUTLET.
- FIRE TELEPHONE OUTLET.
- CABLE TV OUTLET.
- PUBLIC ADDRESS SPEAKER.
- AERIAL – UHF/ VHF TV.
- VOICE ALARM.
- PUBLIC ADDRESS VOICE SWITCH. (MUTE)
- AMPLIFIER.
- EMERGENCY CALL BUTTON.

SECURITY SYSTEMS

- SECURITY – DOOR CONTACT.
- SECURITY – SHUNT KEY SWITCH.
- SECURITY – KICK BAR.
- SECURITY – WATCHMAN TOUR STATION.
- SECURITY – PANIC/ RAID ATTACK SWITCH.
- SECURITY – ELECTRICALLY OPERATED LOCK.
- SECURITY – MANUAL LOCK.
- SECURITY – PASSIVE INFRARED DETECTOR.
- SECURITY – PASSIVE INFRARED DETECTOR 360°.
- SECURITY – CARD/ DIGITAL ACCESS CONTROL UNIT.
- SECURITY – KEYPAD ACCESS CONTROL UNIT.
- SECURITY – VIBRATION DETECTOR.
- SECURITY – PERSONNEL ATTACK.
- SECURITY – BREAK GLASS DETECTION.
- SECURITY – EMERGENCY DOOR RELEASE BREAK GLASS UNIT & REQUEST TO EXIT PUSH.
- SECURITY – CCTV CAMERA.
- GLOBE TYPE CCTV CAMERA.
- DOOR RELEASE BUTTON.
- AUDIO VISUAL.
- SECURITY AREA CONTROL PANEL.

FIRE ALARM SYSTEM

- ANNUNCIATOR
- CHIME/STROBE
- FACP FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM PULL STATION
- ALARM HORN OR SPEAKER
- COMBINATION HORN/STROBE OR SPEAKER/STROBE
- THERMAL HEAT DETECTOR
- SMOKE/IONIZATION DETECTOR
- PHOTOELECTRIC SMOKE DETECTOR
- HEAT/PHOTOELECTRIC SMOKE DETECTOR
- DUCT DETECTOR
- SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER SYSTEM TAMPER SWITCH
- STROBE
- SMOKE/FIRE DAMPER CONNECTION
- REMOTE INDICATOR LIGHT
- SMOKE/FIRE DAMPER

ELECTRICAL CONTROL

- PUSHBUTTON CONTROL STATION
- PHOTOELECTRIC CELL
- PHOTOELECTRIC CELL
- TIME SWITCH
- TIME CLOCK
- LIGHTING CONTACTOR. VOLTAGE TRANSFORMER.
- P.S. DENOTES COIL RATIO.
- MEASUREMENT CURRENT TRANSFORMER.
- P.S. DENOTES COIL RATIO.
- PROTECTION CURRENT TRANSFORMER.
- P.S. DENOTES COIL RATIO.
- OVER CURRENT PROTECTION RELAY.
- EARTH FAULT PROTECTION RELAY.
- UNDER VOLTAGE PROTECTION RELAY.
- PHASE FAILURE RELAY.

RESTRICTIVE EARTH FAULT RELAY.

- AMMETER.
- VOLTMETER.
- KILOWATT METER.
- MAXIMUM DEMAND METER.
- REACTIVE POWER METER.

- DELTA/ DELTA TRANSFORMER.
- "KVA" DENOTES RATING (KILOVOLT AMPS).
- "V" DENOTES PRIMARY AND SECONDARY VOLTAGES.

- STAR/ DELTA TRANSFORMER.
- "KVA" DENOTES RATING (KILOVOLT AMPS).
- "V" DENOTES PRIMARY AND SECONDARY VOLTAGES.

- STAR/ STAR TRANSFORMER.
- "KVA" DENOTES RATING (KILOVOLT AMPS).
- "V" DENOTES PRIMARY AND SECONDARY VOLTAGES.

- CONTROL PANEL.
- EMERGENCY POWER OFF BUTTON.

LIGHTING SYMBOLS

- RECESSED OR SURFACE DOWNLIGHT
- WALL MOUNTED LIGHT FIXTURE
- RECESSED FLUOR. LIGHT FIXTURE
- SURFACE FLUOR. LIGHT FIXTURE
- UPPER CASE – FIXTURE TYPE
- LOWER CASE – SWITCH DESIGNATION
- FLUORESCENT STRIP FIXTURE
- TRACK LIGHT AS NOTED OR SCHEDULED
- STRIP LIGHT – LENGTH INDICATED
- WALL WASHER
- POLE-MOUNTED FIXTURE
- POST (BOLLARD) FIXTURE
- STEP LIGHT
- CEILING OR WALL MOUNTED EXIT LIGHT
- COIL (CONTACTOR)
- EMERGENCY BATTERY LIGHTS
- LIGHTING CONTROL.
- HIGH BAY FIXTURE
- LIGHTING TRANSFORMER.
- 2 WAY FLOOD.
- WALL PACK
- DECORATIVE SCENCE SELECTED BY OWNER
- METAL HALIDE DIRECT/INDIRECT SCENCE.
- DECORATIVE PENDENT SELECTED BY OWNER
- DECORATIVE CHANDALIER SELECTED BY OWNER
- LIGHTING RELAY #
- LANDSCAPE ACCENT LIGHT

SHADING ON FIXTURE INDICATES EMERG. BATTERY BACKUP

ABBREVIATIONS

- AC – ABOVE COUNTER
- AFF – ABOVE FINISHED FLOOR
- AFG – ABOVE FINISHED GRADE
- AL – ALUMINUM
- CU – COPPER
- DESIG. – DESIGNATION
- EM – EMERGENCY
- EMP – ENERGY MANAGEMENT PANEL
- EWC – ELECTRIC WATER COOLER
- GND – GROUND
- GFI – GROUND FAULT INTERRUPTER
- NF – NOT FUSED
- NIC – NOT IN CONTRACT
- NL – NIGHT LIGHT
- NTS – NOT TO SCALE
- UG – UNDERGROUND
- WP – WEATHER PROOF
- XFMR – TRANSFORMER
- +18" – MOUNTING HEIGHT TO CENTERLINE OF DEVICE AFF OR AFG
- C – COUNTERTOP

DISTRIBUTION EQUIPMENT SYMBOLS

- 120V DUPLEX RECEPTACLE @ 18" UNLESS NOTED
- 240(208)V RECEPTACLE @ 18" UNLESS NOTED
- 120V DOUBLE DUPLEX RECEPTACLE @ 18" UNLESS NOTED
- FLUSH FLOOR DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE HALF-SWITCHED @ 18" UNLESS NOTED
- MULTI-OUTLET PLUG STRIP
- JUNCTION BOX IN FLOOR, CEILING OR IN WALL
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING
- CIRCUIT HOMERUN
- CONDUIT RUN BELOW FLOOR OR GRADE
- CONDUIT STUB-UP – CAP & MARK
- LINE VOLTAGE SWITCHES
- SINGLE THROW SWITCH
- 2-POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- K = KEY-OPERATED SWITCH
- TO = THERMAL OVERLOAD SWITCH
- P = SWITCH WITH PILOT LIGHT
- LIGHT SWITCH AT 48" UNLESS NOTED
- DIMMER SWITCH W/ WATTAGE
- INTEGRAL OCCUPANCY SENSOR AND SWITCH – LINE VOLTAGE
- DIGITAL (LOW VOLTAGE) SWITCHES
- SUBSCRIPT INDICATES SW & #OF BUTTONS.
- NO SUBSCRIPT INDICATES SPST TOGGLE SWITCH
- DIGITAL (LOW VOLTAGE) SWITCH AND OCCUPANCY SENSOR
- DIGITAL (LOW VOLTAGE) LIGHT SENSOR

- DISCONNECT SWITCH
- FUSES
- CIRCUIT BREAKER
- CURRENT TRANSFORMER
- TRANSFORMER
- METER
- MAGNETIC MOTOR STARTER
- DISCONNECT SWITCH
- FUSED SWITCH
- "A" DENOTES RATING (AMPS)
- "P" DENOTES POLES.
- PANELBOARD OR LOAD CENTER, FLUSH OR SURFACE MOUNTED
- SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
- TRANSFORMER
- GROUND
- CIRCUIT BREAKER
- MOTOR OUTLET
- AUTOMATIC TRANSFER SWITCH
- TUBULAR HEATER.
- "KW" DENOTES RATING (KW).
- EARTH BOND.
- GENERATOR.
- MOTOR.
- DIRECT-ON-LINE STARTER.
- STAR-DELTA STARTER.
- AUTO-TRANSFORMER STARTER.
- BATTERY CHARGER.
- "Ah" DENOTES AMPERE HOURS.
- "A" DENOTES DEVICE SETTING (AMPS).
- "A" FRAME SIZE (AMPS).
- "CB" DENOTES ACB OR VCB OR OCB. (BREAKER TYPE)
- "P&N" DENOTES No. OF POLES.
- MOTOR CONTROL CENTRE.
- BUS BAR.
- "P" INDICATES No. OF BARS
- 4 BARS INDICATES CLEAN EARTH
- "A" INDICATES RATINGS (AMPS).

SHEET INDEX

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- E-1.04 UPPER LEVEL LIGHTONG PLAN
- E-1.05 MAIN LEVEL LOW VOLTAGE PLAN
- E-5.01 POWER SCHEDULES AND DETAILS
- E-5.02 LIGHTING DETAILS AND SCHEDULES
- E-5.03 LOW VOLTAGE DETAILS AND SCHEDULES

NOT FOR CONSTRUCTION - FOR REVIEW AND COORDINATION ONLY

RIDGWAY FIRE STATION

RIDGWAY FIRE PROTECTION DISTRICT
LOT 26-B1, RIDGWAY, CO 81432

ISSUE LOG
05/05/14 COORDINATION SET
05/09/14
BID SET

ELECTRICAL
TITLE PAGE

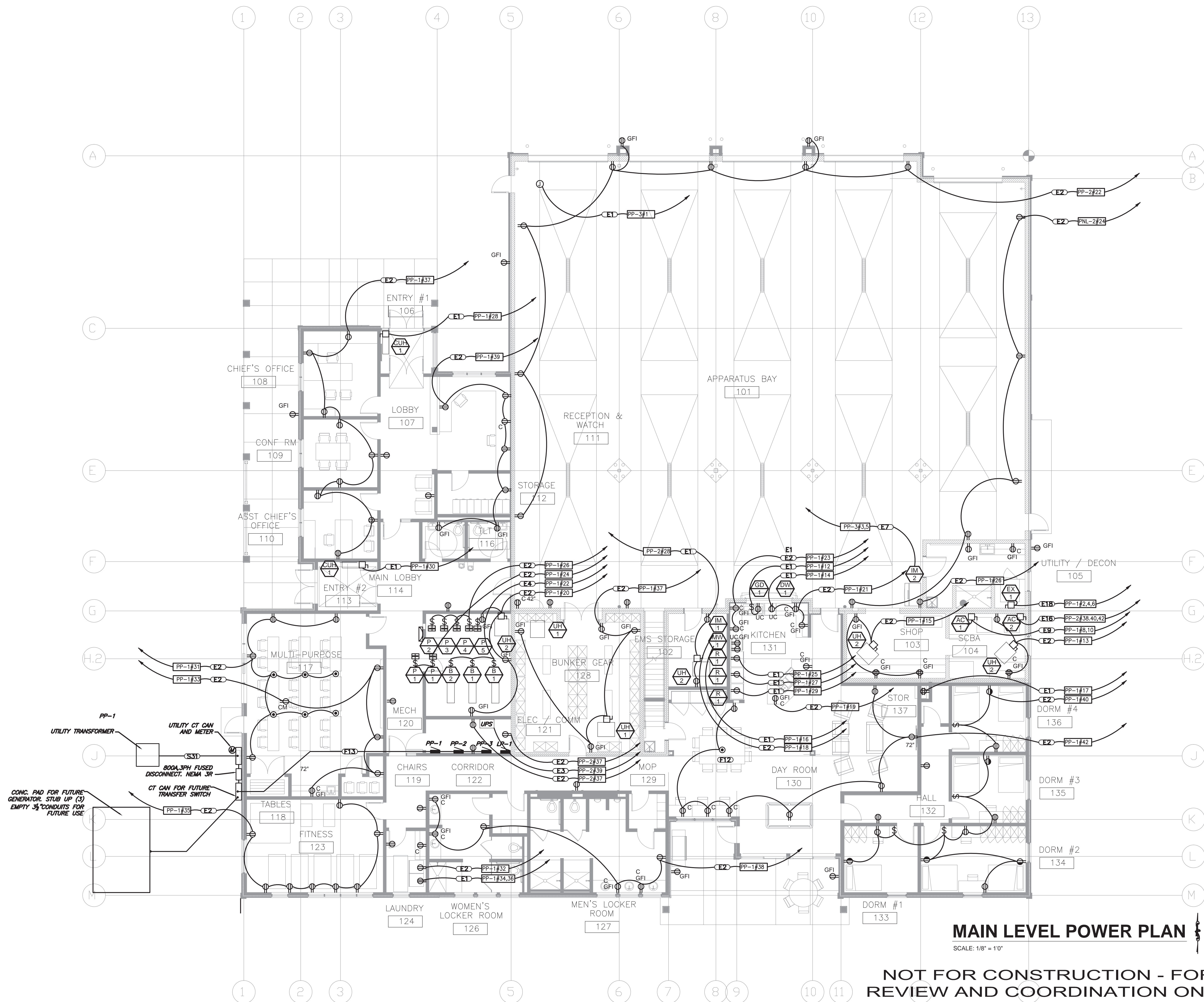
PROJ. NO. 2013-247.001

PROJECT DATE: 05/05/14

SHEET NUMBER:

E0.01

SGM
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MAIN LEVEL POWER PLAN

SCALE: 1/8" = 1'0"

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ISSUE LOG	
05/05/14	COORDINATION SET
05/09/14	
	BID SET

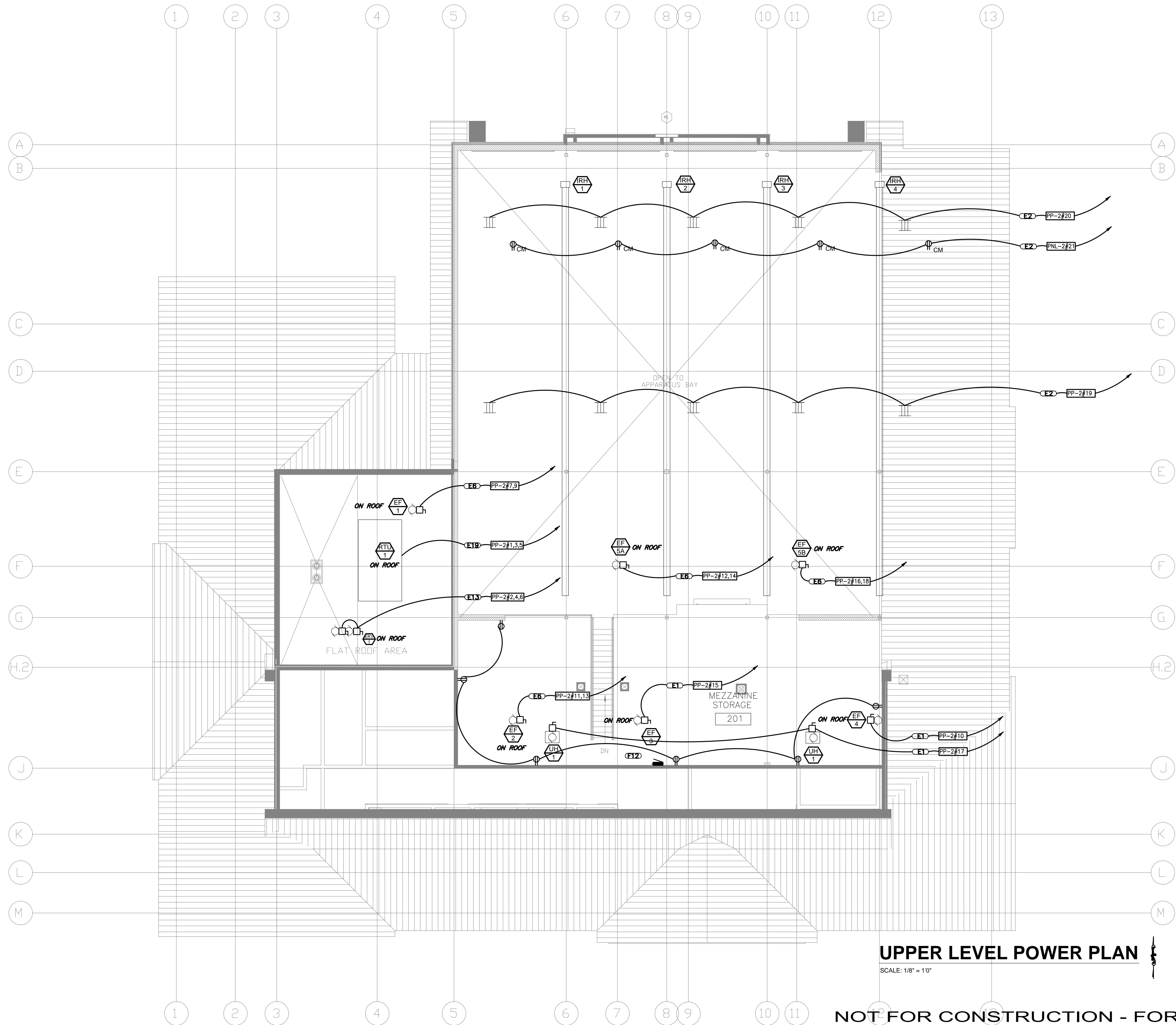
ELECTRICAL
POWER
PLAN - MAIN
LEVEL

PROJ. NO. 2013-247.001

PROJECT DATE: 05/05/14

SHEET NUMBER:

E-1.01



UPPER LEVEL POWER PLAN

SCALE: 1/8" = 1'0"

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LOT 26-B1, RIDGWAY, CO 81432

ISSUE LOG	
05/05/14	COORDINATION SET
05/09/14	BID SET

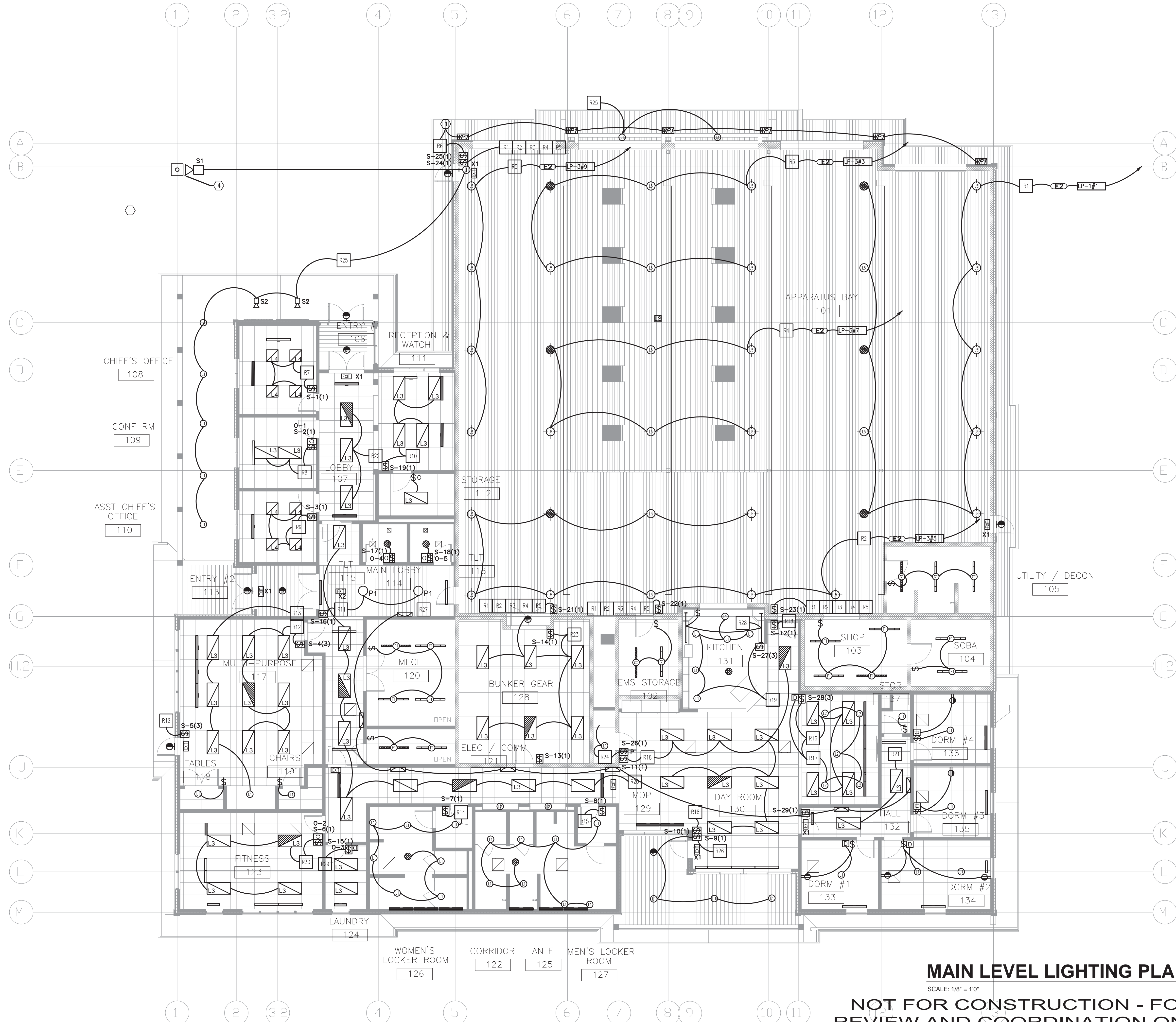
ELECTRICAL
POWER
PLAN - UPPER
LEVEL

PROJ. NO. 2013-247.001
PROJECT DATE: 05/05/14
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E-1.02

KEYNOTES

- 1. WALL PACK LIGHTS INTERLOCKED TO OPERATE UPON OPENING OF ANY APPARATUS BAY DOOR WITH MANUAL OVERRIDE
- 2. PROVIDE INTERCOM PANEL WITH DOORBELL PUSHBUTTON. WIRE AS INDICATED ON DETAIL.
- 3. PROVIDE J-BOX FOR FUTURE CCTV CAMERA. PROVIDE EMPTY CONDUITS TO RECEPTION DECK AND DAYROOM.
- 4. PROVIDE 15A UNDERGROUND BRANCH CIRCUIT IN CONDUIT AND LED LIGHT AT FLAG POLE



MAIN LEVEL LIGHTING PLAN

SCALE: 1/8" = 10"

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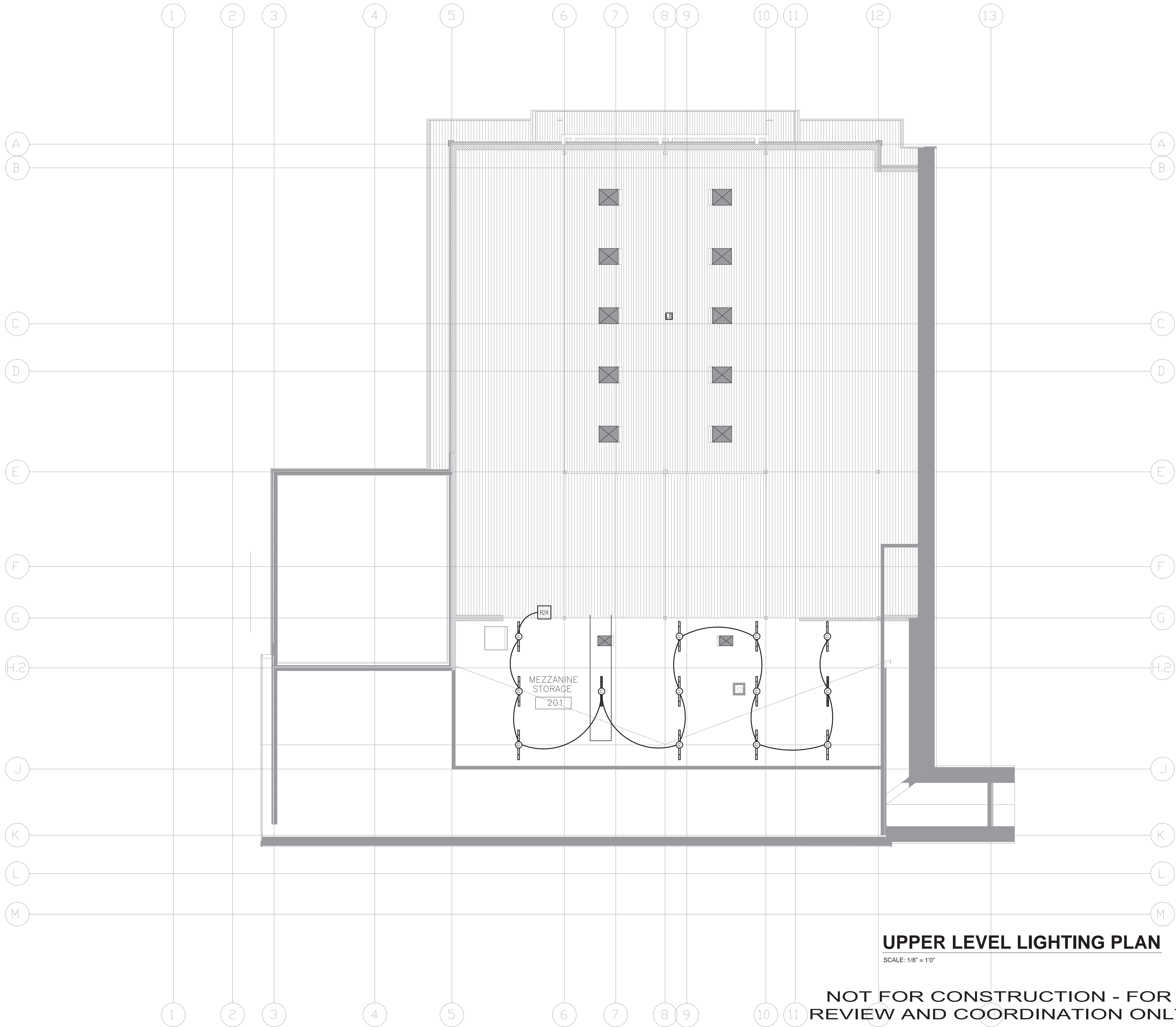
RIDGWAY FIRE STATION
RIDGWAY FIRE PROTECTION DISTRICT
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05/05/14	COORDINATION SET
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LIGHTING PLAN - MAIN LEVEL

PROJ. NO. 2013-247.001
PROJECT DATE: 05/05/14
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E-1.03



UPPER LEVEL LIGHTING PLAN

SCALE: 1/8" = 1'0"

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RIDGWAY FIRE PROTECTION DISTRICT
LOT 26-B1, RIDGWAY, CO 81432

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05/05/14	COORDINATION SET
05/09/14	
BID SET	

LIGHTING
PLAN - UPPER
LEVEL

PROJ. NO. 2013-247.001

PROJECT DATE: 05/05/14

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E-1.04

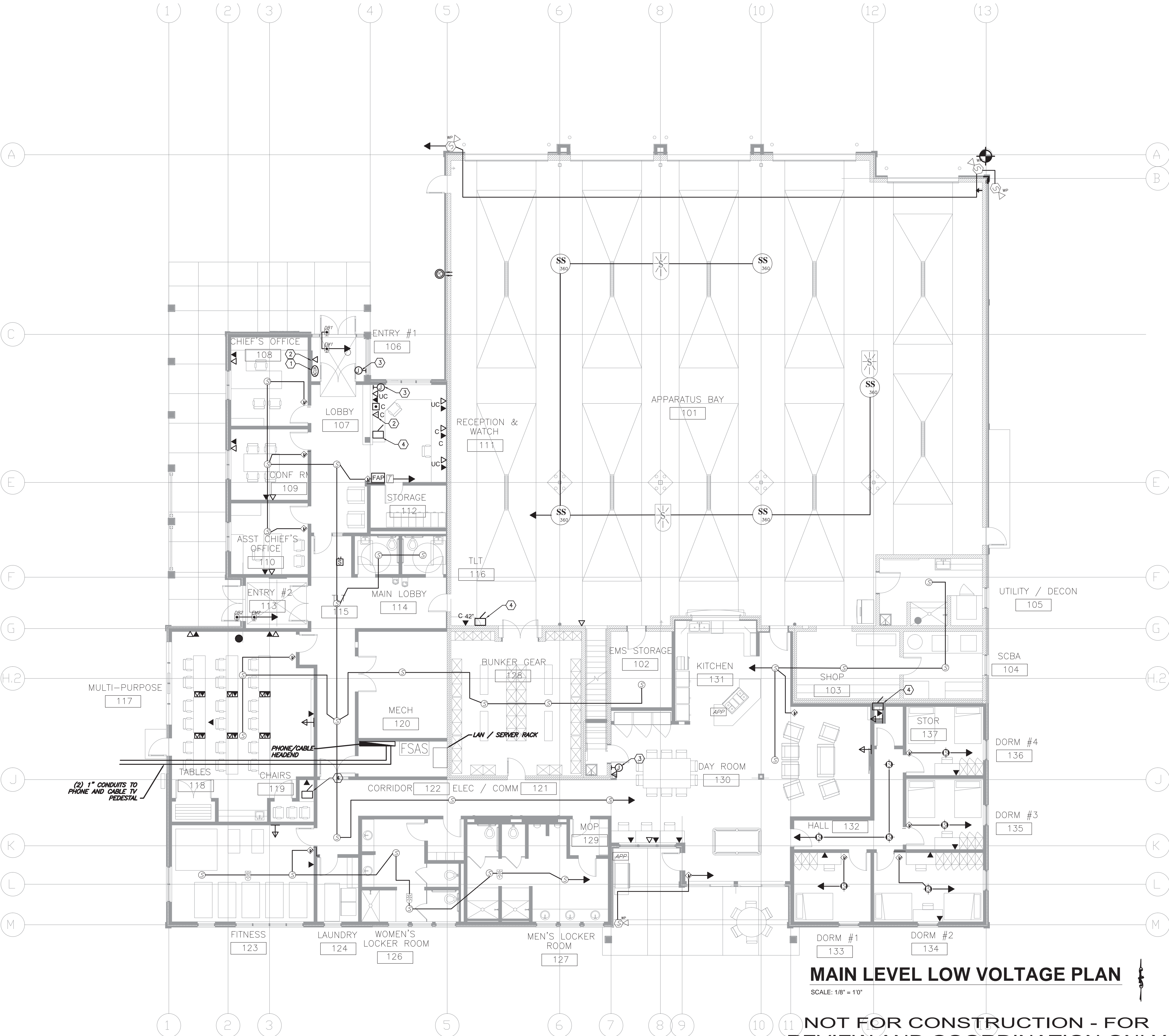
KEYNOTES

1. PROVIDE DOOR SECURITY KEYPAD, WITH ELECTRIC DOOR OPENER. PROVIDE PUSH BUTTON ACTIVATOR AT RECEPTION DECK
2. PROVIDE PHONE WITH DOORBELL PUSHBUTTON. WIRE AS INDICATED ON DETAIL.
3. PROVIDE J-BOX FOR FUTURE CCTV CAMERA. PROVIDE EMPTY CONDUITS TO RECEPTION DECK AND DAYROOM.
4. WIRELESS WI-FI TRANSMITTER

SYM	DESC.	MOUNTING / ROUGH-IN INFORMATION
FSAS	FIRE STATION ALERTING SYSTEM	TYP. 19" RACK MOUNTED SYSTEM. 110VAC, (1) 20AMP DEDICATED CIRCUIT RECOMMENDED AT LOCATION. TYP. ACCESS SPACE 4' X 4' PER RACK OR AS AVAILABLE AT SITE DEVICE REQUIRES 110VAC AT LOCATION. (NOT INSTALLED BY COMTECH)
(SBE)	ROUND, CEILING SPEAKER	FLUSH MOUNT SPEAKER BACK BOX, STUB 3/4" C. TO ACCESSIBLE CEILING AREA AS REQ. ADJUST LOCATION AND LEVEL TAP AS REQ. OLYMPIC 2890/6T CABLE OR EQUIV.
(SPKL)	LOW VOLTAGE SPEAKER	FLUSH MOUNT SPEAKER BACK BOX, STUB 3/4" C. TO ACCESSIBLE CEILING AREA AS REQ. ADJUST LOCATION AND VOLUME TAP AS REQ. OLYMPIC 2890/6T CABLE OR EQUIV.
(SP1-15A)	WEATHER PROOF HORN SPEAKER	WALL MOUNT, STUB 3/4" C. TO ACCESSIBLE CEILING AREA AS REQ. 4 SQ. BOX WITH TWO DEVICE RING, TYP. MOUNTED AT +15' AFF ADJUST LOCATION, HEIGHT AND DIRECTION AS REQ. AT SITE. OLYMPIC 2890/6T CABLE OR EQUIV. USE WEATHERPROOF SEAL, EXT. MOUNT.
(BOT130A)	DUAL WEATHER PROOF HORN SPEAKER	WALL MOUNT, STUB 3/4" C. TO ACCESSIBLE CEILING AREA AS REQ. 4 SQ. BOX WITH TWO DEVICE RING, TYP. MOUNTED AT +15' AFF ADJUST LOCATION, HEIGHT AND DIRECTION AS REQ. AT SITE. OLYMPIC 2890/6T CABLE OR EQUIV. USE WEATHERPROOF SEAL, EXT. MOUNT.
(B)	DOOR BELL OR STILL ALARM	DEEP 4 SQ. BOX, SINGLE DEVICE PLASTER RING TO SURFACE, TYP. MOUNT AT +48" TO TOP OF BOX, TYP. STUB 3/4" C. TO ABOVE ACCESSIBLE CEILING AREA OR ASSOCIATED SPEAKER BOX. ADJUST HEIGHT AND LOCATION AS REQ. OLYMPIC 2890/6T CABLE OR EQUIV.
(H18EAH)	EMERGENCY BUTTON OR STILL ALARM	DEEP 4 SQ. BOX, SINGLE DEVICE PLASTER RING TO SURFACE, TYP. MOUNT AT +48" TO TOP OF BOX, TYP. STUB 3/4" C. TO ABOVE ACCESSIBLE CEILING AREA OR ASSOCIATED SPEAKER BOX. ADJUST HEIGHT AND LOCATION AS REQ. OLYMPIC 2890/6T CABLE OR EQUIV.
(AP-10PA)	WALL MOUNT VOLUME CONTROL WITH ALERT OVERRIDE	DEEP 4 SQ. BOX, SINGLE DEVICE PLASTER RING TO SURFACE, TYP. MOUNT AT +48" TO TOP OF BOX, TYP. STUB 3/4" C. TO ABOVE ACCESSIBLE CEILING AREA OR ASSOCIATED SPEAKER BOX. ADJUST HEIGHT AND LOCATION AS REQ. OLYMPIC 2890/6T CABLE OR EQUIV.
(S-332T)	RADIO MONITOR SWITCH	DEEP 4 SQ. BOX, SINGLE DEVICE PLASTER RING TO SURFACE, TYP. MOUNT AT +48" TO TOP OF BOX, TYP. STUB 3/4" C. TO ABOVE ACCESSIBLE CEILING AREA. ADJUST HEIGHT AND LOCATION AS REQ. OLYMPIC 2890/6T CABLE OR EQUIV.
(SS 360) (110B)	360 DEGREE 30W APP BAY SPEAKER	SURFACE, HANGING OR BEEM MOUNTABLE. STUB C. AS APPLICABLE TO ACCESSIBLE AREA. TYP. MOUNT HEIGHT +15' OR AS SITE SPECIFIC. OLYMPIC 2890/6T CABLE OR EQUIV.
(H18EAH)	ALERT RESET	DEEP 4 SQ. BOX, SINGLE DEVICE PLASTER RING TO SURFACE, TYP. MOUNT AT +48" TO TOP OF BOX, TYP. STUB 3/4" C. TO ABOVE ACCESSIBLE CEILING AREA OR ASSOCIATED SPEAKER BOX. ADJUST HEIGHT AND LOCATION AS REQ. OLYMPIC 2890/6T OR EQUIV.
(APP)	APPLIANCE CONTROL SHUT OFF	DEEP 4 SQ. BOX, SINGLE DEVICE RING TO SURFACE, TYP. MOUNT AT +18" AT TOP OF BOX STUB 3/4" C. TO ABOVE ACCESSIBLE CEILING AREA OR ROUTE TO FSA HUB. OLYMPIC 2890/6T CABLE OR EQUIV.
(S)	STROBE LIGHT	STUB 3/4" C. TO ACCESSIBLE CEILING AREA AS REQ. 4 SQ. BOX WITH BLANK PLATE. TYP. MOUNTED AT +10' TO +15' AFF ADJUST LOCATION AND HEIGHT AS REQ. AT SITE. OLYMPIC 2890/6T CABLE OR EQUIV. FOR EXTERNAL USE: MOUNT VERTICALLY, USE SEALTIGHT C. TO 4 SQ. BOX WITH SEALTIGHT COVERPLATE.

NOTES:
1: CABLES MAY BE RUN IN ANY ACCESSIBLE: CABLE TRAYS, CONDUITS, SURFACE MOUNTED PANDUIT OR ANY OTHER ACCESSIBLE AREAS NECESSARY TO COMPLETE THE INSTALLATION.
2: DORM ROOM CABLING SHALL BE HOME RUNS UNLESS OTHERWISE SPECIFIED.

HOMERUN →



MAIN LEVEL LOW VOLTAGE PLAN

SCALE: 1/8" = 10"

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RIDGWAY FIRE PROTECTION DISTRICT

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ISSUE LOG
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LOW VOLTAGE PLAN - MAIN LEVEL
PROJ. NO. 2013-247.001
PROJECT DATE: 05/05/14
SHEET NUMBER:
E-1.05

PANEL PP-1											
ROOM ELECTRICAL ROOM MOUNTING SURFACE FED FROM TRANSFORMER NOTE X			VOLTS 208/120 4W BUS AMPS 800 NEUTRAL X			AIC 65K MAIN BKR 800A LUGS X					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	400A	PP-2	27			2	70A	WE-1 EXTRACTOR	7.56		
3				27		4				7.56	
5					27	6					7.56
7	400A	PP3	0			8	40A	AC-1 AIR COMPRESSOR	.15		
9				0		10				.15	
11					0	12	15A	GARBAGE DISPOSAL			.5
13	20A	UH-1 AND RECEPSCBA	1.0			14	15A	DISHWASHER	1.2		
15	20A	UH-1 AND RECEPT SHOP		1.2		16	15A	ICE MACHINE		1.25	
17	15A	AV GEAR			.36	18	15A	MICROWAVE			1.5
19	20A	SMALL APPLIANCE CIRCUIT	1.84			20	20A	UH-1 AND BOILER ROOM RECEPT.	1.84		
21	20A	SMALL APPLIANCE CIRCUIT		1.84		22	40A	BOILERS B-1,2,3		1.6	
23	20A	SMALL APPLIANCE CIRCUIT			1.84	24	20A	P-1A, P-1B			1.2
25	15A	REFRIGERATOR #1	.8			26	20A	P-2,P-3,P-4,P-5	.6		
27	15A	REFRIGERATOR #2		.8		28	15A	CUH-1		1.2	
29	15A	REFRIGERATOR #3			.8	30	15A	CUH-2		1.2	
31	20A	MULTIPURPOSE RM RECEPT	1.84			32	20A	WASHING MACHINE	.5		
33	20A	MULTIPURPOSE RM RECEPT		1.84		34	30A	DRYER		2.5	
35	20A	FITNESS RM RECEPT.			1.84	36					2.5
37	20A	OFFICES / CONF RECEPT	1.84			38	100A	TVSS	-		
39	20A	RECEPTION / TOILETS RECEPT.		1.84		40			-		
41	20A	HALL / LOBBY RECEPT.			1.84	42					-
			37.9	38.1	37.2	TOTAL CONNECTED KVA BY PHASE			13.7	15.0	16.3
			CONN KVA		CALC KVA				CONN KVA		CALC KVA
LIGHTING			0	0	(125%)	CONTINUOUS			X	X	(125%)
LARGEST MOTOR			X	X	X	HEATING			X	X	X
OTHER MOTORS			X	X	(100%)	COOLING			X	X	X
RECEPTACLES			X	X	(50%>10)	NONCONTINUOUS			X	X	(100%)
KITCHEN EQUIP			0	0	X	DIVERSE			X	X	(100%)
						METERED DEMAND			X	X	(125%)
						TOTAL KVA			X	X	
						BALANCED 3-PHASE AMPS					
NOTE2											

PANEL PP-2											
ROOM ELECTRICAL ROOM			VOLTS 208/120 4W			AIC 65K					
MOUNTING SURFACE			BUS AMPS 400A			MAIN BKR MLO					
FED FROM PP-1			NEUTRAL X			LUGS X					
NOTE X											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	150A	RTU-1	18.1			2	15A	ERV-1	1.43		
3				18.1		4				1.43	
5					18.1	6					1.43
7	15A	EF-1	.4			8	15A	E-3	.15		
9				.4		10	15A	E-4		.15	
11	15A	EF-2			.4	12	15A	E-5A			1.25
13			.4			14			1.25		
15	15A	EF-3		.15		16	15A	E-5B		1.25	
17	15A	(2) UH-1			.15	18					1.25
19	20A	(5) CORD REELS	1.84			20	20A	(5) CORD REELS	1.84		
21	20A	(5) GARAGE DOOR OPENERS		1.84		22	20A	APPARATUS BAY RECEPT.		1.84	
23	20A	MEZZANINE RECEPTACLES			1.0	24	20A	APPARATUS BAY RECEPT.			1.84
25	20A	LIGHTING CIRCUIT 1	1.9			26	20A	ICE MACHINE	1.5		
27	20A	LIGHTING CIRCUIT 2		1.9		28	20A	EMS STORAGE RECEPT AND UH-1		.8	
29	20A	LIGHTING CIRCUIT 3			1.9	30	20A	LIGHTING CONTROL PROCESSOR			.1
31	20A	LIGHTING CIRCUIT 4	1.9			32	20A	LOCKER RM RECEPT	1.84		
33	20A	LIGHTING CIRCUIT 5		1.9		34	20A	DORM RM. RECEPT		1.84	
35	20A	LIGHTING CIRCUIT 6			1.9	36	20A	DAYROOM RECEPT			1.84
37	20A	LAN OUTLET	1.9			38	30A	AC-2	X		
39	30A	UPS		-		40				X	
41	20A	PAGING PANEL			-	42					X
			20.74	20.79	19.85	TOTAL CONNECTED KVA BY PHASE			6.17	5.47	5.77
			CONN KVA		CALC KVA				CONN KVA		CALC KVA
LIGHTING			0	0	(125%)	CONTINUOUS			X	X	(125%)
LARGEST MOTOR			X	X	X	HEATING			X	X	X
OTHER MOTORS			X	X	(100%)	COOLING			X	X	X
RECEPTACLES			X	X	(50%>10)	NONCONTINUOUS			X	X	(100%)
KITCHEN EQUIP			0	0	X	DIVERSE			X	X	(100%)
						METERED DEMAND			X	X	(125%)
						TOTAL KVA			X	X	
						BALANCED 3-PHASE AMPS					
NOTE2											

PP-3

ROOM ELECTRICAL ROOM MOUNTING SURFACE FED FROM PP-1 NOTE X	VOLTS 208/120, 4W BUS AMPS 400 NEUTRAL X	AIC 65K MAIN BKR MLO LUGS X
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CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	15A	FUTURE SIREN	.5			2	TBD	SOLAR INPUT	X		
3	20	ICE MAKER IM-2		1.84		4				X	
5					1.84	6	-	-			X
7	-	-	X			8	-	-	X		
9	-	-		X		10	-	-		X	
11	-	-			X	12	-	-			X
13	-	-	X			14	-	-	X		
15	-	-		X		16	-	-		X	
17	-	-			X	18	-	-			X
19	-	-	X			20	-	-	X		
21	-	-		X		22	-	-		X	
23	-	-			X	24	-	-			X
25	-	-	X			26	-	-	X		
27	-	-		X		28	-	-		X	
29	-	-			X	30	-	-			X
31	-	-	X			32	-	-	X		
33	-	-		X		34	-	-		X	
35	-	-			X	36	-	-			X
37	-	-	X			38	-	-	X		
39	-	-		X		40	-	-		X	
41	-	-			X	42	-	-			X
			X	X	X	TOTAL CONNECTED KVA BY PHASE			X	X	X
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			X	X	(125%)	CONTINUOUS			X	X	(125%)
LARGEST MOTOR			X	X	X	HEATING			X	X	X
OTHER MOTORS			X	X	(100%)	COOLING			X	X	X
RECEPTACLES			X	X	(50%>10)	NONCONTINUOUS			X	X	(100%)
KITCHEN EQUIP			X	X	X	DIVERSE			X	X	(100%)
						METERED DEMAND			X	X	(125%)
						TOTAL KVA			X	X	
						BALANCED 3-PHASE AMPS					

NOTE2



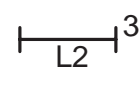
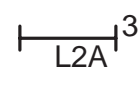
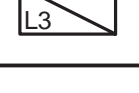






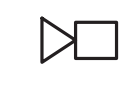

MECHANICAL EQUIPMENT SCHEDULE									
DESIG (#)	DESCRIPTION	HP/KW/LFA	VOLTAGE	AMP	MCA	MOCP	DISCONNECT TYPE / BY	STARTER TYPE BY	REMARKS
RTU-1	ROOFTOP AHU	5HP	208-3-60		140	150	FACTORY	FACTORY	
ERV-1	EXHAUST HEAT REC	(2)Ø2 HP	208-3-60		11.9	15	FUSED / EC	LV CONTACTOR / EC	
B-1,2,3	BOILERS		120-1-60		11.9		SPST SWITCH W/ PILOT/ EC	NO	
CUH-1,2	CABINET UNIT HEATER		208-1-60	9.6	12		SPST SWITCH W/ PILOT/ EC	FACTORY	
UH-1,4,5,6	HW UNIT HEATER		115-1-60	1.2	1.5		SPST SWITCH W/ PILOT/ EC	FACTORY	
UH-2,3,8	HW UNIT HEATER		115-1-60	1.4	2.1		SPST SWITCH W/ PILOT/ EC	FACTORY	
P-1 A B	CIRCULATING PUMP	1/2	208-1-60	4.9	6.2		SPST SWITCH W/ PILOT/ EC	LV CONTACTOR / EC	
P-2	CIRCULATING PUMP	1/25	115-1-60	1.2	1.5		SPST SWITCH W/ PILOT/ EC	LV CONTACTOR / EC	
P-3	CIRCULATING PUMP	1/25	115-1-60	1.2	1.5		SPST SWITCH W/ PILOT/ EC	LV CONTACTOR / EC	
P-4	CIRCULATING PUMP	1/25	115-1-60	1.2	1.5		SPST SWITCH W/ PILOT/ EC	LV CONTACTOR / EC	
P-5	CIRCULATING PUMP	1/12	115-1-60	1.2	1.5		SPST SWITCH W/ PILOT/ EC	LV CONTACTOR / EC	
EF-1	EXHAUST FAN	1/4	208-1-60	3.1	3.9		FACTORY	FACTORY	
EF-2	EXHAUST FAN	1/4	208-1-60	3.1	3.9		FACTORY	FACTORY	
EF-3	EXHAUST FAN	1/3	115-1-60	3.9	4.9		FACTORY	FACTORY	
EF-4	EXHAUST FAN	1/4	115-1-60	3.1	3.9		FACTORY	FACTORY	
EF-5 (2)	EXHAUST FAN	2	208-1-60	12.0	15		FACTORY	FACTORY	
EF-6	EXHAUST FAN	1/4	208-1-60	3.1	3.9		FACTORY	FACTORY	
IRH-1,2,3	INFRARED HEATER	N.A.	120-1-60	1.0	1.3		SPST SWITCH - EC	FACTORY	
IRH-4	INFRARED HEATER	N.A.	120-1-60	1.0	1.3		SPST SWITCH - EC	FACTORY	
OWNER SUPPLIED EQUIPMENT									
AC-1	AIR COMPRESSOR	5HP	208-1-60	30	37.5		FUSED DISCONNECT - EC	VERIFY AMPERAGE AND VOLTAGE	
AC-2	HP AIR COMPRESSOR		208-3-60	30	37.5		FUSED DISCONNECT	VERIFY AMPERAGE AND VOLTAGE	
WE-1	WASHER EXTRACTOR		208-3-60	63	63		FUSED DISCONNECT	VERIFY AMPERAGE AND VOLTAGE	
R-1,2,3	REFRIGERATOR		120-1-60	7	8.4		PLUG	VERIFY AMPERAGE AND VOLTAGE	
MW-1	MICROWAVE		120-1-60	13	13		PLUG	VERIFY AMPERAGE AND VOLTAGE	
IM-1	ICE MACHINE		120-1-60	15	18		PLUG	VERIFY AMPERAGE AND VOLTAGE	
GD-1	GARBAGE DISPOSAL		120-1-60	4.5	7		WALL SWITCH	VERIFY AMPERAGE AND VOLTAGE	
CT-1	STOVE		120-1-60	1	12		PLUG	VERIFY AMPERAGE AND VOLTAGE	
DW-1	DISHWASHER		120-1-60	12	15		PLUG	VERIFY AMPERAGE AND VOLTAGE	
IM-2	ICE MAKER		208-3-60	17.7	18	20	FUSED DISCONNECT EC	FACTORY	

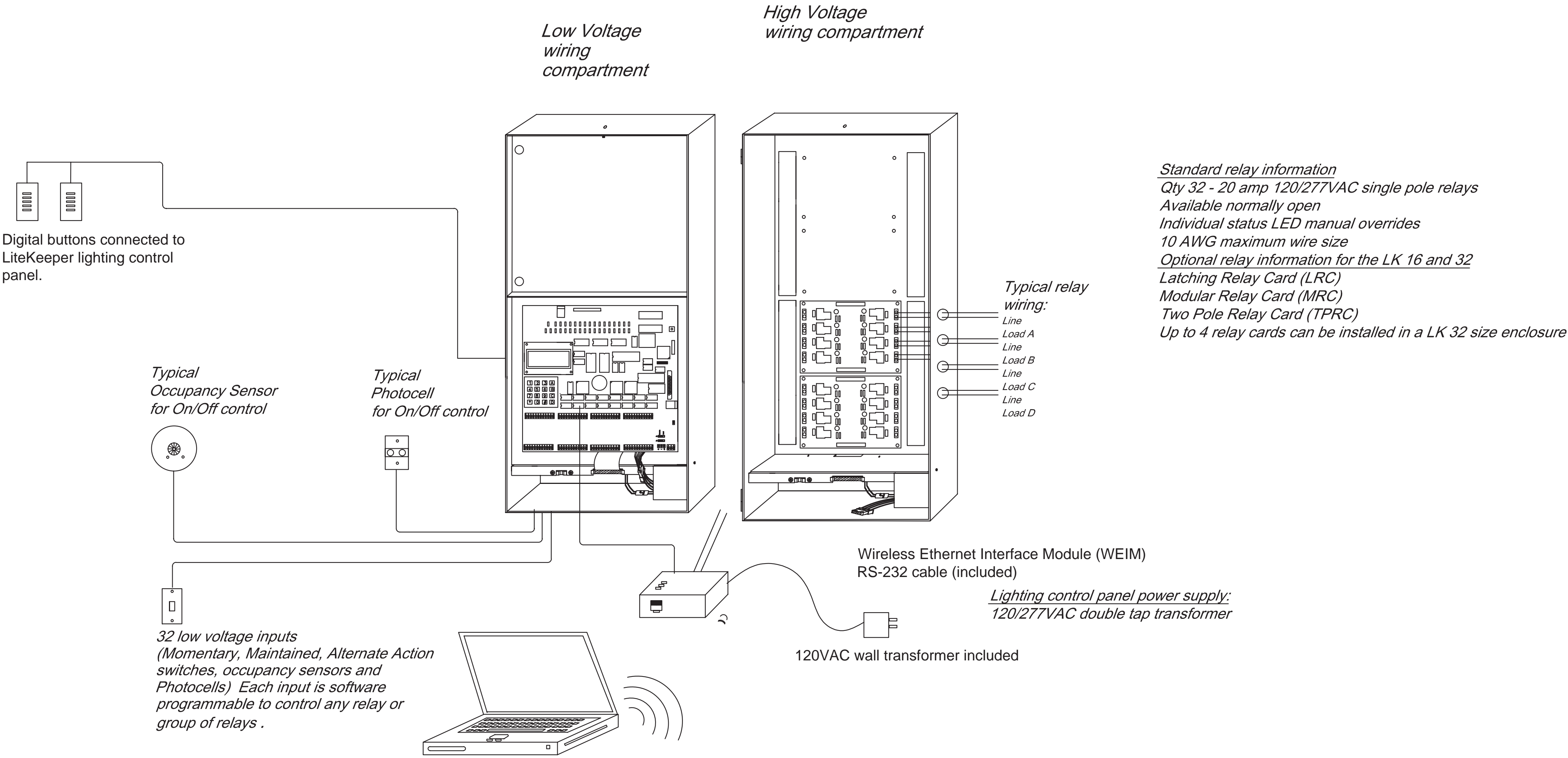
RELAY INFORMATION				
RELAY (R)	AREA CONTROLLED	CONTROLLED BY	CONNECTED WATTAGE	POWER CIRCUIT
R1	APPARATUS BAY – EAST ZONE	S–21,22,23,24 F	1870	PP–2 #23
R2	APPARATUS BAY – SOUTH ZONE	S–21,22,23,24 F	1883	PP–2 #27
R3	APPARATUS BAY – MIDDLE NORTH	S–21,22,23,24 LL F	1122	PP–2 #29
R4	APPARATUS BAY – MIDDLE SOUTH	S–21,22,23,24, LL F	1122	PP–2 #31
R5	APPARATUS BAY –WEST	S–21,22,23,24 F	748	PP–2 #29
R6	EXTERIOR WALLPACK	S–25 GD	150	PP–2 #31
R7	CHIEFS OFFICE	S–1	100	PP–2 #31
R8	CONFERENCE ROOM	S–2	68	PP–2 #31
R9	ASSISTANT CHIEFS OFFICE	S–3	100	PP–2 #31
R10	RECEPTION AND WATCH	S–19 F	136	PP–2 #31
R11	MAIN LOBBY	S–16 F	150	PP–2 #31
R12	MULTIPURPOSE ROOM	S–4,5	272	PP–2 #33
R13	MULTIPURPOSE	S–6 O	102	PP–2 #33
R14	WOMENS LOCKER	S7	120	PP–2 #33
R15	MENS LOCKER	S8	140	PP–2 #33
R16	TV ROOM MAIN	S–28	135	PP–2 #33
R17	TV ROOM ACCENT	S–28	80	PP–2 #33
R18	DAY ROOM	S–10,11,12 F	238	PP–2 #33
R19	KITCHEN	S–27	140	PP–2 #33
R20	MAIN HALLWAY	T F	272	PP–2 #33
R21	DORM HALL	S–29 F	68	PP–2 #33
R22	LOBBY	T F	68	PP–2 #33
R23	BUNKER GEAR	S–14,15 F	204	PP–2 #33
R24	MEZZANINE	S–26	858	PP–2 #35
R25	OUTDOOR LIGHTS	T	140	PP–2 #35
R26	PATIO	S–9	80	PP–2 #35
R27	HALL NIGHT LIGHTS	T	21	PP–2 #35
R28	KITCHEN UNDERCOUNTER	S–27	15	PP–2 #35
R29	LAUNDRY RM	S–27	–	
R30	FITNESS	S–6 O	102	
R31	X		–	
R32	X		–	

T – TIMECLOCK
F – FIRE PAGER SYSTEM
ON WHILE PAGER IS ON

LL – DAYLIGHT SENSOR
O – OCCUPANCY SENSOR
GD – ON WHEN GARAGE DOOR OPEN

LOW VOLTAGE LIGHTING CONTROL SCHEDULE					
DEVICE (W)	AREA CONTROLLED	CONTROLLING RELAY	# OF BUTTONS	MANUFACTURER / MODEL	ENGRAVING
S1	CHEIFS OFFICE	R-12	1	GREENGATE GDS	TBD
S2	CONFERENCE RM	R-12	1	GREENGATE GDS	TBD
S3	ASSIST. CHIEF OFFICE	R-12	1	GREENGATE GDS	TBD
S4	MULTIPURPOSE RM	R-12	3	GREENGATE GDS	TBD
S5	MULTIPURPOSE RM	R-12	3	GREENGATE GDS	TBD
S6	FITNESS RM	R-12	1	GREENGATE GDS	TBD
S7	WOMENS LOCKER	R-12	1	GREENGATE GDS	TBD
S8	MENS LOCKER	R-12	1	GREENGATE GDS	TBD
S9	PATIO	R-12	1	GREENGATE GDS	TBD
S10	DAY ROOM	R-12	1	GREENGATE GDS	TBD
S11	DAY ROOM	R-12	1	GREENGATE GDS	TBD
S12	DAY ROOM	R-12	1	GREENGATE GDS	TBD
S13	BUNKER GEAR	R-12	1	GREENGATE GDS	TBD
S14	BUNKER GEAR	R-12	1	GREENGATE GDS	TBD
S15	LAUNDRY RM	R-12	1	GREENGATE GDS	TBD
S16	MAIN LOBBY	R-12	1	GREENGATE GDS	TBD
S17	MENS TOILET	R-12	1	GREENGATE GDS	TBD
S18	WOMENS TOILET	R-12	1	GREENGATE GDS	TBD
S19	RECEPTION	R-12	1	GREENGATE GDS	TBD
S20	MULTIPURPOSE RM	R-12	1	GREENGATE GDS	TBD
S21	APPARATUS BAY	R-12	1	GREENGATE GDS	TBD
S22	APPARATUS BAY	R-12	1	GREENGATE GDS	TBD
S23	APPARATUS BAY	R-12	1	GREENGATE GDS	TBD
S24	APPARATUS BAY	R-12	1	GREENGATE GDS	TBD
S25	EXT WALLPACK	R-12	1	GREENGATE GDS	TBD
S26	MEZZANINE	R-12	1	GREENGATE GDS	TBD
S27	KITCHEN	R-12	3	GREENGATE GDS	TBD
S28	TV ROOM	R-12	3	GREENGATE GDS	TBD
S29	DORM HALL	R-12	1	GREENGATE GDS	TBD
S30	MULTIPURPOSE RM	R-12	1	GREENGATE GDS	TBD
S2	MULTIPURPOSE RM	R-12	1	GREENGATE GDS	TBD
S2	MULTIPURPOSE RM	R-12	1	GREENGATE GDS	TBD
S2	MULTIPURPOSE RM	R-12	1	GREENGATE GDS	TBD
S2	MULTIPURPOSE RM	R-12	1	GREENGATE GDS	TBD

LUMINAIRE SCHEDULE													RIDGWAY FIRE STATION	
PLAN SYMBOL	TYPE	SPECIFICATION / DESCRIPTION	LAMP INFORMATION			TOTAL WATTS	MANUFACTURER	CATALOG NUMBER	VOLT	MOUNTING	RECESS DEPTH	REMARKS		
			TYPE	QTY.	LAMP TYPE COLOR TEMP CRI									
	F1	LINEAR INDUSTRIAL STRIPLIGHT, NOMINAL 4' ELECTRONIC BALLAST	FL	2	F32T8 3000K 80+ CRI	66	LIGHTOLIER	SW4S232HPFS0–AWG3WCSP	120	SURFACE				
	L1	RECESSED IC DOWNLIGHT, LENSED, ROUND TRIM IC &WET RATED, COMFORT CLEAR TRIM, WHITE FLANGE ELECTRONIC BALLAST	LED	1	2700*K LED	20	LIGHTOLIER	1050RNDLCDW–1050LRN0927	120	REC CLG	3.5"			
	L2	LINEAR FLEXIBLE LED RIBBON WITH INTERIOR JACKET, FROSTED LENS, EXTRUSION REMOTE POWER SUPPLY, REFER TO CUTSHEETS FOR EXTRUSION TYPES: SEE PLANS FOR POWER SUPPLY SIZES: 1X60, 1X100, 2X100.	LED	12/FT	2.7W 50,000HR	2.7/FT	PARADIGM LED	PL–FLEX500–WW–INT–24 PL–PS–60 OR PL–PS–Q XX SEE CUTSHEETS FOR EXTRUSIONS	24VDC	SURF				
	L2A	LINEAR FLEXIBLE LED RIBBON WITH WET LISTEDJACKET, FROSTED LENS, EXTRUSION REMOTE POWER SUPPLY, REFER TO CUTSHEETS FOR EXTRUSION TYPES: SEE PLANS FOR POWER SUPPLY SIZES: 1X60, 1X100, 2X100.	LED	12/FT	2.7W 50,000HR	2.7/FT	PARADIGM LED	PL–FLEX500–WW–WP–24 PL–PS–60 OR PL–PS–Q XX SEE CUTSHEETS FOR EXTRUSIONS	24VDC	SURF				
	L3	NOMINAL 2X4 RECESSED LAY–IN TROFFER, EXTRUDED ALUMINUM FRAME, PRISMATIC ACRYLIC LENS, INTEGRAL DRIVERS, FLANGED, 6' WHIP	LED	1	LED 3500*K	34	METALUX CREE DAY–BRITE	2EN–LD1–34–UNV–FLEX–L835–CD ZR SERIES 0837–AR SERIES	UNIV	REC	3–1/4"			
	L4	NOMINAL 2X2 RECESSED LAY–IN TROFFER, EXTRUDED ALUMINUM FRAME, PRISMATIC ACRYLIC LENS, INTEGRAL DRIVERS, FLANGED, 6' WHIP	LED	1	LED 3500*K	25	METALUX CREE DAY–BRITE	2EN–LD1–34–UNV–FLEX–L835–CD ZR SERIES 0837–AR SERIES	UNIV	REC	3–1/4"			
	L5	SUSPENDED LOW–BAY FLOOD LIGHT, IP65 RATED STEEL HOUSING, INTEGRAL DRIVER, UPLIGHT, HIGH OUTPUT HOOK CABLE SUSPENSION, CORD INCLUDED	LED	1	LED NEUT. WHITE 70,000HR	187	CREE LUSIO	CXB SERIES LW–LUSIO–LBAYW–E–2X2–H0–NW– HOOK–120–UPY–C6W	120V	HOOK				
	D1	EXTERIOR DOME WALL MOUNT– CONTRACTOR TO CONFIRM MOUNTING PRIOR TO ORDERING	LED	1	LED 3500K	13	ABOLITE	RD100LED120RUS GOOSENECK WITH WALL BRACKET	120	WALL				
	WP	WALL PACK WALL MOUNT– CONTRACTOR TO CONFIRM MOUNTING PRIOR TO ORDERING	LED	1	LED 5100K	35W	HUBBELL	HUBBELL LMC–30L–035	120	WALL		BRONZE FINISH		
	X1	SINGLE SIDE EXIT SIGN, GREEN LETTERS, CLEAR ACRYLIC FACE WALL MOUNT– CONTRACTOR TO CONFIRM MOUNTING PRIOR TO ORDERING	LED	1		5W	EELP	EDG1GCA	120	SURF				
	X2	DOUBLE SIDED EXIT SIGN, GREEN LETTERS, CLEAR ACRYLIC FACE WALL MOUNT– CONTRACTOR TO CONFIRM MOUNTING PRIOR TO ORDERING	LED	1		5W	EELP	EDG1GCA	120	SURF				
	S1	ACCENT FLOOD GROUND MOUNT	LED	1		71W	HUBBELL	MHS–X–30LU–5K–N	120	GROUND				
	S2	ACCENT FLOOD	LED	1		15W	HUBBELL	30910LEDML	120	SURFACE				



32 low voltage inputs
(Momentary, Maintained, Alternate Action switches, occupancy sensors and Photocells) Each input is software programmable to control any relay or group of relays .

End user computers can program any lighting control panel via the Wireless Ethernet Interface Module (WEIM) using the Keeper Enterprise software.

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RIDGWAY FIRE STATION

RIDGWAY FIRE PROTECTION DISTRICT

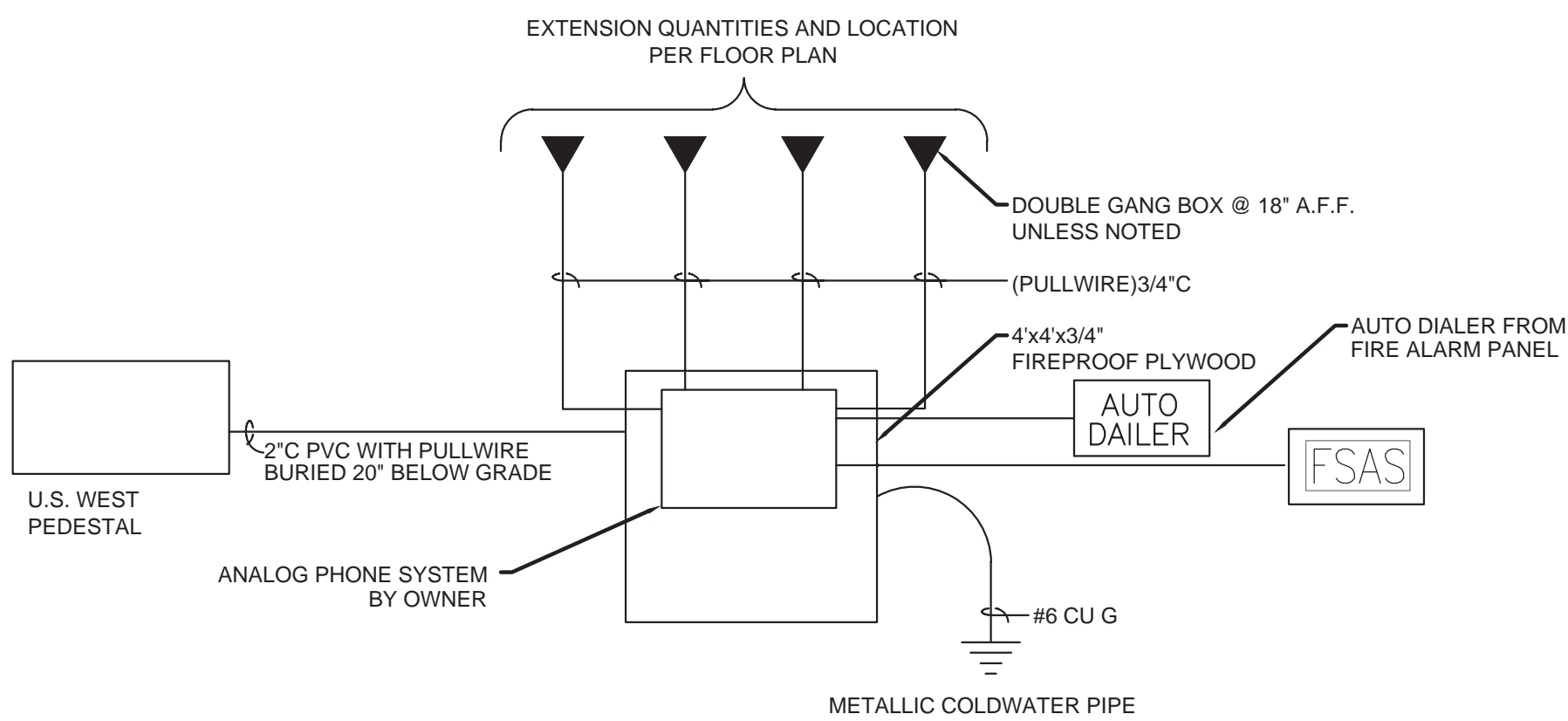
LOT 26-B1, RIDGWAY, CO 81432

ISSUE LOG	
05/05/14	COORDINATION SET
05/09/14	
	BID SET

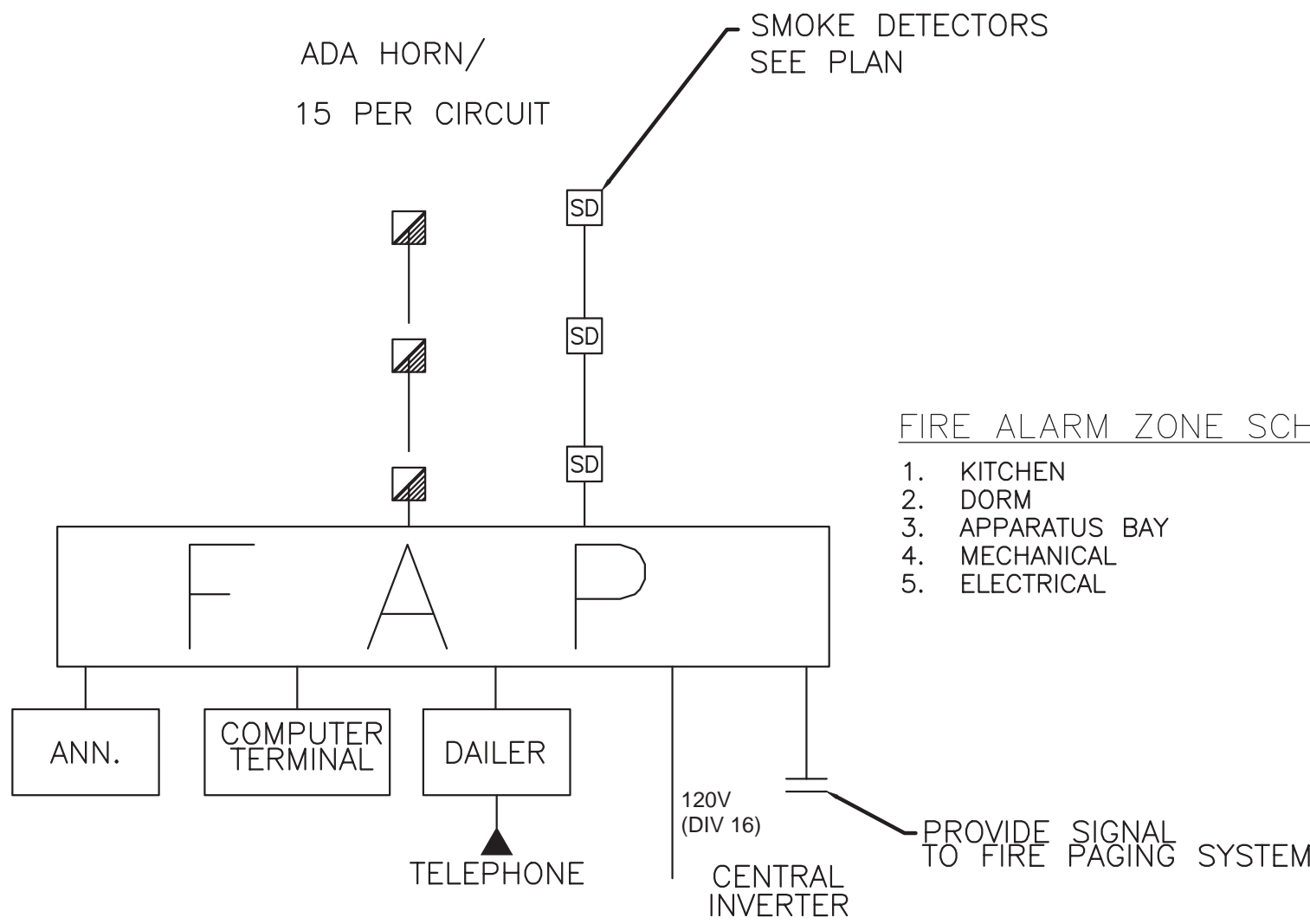
LIGHTING DETAILS AND SCHEDULES

PROJ. NO. 2013-247.001
PROJECT DATE: 05/05/14
SHEET NUMBER:

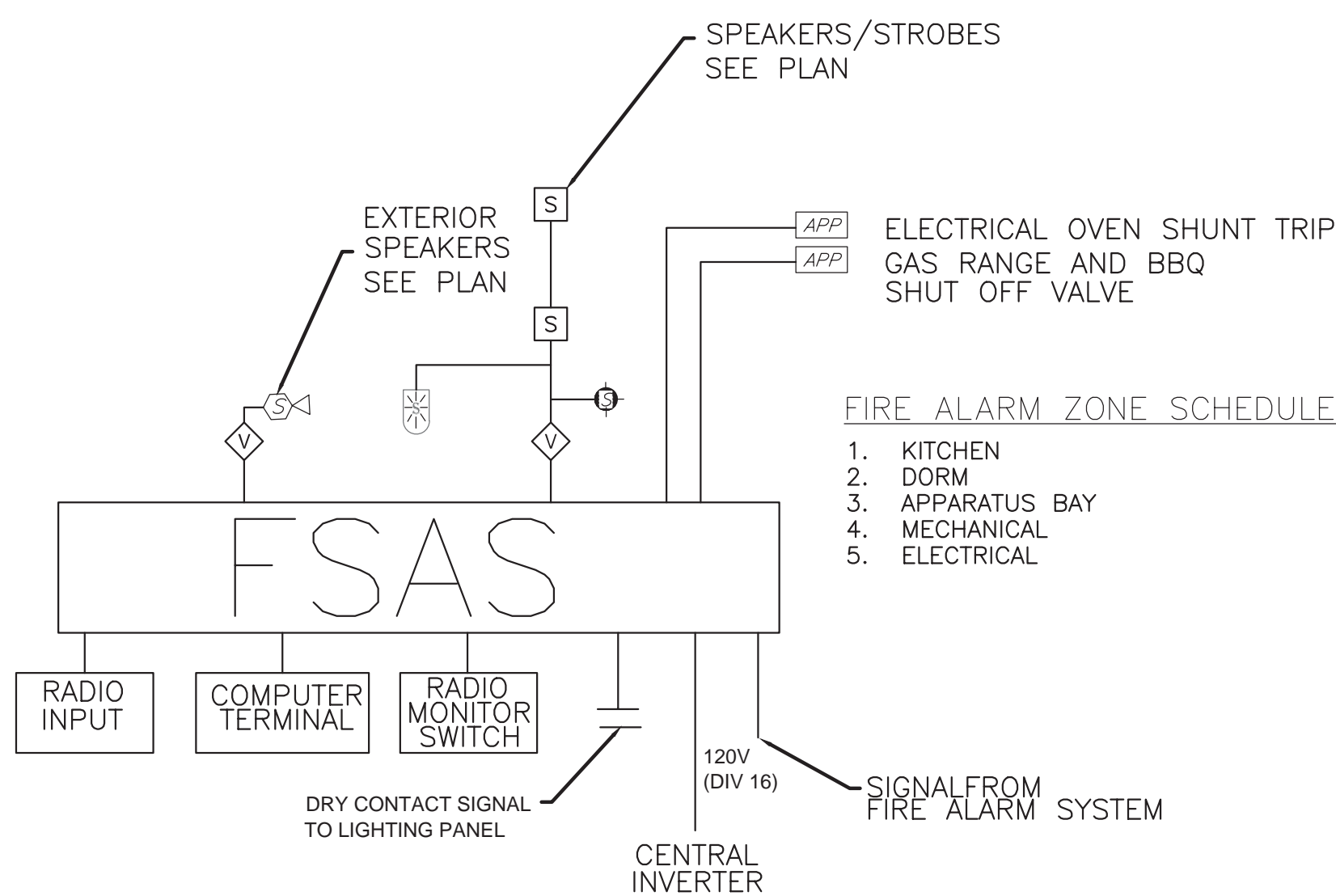
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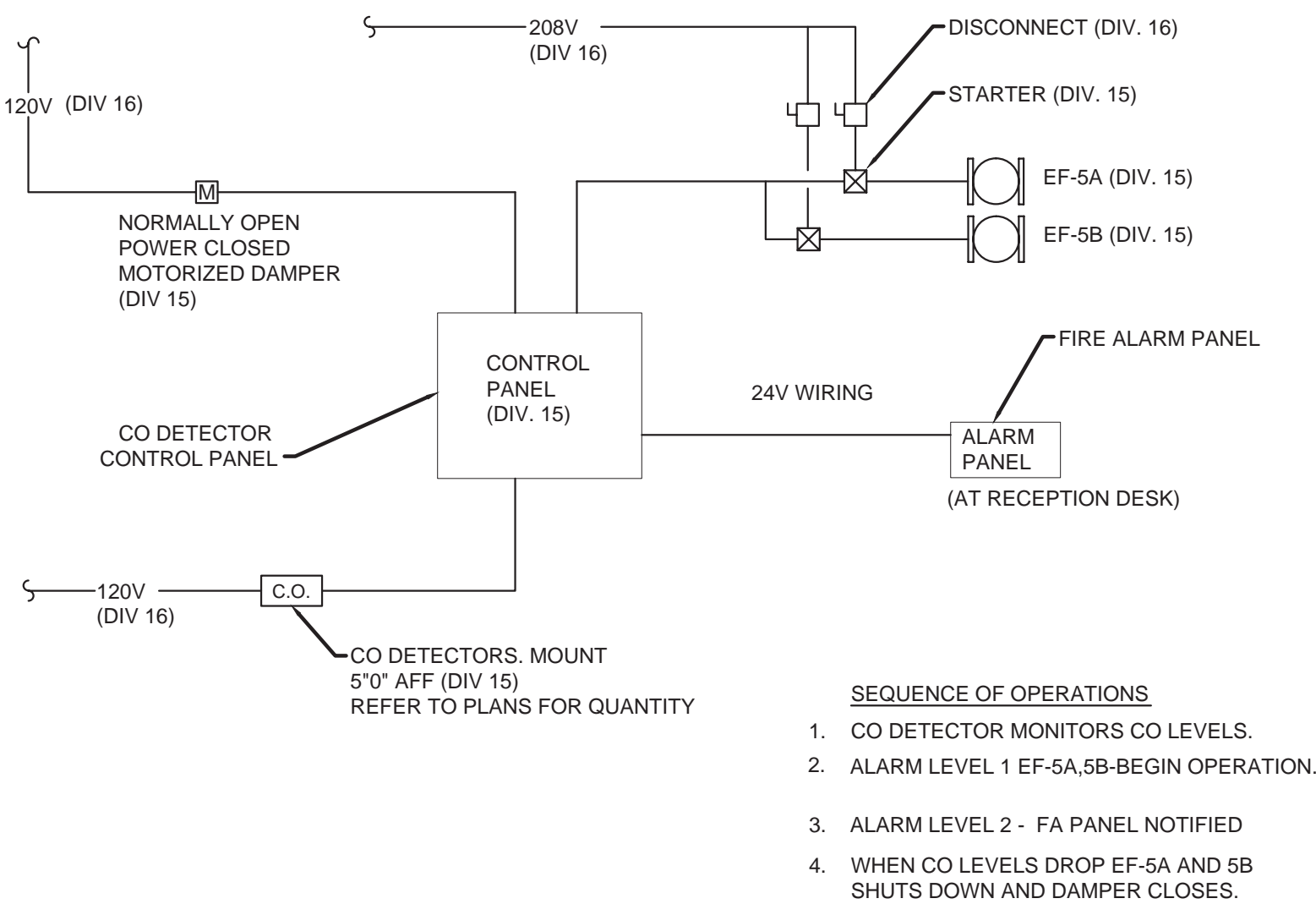
TELEPHONE ONE LINE DIAGRAM
NO SCALE



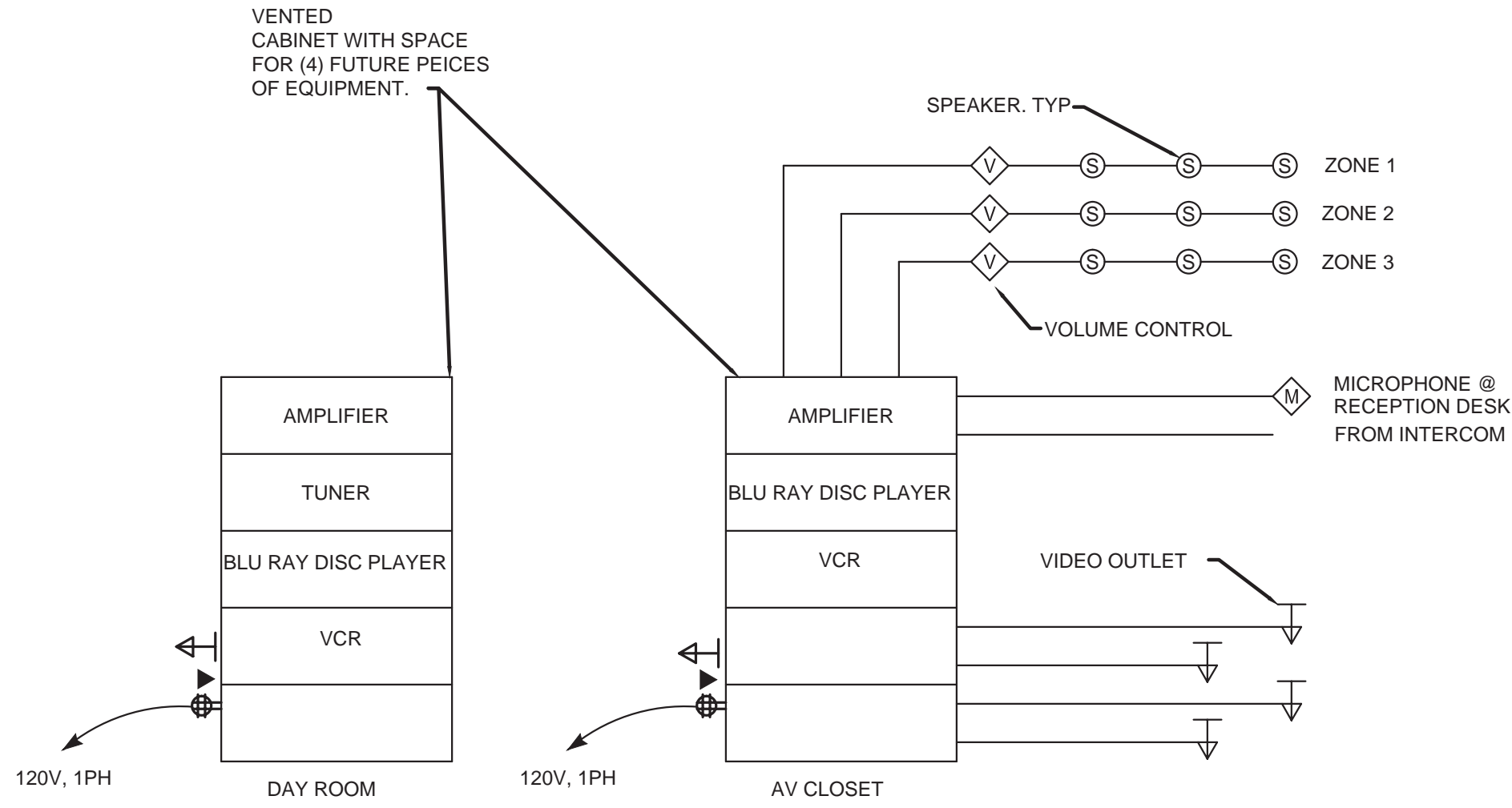
FIRE ALARM ONE LINE DIAGRAM
NO SCALE:



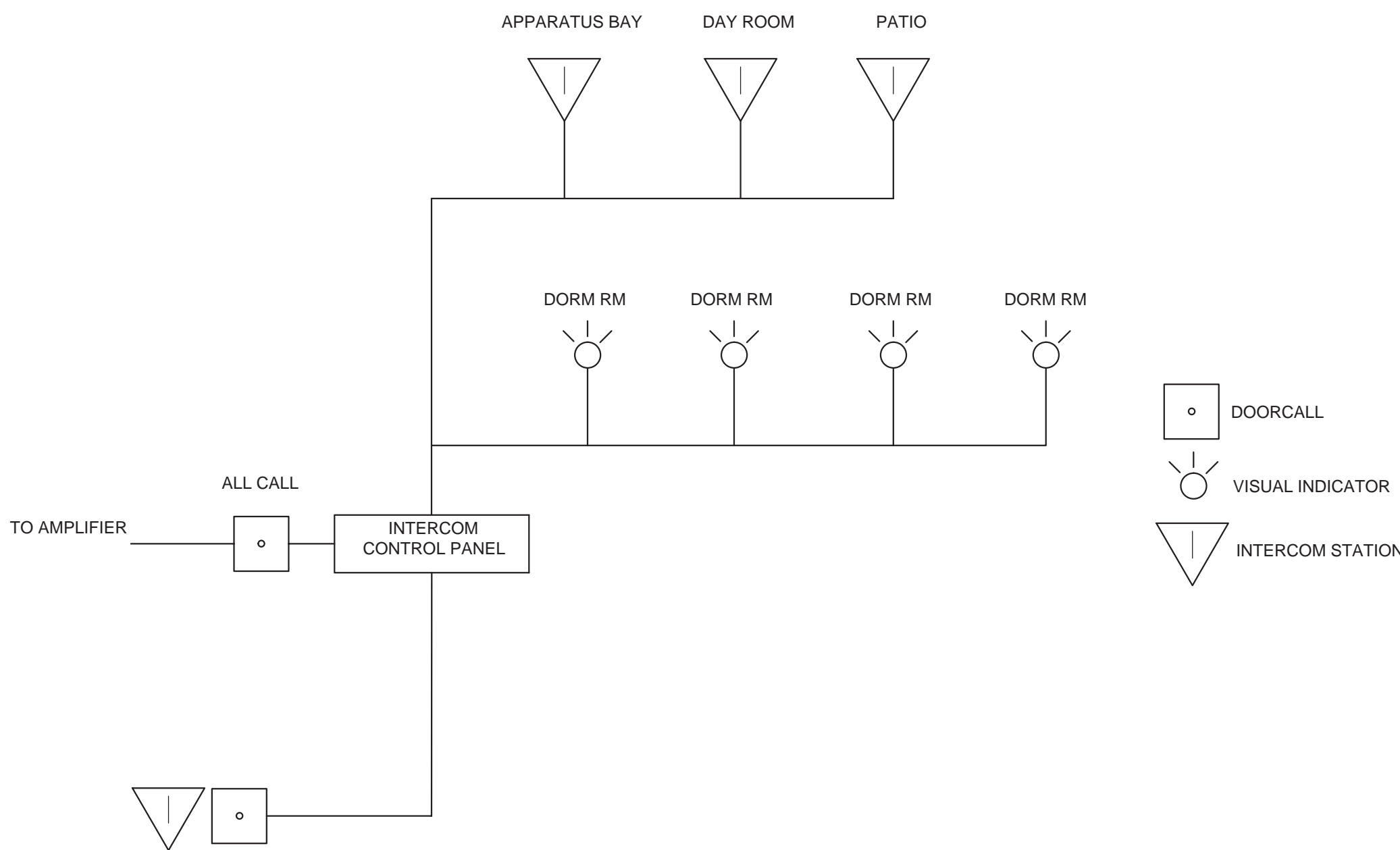
FIRE PAGING ONE LINE DIAGRAM
NO SCALE:



CARBON MONOXIDE
WIRING DIAGRAM
NO SCALE



AV SYSTEM ONE-LINE DIAGRAM
NO SCALE



INTERCOM - DOORBELL ONE-LINE DIAGRAM
NO SCALE:

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RIDGWAY FIRE STATION
RIDGWAY FIRE PROTECTION DISTRICT
LOT 26-B1, RIDGWAY, CO 81432

ISSUE LOG	
05/05/14	COORDINATION SET
05/09/14	BID SET



LOW VOLTAGE
DETAILS AND
SCHEDULES

PROJ. NO. 2013-247.001
PROJECT DATE: 05/05/14
SHEET NUMBER:

E-5.03