

KEYNOTES

1. PROVIDE FIXTURE WITH DIMMING BALLAST CONNECTED TO DAYLIGHT SENSOR IN ROOM.
2. "NL" DENOTES NIGHT LIGHT FIXTURE, WHICH IS TO BE OPERATING IN THE "ON" POSITION AT ALL TIMES.
3. PO/TO DENOTES PHOTOCELL ON; TIMECLOCK OFF.
4. PROPOSED LOCATION OF PHOTOCELL.
5. PROVIDE 1400 LUMEN BATTERY PACK TO EACH DENOTED EM FIXTURE (HALF SOLID HATCHED FIXTURE.)

GENERAL NOTES

1. SWITCH LOCATIONS SHOWN AT WALL SYSTEM PANELS ARE SHOWN FOR INFORMATION PURPOSES ONLY. EXACT LOCATION WILL BE DETERMINED BY OWNER AND/OR WALL SYSTEM SUPPLIER. COORDINATE EXACT REQUIREMENTS WITH THE GENERAL CONTRACTOR PRIOR TO START OF WORK.

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COA 15 TLC NO: 412033
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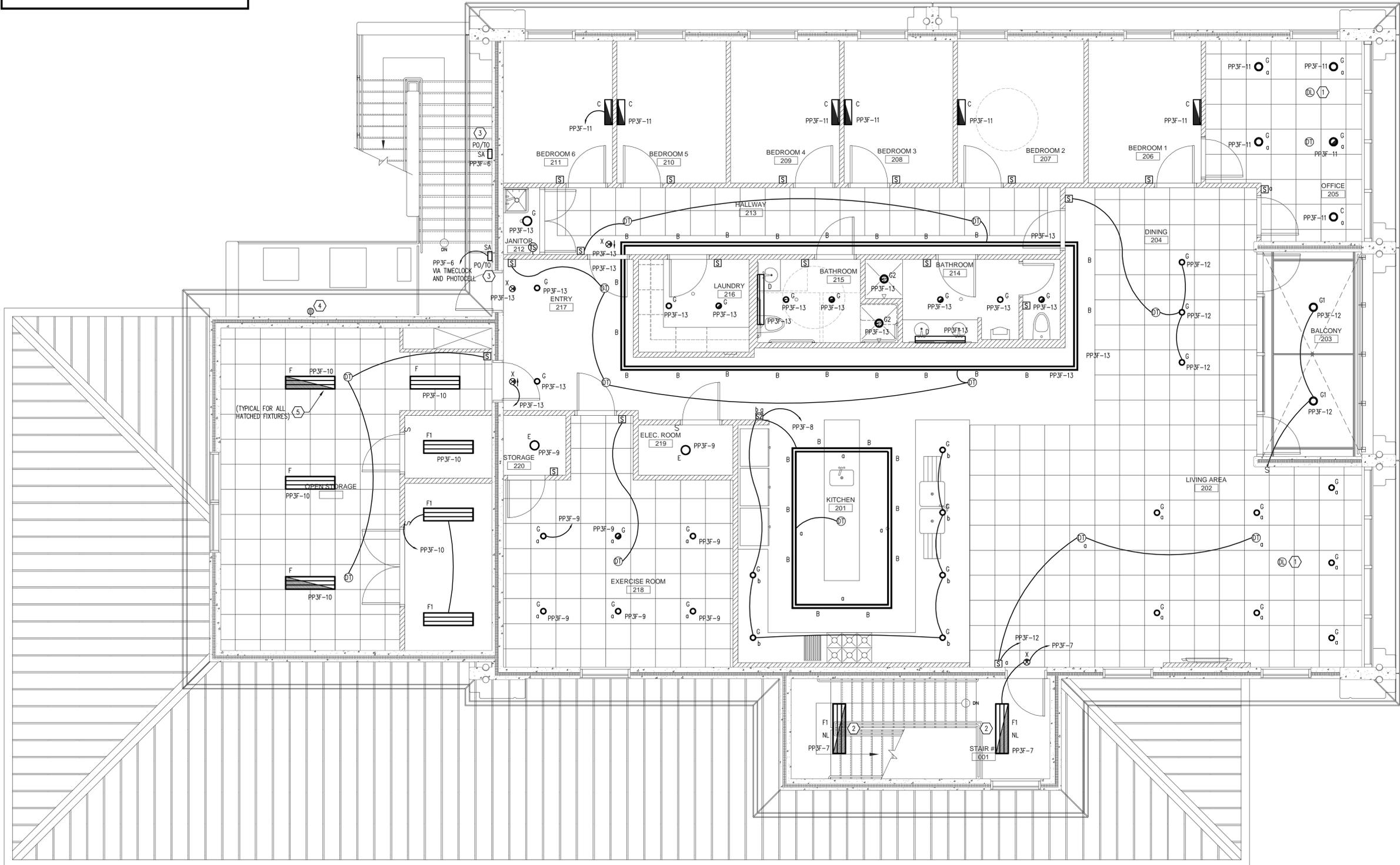
Submissions:
2013.02.15 - Bidding Documents

FIRE STATION #2
616 Simonton Street, Key West, Florida
BUILDING AND SITE DEVELOPMENT
FOR
City of Key West, 3132 Flagler Avenue, Key West, Florida 33040

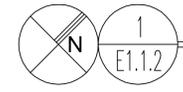
Drawing Size: 24x36 Project #: MK-12060
Drawn By: Checked By:

Title:
SECOND FLOOR
PLAN - EDITME

Sheet Number:
E1.1.2
Date: February 15, 2013
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1 SECOND FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"



KEYNOTES

1. SIMPLEX 125V, 20A, GFCI RECEPTACLE (MTD. 36" A.F.F.) FOR SERVICE TO REFRIGERATOR.
2. GARBAGE DISPOSAL OUTLET. 20A, 125V, SIMPLEX PEDESTAL GFCI RECEPTACLE, FLOOR MOUNTED UNDER SINK, COORDINATE LOCATION WITH PLUMBING STUBOUTS. SWITCH LOCATION TO BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. TRASH COMPACTOR OUTLET. 20A, 125V, SIMPLEX PEDESTAL FLOOR MOUNTED GFCI RECEPTACLE, COORDINATE LOCATION WITH KITCHEN CONSULTANT PRIOR TO START OF WORK.
4. JUNCTION BOX FOR CONNECTION TO HOOD LIGHTS. LIGHTS ARE PROVIDED AS AN INTEGRAL PART OF THE HOOD. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR PRIOR TO START OF WORK.
5. JUNCTION BOX FOR CONNECTION TO GAS IGNITION CIRCUIT. COORDINATE EXACT REQUIREMENTS WITH THE GENERAL CONTRACTOR PRIOR TO START OF WORK.
6. JUNCTION BOX FOR INTERFACE WITH THE HOOD FIRE SUPPRESSION SYSTEM AND THE FIRE ALARM SYSTEM. COORDINATE ALL REQUIREMENTS WITH THE FIRE PROTECTION CONTRACTOR PRIOR TO START OF WORK.
7. JUNCTION BOX (MOUNTED 48" A.F.F.) FOR REMOTE PULL STATION. PULL STATION AND WIRING WILL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR. COORDINATE ALL WORK WITH SAME PRIOR TO START OF WORK.
8. 3/4" CONDUIT FOR WIRING PROVIDED BY THE FIRE PROTECTION CONTRACTOR.
9. VRF SOLENOID VALVE KIT
10. NEMA 1, 240V, 3P., 60A. DISCONNECT SWITCH. CONNECT TO ASSOCIATED CONDENSING UNIT.
11. NEMA 3R, 240V, 2P., 60A. DISCONNECT SWITCH.
12. OUTLET FOR FUTURE DRYER. 30A., 208V. SPECIAL PURPOSE RECEPTACLE, MOUNT AT 48" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
13. OUTLET FOR FUTURE WASHING MACHINE. 20A., 125V. SIMPLEX RECEPTACLE, MOUNT AT 48" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.

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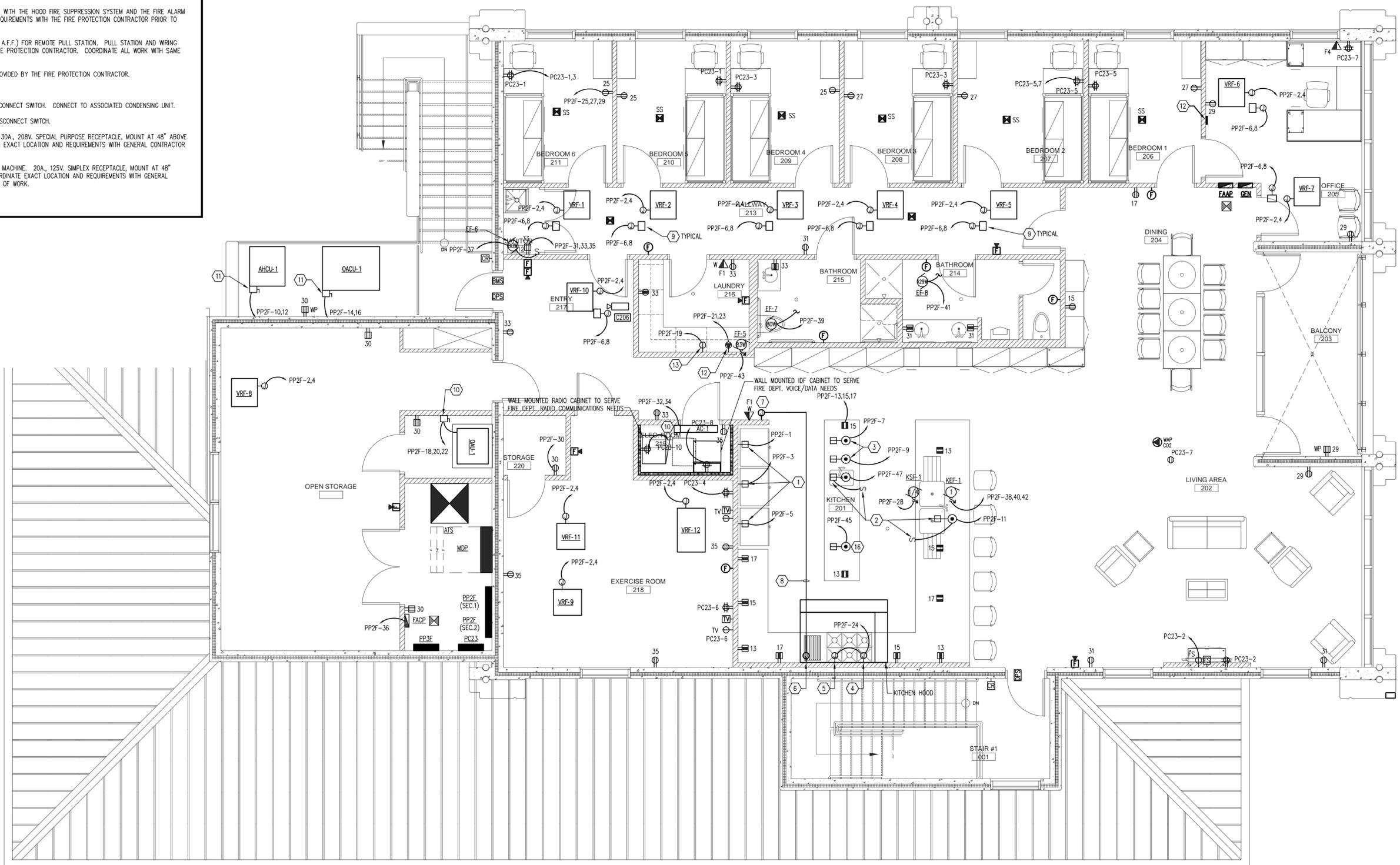
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BUILDING AND SITE DEVELOPMENT
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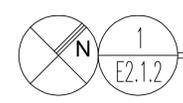
Drawing Size: 24x36 Project #: MK-12060
Drawn By: Checked By:

Title:
SECOND FLOOR PLAN - POWER AND SYSTEMS

Sheet Number:
E2.1.2
Date: February 15, 2013
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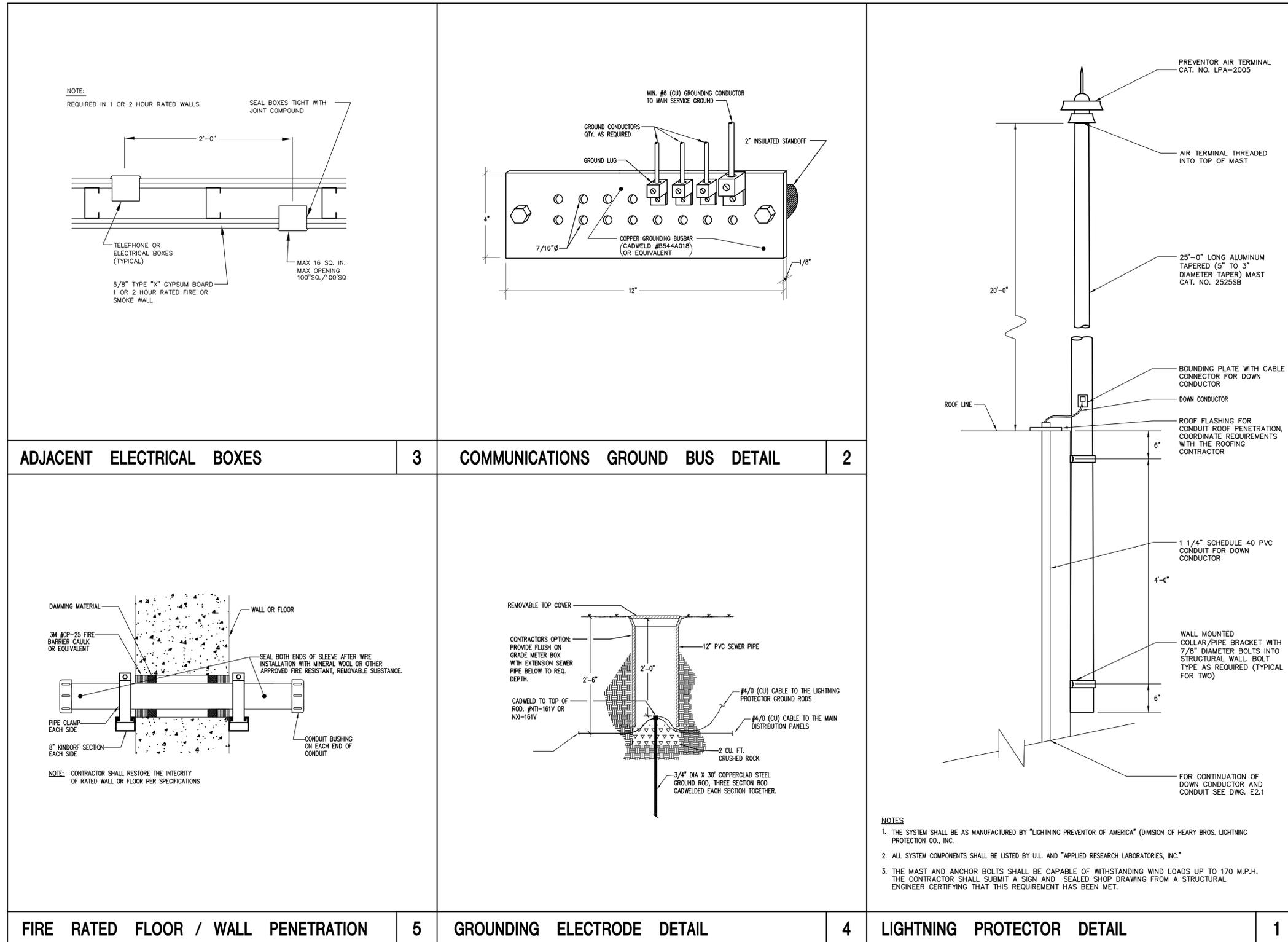


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1 SECOND FLOOR PLAN - POWER AND SYSTEMS
SCALE: 1/4" = 1'-0"





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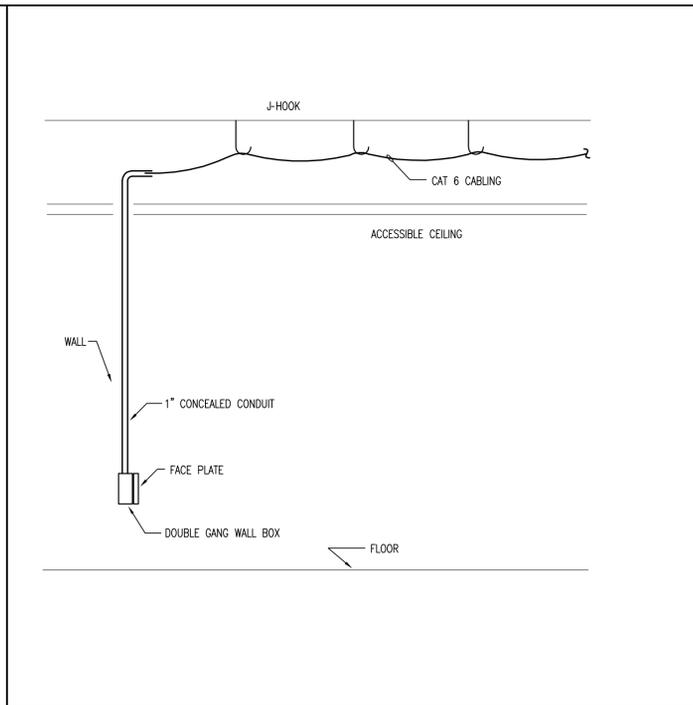
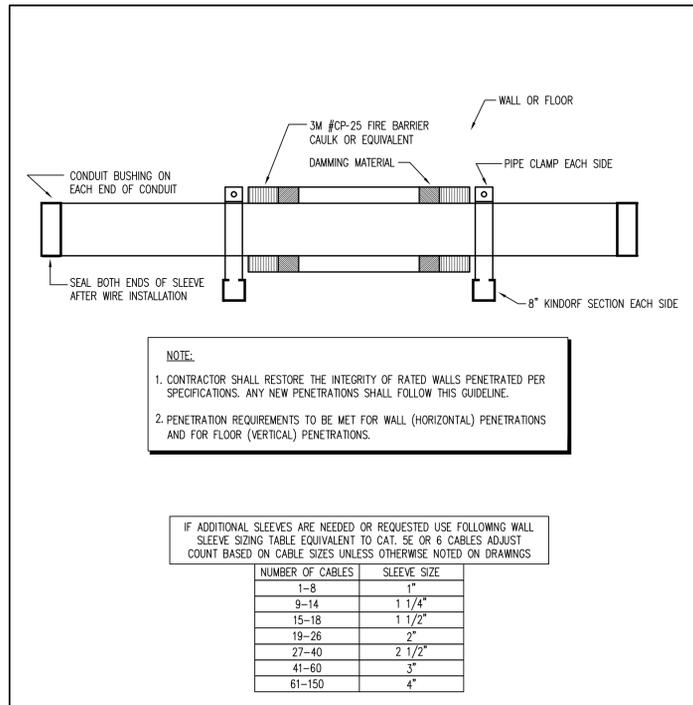
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Drawing Size: 24x36 Project #: MK-12060
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Title: DETAILS - ELECTRICAL

Sheet Number:
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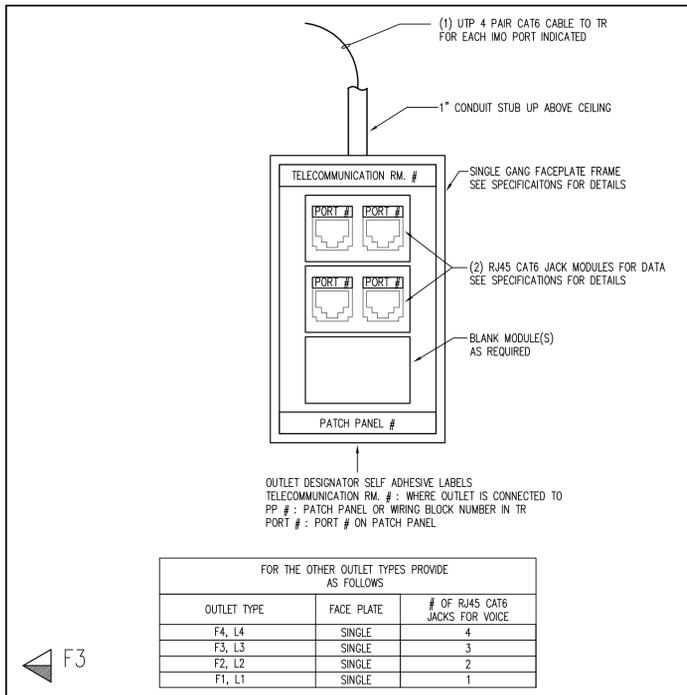


HORIZONTAL/VERTICAL PENETRATION
No Scale

2

FLUSH OUTLET AND CONDUIT
No Scale

1

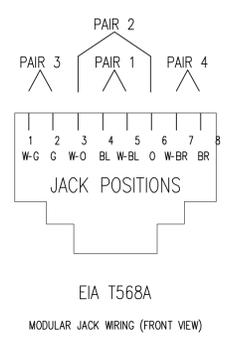


WALL MOUNTED IMO DEVICE - NON-KEYED

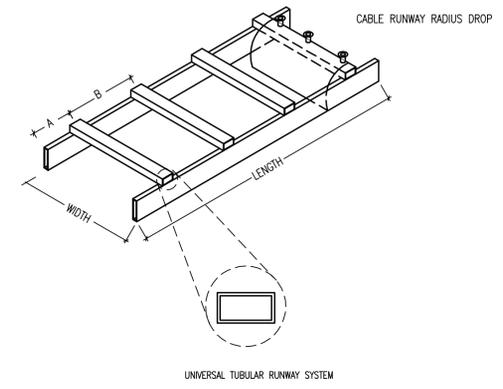
5

MODULAR JACK WIRING DETAIL
No Scale BY SCS CONTRACTOR

4



NOTES:
"A" MEASURED FROM END OF STRINGER TO MIDDLE OF CROSS SLAT.
"B" MEASURED FROM MIDDLE OF CROSS SLATS.



TUBULAR RUNWAY
No Scale

3

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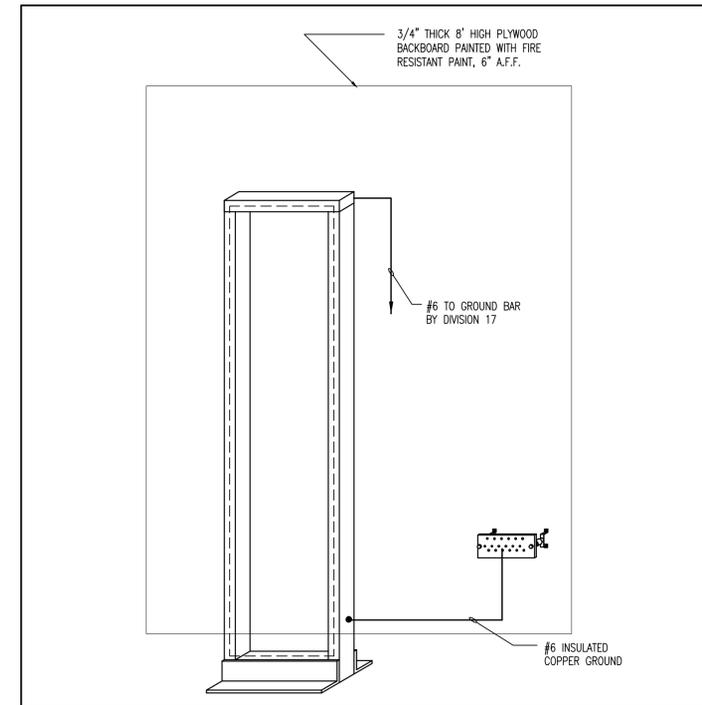
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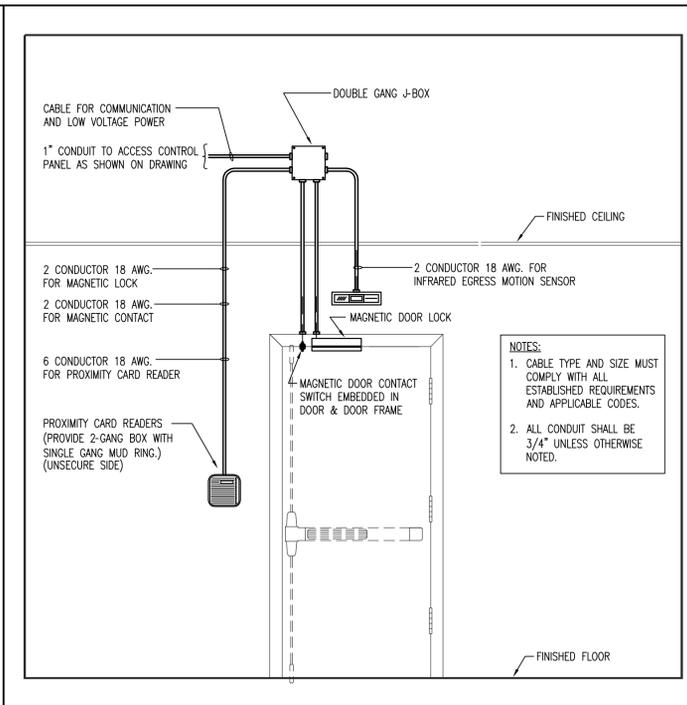
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Title:
DETAILS - TECHNOLOGY

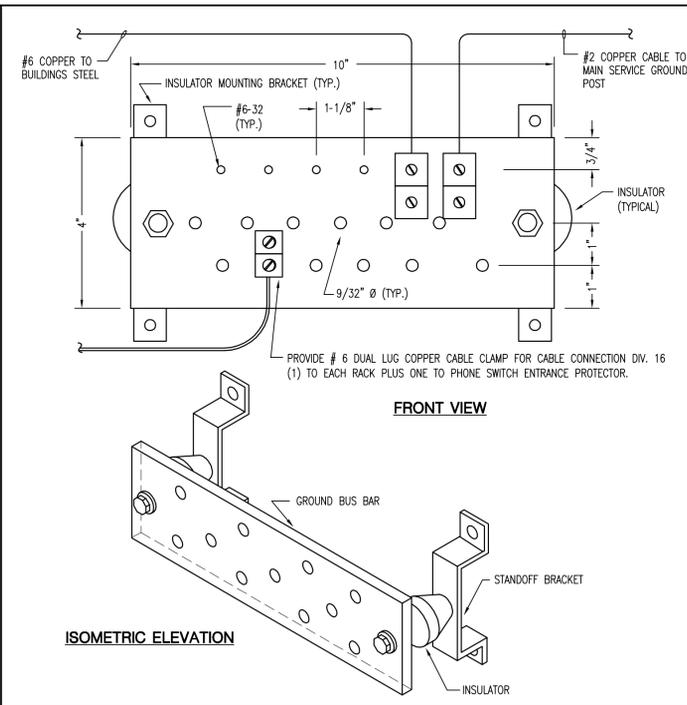
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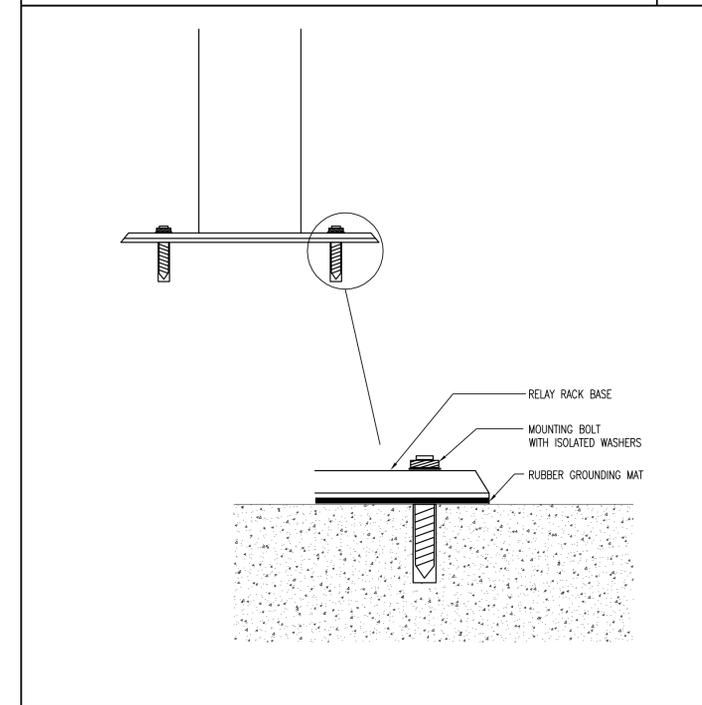
RACK ISOMETRIC VIEW
No Scale



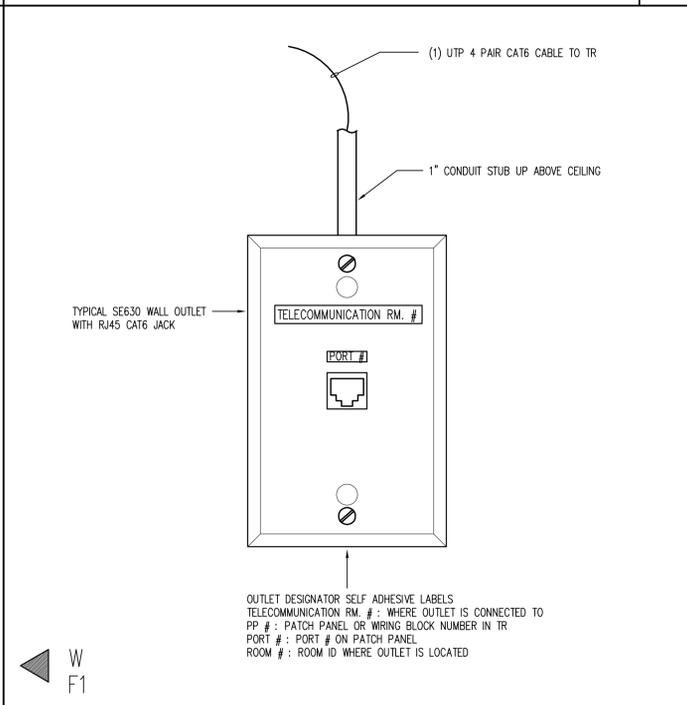
TYPICAL SECURITY DOOR
SINGLE DOOR - CARD READER WITH MAGNETIC LOCK AND DPS



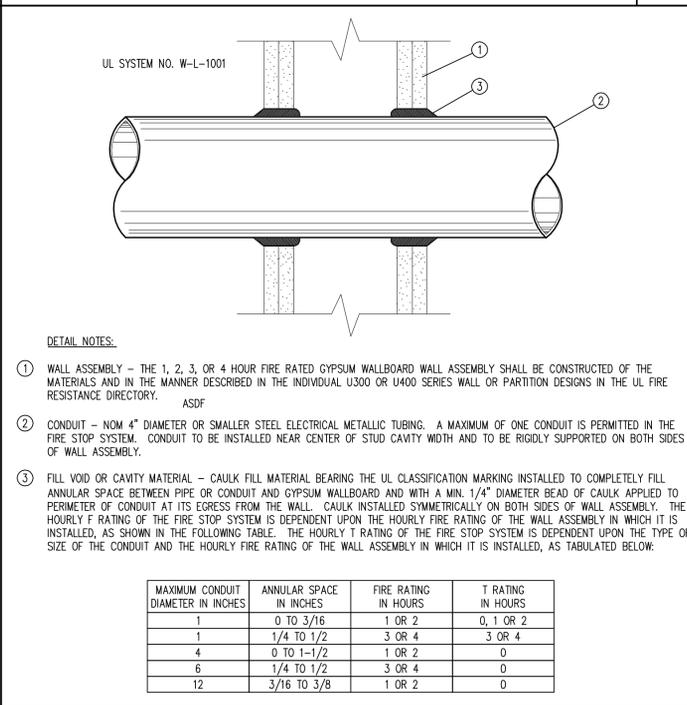
GROUND BUS BAR
No Scale



RACK MOUNTING ON CONCRETE
No Scale

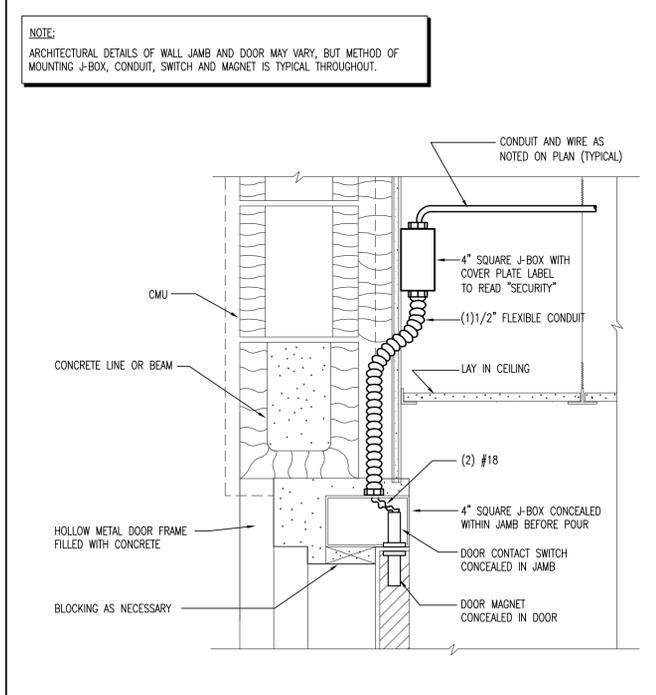


WALL PHONE OUTLET - W/F1
No Scale BY SCS CONTRACTOR

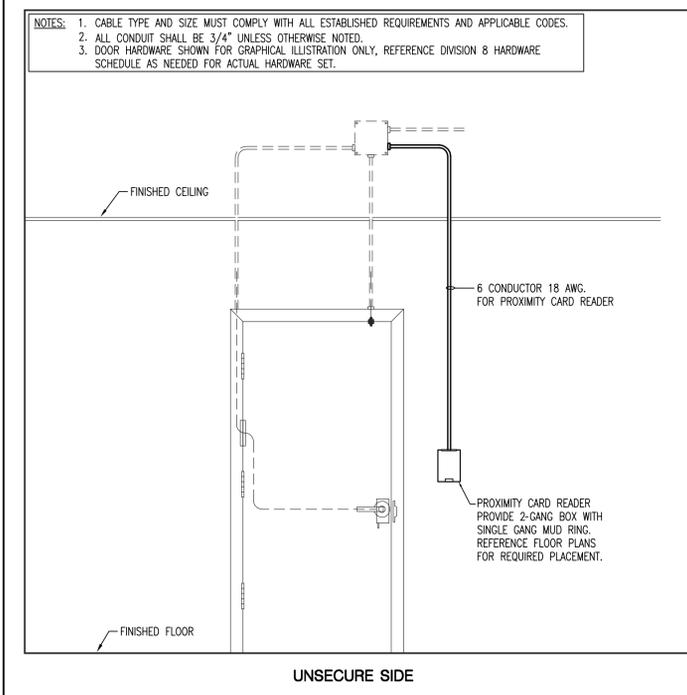


CONDUIT PENETRATION OF FIRE WALL
No Scale

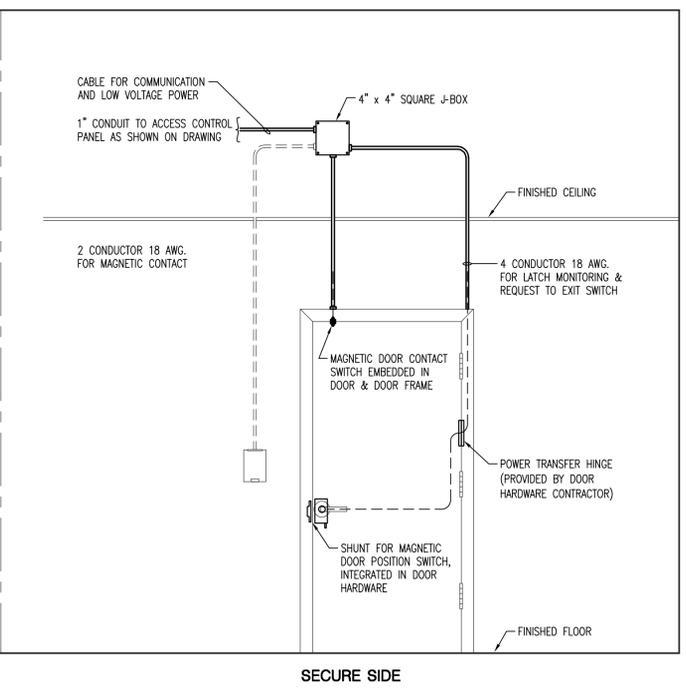
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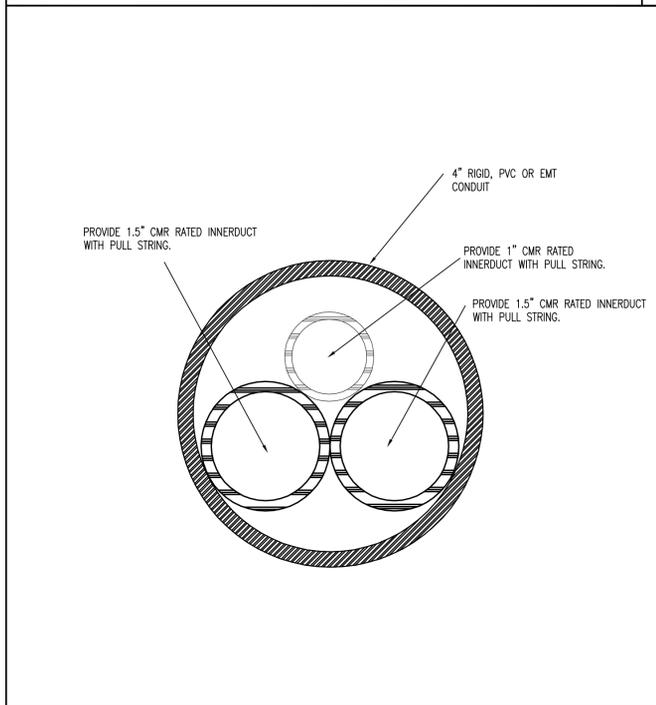
MAGNETIC DOOR CONTACT INSTALLATION
No Scale



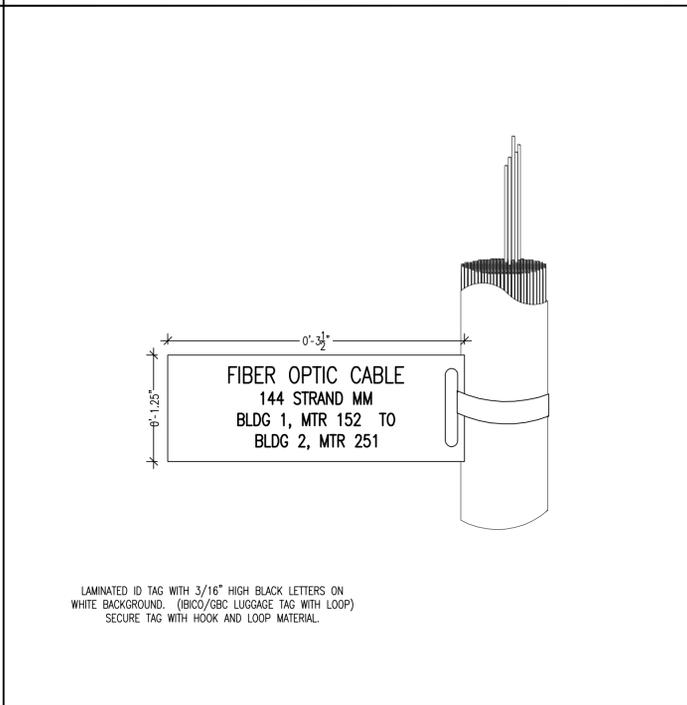
3 SECURITY SINGLE DOOR - ELECTRIC MORTISE LOCK WITH CARD READER AND DPS
No Scale



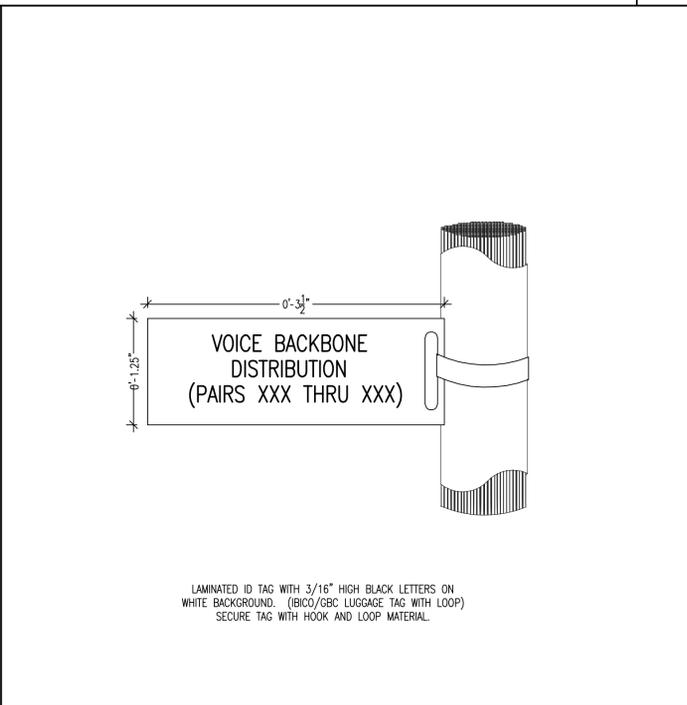
4



6 INNERDUCT INSTALLATION DETAIL
No Scale



5 TYPICAL FIBER OPTIC CABLE TAG DETAIL
No Scale



5 TYPICAL CABLE I.D. LABEL DETAIL
No Scale

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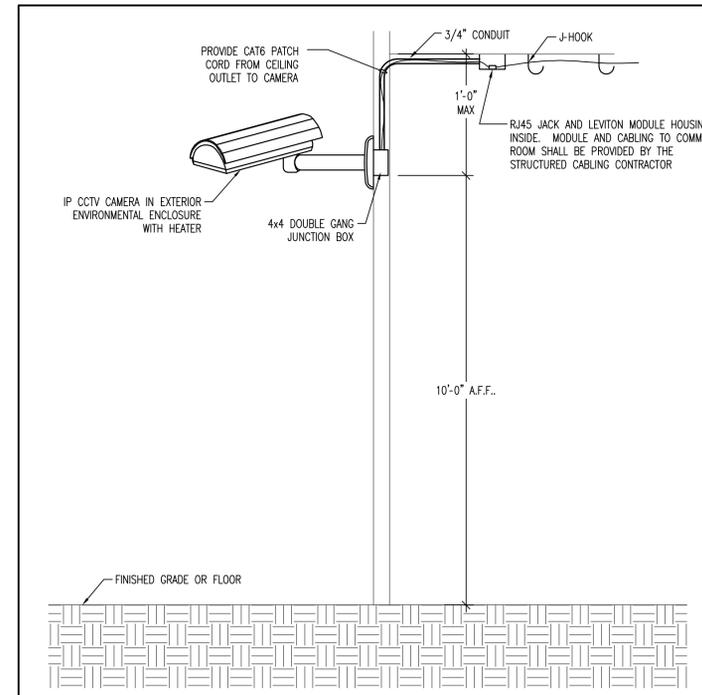
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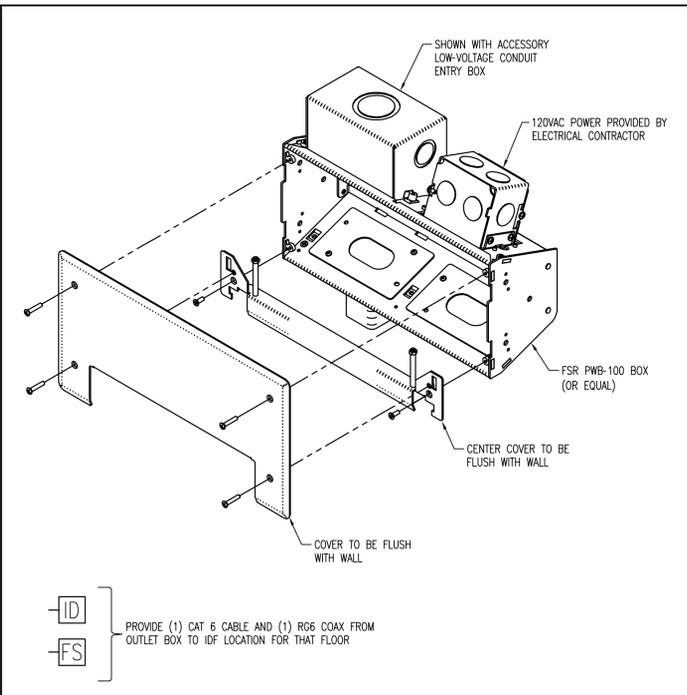
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TECHNOLOGY

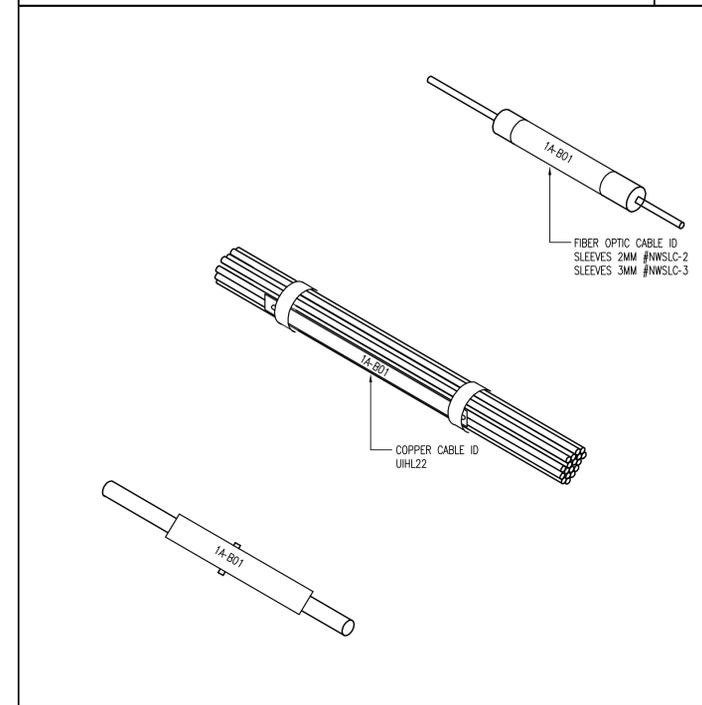
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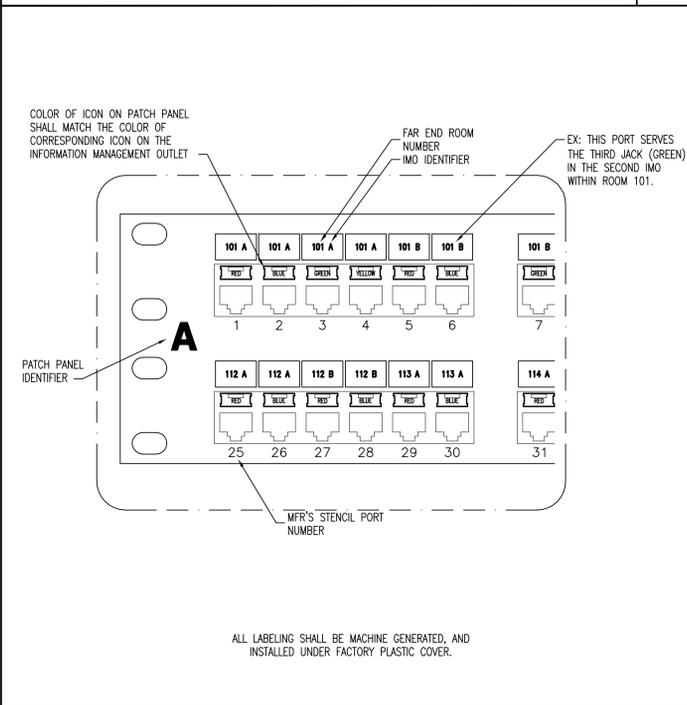
EXTERIOR WALL MOUNTED FIXED CAMERA
No Scale **2**



PLASMA/FLAT SCREEN WALL BOX
No Scale **1**



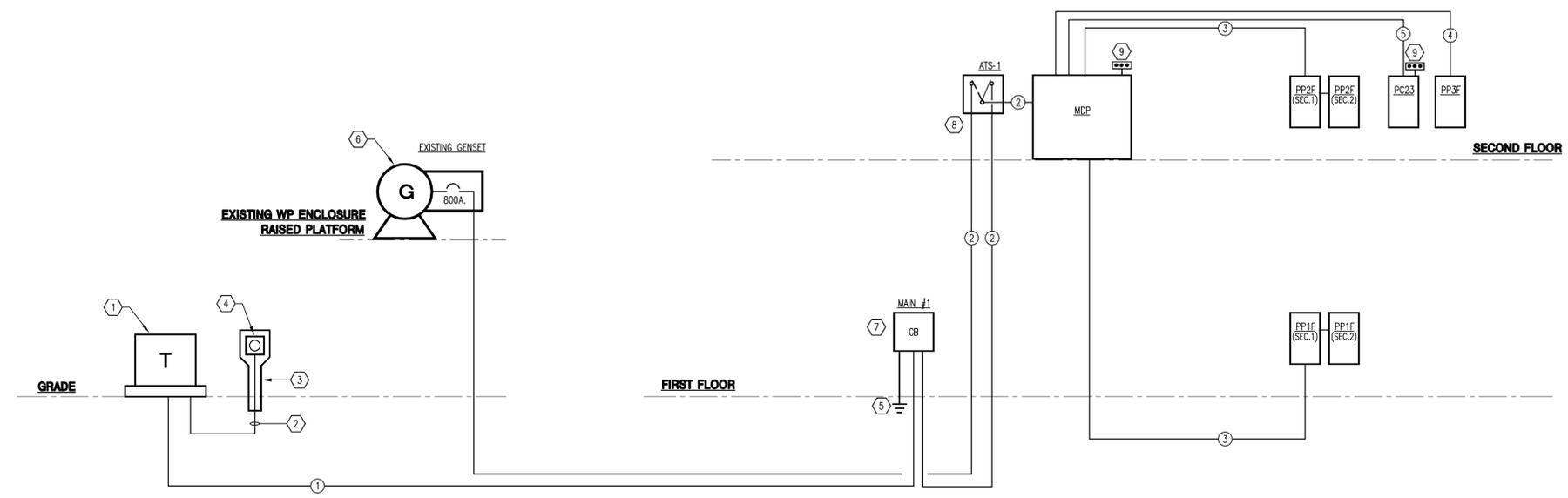
TYPICAL CABLE I.D. LABEL DETAIL
No Scale **4**



TYPICAL PATCH PANEL LABEL DETAIL
No Scale **3**

FEEDER SCHEDULE							
TAG NO.	CONDUIT		FEEDER (Cu)		GROUND		REMARKS
	NO.	SIZE	NO.	A.W.G. SIZE	NO.	A.W.G. SIZE	
①	2	4"	8	500MCM	--	--	SERVICE LATERAL
②	2	3 1/2"	8	500MCM	2	#1/0	--
③	1	2 1/2"	4	#4/0	1	#4	--
④	1	1 1/2"	5	#3	1	#8	--
⑤	1	1 1/4"	4	#3	1	#8	--

- KEY NOTES**
- UTILITY COMPANY (KEY'S ENERGY) PAD MOUNTED TRANSFORMER. COORDINATE ALL REQUIREMENTS WITH KEY'S ENERGY PRIOR TO START OF WORK.
 - 1 1/2" PVC CONDUIT WITH METER WIRING AS REQUIRED, COORDINATE WITH KEY'S ENERGY.
 - PRECAST CONCRETE METER PEDESTAL.
 - WATT/HOUR METER, TYPE AS REQUIRED BY KEY'S ENERGY.
 - GROUNDING ELECTRODE, SIZED AS REQUIRED BY THE N.E.C.
 - EXISTING 250KW (312.6 KVA @ 80% P.F., 208Y/120V., 3-PHASE, 4-WIRE, 60HZ.) EMERGENCY GENERATOR.
 - NEMA 3R, 208V., 3-PHASE, S.N., 800A. (36,000A. AIC) MAIN CIRCUIT BREAKER
 - NEMA 1, 208V., 3-PHASE, S.N., 800A. AUTOMATIC TRANSFER SWITCH "ATS-1".
 - TVSS DEVICE, LEAD LENGTH NOT TO EXCEED MANUFACTURERS RECOMMENDATIONS.



POWER DISTRIBUTION DIAGRAM

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 City of Key West, 3132 Flagler Avenue, Key West, Florida 33040

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Name: PP1F

Project Name: Key West Fire Station #2
Project Number: 412033
Fed From:

MAIN BREAKER: 225 AMPS 3 POLE 3 PHASE
MAIN LUGS: 4 WIRE
K.A.I.C.: 10 AMPS
SURFACE MTD: X
FLUSH MTD:

WIRE: 208Y/120V
480Y/277V
240/120V

NOTES	DXT	NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			CODE	IDENTIFICATION	DXT	NO	NOTES
					A	B	C	TRIP	POLES	POLES	TRIP	A	B					
1	1		RECEPTACLES	R	1.1			20	1	2	60	4.5	4.5	R	ELEC WATER HEATER "EWH-1"	2	5	
1	3		RECEPTACLES	R		0.9		20	1					R		4		
1	5		RECEPTACLES	R			0.5	20	1	1	20		1.5	R	WASHER	6	1	
1	7		WASHER	R	1.5			20	1	2	30	2.5		D	DRYER	8	2	
2	9		DRYER	D		2.5		30	2			2.5		D		10		
11				D			2.5			3		35		M	EXHAUST FAN "EF-1"	12	4	
1	13		ICE MACHINE	R	1.0			20	1			2.1		M		14		
2	15		EQUIPMENT	R		2.0		30	2			2.1		M		16		
17				R			2.0			3		20		M	EXHAUST FAN "EF-2"	18	3	
1	19		POWER CORD REEL	R	1.0			20	1			1.3		M		20		
1	21		POWER CORD REEL	R		1.0		20	1				1.3	M		22		
1	23		POWER CORD REEL	R			1.0	20	1	1	15		0.2	M	EXHAUST FAN "EF-3"	24	1	
1	25		POWER CORD REEL	R	1.0			20	1	1	15	0.2		M	EXHAUST FAN "EF-4"	26	1	
1	27		POWER CORD REEL	R			1.0	20	1	1	20		0.7	M	CIRC PUMP "CP-1" & "MV-1"	28	1	
1&6	29		CARBON MONOXIDE SYSTEM PANEL	D			1.0	20	1	2	30		1.3	M	HYDRAULIC DOOR OPERATOR	30	2	
5	31		ELEC DUCT HEATER "EDH-1"	H	5.8			60	3			1.3		M		32		
33				H		5.6				2	30		1.3	M	HYDRAULIC DOOR OPERATOR	34	2	
35				H			5.7						1.3	M		36		
1	37		AIR HANDLER "AHU-1"	C	0.8			15	2	2	30	1.3		M	HYDRAULIC DOOR OPERATOR	38	2	
39				C		0.8							1.3	M		40		
41			VAR. REFRIG. FLOW "VRCU-1"	C			2.0	40	3	3	45		6.0	C	VAR. REFRIG. FLOW "VRCU-2"	42	2	
43				C	2.0							6.0		C		44		
45				C		2.0						6.0		C		46		
47			RECEPTACLES	R			1.1	20	1	1	20		0.0	S	SPARE	48		
49			SPARE	S	0.0			20	1	1	20		0.0	S	SPARE	50		
51			SPARE	S	0.0			20	1	1	20		0.0	S	SPARE	52		
53			SPARE	S			0.0			1	1		0.0	S	SPARE	54		
55			SPARE	S	0.0					1	1		0.0	S	SPARE	56		
57			SPARE	S		0.0				1	1		0.0	S	SPARE	58		
59			SPARE	S			0.0			1	1		0.0	S	SPARE	60		

CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
0.0	1.25	1.00	0.0
25.6	---	NEC	17.8
6.3	1.25	1.00	7.9
12.8	1.00	1.00	12.8
16.9	1.00	1.00	16.9
6.0	1.00	1.00	6.0
1.0	1.00	1.00	1.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
10.0	1.00	1.00	10.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0

TOTAL CONNECTED LOAD: 78.6 KVA
TOTAL DEMAND LOAD: 72.4 KVA
DEMAND AMPS: 201.1 AMPS
PERCENT IMBALANCE: 17 %

PANELBOARD NOTES:
1. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #12 & 1 #12 GROUND.
2. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #10 & 1 #10 GROUND.
3. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 3 #12 & 1 #12 GROUND.
4. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 3 #8 & 1 #10 GROUND.
5. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 3 #6 & 1 #10 GROUND.
6. CIRCUIT BREAKER SHALL BE PROVIDED WITH A "LOCK-ON" DEVICE.

Name: PP3F

Project Name: Key West Fire Station #2
Project Number: 412033
Fed From:

MAIN BREAKER: 100 AMPS 3 POLE 3 PHASE
MAIN LUGS: 100 AMPS
K.A.I.C.: 10 AMPS
SURFACE MTD: X
FLUSH MTD:

WIRE: 208Y/120V
480Y/277V
240/120V

NOTES	DXT	NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			CODE	IDENTIFICATION	DXT	NO	NOTES
					A	B	C	TRIP	POLES	POLES	TRIP	A	B					
1			EXTERIOR BREEZEWAY LIGHTING	L	0.2			20	1	1	20	0.5		L	MEN'S/WOMEN'S REST RM. 105/106	2		
3			REST RM./STORAGE/LAUNDRY LIT.	L		0.2		20	1	1	20		1.4	L	EQUIPMENT BAY LIGHTS #1	4		
5			EQUIP. BAY/ MEZZ. LIGHTS #2	L			1.1	20	1	1	20		0.2	L	EXTERIOR SCENE LIGHTING	6		
7			STAIRWAY NIGHT LIGHTING	L	0.1			20	1	1	20	0.6		L	KITCHEN LIGHTING	8		
9			EXERCISE/ELEC./STRG. LIGHTING	L		0.2		20	1	1	20		0.2	L	OPEN STORAGE/ELEC. RM. LIT.	10		
11			BEDROOMS/OFFICE LIGHTING	L			0.4	20	1	1	20		0.4	L	LIVING/DINING/BALCONY LIGHTING	12		
13			LAUNDRY/BATH/ENTRY/HALLWAY	L	1.2			20	1	1	20	1.4		O	WOMEN'S HAND DRYER #1	14		
15			MEN'S HAND DRYER #1	O		1.4		20	1	1	20		1.4	O	WOMEN'S HAND DRYER #2	16		
17			MEN'S HAND DRYER #2	O			1.4	20	1	1	20		1.4	L	SITE LIGHTING #1	18		
19			SITE LIGHTING #2	L	1.4			20	1	1	20	2.5		O	EV CHARGING STATION (FUTURE)	20		
21			EV CHARGING STATION (FUTURE)	O		2.5		20	1	1	20		2.5	O		22		
23				O			2.5	20	1	1	20			S	SPARE	24		

CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
9.6	1.25	1.00	12.0
0.0	---	NEC	0.0
0.0	1.25	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0

TOTAL CONNECTED LOAD: 25.2 KVA
TOTAL DEMAND LOAD: 27.6 KVA
DEMAND AMPS: 76.6 AMPS
PERCENT IMBALANCE: 26 %

PANELBOARD NOTES:
BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #12 & 1 #12 GROUND UNLESS OTHERWISE NOTED.

Name: PP2F

Project Name: Key West Fire Station #2
Project Number: 412033
Fed From:

MAIN BREAKER: 225 AMPS 3 POLE 3 PHASE
MAIN LUGS: 225 AMPS
K.A.I.C.: 10 AMPS
SURFACE MTD: X
FLUSH MTD:

WIRE: 208Y/120V
480Y/277V
240/120V

NOTES	DXT	NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			CODE	IDENTIFICATION	DXT	NO	NOTES
					A	B	C	TRIP	POLES	POLES	TRIP	A	B					
1	1		REFRIGERATOR	K	0.8			20	1	2	20	0.9		C	VAR. REFRIG. FLOW EVAP "VRF-1"-"VRF-12"	2		
1	3		REFRIGERATOR	K		0.8		20	1			0.9		C		4		
1	5		REFRIGERATOR	K			0.8	20	1	2	20		0.3	C	SOLENOID VALVE KITS FOR VRTS	6		
1	7		TRASH COMPACTOR	K	1.4			20	1			0.3		C		8		
1	9		TRASH COMPACTOR	K		1.4		20	1	2	60		3.6	C	COND UNIT "ACU-1"	10	4	
1	11		GARBAGE DISPOSAL	K			0.7	20	1				3.6	C		12		
1	13		SMALL APPLIANCE	K	1.5			20	1	2	30		4.0	C	OUTSIDE AIR COND UNIT "OACU-1"	14	5	
1	15		SMALL APPLIANCE	K		1.5		20	1				4.0	C		16		
1	17		SMALL APPLIANCE	K			1.5	20	1	3	45		4.5	H	OUTSIDE AIR UNIT "OAU-1"	18	6	
1	19		WASHER	R	1.5			20	1			4.5		H		20		
2	21		DRYER	D		2.5		30	2			4.5		H		22		
23				D			2.5			1	20		0.5	R	GAS IGNITION AND HOOD	24		
1	25		RECEPTACLES	R	1.1			20	1	1	20	0.0		S	SPARE	26		
1	27		RECEPTACLES	R		1.1		20	1	1	15		0.7	M	SUPPLY FAN "KSF-1"	28	1	
1	29		RECEPTACLES	R			1.1	20	1	1	20		0.6	R	RECEPTACLES	30		
1	31		RECEPTACLES	R	1.1			20	1	2	30		2.3	C	CUTLESS SPLIT "AC-1" / "OU-1"	32	3	
1	33		RECEPTACLES	R		0.9		20	1				2.3	C		34		
1	35		RECEPTACLES	R			0.7	20	1	1	20		0.2	O	FACP	36	1	
1	37		EXHAUST FAN "EF-6"	M	0.1			15	1	3	15		0.6	M	EXHAUST FAN "KEF-1"	38	7	
1	39		EXHAUST FAN "EF-7"	M			0.1	15	1				0.8	M		40		
1	41		EXHAUST FAN "EF-8"	M			0.1	15	1				0.6	M		42		
1	43		EXHAUST FAN "EF-5"	M	0.1			15	1	1	20		0.0	S	SPARE	44		
1	45		ICE MAKER	K		0.8		20	1	1	20		0.0	S	SPARE	46		
1	47		GARBAGE DISPOSAL	K			0.7	20	1	1	20		0.0	S	SPARE	48		

CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
0.0	1.25	1.00	0.0
8.6	---	NEC	8.6
1.8	1.25	1.00	2.3
1.1	1.00	1.00	1.1
13.5	1.00	1.00	13.5
20.4	1.00	1.00	20.4
0.2	1.00	1.00	0.2
0.0	1.00	1.00	0.0
0.0	1.00	1.00	0.0
5.0	1.00	1.00	5.0
0.0	1.00	1.00	0.0
11.9	1.00	1.00	11.9

TOTAL CONNECTED LOAD: 62.5 KVA
TOTAL DEMAND LOAD: 63.0 KVA
DEMAND AMPS: 175.0 AMPS
PERCENT IMBALANCE: 28 %

PANELBOARD NOTES:
1. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #12 & 1 #12 GROUND.
2. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #10 & 1 #10 GROUND.
3. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #12 & 1 #10 GROUND.
4. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 2 #6 & 1 #10 GROUND.
5. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 3 #8 & 1 #10 GROUND.
6. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 3 #6 & 1 #10 GROUND.
7. BRANCH CIRCUIT WIRING SHALL BE 3/4" C., 3 #12 & 1 #12 GROUND.

Name: PC23 (SEE NOTE #3)

Project Name: Key West Fire Station #2
Project Number: 412033
Fed From:

MAIN BREAKER: 100 AMPS 3 POLE 3 PHASE
MAIN LUGS: 100 AMPS
K.A.I.C.: 10 AMPS
SURFACE MTD: X
FLUSH MTD:

WIRE: 208Y/120V
480Y/277V
240/120V

NOTES	DXT	NO	IDENTIFICATION	CODE	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			CODE	IDENTIFICATION	DXT	NO	NOTES
					A	B	C	TRIP	POLES	POLES	TRIP	A	B					
1	1		COMPUTER RECEPTACLES	R	1.0			20	1	1	20	1.0		R	COMPUTER / TV RECEPTACLES	2	1	
1	3		COMPUTER RECEPTACLES	R		1.0		20	1	1	20		1.0	R	COMPUTER / TV RECEPTACLES	4	1	
1	5		COMPUTER RECEPTACLES	R			1.0	20	1	1	20		1.0	R	COMPUTER / TV RECEPTACLES	6	1	
1	7		COMPUTER RECEPTACLES	R	1.0			20	1	1	20	1.0						

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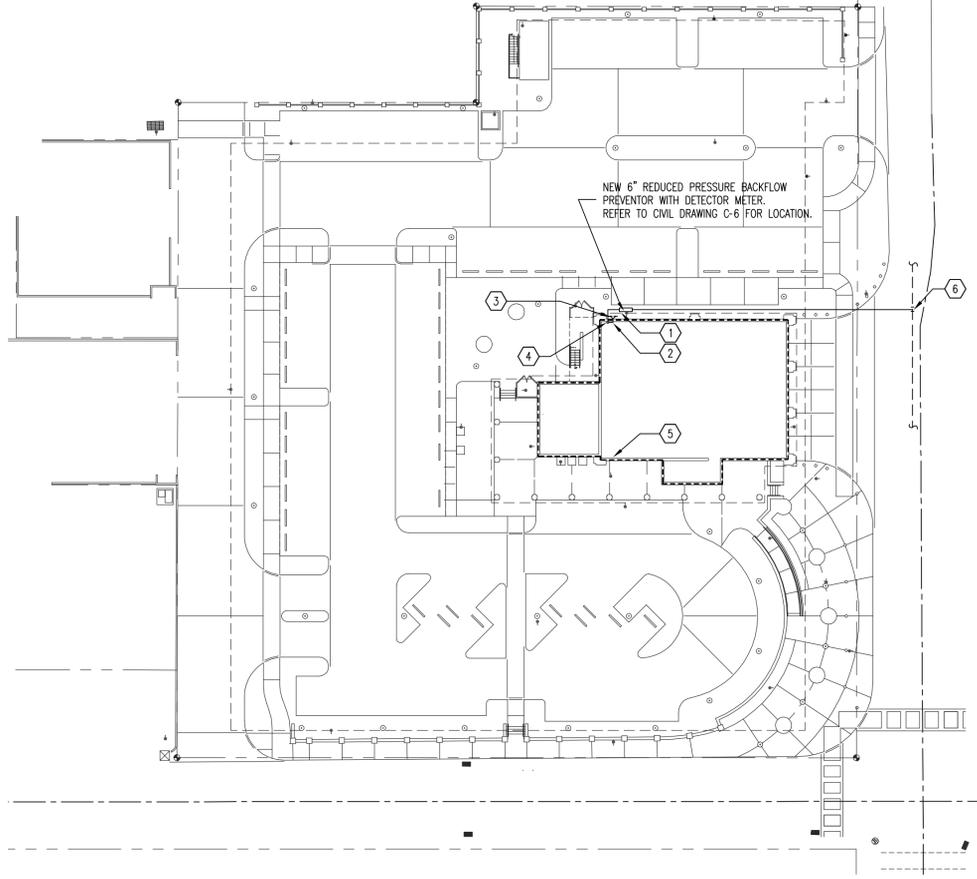
FIRE PROTECTION SYSTEM 61G15 REQUIREMENTS

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- NOTES KEYED TO PLAN
- ① POINT OF SERVICE.
 - ② FIRE DEPARTMENT CONNECTION ON BLDG.
 - ③ NEW 6-INCH FIRE SPRINKLER SERVICE LINE.
 - ④ NEW RISER LOCATION.
 - ⑤ AREA OF PROTECTION.
 - ⑥ NEW 12"x6" TAPPING SLEEVE. REFER TO CIVIL DRAWING C-6.



61G15-32.003

(2) ACCEPTANCE TESTING REQUIREMENTS: THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM AND COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON THE FOLLOWING TWO FORMS: NFPA 13 (LATEST EDITION), CHAPTER 16, FIGURE 16.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE GROUND PIPING; AND CHAPTER 10, FIGURE 10.10.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING. SEE NFPA 13 (LATEST EDITION), CHAPTER 16, SYSTEM ACCEPTANCE, AND CHAPTER 10, SUBSECTION 10.10, TESTING AND ACCEPTANCE, FOR DETAILS ON THE APPLICABLE TESTS.

(3) & (4) BASIC DESIGN CRITERION: PROVIDE A NEW AUTOMATIC FULLY SPRINKLER SYSTEM FOR THE NEW FIRE STATION.

LIGHT HAZARD: OFFICES, RESTROOMS, LOUNGE AREA, BUNK, AND LOBBY AREA
ORDINARY HAZARD GROUP I: STORAGE AREAS, MECHANICAL ROOMS, TRUCK BAYS, ELECTRICAL ROOMS.
ORDINARY HAZARD GROUP II: TRUCK BAYS

THE SPRINKLER SYSTEM IS A NEW WET PIPE SYSTEM, DESIGNED PER APPLICABLE CHAPTERS OF NFPA 13 (LATEST EDITION) FOR LIGHT HAZARD, ORDINARY HAZARD GROUP 1 & 2. THE ABOVEGROUND SYSTEM SHALL CONSIST OF STEEL PIPING LOCATED ABOVE THE CEILING, STEEL PIPE DROPS TO PENDENT COVERING AREAS BELOW THE CEILING AND STEEL PIPE RISERS TO UPRIGHT HEADS LOCATED IN THE EXPOSED SPACES.

ALL ABOVE GROUND PIPING SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 (LATEST EDITION), CHAPTERS 10 AND 16 RESPECTIVELY, AND ALL ADDITIONAL APPLICABLE STANDARDS.

(5) STRUCTURAL SUPPORT COORDINATION: STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS FOR THE FIRE PROTECTION SYSTEM, INCLUDING LIVE AND DEAD LOADS, HAVE BEEN COORDINATED WITH THE STRUCTURAL ENGINEER. REFER TO STRUCTURAL DRAWINGS.

(6) THE SPRINKLER SYSTEMS SHALL BE WET PIPE, DESIGNED PER NFPA 13 (LATEST EDITION) WITH CLASSIFICATIONS AS FOLLOWS:
LIGHT HAZARD: OFFICES, RESTROOMS, LOUNGE AREA, BUNK, AND LOBBY AREA
ORDINARY HAZARD GROUP I: STORAGE AREAS, MECHANICAL ROOMS, TRUCK BAYS, ELECTRICAL ROOMS.
ORDINARY HAZARD GROUP II: TRUCK BAYS

61G15-32.004

(2)(a) POINT OF SERVICE: THE POINT OF SERVICE IS A NEW 6"-INCH FIRE PROTECTION LINE LOCATED ON-SITE. A NEW 12"x12"x6" TEE WILL BE TAPPED FOR THE NEW 6" FIRE SERVICE AT SIMMONTON ST. FIRE SERVICE SHALL FEED A NEW 6"-INCH FIRE LINE TO THE NEW PROPOSED RISER LOCATIONS. THE 6"-INCH PRIVATE FIRE SERVICE MAIN SHALL EXTEND FROM THE NEW TEE THROUGH A NEW BACKFLOW PREVENTOR LOCATED ON SITE TO THE PROPOSED RISER LOCATION. THE RISER SHALL INCLUDE A SUPERVISED CONTROL VALVE WITH TAMPER PROTECTION AND FLOW SWITCH.

(2)(b) APPLICABLE STANDARDS: THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE A HYDRAULICALLY CALCULATED WET PIPE SYSTEM DESIGNED PER APPLICABLE CHAPTERS OF NFPA 13 (LATEST EDITION), FOR LIGHT HAZARD, ORDINARY HAZARD GROUP 1&2.

(2)(d) DESIGN APPROACH: LIGHT HAZARD AREA CALCULATIONS SHALL BE BASED ON 1500 SQUARE FEET OF THE MOST HYDRAULICALLY REMOTE AREA OVER A SPRINKLER DENSITY OF 0.10 GPM/SF. MAXIMUM SPRINKLER COVERAGE AREA SHALL BE 225 SQUARE FEET PER HEAD. MAXIMUM SPACING BETWEEN HEADS SHALL BE 15 FEET.

ORDINARY HAZARD GROUP I AREA CALCULATIONS SHALL BE BASED ON 1500 SQUARE FEET OF THE MOST HYDRAULICALLY REMOTE AREA OVER A SPRINKLER DENSITY OF 0.15 GPM/SF. MAXIMUM SPRINKLER COVERAGE AREA SHALL BE 130 SQUARE FEET PER HEAD. MAXIMUM SPACING BETWEEN HEADS SHALL BE 120 SQ FEET.

ORDINARY HAZARD GROUP II AREA CALCULATIONS SHALL BE BASED ON 1500 SQUARE FEET OF THE MOST HYDRAULICALLY REMOTE AREA OVER A SPRINKLER DENSITY OF 0.20 GPM/SF. MAXIMUM SPRINKLER COVERAGE AREA SHALL BE 130 SQUARE FEET PER HEAD. MAXIMUM SPACING BETWEEN HEADS SHALL BE 120 SQ. FT.

THE SYSTEM AREA OF OPERATION FOR QUICK RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE REDUCED IN ACCORDANCE WITH NFPA 13 (LATEST EDITION), SECTION 11.2.3.2.3.1. THE COVERAGE AREA EXCEPTION PROVIDED IN NFPA 13 (LATEST EDITION), SECTION 8.6.2.1.2, SHALL APPLY TO ALL SPACES COMPLYING WITH THE DEFINITION OF A SMALL ROOM.

PROVIDE SPRINKLERS IN FINISHED LIGHT HAZARD AND ORDINARY HAZARD GROUP 1 & 2 SPACES THAT ARE WHITE, SEMI-RECESSED TYPE, QUICK RESPONSE, STANDARD COVERAGE PENDENT HEADS RATED FOR 135 - 170 DEG. F. PROVIDE HEADS IN EXPOSED SPACES THAT ARE BRASS, UPRIGHT TYPE, QUICK RESPONSE, STANDARD COVERAGE HEADS RATED FOR 175 - 225 DEG. F. PROVIDE SPRINKLER HEAD SPACING, FLOW AND PRESSURE APPLICATIONS TO COMPLY WITH MANUFACTURERS LISTING.

PROTECTION AREAS AND MAXIMUM SPACING FOR STANDARD SPRAY UPRIGHT HEADS IN LIGHT HAZARD AND ORDINARY HAZARD AREAS SHALL BE IN ACCORDANCE WITH TABLE 8.6.2.1.1(a).

(2)(e) CHARACTERISTICS OF WATER SUPPLY: THE WATER SUPPLY IS NEW 6"-INCH MAIN THAT CONNECTS TO AN EXISTING 12" LOOP. THE SPRINKLER CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATION FOR FINAL APPROVAL ON THE FLOW CHARACTERISTIC OF THE FIRE MAIN.

(2)(f) FLOW TEST DATA: SPRINKLER CONTRACTOR SHALL PROVIDE A CURRENT FIRE FLOW TEST AT THE TIME OF SHOP DRAWING SUBMITTAL.

(2)(g) VALVING AND ALARM REQUIREMENTS ARE NEW AND WILL BE MONITORED THRU AN OFF SITE MONITORING SERVICE.

(2)(h) MICROBIAL INDUCED CORROSION (MIC): THE LOCAL WATER PURVEYOR, MONROE COUNTY PUBLIC UTILITIES, ACKNOWLEDGES THAT THE WATER SERVICE PROVIDED MEETS OR EXCEEDS STATE AND FEDERAL CORROSION WATER CONTROL QUALITY PARAMETERS. ADDITIONALLY, THE PURVEYOR ACKNOWLEDGES THAT NO SPECIFIC TESTING GUIDELINES FOR MIC PRESENTLY EXIST. AS SUCH THE INSTALLING FIRE SPRINKLER CONTRACTOR SHALL MAKE PIPE AND FITTING SELECTIONS BASED ON THIS INFORMATION AND IN ACCORDANCE WITH NFPA 13, (LATEST EDITION), CHAPTER 8, SUBSECTION 8.15.3.2.2; CHAPTER 15, SUBSECTION 15.1.5; AND ANNEX A, SUBSECTION A.15.1.5. WHERE REQUIRED, ALL METAL PIPING SHALL BE ALLIED BRAND GALVANIZED STEEL, SCHEDULE 40 ABF COATED (ANTI-MICROBIAL COATING) OR EQUIVALENT.

(2)(i) THE FIRE SERVICE LINES FOR THE SITE INCLUDES A NEW 6"-INCH BACKFLOW DEVICE WITH A DOUBLE CHECK VALVE ASSEMBLY, FLOW METER, AND TAMPER PROTECTION. THE FIRE DEPARTMENT CONNECTIONS IS EXISTING 2-1/2" THRU 4" DIAMETER UNLESS NOTED OTHERWISE. UNDERGROUND PIPING SHALL BE DUCTILE IRON OR CS90 WITH MECHANICAL JOINT FITTINGS WITH RETAINERS AND THRUST BLOCKS (SIZED AS PER NFPA). MAXIMUM PRESSURE LOSS THROUGH THE EXISTING BACKFLOW DEVICE SHALL NOT EXCEED 8 PSI AT 1,000 GPM.

(2)(j) QUALITY AND PERFORMANCE OF NEW AND EXISTING YARD AND INTERIOR FIRE PROTECTION COMPONENTS SHALL MEET THE REQUIREMENTS OF NFPA 13 (LATEST EDITION). NEW YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND FM APPROVED. NEW INTERIOR PIPING SHALL BE BLACK ASTM A-120. PIPING FOR 1" THROUGH 2" DIAMETER SHALL BE TYPE "XL" (ASTM A-135). PIPING FOR 2 1/2" THROUGH 4" DIAMETER SHALL BE SCHEDULE 10 UNLESS NOTED OTHERWISE. FITTINGS SHALL BE BLACK CAST IRON CLASS 125 FOR 1" THRU 2" DIAMETER AND GROOVED TYPE WITH 175 LBS. MIN COUPLING FOR

GENERAL NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH NFPA 13, 14, 20, 24 AND ALL APPLICABLE STATE CODES.
2. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.
3. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHAL AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION.
4. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
5. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
7. SPRINKLERS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER.
8. SPRINKLER LOCATIONS SHALL BE CENTERED IN THE TILE. PROVIDE ARMORER OR SWING JOINT AS REQUIRED.
9. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY-ON FIRE PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE PROOFING.
10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILING, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATINGS OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILING AND CHASES.
12. PROVIDE A PERMANENTLY ATTACHED NAME TAG TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY-DESIGNED SYSTEM.
13. PROVIDE SPRINKLERS AT THE TOP AND BOTTOM OF ALL STAIRWELLS AND AT THE LANDING OF EACH FLOOR THAT OPENS INTO MORE THAN ONE FIRE ZONE.
14. PROVIDE SPRINKLER GUARDS ON ALL HEADS IN ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.
15. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.
16. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST.

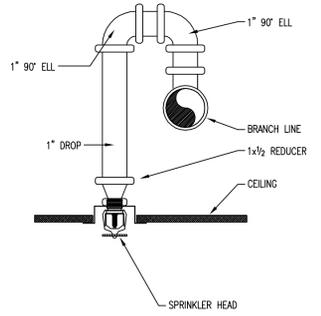
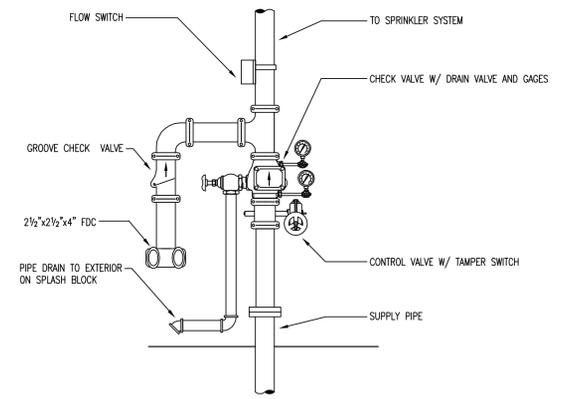
COMPLIANCE STATEMENT

THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE FLORIDA FIRE PREVENTION CODES, 2010 EDITION

FIRE PROTECTION DRAWING INDEX

SHEET	DESCRIPTION	ISSUED
F0.1.1	61G15 FAC, NOTES, SHEET INDEX - FIRE PROTECTION	YES
F2.1.1	FIRST FLOOR PLAN - FIRE PROTECTION	YES
F2.1.2	SECOND FLOOR & MEZZANINE PLAN - FIRE PROTECTION	YES

FIRE PROTECTION SITE PLAN



SPRINKLER RISER - WET PIPE SYSTEM
 No Scale

2

RETURN BEND
 No Scale

1

FIRE STATION #2
 616 Simonton Street, Key West, Florida
MBI | K2M
 BUILDING AND SITE DEVELOPMENT
 FOR
 City of Key West, 3132 Flagler Avenue, Key West, Florida 33040

Drawing Size: 24x36
 Project #: MK-12060
 Drawn By: []
 Checked By: []

Title:
 61G15 FAC, NOTES SHEET INDEX - FIRE PROTECTION

Sheet Number:
F0.1.1
 Date: February 15, 2013
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 1400 Colonial Boulevard, Suite 203
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 LANDSCAPE ARCHITECT:
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 2525 Ponce de Leon Blvd., Suite 300
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Submissions:
 2013.02.15 - Bidding Documents

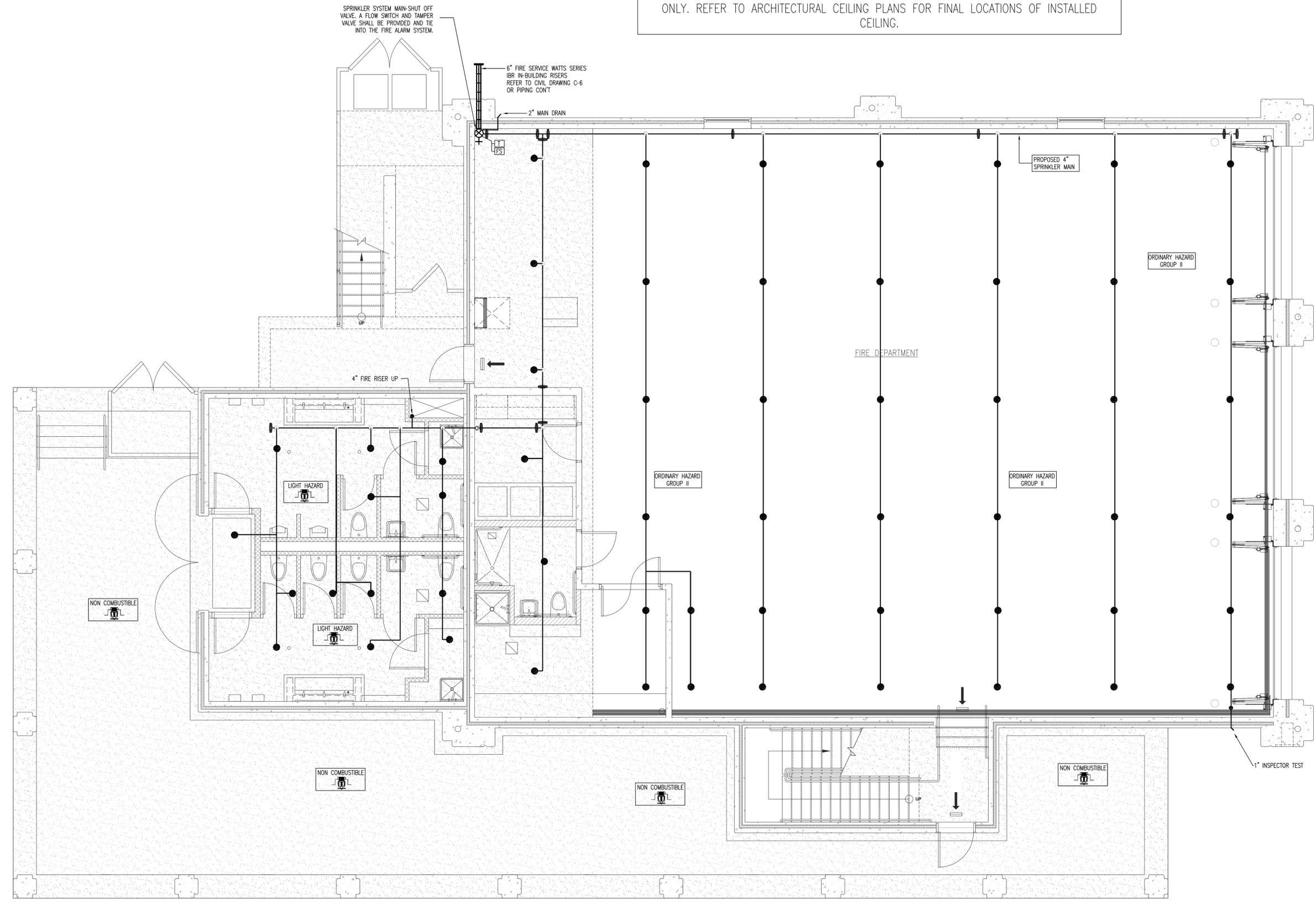
FIRE STATION #2
 616 Simonton Street, Key West, Florida
BUILDING AND SITE DEVELOPMENT
 FOR
 City of Key West, 3132 Flagler Avenue, Key West, Florida 33040

Drawing Size: 24x36 | Project #: MK-12060
 Drawn By: | Checked By:

Title: FIRST FLOOR PLAN - FIRE PROTECTION

Sheet Number:
F2.1.1
 Date: February 15, 2013
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PIPE ROUTING AND SPRINKLER HEADS ARE SCHEMATIC AND ARE SHOWN FOR COORDINATION ONLY. REFER TO ARCHITECTURAL CEILING PLANS FOR FINAL LOCATIONS OF INSTALLED CEILING.



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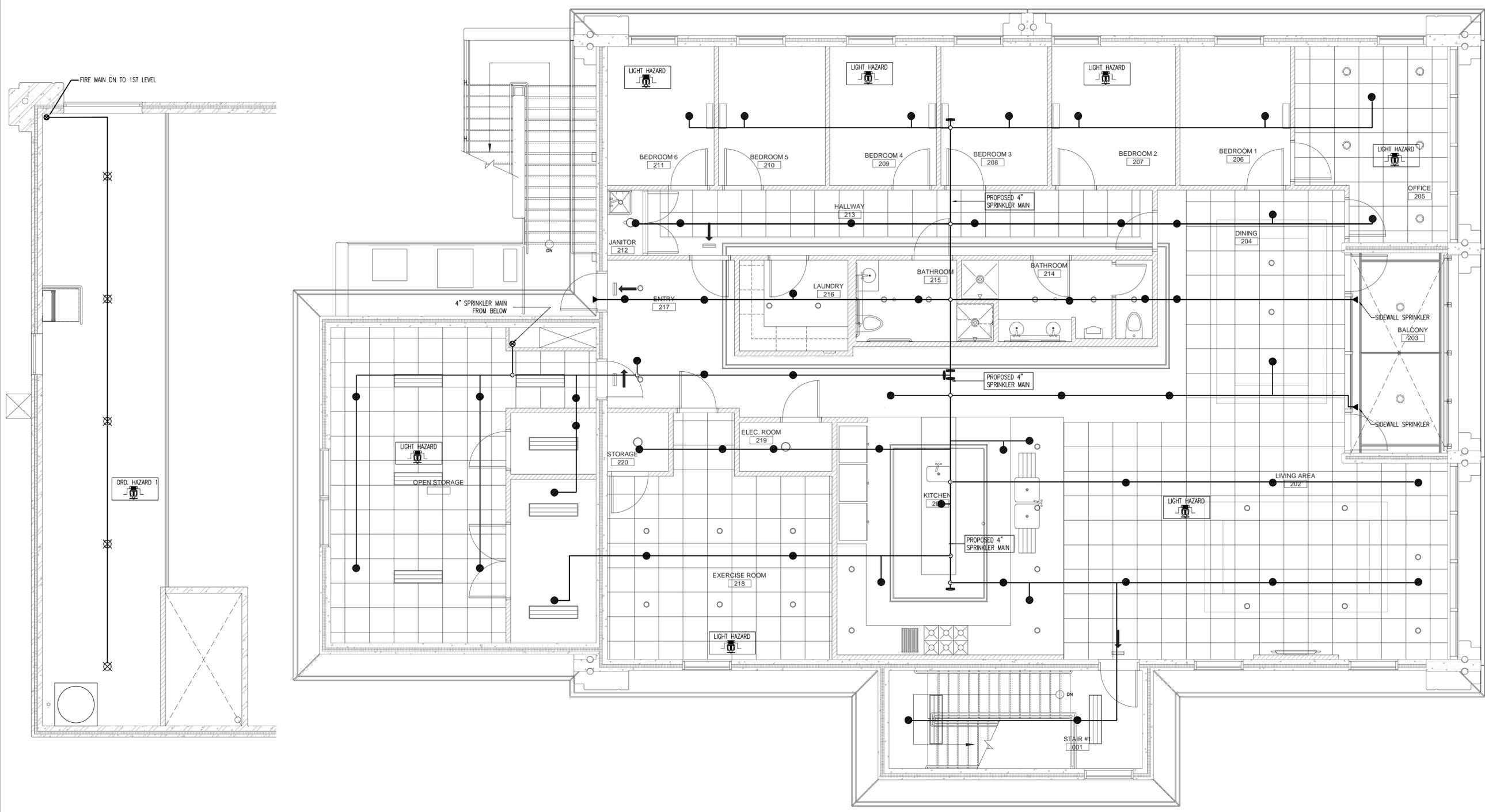
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FIRST FLOOR PLAN - FIRE PROTECTION

SCALE: 1/4" = 1'-0"

0 4 8 12
 GRAPHIC SCALE: 1/4" = 1'-0"

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Submissions:
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FIRE STATION #2
616 Simonton Street, Key West, Florida
BUILDING AND SITE DEVELOPMENT
FOR
City of Key West, 3132 Flagler Avenue, Key West, Florida 33040

MEZZANINE PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"

SECOND FLOOR PLAN - FIRE PROTECTION
SCALE: 1/4" = 1'-0"



Drawing Size: 24x36
Project #: MK-12060
Drawn By:
Checked By:

Title:
**SECOND FLOOR &
MEZZANINE PLAN
- FIRE PROTECTION**

Sheet Number:
F2.1.2

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