







[illegible]

A vertical scale with six points labeled A, B, C, D, E, and F from top to bottom. Each label is positioned to the left of a horizontal tick mark on a vertical line.

[illegible]

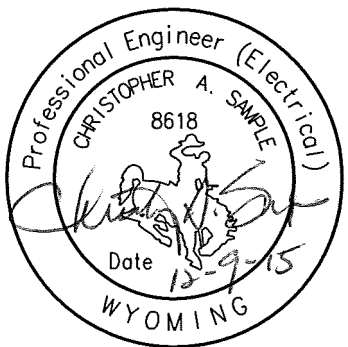
GENERAL NOTES THIS PROJECT

- | | |
|---|---|
|  | PANEL BOARD |
|  | JUNCTION BOX |
|  | DISCONNECT SWITCH |
|  | MOTOR CONTROL EXISTING OR
NEW AS INDICATED. MMC OR VSMC
AS INDICATED. |
|  | MOTOR |
|  | SMOKE DETECTOR/SENSOR FOR DUCT |

1. ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICAN DISABILITIES ACT AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNUAL SPACE AROUND ALL PENETRATIONS THROUGH WALLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT AND THE APPLICABLE BUILDING CODES. VERIFY PENETRATION RATINGS AND PROVIDE PENETRATION ASSEMBLIES SUITABLE FOR PARTICULAR CONSTRUCTION.
4. VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
5. PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
6. BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG MINIMUM.
7. COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
8. ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE. UPDATE EXISTING PANEL DIRECTORIES PER NEW WORK.
9. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED.
10. ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL, BREAKER, AND/OR PARTICULAR EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
11. CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICE'S SCREW TERMINALS.
12. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
13. ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREE C.
14. ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
15. ALL CONDUIT SHALL BE EMT ABOVE CEILING AND IN MECHANICAL ROOMS, BOILER ROOMS, ELECTRICAL ROOMS, CRAWL SPACES, ETC UNLESS OTHERWISE NOTED.
16. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
17. RECEPTACLES SHALL BE 20A HOSPITAL GRADE.
18. EMERGENCY RECEPTACLE COLOR SHALL MATCH EXISTING HOSPITAL COLOR FOR EMERGENCY POWER.
19. ALL FIRE ALARM CONDUIT SHALL BE FACTORY COATED RED. ALL CONTROLS CONDUIT SHALL BE FACTORY COATED BLUE.

AMP AMP
AFB ABOVE FINISHED CEILING
AFC ABOVE FINISHED CEILING
AFC ABOVE FINISHED GRADE
AFC AMPS INTERRUPTING CAPACITY
AFC AUTOMATIC TRANSFER SWITCH
AFC AMERICAN WIRE GAUGE
BTS BELOW FINISHED FLOOR
BFG BELOW FINISHED GRADE
BFG BELOW FINISHED GRADE
CD CONDUIT
cd CANDELA
CKT CIRCUIT
CU COPPER
D DEEP
DACT DIGITAL ANALOG COMMUNICATOR TERMINAL
DC DEDICATED CIRCUIT
EG EQUIPMENT GROUND
EXT ELECTRICAL METALLIC TUBING
EXT (E) EXTERIOR
EMT EXTERIOR
FACP FIRE ALARM CONTROL PANEL
FACP FIRE ALARM REMOTE ANNUNCIATOR
FACP FULL LOAD AMPS
FMC FLEXIBLE METAL CONDUIT
GEC GROUNDING ELECTRICAL CONDUCTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
HI HIGH
HP HIGH POWER
IBC INTERNATIONAL BUILDING CODE
IG ISOLATED GROUND
JG JOHNSON CONTROLS INC.
KI KW KILOWATT
MBJ MAIN BONDING JUNCTION
MC METAL-CLAD CABLE
MCB MINIMUM CIRCUIT BREAKING CAPACITY
MCB MAIN CIRCUIT BREAKER
MDB MAIN DISTRIBUTION PANEL
MLO MAIN LOSS ONLY
MCT MAGNETIC MOTOR CONTROLLER
MOPC MAXIMUM OVERCURRENT PROTECTION
NEC NEUTRAL
N NEUTRAL
NFC NATIONAL ELECTRICAL CODE
NFFA NATIONAL FIRE PROTECTION ASSOCIATION
OC ON CENTER
PC PHOTOCELL
R RELOCATED
TDC TOTAL CONNECTED LOAD
TDL TOTAL DEMAND LOAD
TVL TRANSIENT VOLTAGE SURGE & SPIKE
TVS TYPE
UL UNDERWRITERS LABORATORIES
UNLESS NOTED OTHERWISE
VMS VARIABLE SPEED MOTOR SUPPLY
VSMC VARIABLE SPEED MOTOR CONTROLLER
WTPR WEATHERPROOF
XMR TRANSFORMER
MTR MANUAL TRANSFER SWITCH

ARCHITECT/ENGINEERS:




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Consulting Group, PA
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Apogee Project # 2015 077

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Drawing Title

GENERAL NOTES ABBREVIATIONS

Approved: Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title
**REPLACE SWITCHGEAR
CLINIC ADDITION PENTHOUSE**

Location
CHEYENNE

Date
DEC. 9, 2015

Project Number
VA259-15-C-0220

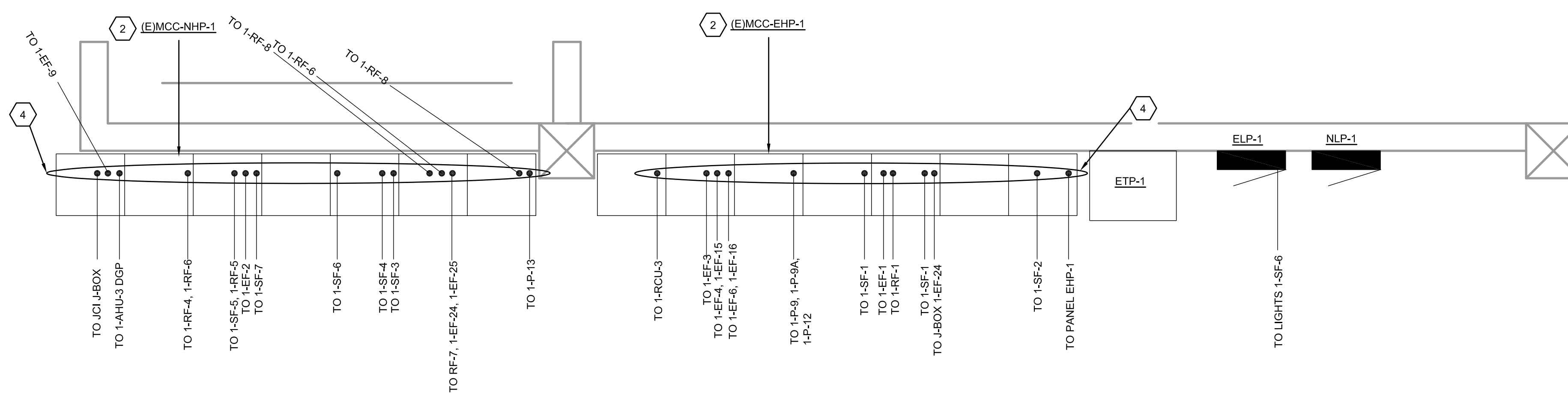
Building Number

Drawing Number

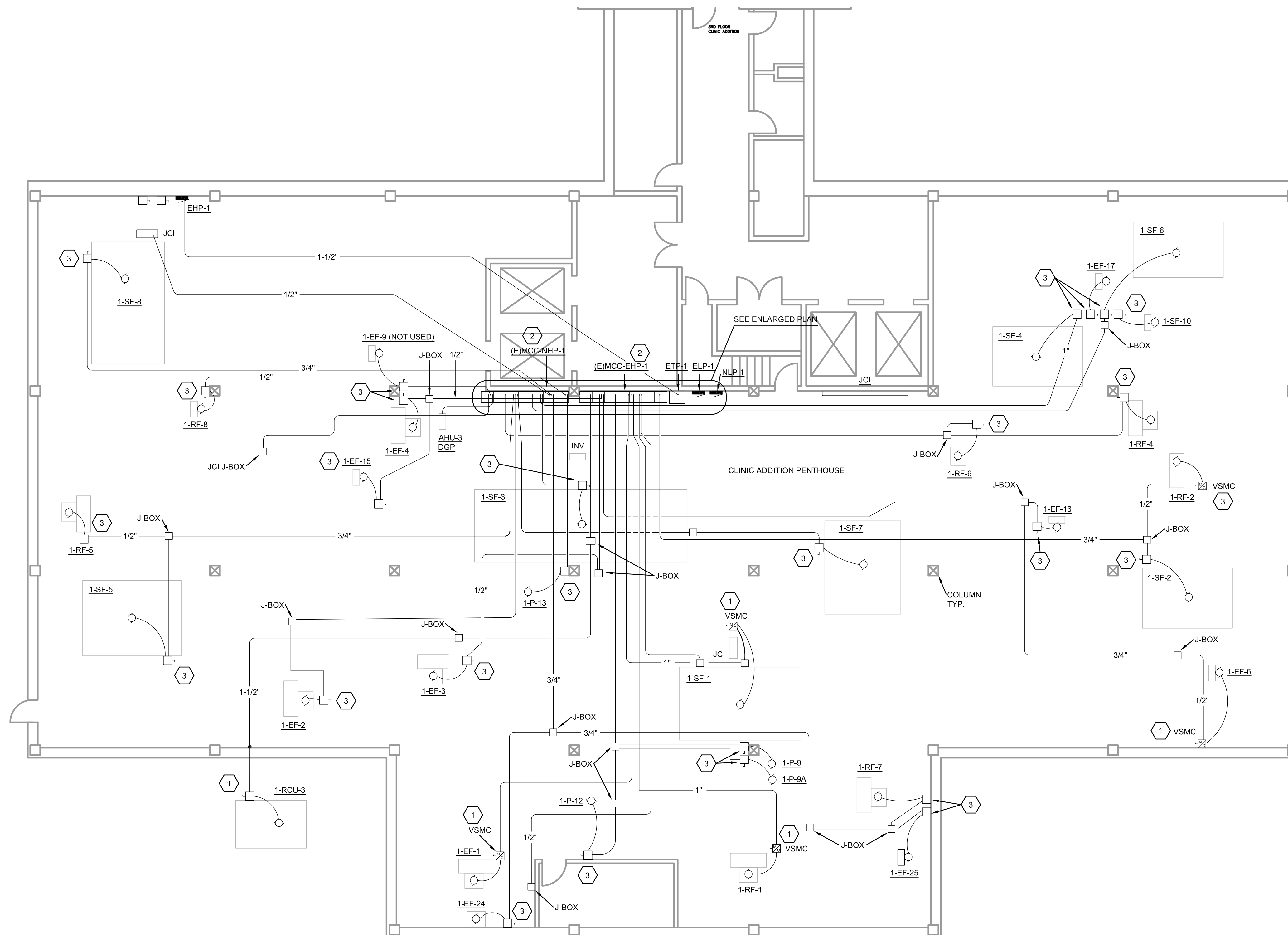
Dwg. 2 of 5

Office of
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and Facilities
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2 ENLARGED PLAN
1/2" = 1'-0"



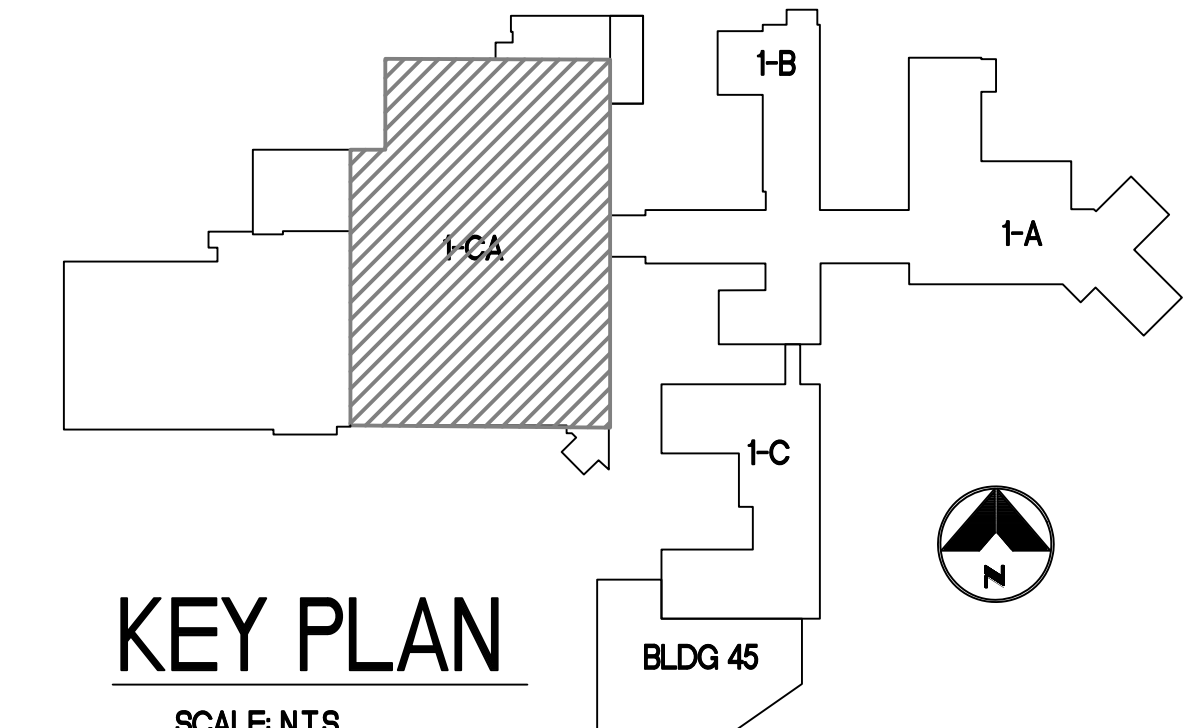
1 CLINIC ADDITION PENTHOUSE EQUIPMENT DEMO PLAN
1/8" = 1'-0"

GENERAL NOTES THIS SHEET


1. ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET IS EXISTING TO REMAIN UNO.
2. MECHANICAL EQUIPMENT SHOWN ON THIS SHEET IS EXISTING TO REMAIN UNO.
3. SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET EP001 FOR DETAILS REGARDING MOTOR CONTROLLERS AND FEEDER RATINGS FOR AFFECTED EXISTING MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.
4. RACEWAYS, RACEWAY ROUTING, PULL AND JUNCTION BOXES, AS SHOWN ON THIS SHEET ARE SCHEMATIC IN NATURE AND DO NOT NECESSARILY ACCURATELY DEPICT ACTUAL CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

FLAG NOTES THIS SHEET

- 1 INDICATED VSMC IS EXISTING TO REMAIN.
- 2 REMOVE EXISTING MCC. SEE PHASING PLAN SHEET EPO02.
- 3 REMOVE MOTOR DISCONNECT. EXISTING FEEDERS TO BE INTERCEPTED. SEE NEW PLAN.
- 4 DEMO WIRE AND CONDUIT TO VERTICAL AND HORIZONTAL TRANSITION ABOVE EXISTING MCC. TYPICAL OF ALL SHOWN.

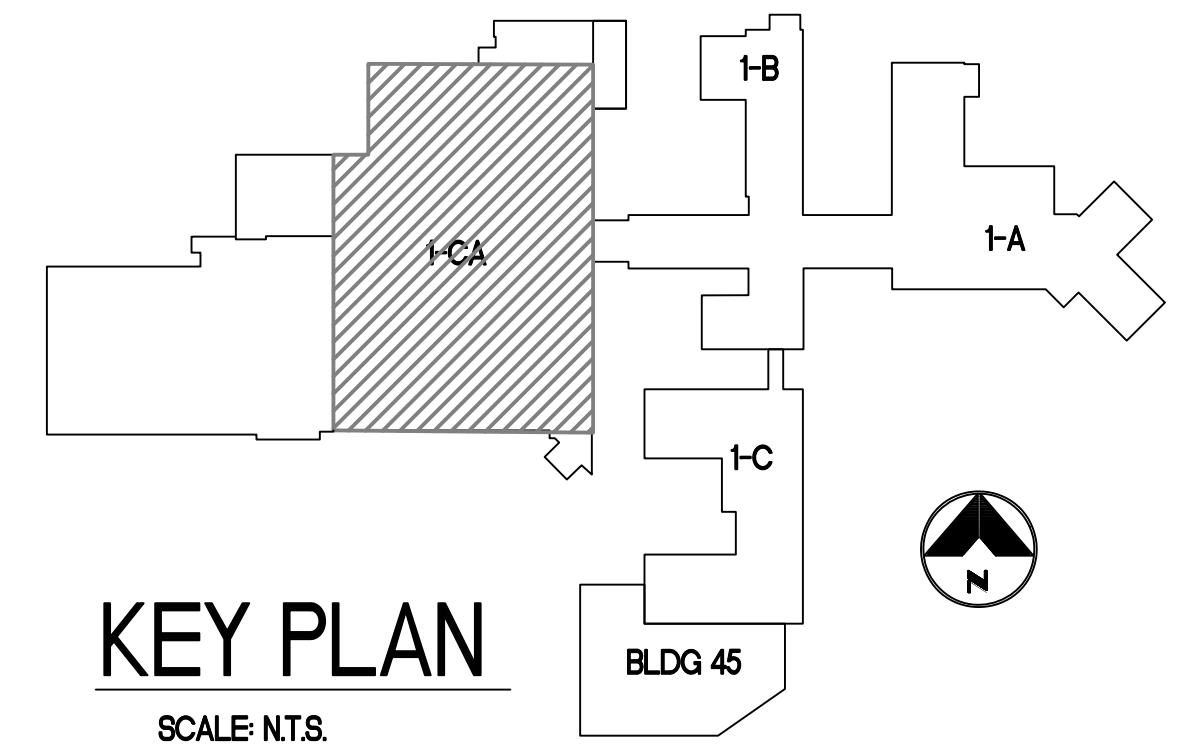


100% CONSTRUCTION DOCUMENTS

	-	CONSULTANTS:		ARCHITECT/ENGINEERS:  Raleigh, NC Indianapolis, IN Philadelphia, PA Pittsburgh, PA Virginia Beach, VA Fort Collins, CO www.apogee.com Apogee Project # 2015 077	Drawing Title CLINIC ADDITION PENTHOUSE EXISTING EQUIPMENT PLAN	Project Title REPLACE SWITCHGEAR CLINIC ADDITION PENTHOUSE	Project Number VA259-15-C-0220	Office of Construction and Facilities Management
	-				Building Number	Drawing Number EP100	Dwg. 3 of 9	
	-							
	-				Location CHEYENNE, WY.			
	-				Date DEC. 9, 2015	Checked JAV, CAS	Drawn DVA	
	-				Approved: Project Director VAPAHCS PLANNING AND ENGINEERING			
Revisions:	Date							



1. ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET IS NEW UON.
2. MECHANICAL EQUIPMENT SHOWN ON THIS SHEET IS EXISTING TO REMAIN UON.
3. SEE MECHANICAL EQUIPMENT SCHEDULE, SHEET EP001 FOR DETAILS REGARDING MOTOR CONTROLLERS AND FEEDER RATINGS FOR AFFECTED EXISTING MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.
4. RACEWAYS, RACEWAY ROUTING, PULL AND JUNCTION BOXES, AS SHOWN ON THIS SHEET ARE SCHEMATIC IN NATURE AND DO NOT NECESSARILY ACCURATELY DEPICT ACTUAL CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

- 1 INDICATED VSMC IS EXISTING TO REMAIN.
- 2 PROVIDE AND INSTALL NEW POWER PANELS WHERE INDICATED, CONNECT TO EXISTING FEEDER CONDUCTORS. SEE DETAILS SHEET EP200. REWORK (E) MOTOR FEEDERS TO CONNECT TO AND FEED FROM NEW PANELS. SEE PANEL SCHEDULES, SHEET EP901, AND PHASING PLAN SHEET EP202.
- 3 PROVIDE AND INSTALL NEW MOTOR CONTROLLER AT THE LOCATION OF THE EXISTING MECHANICAL EQUIPMENT WHERE SHOWN. INTERCEPT EXISTING FEEDER. REWORK FEEDER RACEWAYS AND CONDUCTORS AS REQUIRED. CONNECT NEW CONTROLLER TO THE EXISTING EQUIPMENT. SEE SHEET EP901.
- 4 PROVIDE NEW EQUIPMENT RACK, AND LOCATE MOTOR CONTROLLER AT THIS LOCATION. SEE SHEET EP500.
- 5 PROVIDE AND INSTALL NEW PHENOLIC LABEL ON INDICATED EXISTING PANEL TO READ: "EHP-2".
- 6 PROVIDE NEW EQUIPMENT RACK, AND LOCATE MOTOR CONTROLLER NEXT TO AQUA CHEM TANK. SEE SHEET EP500.
- 7 INDICATED EXISTING CABLE SMOKE DETECTORS SHOWN AT THEIR APPROXIMATE LOCATIONS CONNECTED TO EXISTING DUCTS (NOT SHOWN). SEE SHEET E1100.
- 8 INDICATED EXISTING EQUIPMENT RACK IS NOT SECURE. REINFORCE UNISTRUT AS NEEDED.



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Management



	-	CONSULTANTS:			ARCHITECT/ENGINEERS: <div><div><div>Apogee Consulting Group, PA www.apogee.com Apogee Project # 2015-077</div></div><div><div>Raleigh, NC Indianapolis, IN Phoenixville, PA Pittsburgh, PA Virginia Beach, VA</div><div>Fort Collins, CO (919) 858-7420</div></div></div>	Drawing Title CLINIC ADDITION PENTHOUSE NEW EQUIPMENT PLAN	Project Title REPLACE SWITCHGEAR CLINIC ADDITION PENTHOUSE	Project Number VA259-15-C-0220	Office of Construction and Facilities Management
	-					Building Number			
	-					Location CHEYENNE, WY.		Drawing Number EP101	
	-					Date DEC. 9, 2015	Checked JAV, CAS	Drawn DVA	
	-					Approved: Project Director			
	-					VAPAHCS PLANNING AND ENGINEERING			
	-					Dwg. 4 of 9			
Revisions:	Date								

1. CONTRACTOR SHALL HIRE JOHNSON CONTROLS AS PART OF THIS CONTRACT TO PROVIDE AND INSTALL NEW 3/4" CONDUIT WITH 5/8" DIA. THREADED INSERTS TO EXISTING CABINET TO CONNECT TO THE INDICATED EXISTING OR NEW MOTOR CONTROLLER AT THE LOCATION OF THE EXISTING MECHANICAL EQUIPMENT WHERE SHOWN.
2. PROVIDE AND INSTALL (6) SIEMENS HTM-CONTROLLERS SEE DETAIL SHEET.
3. CONNECT SIEMENS HTM-CONTROLLERS TO EXISTING FIRE ALARM SYSTEM WHERE SHOWN USING (2)-18 AWG FIRE ALARM CABLES IN 1/2" CONDUIT.
4. CONNECT EACH HTM-CONTROLLER SUPERVISORY SIGNAL TO JCI INSTRUMENTATION USING 2-14 AWG IN 1/2" C.
5. INDICATED EXISTING DUCT SMOKE DETECTORS SHOWN AT THEIR APPROXIMATE LOCATIONS CONNECTED TO EXISTING DUCTS (NOT SHOWN). CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM SYSTEM CONTROL MODULE CONNECTED TO EACH OF THE EXISTING SMOKE DETECTORS TO AFFECT SHUT-DOWN OF THE ASSOCIATED EQUIPMENT IN EVENT OF SMOKE DETECTION. THE NEW CONTROL MODULE SHALL BE LOCATED WITHIN 5' OF THE NEW MOTOR CONTROLLER TO BE INSTALLED UNDER THIS PROJECT, OR THE EXISTING CONTROLLER TO REMAIN, FOR THE AFFECTED MOTOR CONTROLLER. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW MOTOR CONTROLLER AS REQUIRED TO AFFECT THE NECESSARY SHUT-DOWN. COORDINATE THE INSTALLATION OF THE CONTROL MODULE WITH THE ELECTRICAL CONTRACTOR AND/OR THE MECHANICAL CONTRACTOR. FIRE SOLUTIONS, SIEMENS INDUSTRY, CONTACT MIKE GURULE, SIEMENS SR. EXECUTIVE ACCOUNT MANAGER/FIRE SOLUTIONS, SIEMENS INDUSTRY, 7810 SHAFFER PKWY, SUITE #100, FARMINGTON, CT 06032, 781-390-3919. CONTRACTOR SHALL ENGAGE SIEMENS INDUSTRY TO PERFORM ANY MODIFICATIONS TO THE EXISTING FIRE DETECTION AND ALARM SYSTEM THAT SIEMENS INDUSTRY DETERMINES MUST BE PERFORMED BY THEIR PERSONNEL. CONTRACTORS BID SHALL INCLUDE ALL COSTS NECESSARY TO ACCOMPLISH THE WORK, INCLUDING LABOR AND MATERIALS, WHETHER PERFORMED BY THE CONTRACTOR OR BY SIEMENS INDUSTRY. COORDINATE ALL MODIFICATIONS TO CONTROLS WITH JCI.

VA FORM 08-6231



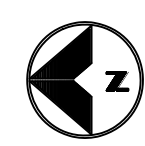
100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231



NEW EQUIPMENT ELEVATION

NTS



A	PROVIDE NEW TAP BOX WITH ILSCO POWER DISTRIBUTION BLOCKS AT FLOOR TO INTERCEPT EXISTING FEEDER AND ROUTE TO FEED NEW PANELBOARDS.
B	PROVIDE NEW MOTOR CONTROLLER WITH INTEGRAL DISCONNECT AND MAINTENANCE BYPASS SWITCH, TYPICAL OF ALL OF THE EXISTING MOTOR LOADS THAT ARE INDICATED TO HAVE NEW CONTROLLERS ON SHEET EP101. SEE SHEET EP101 FOR LOCATIONS.
C	PROVIDE 3-3 AWG, 1-8 AWG EGS, IN 1-1/4" C FROM NEW PANE TO FEED EXISTING DRY TYPE TRANSFORMER 'ETP-1'.
D	NEW FEEDER IN CONDUIT TO NEW J-BOX, TYPICAL FOR EACH CIRCUIT TO BE FED.

-	-
-	-
-	-
-	-
-	-
-	-
Revisions:	Date


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VAPAHCS PLANNING AND ENGINEERING

EP200

Dwg. 7 of 8

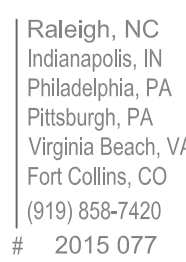
 Department of
Veterans Affairs

100% CONSTRUCTION DOCUMENTS



1. CONTRACTOR TO PROVIDE AND INSTALL FIRE ALARM DEVICES AND WIRING AND CONNECT FIRE ALARM WIRING TO EXISTING SIEMENS SYSTEM. HIRE SIEMENS TO PROGRAM EACH CONTROLLER. MATCH EXISTING SYSTEM FUNCTIONALITY.
2. CONTRACTOR TO PROVIDE AND INSTALL WIRING SHOWN TO JCI CONTROL CABINET. CONTRACTOR SHALL HIRE JCI AS PART OF THIS CONTRACT TO CONNECT AND PROGRAM EACH UNIT NOTED IN THE CONTROL MATRIX INTO THE SAFETY CIRCUIT.

NTS

[illegible]

Project Title REPLACE SWITCHGEAR CLINIC ADDITION PENTHOUSE			Project Number VA259-15-0220	
Building Number				
Location CHEYENNE, WY.			Drawing Number EP500	
Date DEC. 9, 2015	Checked JAV, CAS	Drawn DWA	Dwg. 8 of 9	

 Department of
Veterans Affairs

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

PANEL 'NHP-1'										REMARKS: 1												
MAINS: 400 A MLO VOLTS: 480Y/277V, 3-PH, 4-W STYLE: SQ-D H LINE OCP: 400 A CIRCUIT BREAKER IN NHB2										ENCL. MOUNT. SURFACE NEMA 1 INT. RATING: 35 KAC												
Pole	Load Description	Lights (VA)	Recept. (VA)	HVAC (VA)	Equip. (VA)	Other (VA)	Trpf. Poles	Ph.	Trpf. Poles	Lights (VA)	Recept. (VA)	HVAC (VA)	Equip. (VA)	Other (VA)	Load Description	Pole						
1	1-SF-3			14,400			603	A	153			833			1-RF-13	2						
3	"			14,400			"	B	"			833			"	4						
5	"			14,400			"	C	"			833			"	6						
7	1-SF-4			7,467			603	A	353			3,033			1-RF-4	8						
9	"			7,467			"	B	"			3,033			"	10						
11	"			7,467			"	C	"			3,033			"	12						
13	1-SF-5			5,833			603	A	353			2,100			1-RF-5	14						
15	"			5,833			"	B	"			2,100			"	16						
17	"			5,833			"	C	"			2,100			"	18						
19	1-SF-6			5,833			603	A	353			3,033			1-RF-6	20						
21	"			5,833			"	B	"			3,033			"	22						
23	"			5,833			"	C	"			3,033			"	24						
25	1-SF-7			5,833			603	A	353			2,100			1-RF-7	26						
27	"			5,833			"	B	"			2,100			"	28						
29	"			5,833			"	C	"			2,100			"	30						
31	1-SF-8			5,833			603	A	353			2,100			1-RF-8	32						
33	"			5,833			"	B	"			2,100			"	34						
35	"			5,833			"	C	"			2,100			"	36						
37	1-SF-10			833			153	A	153			1,333			1-EF-2	38						
39	"			833			"	B	"			1,333			"	40						
41	"			833			"	C	"			1,333			"	42						
43	1-EF-9			300			153	A	153			833			1-EF-17	44						
45	"			300			"	B	"			833			"	46						
47	"			300			"	C	"			833			"	48						
49	1-EF-24			833			153	A	153			833			1-EF-25	50						
51	"			833			"	B	"			833			"	52						
53	"			833			"	C	"			833			"	54						
55	PROVISIONED SPACE														PROVISIONED SPACE	56						
57	PROVISIONED SPACE														PROVISIONED SPACE	58						
59	PROVISIONED SPACE														PROVISIONED SPACE	60						
61	PROVISIONED SPACE														PROVISIONED SPACE	62						
63	PROVISIONED SPACE														PROVISIONED SPACE	64						
65	PROVISIONED SPACE														PROVISIONED SPACE	66						
LOAD SUMMARIES:										CONNECTED LOADS (VA)												
A-phase totals		0	0	47,165	0	0				0	0	16,198	0	0		63,363						
B-phase totals		0	0	47,165	0	0				0	0	16,198	0	0		63,363						
C-phase totals		0	0	47,165	0	0				0	0	16,198	0	0		63,363						
TOTALS:		0	0	141,495	0	0				0	0	48,594	0	0		190,089	VA					
DEMAND CALCULATION:										NEC DEMAND:												
Lighting totals		0	0	0	0	0				(x 1.25 NEC continuous load factor =)										0		
Receptacle totals		0	0	0	0	0				(first 10kVA + 0.5 x remainder above 10kVA =)										0		
HVAC totals		63,363	63,363	63,363		190,089				(x 1.0 + 25% of largest motor =)										200,889		
Equipment totals		0	0	0	0	0				(x 100% per NEC 220-3 =)										0		
Other totals		0	0	0	0	0				(x 100% per NEC 220-3 =)										0		
TOTALS:		63,363	63,363	63,363		190089	VA													200,889	VA	
PHASE CURRENT IMBALANCE:										[MAX(A,B,C) - MIN(A,B,C)] / MAX(A,B,C) = 0.00%												
CAPACITY CALCULATION:										Percentage:												
OCP Capacity		=		400.0	Amps					100.0%												
NEC Demand / (480V x 1.732)		=		241.7	Amps					60.4%												
Spare Capacity (balanced)		=		158.3	Amps					39.6%												

PANEL 'EHP-1'										REMARKS: 1									
MAINS: 400 A MLO VOLTS: 480V/277V, 3-PH, 4-W STYLE: SQ-D H-LINE OCP: 400 A CIRCUIT BREAKER IN DP-EHB3										ENCL. MOUNT. SURFACE NEMA 1 INT. RATING: 35 KAC									
Pole	Load Description	Lights (VA)	Recept. (VA)	HVAC (VA)	Equip. (VA)	Other (VA)	Trpf. Poles	Ph.	Trpf. Poles	Lights (VA)	Recept. (VA)	HVAC (VA)	Equip. (VA)	Other (VA)	Load Description	Pole			
1	1-SF-1			7,467			503	A	403			5,833			1-RF-1 (40-AMP)	2			
3	"			7,467			"	B	"			5,833			"	4			
5	"			7,467			"	C	"			5,833			"	6			
7	1-SF-2			5,833			503	A	153			1,333			1-RF-2	8			
9	"			5,833			"	B	"			1,333			"	10			
11	"			5,833			"	C	"			1,333			"	12			
13	1-EF-1			5,833			503	A	2003			26,592			1-RCU-3	14			
15	"			5,833			"	B	"			26,592			"	16			
17	"			5,833			"	C	"			26,592			"	18			
19	1-EF-1 (30-AMP)			3,867			303	A	153			933			1-P-9	20			
21	"			3,867			"	B	"			933			"	22			
23	"			3,867			"	C	"			933			"	24			
25	1-EF-3			5,833			503	A	153			933			1-P-9A	26			
27	"			5,833			"	B	"			933			"	28			
29	"			5,833			"	C	"			933			"	30			
31	1-EF-4			1,333			153	A	153			566			1-P-12	32			
33	"			1,333			"	B	"			566			"	34			
35	"			1,333			"	C	"			566			"	36			
37	1-EF-6			300			153	A	1003			3,867			PANEL EHP-1	38			
39	"			300			"	B	"			3,867			"	40			
41	"			300			"	C	"			3,867			"	42			
43	1-EF-15			1,333			153	A	1103			24,933			TRANSFORMER ETP-1	44			
45	"			1,333			"	B	"			24,933			"	46			
47	"			1,333			"	C	"			24,933			"	48			
49	1-EF-16			833			153	A							PROVISIONED SPACE	50			
51	"			833			"	B							PROVISIONED SPACE	52			
53	"			833			"	C							PROVISIONED SPACE	54			
55	PROVISIONED SPACE							A							PROVISIONED SPACE	56			
57	PROVISIONED SPACE							B							PROVISIONED SPACE	58			
59	PROVISIONED SPACE														PROVISIONED SPACE	60			
61	PROVISIONED SPACE							A							PROVISIONED SPACE	62			
63	PROVISIONED SPACE							B							PROVISIONED SPACE	64			
65	PROVISIONED SPACE							C							PROVISIONED SPACE	66			
LOAD SUMMARIES:																			
	Lights	Recept.	HVAC	Equip.	Other					Lights	Recept.	HVAC	Equip.	Other		CONNECTED LOADS (VA)			
	(VA)	(VA)	(VA)	(VA)	(VA)					(VA)	(VA)	(VA)	(VA)	(VA)					
A-phase totals	0	0	32,632	0	0					0	0	64,990	0	0		97,622			
B-phase totals	0	0	32,632	0	0					0	0	64,990	0	0		97,622			
C-phase totals	0	0	32,632	0	0					0	0	64,990	0	0		97,622			
TOTALS:	0	0	97,896	0	0					0	0	194,970	0	0		292,866 VA			
DEMAND CALCULATION:																			
	A	B	C	TOT											NEC DEMAND:				
Lighting totals	0	0	0					(x 1.25 NEC continuous load factor =)							0				
Receptacle totals	0	0	0					(first 10kVA + 0.5 x remainder above 10kVA =)							0				
HVAC totals	97,622	97,622	97,622	292,866											312,810				
Equipment totals	0	0	0					(x 100% per NEC 220-3 =)							0				
Other totals	0	0	0					(x 100% per NEC 220-3 =)							0				
TOTALS:	97,622	97,622	97,622	292,866 VA											312,810 VA				
PHASE CURRENT IMBALANCE:																			
	[MAX(A,B,C) - MIN(A,B,C)] / MAX(A,B,C) = 0.00%																		
CAPACITY CALCULATION:																			
	OCP Capacity	=	400.0	Amps	Percentage:				100.0%										
	NEC Demand / (480V x 1.732)	=	376.4	Amps					94.1%										
	Spare Capacity (balanced)	=	23.6	Amps					5.9%										