

TYPE	VOLTS	DESCRIPTION		SOURCE	COLOR TEMP.	MANUF. #1	MODEL #1	NOTES
	400.17	DECECOED OVA ADQUITECTUDAL LED	LUMENS	TYPE	4016	ODEE	0004 401 401/ 0	
Α	120 V	RECESSED 2X4 ARCHITECTURAL LED	4000	LED	40K	CREE	CR24-40L-40K-S	
AA	120 V	RECESSED 2X4 ARCHITECTURAL LED-EMER.	4000	LED	40K	CREE	CR24-40L-40K-S-EB14	
AB	120 V	RECESSED 2X4 WITH DRYWALL RING	4000	LED	40K	CREE	CR24-40L-40K-S-DGA24-WHT	
AC	120 V	RECESSED 1X4 ARCHITECTURAL LED	4000	LED	40K	CREE	CR14-40L-40K-S	
В	120 V	6" DIA. DOWNLIGHT	2000	LED	40K	PORTFOLIO	LD6A20D010TE-ERM6A-20940-6LM1H	
С	120 V	WALL SCONCE		LED	40K	ULTRALIGHTS	9260L18-SB-04	
D	120 V	LED STRIP LIGHT	4615	LED	40K	METALUX	4SNLED-L04-46SL-LC-UNV-L840-CD1	1
Е	120 V	EXIT SIGN		LED		SURE-LITES	CX-6-1-R	
IOTES: . CHA	IN HANG 10)' AFF. WHERE THERE IS NO CEILING	AND SURFA	CE MOUNT	TO CEILING	WHEN ONE	IS PRESENT.	



2 4 5

inch = one foot

4 8 16

eighth inc

VA FORM 08-6231

(EXISTING) **Branch Panel: C** Location: CORRIDOR 397 Volts: 208Y/120 K.A.I.C. Rating: -Mains Type: MCB Supply From: -Phases: 3 Mounting: RECESSED
Enclosure: TYPE 1 Mains Rating: 100A Wires: 4
 Trip
 Poles
 A
 B
 C
 Poles
 Trip
 Circuit Description

 20 A
 1
 0.0
 0.0
 1
 20 A
 LTS AND RECEPTS RM 349-GHEF

 20 A
 1
 0.0
 0.0
 1
 20 A
 LTS AND RECEPTS RM 351-ABH

 20 A
 1
 0.0
 0.0
 1
 20 A
 LTS AND RECEPTS RM 351F

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 350 AND DRINKING FOUNTAIN

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECPTS WEST WALL AND
 Circuit Description 1 LIGHTS CHAPEL 149 3 RM 149 UNIT HEATERS & S & W RECEPTS 5 HALL LIGHTS 7 RM 349F RECEPTS
 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 350 AND DRINKING FO

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECPTS WEST WAST WAST AND DRINKING FO

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECPTS WEST WAST AND DRINKING FO

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 351A, B RECEPTS

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECEPTS

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECEPTS

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECEPTS

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECEPTS

 20 A
 1
 0.0
 0.0
 1
 20 A
 RM 348 RECEPTS

 20 A
 1
 0.0
 0.0
 1
 20 A
 SPARE

 20 A
 1
 0.0
 0.0
 1
 20 A
 SPACE

 20 A
 1
 0.0 9 SPARE 1 20 A RM 348 RECPTS WEST WALL AND HALL 11 CHAPEL LIGHTS EAST BANK 13 RM 351 B.K. LIGHTS 15 SPARE 17 LIGHTS RM 346D, F RM 347B, RM 348 E 19 RM 346F RECEPTS 21 RM 346 RECEPTS 23 RM 351B RECEPTS 25 RM 351K RECEPTS 27 RM 351K RECEPTS 29 SPACE 31 SPACE 33 SPACE 35 SPACE 100 A 3 0.0 0.0 0.0 0.0 0.0 Total Load: 0.0 kVA 0.0 kVA 0.0 kVA 39 MAIN 41 NOTES:

	Branch Panel: C				(M	ODII	FIED))					
	Location: CORRIDOR 39 Supply From: Mounting: Recessed Enclosure: Type 1	97				Volts: Phases: Wires:	-	20				K.A.I.C. Rating: Mains Type: Mains Rating: 100 A	
СКТ	Circuit Description	Trip	Poles	,	4	E	3		C	Poles	Trip	Circuit Description	скт
1	RECEPTS RMS. 349G & 349C	20 A	1	1.5	0.7					1	20 A	LTG RMS. 349A,B,C,D,E,F,G	2
3	RECEPTS RMS. 349C & 301	20 A	1			0.8	0.7			1	20 A	LIGHTING RM 349	4
5	RECEPTS RM. 349C	20 A	1					0.8	0.0	1	20 A	SPARE	6
7	RECEPTS RMS. 349E, 349F, EXT.	20 A	1	1.5	0.0					1	20 A	EWC RM. 350	8
9	RECEPTS RMS. 349E, 349C, 349	20 A	1			1.2	0.0			1	20 A	RECEPTS RM. 348	10
11	RECEPTS RMS. 349B, 349C	20 A	1					1.0	0.4	1	20 A	LIGHTING CORRIDOR 397	12
13	RECEPTS RMS. 349B, 349	20 A	1	0.9	0.0					1	20 A	RECEPTS RM. 348	14
15	A/V EQUIP. 349D	20 A	1			0.6	0.0			1	20 A	RECEPTS RM. 348	16
17	A/V EQUIP. 349D	20 A	1					0.4	0.0	1	20 A	RECEPTS RM. 348	18
19	RECEPTS RM. 349	20 A	1	0.9	0.8					1	20 A	RECEPTS RMS. 348B & 348C	20
21	RECEPTS RM. 346F	20 A	1			0.0	0.0			1	20 A	SPARE	22
23	RECEPTS RM. 346	20 A	1					0.0	0.0	1	20 A	SPARE	24
25	RECEPTS RM. 351B	20 A	1	0.0	0.0					1	20 A	TREADMIL RM. 348	26
27	RECEPTS. RMS. 349A, 349	20 A	1			1.0	0.0			1	20 A	TREADMIL RM. 348	28
29	VAV'S & H-1, H-2	20 A	1					0.1	0.0			SPACE	30
31	SPACE			0.0	0.0							SPACE	32
33	SPACE					0.0	0.0					SPACE	34
35	SPACE							0.0	0.0			SPACE	36
37				0.0									38
39	MAIN	100 A	3			0.0							40
41	1							0.0					42
	1	Tot	al Load:	6.4	kVA	4.2	kVA	2.6	kVA			1	

	Branch Panel: P5 Location: MECH 350 Supply From: - Mounting: SURFACE Enclosure: TYPE 1					Volts: Phases: Wires:	208Y/12 3	-				K.A.I.C. Rating: - Mains Type: MCB Mains Rating: 100A		
СКТ	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circuit Description	СКТ	
1				0.0	0.0								2	
3	3 W AIR COND. OUTSIDE UNIT	100 A	3			0.0	0.0			3	60 A	ELEVATOR	4	
5								0.0	0.0				6	
7	SPARE	20 A	1	0.0	0.0					1	20 A	CATHOLIC CHAPLAINS OFFICE CO.	8	
9	AIR HANDLER	15 A	2			0.0	0.0			1	20 A	JOHNSON CONTROL PANEL RM 348	10	
11								0.0	0.0	1	20 A	ROBOT	12	
13	CHAPEL AIR COND.	60 A	2	0.0	0.0								14	
15						0.0	0.0			3	20 A	3 W RETURN FAN	16	
17	SPACE	20 A	1					0.0	0.0				18	
19	SPACE	20 A	1	0.0	0.0					1	20 A	SPACE	20	
21	SPACE	20 A	1			0.0	0.0			1	20 A	SPACE	22	
23	SPACE	20 A	1					0.0	0.0	1	20 A	SPACE	24	
25	SPACE	20 A	1	0.0	0.0								26	
27	SPACE	20 A	1			0.0	0.0			3	30 A	3 W AHU RM 348	28	
29	SPACE	20 A	1					0.0	0.0	1			30	
	-	Tota	al Load:	0.0	kVA	0.0	kVA	0.0	kVA			+		

	Branch Panel: G				(E	EXIS	TING	3)					
	Location: CORRIDOR 39' Supply From: - Mounting: RECESSED Enclosure: TYPE 1	7				Volts: Phases: Wires:		20				K.A.I.C. Rating: - Mains Type: MCB Mains Rating: 100A	
СКТ	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circuit Description	СКТ
1	LIGHTS RM 351	20 A	1	0.0	0.0					1	20 A	RM 351 RECEPTS SOUTH WALL	2
3	LIGHTS 351 KBUAIH	20 A	1			0.0	0.0			1	20 A	RM 351, 351K, 351U RECEPTS	4
5	RM 351A, RM 351B RECEPTS	20 A	1					0.0	0.0	1	20 A	LIGHTS RM 351 RECEPTS REM 351E, 351K	6
7	SPARE	20 A	1	0.0	0.0					1	20 A	RM 347B RECEPTS	8
9	SPARE	20 A	1			0.0	0.0			1	20 A	RM 346D RECEPTS	10
11	RM 351C RECEPTS	20 A	1					0.0	0.0	1	20 A	RM 348E RECEPTS	12
13	LIGHTS RM 351C	20 A	1	0.0	0.0					1	20 A	RM 347 RECEPTS	14
15	-	20 A	1			0.0	0.0			1	20 A	RM 347 RECEPTS	16
17	LIGHTS RM 345, 346, 346A, 346B, 347	20 A	1					0.0	0.0	1	20 A	RM 347 RECEPTS	18
19	RM 347A RECEPTS	20 A	1	0.0	0.0					1	20 A	RM 345 RECEPTS	20
21	RM 347A RECEPTS	20 A	1			0.0	0.0			1	20 A	SPARE	22
23	SPACE	20 A	1					0.0	0.0	1	20 A	SPACE	24
25				0.0	0.0					1	20 A	-	26
27	MAIN	100 A	3			0.0	0.0			1	20 A	-	28
29								0.0	0.0	1	20 A	-	30

	Branch Panel: G				(M	ODI	FIED))					
	Location: CORRIDOR 397 Supply From: Mounting: Recessed Enclosure: Type 1				•		208Y/12 3	-				K.A.I.C. Rating: Mains Type: Mains Rating: 100 A	
СКТ	Circuit Description	Trip	Poles		A	E	3		C	Poles	Trip	Circuit Description	скт
1	RECEPTS RM. 351G	20 A	1	1.7	2.8					1	20 A	RECEPTS RMS. 351B,351C,349H	2
3	RECEPTS RM. 351F	20 A	1			1.1	1.2			1	20 A	RECEPTS RMS. 351A,351B,349H	4
5	RECEPTS RMS. 351 & 351E	20 A	1					1.1	0.8	1	20 A	LTG RMS. 351,351,B,C,D,E,F,G,349H	6
7	RECEPTS RMS. 351,351C,351D	20 A	1	1.7	0.0					1	20 A	RECEPTS RM. 347B	8
9	RECEPTS RM. 351	20 A	1			0.8	0.0			1	20 A	RECEPTS RM. 346D	10
11	REFRIGERATOR RM 351C	20 A	1					1.2	0.0	1	20 A	RECEPTS RM. 348E	12
13	RECEPTS RM. 351C	20 A	1	0.4	0.0					1	20 A	RECEPTS RM. 347	14
15	MICROWAVE RM 351C	20 A	1			0.2	0.0			1	20 A	RECEPTS RM. 347	16
17	LTG RMS. 345,346,346A,346B,347	20 A	1					0.0	0.0	1	20 A	RECEPTS RM. 347	18
19	RECEPTS RM. 347A	20 A	1	0.0	0.0					1	20 A	RECEPTS RM. 345	20
21	RECEPTS RM. 347A	20 A	1			0.0	0.0			1	20 A	SPARE	22
23	SPACE							0.0	0.0			SPACE	24
25				0.0	0.0							SPACE	26
27	MAIN	100 A	3			0.0	0.0					SPACE	28
29								0.0	0.0			SPACE	30
	•	Tot	al Load:	6.6	kVA	3.2	κVA	3.1	kVA			1	

	Branch Panel: P5 Location: ELEV. EC Supply From: Mounting: Surface Enclosure: Type 1			•	Volts: Phases: Wires:	208Y/12 3	•				K.A.I.C. Rating: Mains Type: Mains Rating: 100 A		
СКТ	Circuit Description	Trip	Poles		A	i	3		c	Poles	Trip	Circuit Description	скт
1				0.0	0.0								2
3	SPARE	100 A	3			0.0	0.0			3	60 A	ELEVATOR	4
5								0.0	0.0				6
7	SPARE	20 A	1	0.0	0.0					1	20 A	SPARE	8
9	- SPARE	15 A	2			0.0	0.0			1	20 A	JOHNSON CONTROL PANEL RM 348	10
11	OI / UKE	1071						0.0	0.0	1	20 A	ROBOT	12
13	- SPARE	60 A	2	0.0	0.0								14
15	OI / UKE	0071				0.0	0.0			3	20 A	SPARE	16
17	SPACE							0.0	0.0				18
19				12.3	0.0							SPACE	20
21	RTU-1 (ON ROOF)	150 A	3			12.3	0.0					SPACE	22
23								12.3	0.0			SPACE	24
25	SPACE			0.0	0.0								26
27	SPACE					0.0	0.0			3	30 A	SPARE	28
29	SPACE							0.0	0.0				30
		Tot	al Load:	12.3	kVA	12.3	kVA	12.3	kVA				

	Branch Panel: P3 Location: 5TH FLOOR I Supply From: - Mounting: SURFACE Enclosure: TYPE 1	AL		·			•		K.A.I.C. Rating: - Mains Type: - Mains Rating: 225A				
CKT	Circuit Description	Trip	Poles	ı	4	ı	В		C	Poles	Trip	Circuit Description	скт
1 3 5	AIR HANDLER	60 A	3	0.0	0.0	0.0	0.0	0.0	0.0	3	30 A	CHAPEL EXHAUST FAN	4 6
7 9 11	REHEAT ATTIC	20 A	3	0.0	0.0	0.0	0.0	0.0	0.0	3	20 A	ATTIC REHEAT	8 10 12
13 15 17	REHEAT	20 A	3	0.0	0.0	0.0	0.0	0.0	0.0	3	20 A	ATTIC REHEAT	14 16 18
19 21 23	REHEAT	20 A	3	0.0	0.0	0.0	0.0	0.0	0.0	3	20 A	ATTIC REHEAT	20 22 24
25	OUTDOOR OUTLET	20 A	1	0.0	0.0					1	20 A	FIRE DAMPER	26
27	JOHNSON CONTROLS PANEL	20 A	1			0.0	0.0			1	20 A	SPARE	28
29 31 33	EXHAUST/RELIEF FAN	15 A	3	0.0	0.0	0.0	0.0	0.0	0.0	1 1 1	20 A 20 A 20 A	SPACE SPACE SPACE	30 32 34
35	EXHAUST FAN CONTROLS	20 A	1					0.0	0.0	1	20 A		36

ENGINEERS/CONSULTANTS:

SCI ENGINEERING, INC

130 POINT WEST BLVD.

636-949-8200 636-949-8269 fax

WOOLPERT, INC.

SUITE 100

314-436-0865

314-436-0884 fax

343 FOUNTAINS PARKWAY

FAIRVIEW HEIGHTS, IL 62208

	Branch Panel: P3				(M	ODI	FIED)					
	Location: Supply From: Mounting: Surface Enclosure: Type 1					Volts: Phases: Wires:		0		ı		K.A.I.C. Rating: Mains Type: Mains Rating: 225 A	
СКТ	Circuit Description	Trip	Poles		A		3		C	Poles	Trip	Circuit Description	скт
1				0.0	0.0						-	·	2
3	AIR HANDLER	60 A	3			0.0	0.0			3	30 A	SPARE	4
5								0.0	0.0				6
7		20 A		0.0	0.0								8
9	REHEAT ATTIC	20 A	3			0.0	0.0			3	20 A	ATTIC REHEAT	10
11								0.0	0.0				12
13		20 A		0.0	0.0								14
15	REHEAT	20 A	3			0.0	0.0			3	20 A	ATTIC REHEAT	16
17								0.0	0.0			O A ATTIC REHEAT	18
19				0.0	0.0								20
21	REHEAT	20 A	3			0.0	0.0			3	20 A	ATTIC REHEAT	22
23								0.0	0.0				24
25	OUTDOOR OUTLET	20 A	1	0.0	0.0					1	20 A	FIRE DAMPER	26
27	JOHNSON CONTROLS PANEL	20 A	1			0.0	0.0					SPACE	28
29		20 A						0.6	0.0			SPACE	30
31	EF-1	20 A	3	0.6	0.6					_			32
33						0.6	0.6			3	15 A	HWP-1 & HWP-2	34
35	SPACE		 al Load:		kVA		kVA	0.0	0.6 kVA				36

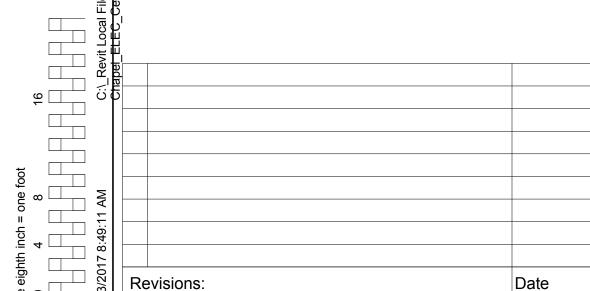
	Branch Panel: EX. P Location: MECH 350 Supply From: - Mounting: SURFACE Enclosure: TYPE 1			`	Volts: Phases: Wires:	208Y/12 3	,		K.A.I.C. Rating: - Mains Type: MCB Mains Rating: 100A				
СКТ	Circuit Description	Trip	Poles		4	I	3	(:	Poles	Trip	Circuit Description	СКТ
1	ELEVATOR LIGHTS	20 A	1	0.0	0.0					1	20 A	RM 348 FAN RECEPTS	2
3	ELEVATOR SHAFT LIGHT	20 A	1			0.0	0.0			1	20 A	RM 348 LIGHTS	4
5	TELEPHONE CLOSET RECEPTS	20 A	1					0.0	0.0	1	20 A	LIGHTS RESPIRATORY CARE	6
7	SPACE	20 A	1	0.0	0.0					1	20 A	SPACE	8
9	SPACE	20 A	1			0.0	0.0			1	20 A	SPACE	10
11	SPACE	20 A	1					0.0	0.0	1	20 A	SPACE	12
13	SPACE	20 A	1	0.0	0.0					1	20 A	SPACE	14
15	SPACE	20 A	1			0.0	0.0			1	20 A	SPACE	16
17	SPACE	20 A	1					0.0	0.0	1	20 A	SPACE	18
19	SPACE	20 A	1	0.0	0.0					1	20 A	SPACE	20
21	SPACE	20 A	1			0.0	0.0			1	20 A	SPACE	22
23	SPACE	20 A	1					0.0	0.0	1	20 A	SPACE	24
25	SPACE	20 A	1	0.0	0.0					1	20 A	SPACE	26
27	SPACE	20 A	1			0.0	0.0			1	20 A	SPACE	28
29	SPACE	20 A	1					0.0	0.0	1	20 A	SPACE	30
NOTES	 3:	Tota	al Load:			0.0	kVA	0.0	kVA				

	Branch Panel: EC				(M	ODII	FIED))					
	Location: ELEV. EQUIF Supply From: Mounting: Surface Enclosure: Type 1				Volts: Phases: Wires:	-	20				K.A.I.C. Rating: Mains Type: Mains Rating: 100 A		
СКТ	Circuit Description	Trip	Poles		Δ.	ı	3		C	Poles	Trip	Circuit Description	СКТ
1	ELEVATOR LIGHTS	20 A	1	0.0	0.0					1	20 A	RECEPTS RM. 348	2
3	ELEVATOR SHAFT LIGHT	20 A	1			0.0	0.0			1	20 A	LIGHTS RM. 348	4
5	TELEPHONE CLOSET RECEPTS	20 A	1					0.0	0.0	1	20 A	LIGHTS RESPITORY CARE	6
7	SPACE			0.0	0.2					1	20 A	EMERGENCY LIGHTING CORRIDOR 397	8
9	SPACE					0.0	0.0			1	20 A	FIRE ALARM BOOSTER PANEL	10
11	SPACE							0.0	0.0			SPACE	12
13	SPACE			0.0	0.0							SPACE	14
15	SPACE					0.0	0.0					SPACE	16
17	SPACE							0.0	0.0			SPACE	18
19	SPACE			0.0	0.0							SPACE	20
21	SPACE					0.0	0.0					SPACE	22
23	SPACE							0.0	0.0			SPACE	24
25	SPACE			0.0	0.0							SPACE	26
27	SPACE					0.0	0.0					SPACE	28
29	SPACE							0.0	0.0			SPACE	30
0750	: THE CALCULATED KVA TOTALS OF THIS PA		al Load:		kVA	0.0			kVA	CTING L		NOT INCLUDED IN THE TOTAL	

Author

Checker

Scale: 12" = 1'-0"



VA FORM 08-6231

ST. CHARLES, MO 63301

2 4 5



SEAL

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Drawing Title Project Title Project Number VA HEALTH CARE SYSTEM **ELECTRICAL PANEL** 438-16-104 2016.052 Owner Building Number **SCHEDULES** Approved: Project Director Drawing Number VAS 438-16-104 BLDG. 5 CHAPEL SIOUX FALLS, SD 57105 Drawn Checked

2017.03.13

PROJECT SPRINKLER NOTES

1. SPRINKLER CONTRACTOR SHALL SECURE AND PAY FOR ALL FEES AND PERMITS ASSOCIATED WITH HIS PORTION 2. THESE WORK PLANS TO BE CONSIDERED AS DIAGRAMMATIC AND REFLECT A GENERAL ORDER OF MAGNITUDE. FINAL DESIGN, HYDRAULIC CALCULATIONS AND ALL ELEMENTS NECESSARY FOR A COMPLETE SYSTEM ARE THE RESPONSIBILITY OF THE PROJECT SPRINKLER CONTRACTOR. ALL WORK SHALL CONFORM TO THE NATIONAL FIRE CODES (NFC), NFPA 13, NFPA 101, THE VA FIRE PROTECTION DESIGN MANUAL AND ADDITIONAL

REFERENCED CODES AND STANDARDS. 3. SPRINKLER CONTRACTOR TO VERIFY LOCATION, SIZE AND PRESSURES OF SPRINKLER SERVICE PRIOR TO COMMENCING SPRINKLER SYSTEM INSTALLATION. 4. SPRINKLER MAIN PIPE SIZE AND ARRANGEMENT ARE APPROXIMATE. SPRINKLER CONTRACTOR SHALL PERFORM

FLOW AND PRESSURE TESTS AND DETERMINE REQUIRED PIPE AND TRIM SIZES BY HYDRAULIC CALCULATIONS AS NOTED IN THE SPECIFICATION DESIGN CRITERIA AND IN ACCORDANCE WITH NFPA 13 SPRINKLER CONTRACTOR SHALL LOCATE SPRINKLER SYSTEM PIPING AS HIGH AS POSSIBLE AND SLOPE BRANCH PIPING BACK TO MAIN OR AUXILIARY DRAIN. BRANCH PIPING DROPS TO SPRINKLERS SHALL AVOID CONFLICTS WITH EXISTING CONDITIONS, WASTE PIPING, DUCTWORK, HVAC EQUIPMENT, LIGHTS, ACCESSORIES, ELECTRICAL

EQUIPMENT AND OTHER PIPING AND SHALL CONFORM TO DESIGN CRITERIA. 6. IN GENERAL ALL GENERAL PURPOSE ROOMS, OFFICE AND PUBLIC AREAS ARE TO BE LIGHT HAZARD CLASSIFICATION. MECHANICAL ROOMS, JANITOR'S STORAGE CLOSETS AND STORAGE AREAS SHALL BE

CLASSIFIED AS ORDINARY HAZARD GROUP 1. 7. WHERE LAY-IN TILE CEILINGS ARE PROVIDED, SPRINKLER LAYOUT SHALL BE SUCH THAT THE INSTALLATION OF SPRINKLERS SHALL BE ALIGNED IN EACH DIRECTION, AND SPRINKLERS SHALL BE CENTERED IN THE CEILING TILES. UNLESS NOTED OTHERWISE.

AND DEVICE, ROUTING AND LOCATIONS. SPRINKLERS SHALL NOT BE LOCATED BELOW HVAC VAV BOXES DUE TO MAINTENANCE ACCESS REQUIREMENTS. 9. SPRINKLERS SHALL BE LOCATED IN SUCH A MANNER AS TO PROVIDE COMPLETE COVERAGE, BOTH ABOVE AND BELOW OPEN CEILINGS AND BULKHEADS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL CEILING INFORMATION, INCLUDING TYPES AND ELEVATIONS. SPRINKLERS ARE ONLY PERMITTED TO BE OMITTED IN

8. HVAC, LIGHTING AND PITCHED PIPING SYSTEM INSTALLATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER PIPE

CONCEALED SPACES IN ACCORDANCE WITH NFPA 13. 10. PROVIDE ADDITIONAL SPRINKLERS UNDER ALL OBSTRUCTIONS EXCEEDING 48" ACROSS OR CUMULATIVE OF 48" ACROSS (I.E. DUCTWORK, SOUND ATTENUATION TREATMENT, CEILING TREATMENTS AND ETC.). 11. SPRINKLER PIPING ROUTED THROUGH FINISHED AREAS WITH CEILINGS SHALL BE CONCEALED ABOVE CEILING OR IN FURRED-OUT WALL (I.E. GENERAL SPRINKLER PIPING, INSPECTOR'S TEST, DRAINS, AND ETC). SPRINKLER

WITH GENERAL CONTRACTOR AS NECESSARY. 12. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WALL/FLOOR/CEILING CUTTING AND PATCHING REQUIRED FOR THIS TRADE WORK. FINAL FINISH SHALL BE BY GENERAL CONTRACTOR. NOTE: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED PENETRATIONS SHALL BE

PIPING SHALL BE PAINTED TO MATCH SURROUNDING SURFACES IN FINISHED EXPOSED AREAS, COORDINATE

FIRESTOPPED TO ORIGINAL OR NEWLY SPECIFIED ASSEMBLY RATING. 13. SPRINKLER PIPES AND MISCELLANEOUS PENETRATIONS THROUGH ACOUSTIC RATED PARTITIONS AND SMOKE/FIRE BARRIERS (INCL. WALLS AND CEILINGS) SHALL BE FIRESTOPPED AND/OR HAVE ACOUSTIC SEALANT ALL AROUND (MEETING THE REQUIREMENTS OF THE ORIGINAL ASSEMBLY RATING) TO MAINTAIN THE INTEGRITY OF THAT BARRIER. PROVIDE ESCUTCHEON PLATES AT EACH SIDE OF PENETRATION IN FINISHED AREAS. SEE

ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLY LOCATIONS. 14. ALL PIPING, VALVES AND APPURTENANCES SHALL BE INSTALLED SUCH AS NOT TO OBSTRUCT ANY PORTION OF WINDOWS, DOORWAYS, PASSAGEWAYS, OR ACCESS TO VARIOUS EQUIPMENT, ETC.

15. SPRINKLER CONTRACTOR SHALL COORDINATE ALL ASPECTS OF WORK WITH OTHER TRADES PRIOR TO CONSTRUCTION/INSTALLATION. 16. SPRINKLER SYSTEM PIPING SYSTEMS SHALL BE PROVIDED WITH ALL NECESSARY SUPPORTS, REINFORCEMENT, WALL BRACKETS, AIR GAP FITTING AND APPURTENANCES.

17. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY INTERFACE WIRING AND MONITORING MODULES REQUIRED BETWEEN THE SUPERVISORY SWITCHES, FLOW SWITCHES, ALARM DEVICES, STROBES AND THE FIRE ALARM PANEL. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERFACE TERMINALS AS PART OF THE FIRE ALARM SYSTEM AS REQUIRED TO PROVIDE THE SPECIFIED NOTIFICATION. SPRINKLER CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR AND THE

FIRE ALARM PROVIDER PRIOR TO PURCHASE OF SPRINKLER SYSTEM ALARM DEVICES. 18. SPRINKLER PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE. WHERE CONFLICTS WITH OTHER TRADES ARE ENCOUNTERED DUE TO PIPE ROUTING BEING OTHER THAN AS HIGH AS POSSIBLE, SPRINKLER PIPE RELOCATION SHALL BE AT THE EXPENSE OF THE SPRINKLER CONTRACTOR. SUSPEND PIPING FROM STRUCTURAL FRAMING MEMBERS AND STRUCTURAL WALLS ONLY.

19. SPRINKLER DROPS SHALL BE OF A LENGTH WHICH WILL ALLOW FIELD TRIMMING, AS NECESSARY TO ACCOMMODATE FIELD ADJUSTMENT OF CEILINGS AS CONDITIONS DICTATE. 20. WHEN THE SMALL ROOM RULE OR WHERE REMOTE AREA REDUCTION WITH QUICK RESPONSE SPRINKLERS IS UTILIZED (PER THE ACCEPTANCE OF THE AHJ), THE CONTRACTOR SHALL PROVIDE CLEAR NOTATION OF

APPLICATION ON THE SUBMITTED CONTRACTOR WORKING DRAWINGS. 21. IN VISUALLY EXPOSED FINISHED AREAS, PROVIDE CHROME PLATED ESCUTCHEONS ON EACH SIDE OF WALL & FLOOR PIPE PENETRATIONS. FINISH EXCEPTION - ESCUTCHEONS SHALL BE BLACK IN AREAS WITH A BLACK

FINISH AND WHITE IN AREAS WITH WHITE FINISH, ETC. SEE SPECIFICATIONS FOR OTHER SPECIALITY AREAS. 22. GENERAL CONTRACTOR SHALL PAINT ALL VISUALLY EXPOSED SPRINKLER PIPING, HANGERS AND APPURTENANCES TO MATCH THE EXPOSED STRUCTURE, UPPER DECK AND WALLS WHERE SPRINKLER SYSTEM IS ROUTED IN THESE AREAS. SPRINKLER CONTRACTOR SHALL PROTECT ALL SPRINKLERS AND DEVICES FROM PAINT AND POSSIBLE DAMAGE, COORDINATE WITH GENERAL CONTRACTOR.

23. INSTALL SPRINKLER WIRE GUARDS IN MECHANICAL ROOMS AND STORAGE ROOM AND MISCELLANEOUS AREAS WHERE PENDENT AND UPRIGHT SPRINKLERS ARE SUBJECT TO DAMAGE. 24. PROTECT OWNER FIXTURES AND PROPERTY FROM DISCOLORED WATER ORIGINATING FROM SYSTEM FLOW TESTS. WHERE OWNER FIXTURES AND PROPERTY IS ADVERSELY AFFECTED BY FLOW TEST, CONTRACTOR

SHALL CLEAN / RETURN PROPERTY TO ORIGINAL CONDITION. 25. WHEN A CONFLICT BETWEEN PLANS. SPECIFICATIONS AND / OR NOTES OCCURS. THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC, OR STRICTER PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS, NOTES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.

26. SPRINKLER CONTRACTOR SHALL MAKE ALL NECESSARY PLAN SUBMITTALS TO REGIONAL FIRE MARSHAL, LOCAL FIRE DEPARTMENT AND THE ARCHITECT /ENGINEER. 27. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION IN REGARDS TO THE WET PIPE FIRE PROTECTION

28. SPRINKLER CONTRACTOR SHALL CONFIRM THAT A DRAIN PIPE IS PROVIDED FOR THE SECTION OF THE SPIRNKLER SYSTEM MODIFIED UNDER THIS CONTRACT. DRAIN PIPE MINIMUM SIZE IS 2 INCHES AND SHALL COMPLY WITH THE V.A. FIRE PROTECTION DEISGN MANUAL AND NFPA 13. DRAIN PIPE SHALL TERMINATE AT THE BUILDING EXTERIOR OR SHALL BE CONNECTED TO THE EXISTING MAIN DRAIN FOR THE EXISTING SYSTEM.

CONTRACTOR SHALL PROVIDE NEW DRAIN PIPING IF REQUIRED. 29. SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13, LEGEND AND SYMBOLS IN COMPLIANCE WITH NFPA 170 SHALL BE USED. 30. SEISMIC BRACING (EARTHQUAKE PROTECTION) IS NOT REQURIED FOR THIS PROJECT IN ACCORDANCE WITH VA

FIRE PROTECTION DESIGN MANUAL, PARAGRAPH 6.1.I AND VA SEISMIC DESIGN REQUIREMNTS H-18-8.

APPLICALBE CODES AND STANDARDS

VA FIRE PROTECTION DEISGN MANUAL - U.S. DEPARTMENT OF VETERANS AFFAIRS, SEVENTH EDITION (DECEBMER 2015) NFC - NATIONAL FIRE CODES, PUBLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (2016 EDITION) NFPA 25 - STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS

NFPA 101 - LIFE SAFETY CODE (2015 EDITION)

NFPA 170 - STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS (2015 EDITION)

NOTE 1: FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS BY NFPA 101 OR THE NFC, THE DOCUMENT REFERENED BY NFPA 101 OR THE NFC SHALL BE USED EXCLUSIVELY.

NOTE 2: FIRE PROTECTION FEATURES NOT ADDRESSED BY THE NFC OR OTHERWISED ADDRESSED IN THE VA FIRE PROTECITON DEISGN MANUAL SHALL BE DESIGNED TO COMPLY WITH THE REQURIEMENTS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).

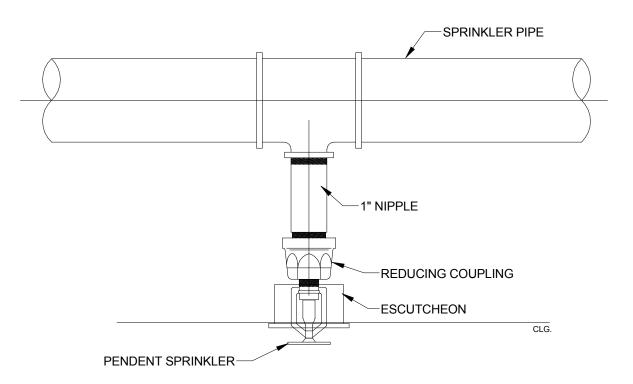
PLAN MARK	OCCUPANCY HAZARD	GROUP	AREA (SQ FT)	AREA (SQ M)	DENSITY (GPM/SQ FT)	DENSITY (LPM/SQ M)	NOTES
Α	LIGHT HAZARD	-	225	20.9	.1/1500	.38/139	1,2
В	ORDINARY HAZARD	GROUP 1	130	12.1	.15/1500	.57/139	1,2
С	ORDINARY HAZARD	GROUP 2	130	12.1	.2/1500	.57/139	1,2
APPROV	/IDE QUICK RESPONSE, FA VED SPRINKLERS, EXECPT CEALED SPRINKELRS ARE FIED ON THE DRAWINGS FO	AS NOTED IN SPÈCI PROHIBITED EXCEPT	FICATIONS. FAS	SQ M - SQU GPM - GALI	ARE FEET ARE METERS LONS PER MINUTE		

CONTRACTOR TO KEEP FIRE RATINGS IN TACT AT ALL TIMES DURING CONSTRUCTION BY PROVIDING ONE OF THE FOLLOWING

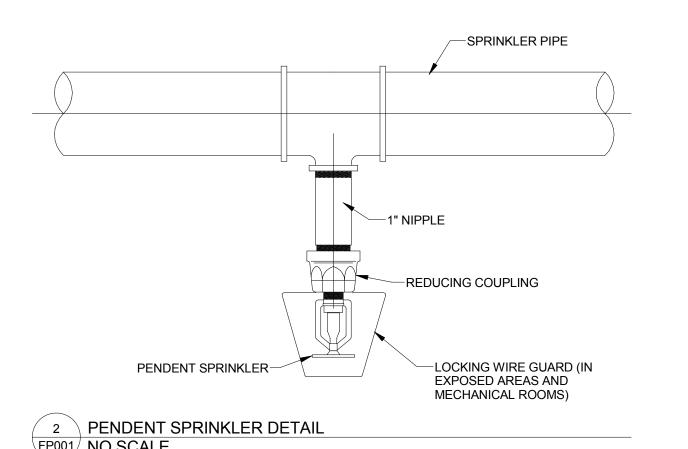
ONE - LEAVE THE EXISTING SPRINKLER SYSTEM OPERATIONAL IN THE RENOVATED AREA AND PROVIDE UPRIGHT SPRINKLER HEADS ON THE EXISTING PIPE TO PROVIDE COVERAGE IN THE AREA OF WORK PER NFPA 13 DURING CONSTRUCTION. THIS WILL LIKELY INVOLVE MOVING SPRINKLERS TO WITHIN 12 INCHES OF THE DECK ABOVE. AFTER THE NEW SPRINKLER PIPING IS INSTALLED, TESTED, AND APPROVED, THE SPRINKLERS AT THE DECK LEVEL AND THE EXISTING PIPING SHALL BE REMOVED.

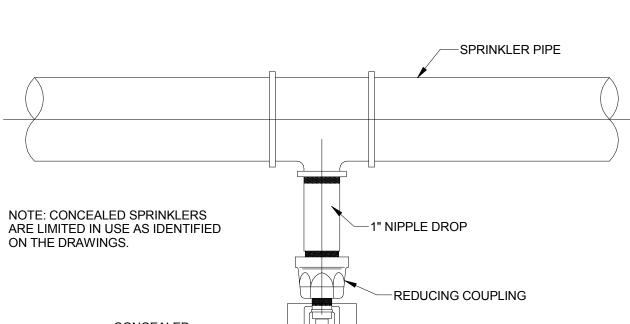
TWO - CONTRACTOR MAY SHUTDOWN THE EXISTING SPRINKLER SYSTEM IN THE AREA OF WORK PROVIDED THAT THE CONTRACTOR INSTALL A 1-HOUR FIRE-RESISTANCE RATED SEPARATION BETWEEN EVERY OCCUPIED SPACE ADJACENT TO THE CONSTRUCTION AREA. CONTRACTOR SHALL COORDINATE WITH THE VETERANS ADMINISTRATION, THE CONTRACTING

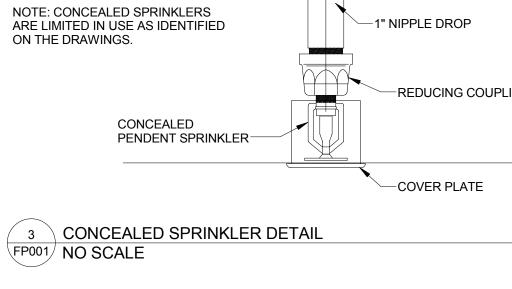
OFFICER, AND THE A/E. ALL FIRE-RESISTANCE RATED SEPARATIONS SHALL COMPLY WITH NFPA 101 AND UL LISTINGS



SEMI-RECESSED SPRINKLER DETAIL







Date

16

VA FORM 08-6231

ENGINEERS/CONSULTANTS: WOOLPERT, INC. 343 FOUNTAINS PARKWAY SUITE 100 FAIRVIEW HEIGHTS. IL 62208 314-436-0865 314-436-0884 fax

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Drawing Title FIRE PROTECTION LEGENDS, **NOTES AND DETAILS** Approved: Project Director

Project Title Project Number VA HEALTH CARE SYSTEM 438-16-104 2016.052 **Building Number** Drawing Number VAS 438-16-104 BLDG. 5 CHAPEL SIOUX FALLS, SD 57105 Drawn Checked

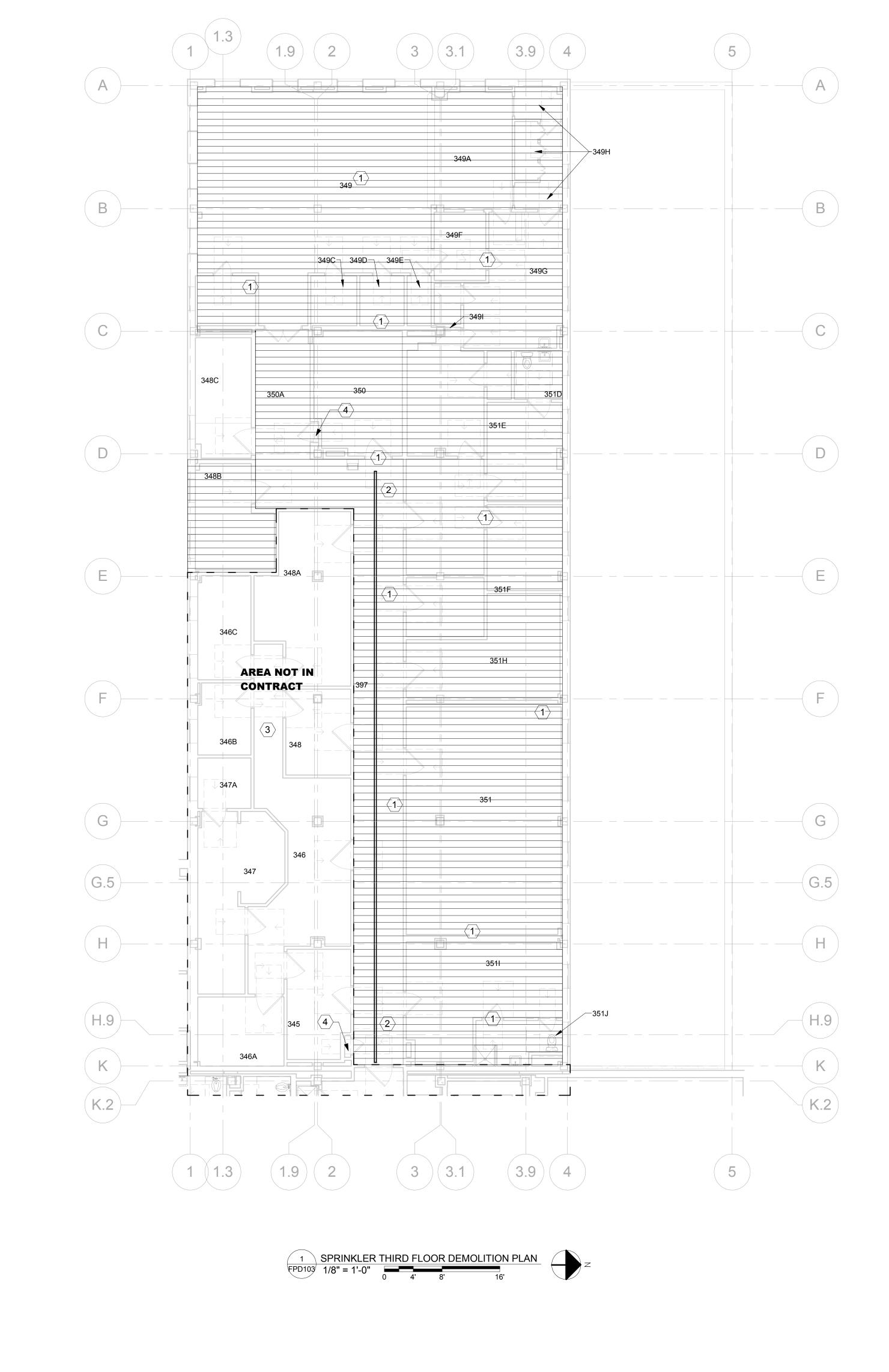
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2017.03.13

OWNER

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



KEYED NOTES DEMOLISH ALL SPRINKLERS, PIPING, HANGERS AND APPURTENANCES BACK TO SPRINKLER MAIN. SOME SPRINKLERS ARE INSTALLED ALONG WALLS BENEATH THE CEILINGS. RETURN WALLS TO ORIGINAL CONDITION (INCLUDING FIRE RATING) WHERE PIPING AND APPURTENANCES ARE REMOVED EXISTING SPRINKLER MAIN IN CORRIDOR TO REMAIN AND BE RE-USED. EXISTING SPRINKLERS, PIPING AND APPURTENANCES IN ROOMS OUTSIDE OF THE PROJECT AREA SHALL REMAIN. CONTRACTOR SHALL NOT DISTURB OR DISCONNECT THE EXISTING SPRINKLER SYSTEM IN THE "AREA NOT IN CONTRACT". CONTRACTOR SHALL DEMOLISH EXISTING FIRE HOSE CABINETS AND CAP EXISTING SPRINKLER RISER AT WALL.

THE SPRINKLER MAIN LOCATED IN THE CORRIDOR IS REQUIRED TO REMAIN ACTIVE DURING BUSINESS HOURS FOR THE DURATION OF THE CONSTRUCTION PERIOD IN ORDER TO SUPPLY THE SPRINKLERS IN THE RESPIRATORY CARE PORTION OF THE FLOOR (NOTED AS OUT OF CONTRACT ON THE PLAN). THE CONTRACTOR IS PERMITTED TO TAKE THE SPRINKLER MAIN TEMPORARILY OUT OF SERVICE AFTER HOURS TO ALLOW THE REMOVAL OF THE DEMOLISHED SPRINKLER BRANCH PIPING AND FOR RE-CONNECTION OF THE NEW SPRINKLER BRANCH PIPING. CONTRACTOR SHALL PROVIDE A FIRE WATCH DURING THE TIME THE SPRINKLER SYSTEM IS TAKEN OUT OF SERVICE. THE TIMING AND DURATION OF THE SPRINKLER SYSTEM SHUTDOWN SHALL BE COORDINATED WITH AND APPROVED BY THE VA AND AUTHORITY HAVING JURISDICTION.

CONTRACTOR TO KEEP FIRE RATINGS IN TACT AT ALL TIMES DURING CONSTRUCTION BY PROVIDING ONE OF THE FOLLOWING

ONE - LEAVE THE EXISTING SPRINKLER SYSTEM OPERATIONAL IN THE RENOVATED AREA AND PROVIDE UPRIGHT SPRINKLER HEADS ON THE EXISTING PIPE TO PROVIDE COVERAGE IN THE AREA OF WORK PER NFPA 13 DURING CONSTRUCTION. THIS WILL LIKELY INVOLVE MOVING SPRINKLERS TO WITHIN 12 INCHES OF THE DECK ABOVE. AFTER THE NEW SPRINKLER PIPING IS INSTALLED, TESTED, AND APPROVED, THE SPRINKLERS AT THE DECK LEVEL AND THE EXISTING PIPING SHALL BE REMOVED.

TWO - CONTRACTOR MAY SHUTDOWN THE EXISTING SPRINKLER SYSTEM IN THE AREA OF WORK PROVIDED THAT THE CONTRACTOR INSTALL A 1-HOUR FIRE-RESISTANCE RATED SEPARATION BETWEEN EVERY OCCUPIED SPACE ADJACENT TO THE CONSTRUCTION AREA. CONTRACTOR SHALL COORDINATE WITH THE VETERANS ADMINISTRATION, THE CONTRACTING OFFICER, AND THE A/E. ALL FIRE-RESISTANCE RATED SEPARATIONS SHALL COMPLY WITH NFPA 101 AND UL LISTINGS.

Scale: 1/8" = 1'-0" Project Title Project Number OWNER SPRINKLER THIRD FLOOR VA HEALTH CARE SYSTEM 438-16-104 2016.052 Building Number **DEMOLITION PLAN** Approved: Project Director Drawing Number FPD103 VAS 438-16-104 BLDG. 5 CHAPEL

Checked

MDM

Drawn

MFB

SIOUX FALLS, SD 57105

2017.03.13

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Date

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SCI ENGINEERING, INC 130 POINT WEST BLVD. ST. CHARLES, MO 63301 636-949-8200 636-949-8269 fax FINAL SUBMITTAL FOR CONSTRUCTION



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