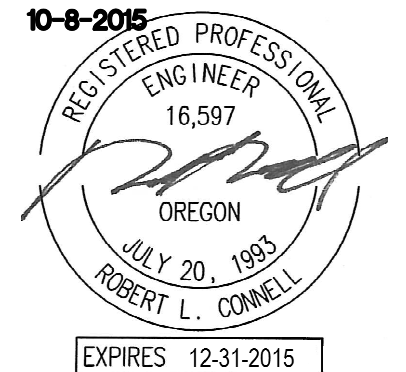




IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2014-75
DATE: 10-08-2015

REVISIONS

02.05.16 PLAN REVIEW

VANCOUVER AVE PHASE II
MIXED USE BUILDING
NEC N VANCOUVER AVE & N SHAVER ST, PORTLAND, OR 97227

SHEET:

E1.13

MFIA
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
www.MFIA-ENG.COM
CONTACT: DENISE TAYLOR

MFIA PANEL SCHEDULE												location		connected load amps	
panel		mounting		location		1ST FLOOR		bus & main		MCB		calculated load amps		100	
E1		SURFACE		phase		3		150A						103	
voltage		120/208V		a/p		no.		a b c		no.		a/p		va	
service		va		a/p		no.		a b c		no.		a/p		va	
C		112		20/1		1		*		2		20/1		500	
1 LIGHTS - BLDG EXTERIOR		828		20/1		3		*		4		20/1		500	
1 LIGHTS - GARAGE		420		20/1		5		*		6		20/1		1000	
1 LIGHTS - STAIR #1		462		20/1		7		*		8		20/1		500	
1 LIGHTS - STAIR #2		460		20/1		9		*		10		20/1		500	
1 LIGHTS - 1ST FLOOR		364		20/1		11		*		12		20/1		248	
1 LIGHTS - 2ND FLOOR		1000		20/1		13		*		14		20/1		360	
5 BUILD ACCESS CONTROLS		500		20/1		15		*		16		20/1		500	
5 FACP		500		20/1		17		*		18		20/1		500	
5 LCP		3456		60/3		19		*		20		20/1		500	
6 BOOSTER PUMP P-1		3456		60/3		19		*		20		20/1		500	
6 *		3456		60/3		19		*		20		20/1		500	
6 *		3456		60/3		19		*		20		20/1		500	
SPARE		0		20/1		25		*		26		20/1		0	
5 SMOKE DAMPERS		1000		20/1		27		*		28		20/1		0	
3 WH-1 & WH-2		1000		20/1		29		*		30		20/1		0	
6 RP-1		1176		20/1		31		*		32		20/1		0	
3 HEAT TRACE		1000		20/1		33		*		34		20/1		0	
3 HEAT TRACE		1000		20/1		35		*		36		20/1		0	
SPARE		0		20/1		37		*		38		60/3		4216	
SPARE		0		20/1		39		*		40		60/3		2580	
SPARE		0		20/1		41		*		42		60/3		2480	
Phase A		12282		VA											
Phase B		11684		VA											
Phase C		12144		VA											
Total Connected		36110		VA											
load code:		ph. A		ph. B		ph. C		total		factor					
1. LIGHTS=		574		1788		1032		VA		3394		1.25		4243	
2. RECEPT=		360		0		0		VA		360		1 + 0.5		360	
3. HEATING=		0		1000		2000		VA		3000		1.00		3000	
4. KITCHEN=		0		0		0		VA		0		1.00		0	
5. EQUIP.=		2000		2860		1500		VA		6360		1.00		6360	
6. MOTORS=		5132		3456		5132		VA		13720		*		13720	
7. MISC=		4216		2580		2480		VA		9276		1.00		9276	
(* 125% of the largest motor + 100% of the balance)														TOTAL =	
														36959	

MFIA PANEL SCHEDULE														
panel		mounting				location				connected load amps				
E2		SURFACE				3RD FLOOR								
voltage		phase				bus & main				calculated load amps				
120/208V		3				60A				MLO				
service		va	a/p	no.	a	b	c	a/p	va	service				
C														
1	LIGHTS - 3RD FLOOR	364	20/1	1	*			2	20/1	500	ELEVATOR REFUEL VENT			C
1	LIGHTS - 4TH FLOOR	284	20/1	3	*			4	20/1	120	TERRACE GAS SHUT OFF			6
1	LIGHTS - 5TH FLOOR	304	20/1	5	*			6	20/1	1000	SMOKE DAMPERS			5
6	EF-4	1176	20/1	7	*			8	20/1	1000	SMOKE DAMPERS			5
6	EF-5	1176	20/1	9	*			10	20/1	1000	SMOKE DAMPERS			5
6	EF-6	1176	20/1	11	*			12	20/1	696	EF-9			6
6	EF-7	1176	20/1	13	*			14	20/1	696	EF-10			6
	BLANK			15	*			16			BLANK			
	BLANK			17	*			18			BLANK			
	BLANK			19	*			20			BLANK			
	BLANK			21	*			22			BLANK			
	BLANK			23	*			24			BLANK			
	BLANK			25	*			26			BLANK			
	BLANK			27	*			28			BLANK			
	BLANK			29	*			30			BLANK			
Phase A		4912 VA				NOTES:					line-line voltage			
Phase B		2580 VA									208			
Phase C		3176 VA									largest motor (va)			
Total Connected		10688 VA									0			
load code:		ph. A	ph. B			ph. C	total		factor	calculated load (va)				
1. LIGHTS=		364	284			304	VA	952	1.25	1190				
2. RECEPT=		0	0			0	VA	0	1 + 0.5	0				
3. HEATING=		0	0			0	VA	0	1.00	0				
4. KITCHEN=		0	0			0	VA	0	1.00	0				
5. EQUIP.=		1000	1120			1000	VA	3120	1.00	3120				
6. MOTORS=		3548	1176			1872	VA	6596	*	6596				
7. MISC=		0	0			0	VA	0	1.00	0				
(* 125% of the largest motor + 100% of the balance)										TOTAL = 10906				