20-Feb-14				PANEL:	PGH1					LOCATION:	ELECT RM 102		
TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE	
H	EUH-2	3990	20	1	4438			2	20	448	LEVEL B	L	
H	EUH-1	3990	20	3		3990		4	20		SPARE		
L	MECH, TELECOM	92	20	5			92	6	20		SPARE		
L	[1] EXTERIOR	569	20	7	1954			8	20	1385	WEST STAIR [2]	L	
L	ELECT	46	20	9		666		10	20	620	EAST STAIR [2]	L	
L	LCP	500	20	11			500	12	20		SPARE		
L	[1]ROOF	2342	20	13	2617			14	20	275	LEVEL 1 - SOUTH PERIM. [2]	L	
	SPARE		20	15		550		16	20	550	LEVEL 1 - INBOARD	L	
	SPARE		20	17			204	18	20	204	LEVEL 1 - NORTH PERIM. [2]	L	
	SPARE		20	19	300			20	20	300	LEVEL 1 - EAST	L	
	SPARE		20	21		1536		22	20	1536	[1] LEVEL 2 - ENTRY DRIVE	L	
	SPARE		20	23			300	24	20	300	LEVEL 2 - EAST	L	
	SPARE		20	25	183			26	20	183	LEVEL 2 - SOUTH PERIM. [2]	L	
	SPARE		20	27		372		28	20	372	LEVEL 2 - INBOARD	L	
	SPARE		20	29			326	30	20	326	LEVEL 2 - NORTH PERIM. [2]	L	
	BUSSED SPACE			31	0			32			BUSSED SPACE		
	BUSSED SPACE			33		0		34			BUSSED SPACE		
	BUSSED SPACE			35			0	36			BUSSED SPACE		
M	ELEVATOR	4432	30/3	37	4432			38			BUSSED SPACE		
M	X	4432	X	39		4432		40			BUSSED SPACE		
M	X	4432	X	41			4432	42			BUSSED SPACE		
					13924	11546	5854						

COPPER BUS SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	480	MOUNTING:	SURFACE		[1] VIA LCP
PHASE:	3	ENCLOSURE:	NEMA 1		[2] LOCAL DAYLIGHT SENSOR
WIRE:	4	# OF 1-POLE CIRCUITS	42		CONTROL
LUGS:	MLO	CONNECTED KVA:		31.3	
BREAKER AIC RATING:	25K	CONNECTED AMPS:		37.7	
NEUTRAL:	100%	NET KVA:		31.3	
FEEDER OCPD SIZE:	225	NET AMPS:		37.7	© 2008-2011 PK ELECTRICAL, INC.

20-Feb-14				PANEL:	PBGL1					LOCATION:	ELECT. RM 102	
TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	DESCRIPTION	TYPE
R	LEVEL B	720	20	1	1920			2	20	1200	SP-1 1/2HP	M
R	RISER COL. G-2	720	20	3		970		4	20	250	ELEV PIT	R
R	RISER COL. G-9	540	20	5			1668	6	20	1128	SP-2A	M
R	RM 102	180	20	7	1308			8	20	1128	SP-2B	M
R	TELECOM RM.	600	20	9		1300		10	20	700	EF-1 1/4HP	M
R	TELECOM RM.	600	20	11			1300	12	20	700	EF-2 1/4HP	M
E	TRAFFIC COUNTER LEVEL 1	500	20	13	592			14	20	92	ELEV HOIST WAY	L
E	TRAFFIC COUNTER LEVEL 2	500	20	15		680		16	20	180	ELEV HOIST WAY	R
H	HEAT TRACE LEVEL B	700	20[1]	17			800	18	20	100	EF-3 1/25HP	M
H	HEAT TRACE LEVEL 1	1260	30[1]	19	1560			20	20	300	ELEV LTS.	L
H	HEAT TRACE LEVEL 2	252	20[1]	21		952		22	20	700	MOTORIZED DOOR	M
H	HEAT TRACE LEVEL 3	840	30[1]	23			1540	24	20	700	MOTORIZED DOOR	M
L	SIGN NORTH	500	20	25	1200			26	20	700	MOTORIZED DOOR	M
L	SIGN WEST	500	20	27		1200		28	20	700	MOTORIZED DOOR	M
L	SIGN SOUTH	500	20	29			500	30	20		SPARE	
	SPARE		20	31	0			32	20		SPARE	
	SPARE		20	33		0		34	20		SPARE	
	SPARE		20	35			0	36	20		SPARE	
	SPARE		20	37	0			38	20		SPARE	
	SPARE		20	39		916		40	20/2	916	SP-3	M1
	SPARE		20	41			916	42	X	916	X	M1
					6580	6018	6724					

COPPER BUS SIZE:	125	GROUND:	STANDARD		NOTES:
VOLTAGE:	208	MOUNTING:	SURFACE		[1] 30mA GFCI BREAKER
PHASE:	3	ENCLOSURE:	NEMA 1		[2] VIA LCP
WIRE:	4	# OF 1-POLE CIRCUITS	42		
LUGS:	MLO	CONNECTED KVA:		19.3	
BREAKER AIC RATING:	22K	CONNECTED AMPS:		53.6	
NEUTRAL:	100%	NET KVA:		19.8	
FEEDER OCPD SIZE:	125	NET AMPS:		54.9	© 2008-2011 PK ELECTRICAL, INC.

LOAD CALCULATION: DIST. BD. PGH

BOARD	PANEL	LIGHTING	RECEPTS.	EQUIP.	MOTOR	KITCHEN	HEAT	TOTAL
	PGH1	10,048			13,296		7,980	31,324
	DB-PGL	1,892	3,790	27,600	6,788		72,052	112,122
	Total Connected Load:	11,940	3,790	27,600	20,084		80,032	143,446
	Largest Motor:				13,296			
NEC Demand Factor		100%	100%, 1st 10KW 50% for rest	100%	100% + 25% of Largest Load	65%	100%	
NEC Code Reference		NEC 220.42	NEC 220.44		NEC 430.24	NEC 220.56	NEC 220.51	
	Total Demand Load:	11,940	3,790	27,600	23,408		80,032	146,770
	NEC Load:	146,770	at 480/277V		176.5 Amps			

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LOAD CALCULATION: DB-PGL

BOARD	PANEL	LIGHTING	RECEPTS.	EQUIP.	MOTOR	KITCHEN	HEAT	TOTAL
	PBGL1	1,892	3,790	1,000	9,588		3,052	19,322
	(E) PNL G/GL *			26,600				26,600
	(E) SNOW MELT						69,000	69,000
	Total Connected Load:	1,892	3,790	27,600	9,588		72,052	114,922
	Largest Motor:							
NEC Demand Factor		100%	100%, 1st 10KW 50% for rest	100%	100% + 25% of Largest Load	65%	100%	
NEC Code Reference		NEC 220.42	NEC 220.44		NEC 430.24	NEC 220.56	NEC 220.51	
	Total Demand Load:	1,892	3,790	27,600	9,588		72,052	114,922
	NEC Load:	114,922	at 208/120V		319.0 Amps			

* Demand Load 9/4/2012 thru 9/11/2012 Xs 1.25

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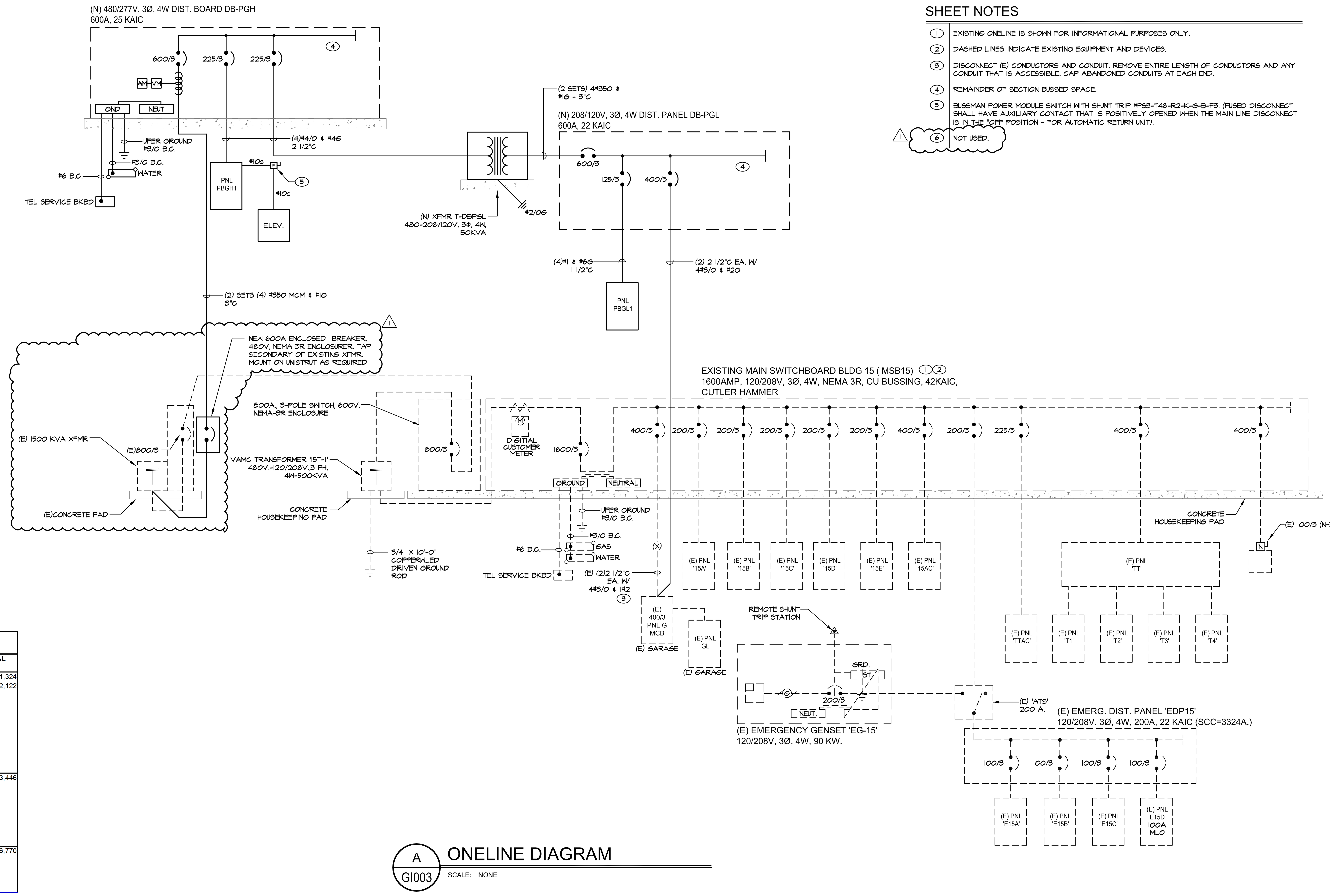

A ONELINE DIAGRAM
GI003
SCALE: NONE

SHEET NOTES

1. EXISTING ONELINE IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. DASHED LINES INDICATE EXISTING EQUIPMENT AND DEVICES.
3. DISCONNECT (E) CONDUCTORS AND CONDUIT. REMOVE ENTIRE LENGTH OF CONDUCTORS AND ANY CONDUIT THAT IS ACCESSIBLE. CAP ABANDONED CONDUITS AT EACH END.
4. REMAINDER OF SECTION BUSSED SPACE.
5. BUSSMAN POWER MODULE SWITCH WITH SHUNT TRIP #PS3-T48-R2-K-G-B-F3. (FUSED DISCONNECT SHALL HAVE AUXILIARY CONTACT THAT IS POSITIVELY OPENED WHEN THE MAIN LINE DISCONNECT IS IN THE 'OFF POSITION - FOR AUTOMATIC RETURN UNIT).
6. NOT USED.

BID DOCUMENTS

Revisions:	Date
REVISIONS TO ELECTRICAL SERVICE	2/20/14

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Drawings Title: Oneline Diagrams

Approved: Project Director

Project Title: VA Sierra Nevada Parking Structure

Location: 975 Kirman Ave., Reno, Nevada

Date: January 20, 2014 | Checked: KDP | Drawn: MSP

Project Number: 654-CSI-914

Building Number: 16

Drawing Number: GI003

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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