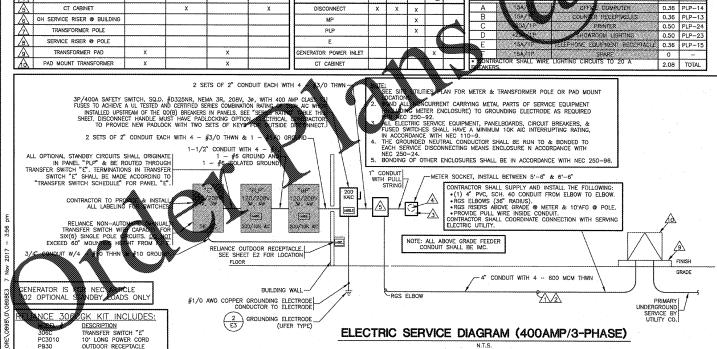
GRAYBAR ELECTRIC CO. INC. 11885 LACKLAND ROAD ST. LOUIS, MO. 63146

GRAYBAR OREILLY TEAM EMAIL: oreilly@graybar.com TOLL FREE: (314) 573-2080

ı	VIP.		PANELBOARD SCHEDULE											
	MAINS:	400A1	WAIN LUGS ONLY	VC	LTAGE:	208		ACCE	SSORIES					
	TYPE:	SQUA	RE D, NQOD		PHASE:	3 Ph, 4W		1. EQUIPMENT GROUND BAR						
N	OUNTING:	SURF.	ACE		WIDTH:	20 INC	HES		ATED GROUND BAR FI BREAKER CKT. #11					
	SCCR:	200K/	10K AIC	SP	ACE(S):	42			Q. D'#Q01PAF CT. #15					
CKT	CKTBRK	WRE	LOAD DESCRIPTION	(KVA)	A(KVA)	B(KVA)	C(KVA)	(KVA)	LOAD DESCRIPTION	WIRE	CKT.BRK	C		
1	20A/1P	#10s	CUTOFF SAW	1.73	5.66	****		3.93				1		
3	20A/1P	#10s	STARTER/ALT. TEST	1.64		5.57		3.93	RTU-1 7.5-TON	#8s	50A/3P	1		
5	20A/1P	#10s	LATHE	1.70			5.63	3.93	1.5-764					
7	20A1P	#12s	LIGHTING	0.78	4.71			3,93						
9	20A/1P	#12s	LIGHTING	0.67		4.60		3.93	RTU-2 7.5 TON	#8s	50A/3P	1		
11	***20A/1P	#129	WATER COOLER	0.54			4.47	3.93	7.5 1011			1		
13	20A/1P	#12s	RTU RCPTS	0.54	4.47			3.93				1		
15	**20A/1P	#12s	WATER HEATER	1.65		5.58		3.93	RTU-3 7.5 TON	#8s	50A/3P	1		
17			SPACE	·			3,93	3.93	7.5 TON			1		
19			SPACE		0.00				SPACE			2		
21	20A/1P	#10s	STARTER/ALT. TEST	1.68		1.68			SPACE		·	2		
23	.20A/1P	#10s	STARTER/ALT. TEST	1.68			1.68		SPACE			2		
25	20A/1P	#12s	LIGHTING	0.84	0.84				SPACE			2		
27				10.01		10.01			SPACE			2		
29	100A/3P		PLP PANEL	3.57			3.57		SPACE			3		
31				6.10	6.10				SPACE			3		
33	20A/1P	#108	BUILDING LIGHTING	0.24		0.74		0.50	нотвох	#12s	20A1P	3		
35				0.03			0.39	0.36	ISO GRND RCPTS	#12s	20A1P	3		
37	15A/3P	#12s	VENSTAR	0.03	0.39			0.36	ISO GRND RCPTS	#12s	20A1P	3		
39				0.03		1.78		1.75	COKE MACHINE RCPT	#12s	20A1P	4		
41	20A/1P	#12s	DATA CONC. RCPT	0.60			2.37	1.77	CRIMPER	#12s	20A/1P	4		
OTA	L PHASE A	(KVA)	TOTAL PHASE B (KVA)	TC	TAL PH	ASE C (F	(VA)	TOTA	AL CONNECTED (KVA)	1 7	OTAL AMP	s		
	22.17	-	29.96		22	.04		-	74,17		206			

	MAINS:	225A	WAIN LUGS ONLY	VC	LTAGE:	208		ACCE	SSORIES			
	TYPE:	SQUA	RE D, NQOD		PHASE:	3 Ph, 4	W	4 501	SIPMENT GROUND BAR			_
N	OUNTING:	SURF	ACE .		WIDTH:	20 INC	HES		LATED GROUND BAR			
	SCCR:	200K/	10K AIC	SP	ACE(S):	42			2. D'#QO1PA - WITH LO	CKABL	E CLIPS	
CKT	CKTBRK	WRE	LOAD DESCRIPTION	(KVA)	A(KVA)	B(KVA)	C(KVA)	(KVA)	LOAD DESCRIPTION	WIRE	CKT BRK	To
1	20A/1P	#12s	SECURITY	0.50	1.84			1.34	LIGHTING	#12s	20A1P	t
3	20A1P	#12s	LIGHTING/EX FAN	0.85		2.13		1.28	LIGHTING	#12s	20A/1P	t
5	20A1P	#12s	RECEPTACLES	0.36			0.36	T .	SPACE			T
7	20A/1P	#12s	ISO GRND RCPTS	0.36	1.08			0.72	ISO GRND RCPTS	#12s	20A/1P	T
9	20A1P	#12s	CHECK-IN RCPTS (I.G.	0.50		1.04		0.54	DAYLIGHTING	#12s	20A/1P	T
-11	20A1P	#12s	ISO GRND RCPTS	0.36			0.72	0.36	ISO GRND RCPTS	#12s	20A/1P	T
13	20A1P	#12s	ISO GRIMD ROPTS	0.36	0.72			0.36	ISO GRND RCPTS	#12s	20A/1P	ı
15	15.W1P	#125	PHONE EQUIP RCPTS	0.72		3.72		3.00	BATTERY BACKUP	#10s	30A/1P	Т
17			SPACE				0.36	0.36	RECEPTACLES	#128	20A1P	T
19	20A1P	#12s	BREAK AREA RCPTS	0.36	1.44			1.08	RECEPTACLES	#12s	20A/1P	T
21			SPACE			0.90		0.90	BREAK AREA RCPTS	#12s	20A/1P	T
23	20A1P	#128	LIGHTING	0.41			0.91	0.50	PRINTER ROPT	#12s	20A/1P	k
25	20A/1P	#12s	LIGHTING	0.14	0.50			0.36	ISO GRND RCPTS	#12s	20A/1P	T
27	20A/1P	#12s	RECEPTACLES	1.00		1.00			SPACE			T
29			SPACE				0.36	0.36	ISO GRND RCPTS	#12s	20A/1P	T
31			SPACE		0.36			0.36	ISO GRND RCPTS	#12s	20A1P	T
33	*20A/1P	#128	LED BLDG SIGN	0.52		0.52			SPACE			T
35	20A/1P	#10s	SITE LIGHTING	0.16			0.16		SPACE			Γ
37	20A1P	#10s	SITE LIGHTING	0.16	0.16				SPACE			Z
39	20A/1P	#10s	BATTERY RACK ROPT	0.18		0.70		0.52	WEST LED BLDG SIGN	#12s	*204	Ø
41	20A/1P	#10s	BATTERY RACK RCPT	0.18			0.70	0.52	LED BLDG SIGN	#12s	0A/1P	
TOTA	L PHASE A	(KVA)	TOTAL PHASE B (KVA)	TOTAL	PHASE	C (KVA)		TOTAL	CONNECTED (KVA) _		TOTAL AMP	s
	(6.10		10.01		3.57			19.68		-	55)	_

	ELECTRIC SERVICE RESPONSIBILITIES SEE SITE PLAN FOR UTILITY COMPANY CONTACT.																	~~	<i>III</i> III. 1		
SE						EQUIPMENT	LA	BEL	S	CHA	NRT									<u> </u>	
ITE	M DESCRIPTION (IF APPLICABLE)		HED BY		LED BY	SEE ELECTRICAL SERVI	CE DIA	GRAM.								annun j		DOT-HATO THAT ARE STANDBY	OH REPORT	TS C WITH	ARCUITS 1 OPTION
NO). ·	UTILITY CO. CONTRACTO		UTILITY CO.	CONTRACTOR		LABELS (Jens)					7 /			٠ `	SIANDBY GENERATOR			R SONT	CONTROL.	
1/1	SERVICE LATERAL	1.	- x		X		t-:		T	or li	1	ا		<i>g</i>	die	<u></u>					
1/2	SERVICE LATERAL RACEWAY		Х		X	EQUIPMENT	ACE (NEC	SE SE	228	NE	ABLE ENT	-	E 🏻	TR	ANS	E F	≀ Šv	VITCH	SCH	-IEDL	JLE
/3	METER BASE	х			х		80	P V	A SE	声员	SES.	1						1			
4	METER	X		Х			SIG	e P. N	-	병합	₹ 0	POS	ITION	RCUIT	AKE	R MA	JOA1	DESCRIPT	TION	(KV)	A) BREAK
Z 5	CT CABINET		X		Х	DISCONNECT	Х	·x	х				A	15A/		100	Ø cri	COMPU		3255	6 PLP-
76	OH SERVICE RISER & BUILDING					MP			X			11_	В	5A)		Ø	COUNT	ER RECEPT	ACLES		6 PLP~
7	TRANSFORMER POLE	l		İ		PLP			X	_	A PHILIP	11_	C	10 0	/1P			PRINTER		25553	O PLP-
14	OLDINOL DIOLO & DOLL		 		-		-		 ``	- 6		1_	D 💮	-2%				ROOM LIS		70,000	O PLP-
<u> </u>	SERVICE RISER @ POLE	ļ				<u> </u>					<i>Bunnalli</i>	dun.	E 🎇	15A/	1770	TELE	PHONE I	OUPMENT	RECEPTAC	0.3	6 PLP-
<u> </u>	TRANSFORMER PAD	×		×		GENERATOR POWER INLET		1		_ x *			F	15A/	1P			SPARE		0	_
16	PAD MOUNT TRANSFORMER	X		X		CT CABINET		m.I	7	/////	8.		ONTRAC	OR SHA	LL WIRE	LIGHT	ING CIRC	CUITS TO 2	.0 A	2.0	B TOTA



GENERATOR POWER INLET LABEL

PERMANENT LABEL SHALL BE 2×3 in Size and Shall Be BLUE LETTERING ON A CONTRASTING BACKGROUND. LABEL TO BE PLACED 6 INCHES ABOVE GENERATOR RECEPTACLE.

WARNING:

FOR CONNECTION OF A NONSEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY

EXAMPLE OF LABELING ABOVE.

OPTIONAL STANDBY SOURCE LABEL

PERMANENT LABEL SHALL BE 2 x 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. LABEL TO BE PLACED ON DISCONNECT DOOR.

TWO SOURCES OF SUPPLY

EXAMPLE OF OPTIONAL STANDBY SOURCE BELING ABOVE.

SERVICE DISCONNECT LABEL

ATING LABELS REQUIRED

RATED 200K/10K AMPERES. DENTIFIED REPLACEMENT COMPONENTS REQUIRED.

Series Ratings

NQ Panelboards

Class 1640

SOUARE D www.us.schneider-electric.com FOR CURRENT INFORMATION

This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the same enclosure or a remote main located in a separate enclosure.

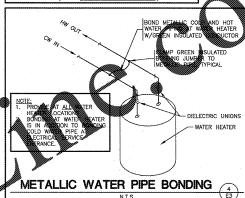
NQ Series Connected Circuit Breaker Ratings (RMS Symmetrical)

	Max.	Square D Brand	Square D Brand Branch Circuit Breaker Catalog Designation and Allowable Ampere Ranges ◆★▼								
Max. System Voltage ACA®	Short Circuit Current Rating	Integral or Remote Main Circuit Breakers and Remote Main Fuses	Туре	1 Pole	2 Pole	3 Pole					
		400 A Max.	QO (B) VH	15-30 A	15-125 A	15-100 A					
	65,000	Class J or T6	QOB-VH	T	150 A	-					
		Fuses	QO (B) AFI	15-20 A							
240	100,000	200 A Max. Class T3 Fuses	QO (B) AFI	15-20 A	_	_					
		200 A Max.	QO (B)	15-70 A	15-125 A	15-100 A					
	200,000	Class J or T6 Fuses and	QO (B) AS	15-30 A	15-30 A	15-30 A					
	200,000	400 A Max. Class T3 Fuses	QO (B) GFI	15-30 A	15-60 A						

- For shown circuit breakers rated less than this maximum voltage, the indicated short circuit current raffing also applies, but at the voltage raffing of the circuit breaker. Short circuit tests are conducted at 100–105% of the maximum rated voltage of the
- Suffixes HID, SWD, and SWN may also be applied to the applicable branch circuit breakers shown above. Suffix SWN may not be applied in combination with LC main breakers.
- Where QO (B) circuit breakers are shown above, QO (B) H, QO (B) VH, and QH (B) circuit breakers may also be used.
- Where QO (B) GFI circuit breakers are shown above, QO (B) EPD circuit breakers may also be used.

WIRING & LABELING OF EXIT & EMERGENCY LIGHT CIRCUITS

ALL EXIT & EMERGENCY LIGHTING CIRCUITS SHALL BE LABELED BY THE CONTRACTOR ON THE "PANEL DIRECTORY". (SPEC: NEPA 70 408.4 & 700.12.)



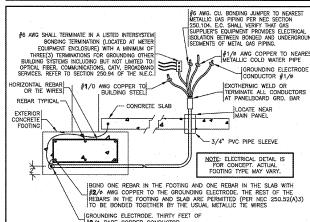
BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER ENCLOSURE) TO GROUNDING ELECTIFODE AS REQUIRED, PER NEC 250-92.

THE GROUNDED NEUTRAL CONDUCTOR SHALL BE RUN TO AND BONDED TO EACH SERVICE DISCONNECTING MEANS ENCLOSURE IN ACCORDANCE WITH NEC 250-24c.

BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH NEC 250-96.

SERVICE EQUIPMENT GROUNDING & BONDING SHALL BE IN ACCORDANCE WITH: *NEC 250~28 *NEC 250~53 *NEC 250~66 *NEC 250~90 *NEC 250~92 *NEC 250~130

BONDING REQUIREMENTS



NOTE: GROUNDING ELECTRODE TEST
MEASURE AND RECORD GROUND RESISTANCE FROM SYSTEM NEUTRAL CONNECTION AT SERVICE
ENTRANCE TO CONVENIENT GROUND REFERENCE POINT USING SUITABLE GROUND TESTING FOUIPMENT
MAXIMUM ACCEPTABLE RESISTANCE: 10 OHMS. WHEN RESISTANCE EXCEEDS 10 OHMS; DRIVE AND
BOND (#6 COPPER MINIMUM) ANOTHER GROUND ROD, ONE GROUND ROD LENGTH AWAY (MINIMUM
6'-D') AND REPEAT TEST.

GROUNDING ELECTRODE (UFER TYPE) & BONDING JUMPER(S) DETAIL

NEUTRAL TERMINAL BLOCK ISOLATED GROUND PANEL NCH PANEL SHOWN, SERVICE PANEL SIMILAR Q=Ø 0 EQUIPMENT GROUND BAR INSULATED EQUIPMENT GROUND BAR-INSULATED EQUIPMENT GROUNDING CONDUCTOR TO FEEDING PANEL'S EQUIPMENT GROUND BAR

TYPICAL ISOLATED GROUND RECEPTACLE

A. Schneiber, P. Architet

CRAIG

PROJECT:
NEW O'REILLY AUTO PARTS STORE
SLIDING HILL PLACE

AUTO PARTS

Œ 3993 DATE 2-24-17 REVISION 8-16-17

11-3-17

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