

ALL PANELBOARDS, TRANSFORMERS, TRANSFER SWITCH KIT AND DISCONNECTS WILL BE SUPPLIED BY THE OWNER (O'REILLY). ELECTRICAL GEAR SHALL BE DIRECT ORDERED AND/OR RELEASED FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR. SEE 'ELECTRIC SERVICE RESPONSIBILITIES' FOR ADDITIONAL CLARIFICATION:

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

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

MP PANELBOARD SCHEDULE															
MAINS: 400A MAIN LUGS ONLY				VOLTAGE: 208				ACCESSORIES:							
TYPE: SQUARE D, NQ				PHASE: 3Ø, 4W				1. EQUIPMENT GROUND BAR 2. ISOLATED GROUND BAR 3. * "SQ. D" #001PA - WITH LOCKABLE CLIPS 4. * MUST BE TYPE "HACR" BREAKER 5. FEED THRU LUGS							
MOUNTING SURFACE				WIDTH: 20											
SCCR: 22K AIC				SPACE(S): 42											
CKT	CKT BRK	WIRE	LOAD DESCRIPTION	(KVA)	(KVA)	(KVA)	(KVA)	LOAD DESCRIPTION	WIRE	CKT BRK	CKT	CKT	CKT		
1	20A/1P	#12s	LIGHTING/EXHAUST FAN	0.51	6.94		6.43	RTU-1	#4s	+70A/3P	2	1	20A/1P		
3	20A/1P	#12s	LIGHTING	1.07		7.50	6.43	7.5 TONS			4	3	20A/1P		
5	20A/1P	#12s	LIGHTING	1.34		7.77	6.43	(7.80 KW)			6	5	20A/1P		
7	20A/1P	#12s	LIGHTING	1.24		7.67	6.43	RTU-1			8	7	20A/1P		
9	20A/1P	#12s	LIGHTING	1.12		7.55	6.43	7.5 TONS			10	9	20A/1P		
11	20A/1P	#12s	LIGHTING	0.77		7.20	6.43	(7.80 KW)			12	11	20A/1P		
13	20A/1P	#12s	LIGHTING	0.81		5.32	4.51	RTU-1			14	13	20A/1P		
15			SPACE	0		4.51	4.51	5 TONS			16	15	20A/1P		
17			SPACE	0		4.51	4.51	(4.9 KW)			18	17	20A/1P		
19			SPACE	0		4.51	4.51				20	19	20A/1P		
21			SPACE	0		4.51	4.51	RTU-1			22	21	20A/1P		
23	20A/1P	#12s	BUILDING LIGHTING	0.28		4.79	4.51	5 TONS			24	23	20A/1P		
25	20A/1P	#12s	SITE LIGHTING	0.15	0.15		0	(4.9 KW)			26	25	20A/1P		
27	20A/1P	#12s	SITE LIGHTING	0.30	0.30		0				28	27	20A/1P		
29	20A/1P	#12s	SITE SIGN	1.30		1.30	0				30	29	20A/1P		
31	20A/1P	#12s	SITE SIGN	1.30	1.30		0				32	31	20A/1P		
33	*20A/1P	#12s	LED SIGN BUILDING	1.20		1.20	0				34	33	*20A/1P		
35			SPACE	0.03		0.03	0				36	35	20A/1P		
37	20A/3P	#12s	GRIPPOINT EC-1000	0.03	0.03		0				38	37	20A/1P		
39			SPACE	0.03		0.03	0				40	39	20A/1P		
41	20A/1P	#12s	XFMR J-BOX	0.60		1.20	0.60				42	41	20A/1P		
TOTAL PHASE A (KVA)				TOTAL PHASE B (KVA)				TOTAL PHASE C (KVA)				TOTAL CONNECTED LOAD (KVA)		TOTAL AMPS	
25.92				25.60				26.80				78.32		217.40	
LIGHTING: 6.66				EXTERIOR LIGHTING: 4.53				TOTAL LIGHTING: 11.39				HVAC: 65.64		RECEPTACLES: 13.07	
												MISCELLANEOUS: 14.40		WATER HEATER: 1.65	
														TOTAL CONNECT AMPS = 298.23	

PLP PANELBOARD SCHEDULE															
MAINS: 400A MAIN LUGS ONLY				VOLTAGE: 208				ACCESSORIES:							
TYPE: SQUARE D, NQ				PHASE: 3Ø, 4W				1. EQUIPMENT GROUND BAR 2. ISOLATED GROUND BAR 3. * "SQ. D" #001PA - WITH LOCKABLE CLIPS 4. * MUST BE TYPE "HACR" BREAKER 5. * "SQ. D" #001PA - WITH LOCKABLE CLIPS							
MOUNTING SURFACE				WIDTH: 20											
SCCR: 22K AIC				SPACE(S): 42											
1	20A/1P	#10s	LATHE	1.70	2.20		0.50	CHECK IN RECEPT. (I.G.)	#12s	20A/1P	2	1	20A/1P		
3	20A/1P	#10s	CUTOFF SAW	1.73		1.91	0.18	BATTERY RACK RECEPT.	#10s	20A/1P	4	3	20A/1P		
5	20A/1P	#12s	CRIMPER	1.77		1.95	0.18	BATTERY RACK RECEPT.	#10s	20A/1P	6	5	20A/1P		
7	20A/1P	#12s	RECEPTACLES	0.54	0.90		0.36	BREAK AREA RECEPTS.	#12s	20A/1P	8	7	20A/1P		
9	20A/1P	#10s	STARTER/ALT. TESTER	1.68		1.68	0	SPACE			10	9	20A/1P		
11	20A/1P	#10s	STARTER/ALT. TESTER	1.68		2.40	0.72	RTU RECEPTACLES	#12s	20A/1P	12	11	20A/1P		
13	20A/1P	#10s	STARTER/ALT. TESTER	1.64	2.00		0.36	RECEPTACLES	#12s	20A/1P	14	13	20A/1P		
15	20A/1P	#12s	RECEPTACLES	0.36		2.11	1.75	COKE MACHINE (ONLY)	#12s	**20A/1P	16	15	20A/1P		
17	20A/1P	#12s	ISOLATED GRD. RECEPTS.	0.36		1.08	0.72	ISOLATED GRD. RECEPTS.	#12s	20A/1P	18	17	20A/1P		
19	20A/1P	#12s	RECEPTACLES	0.18	0.90		0.72	ISOLATED GRD. RECEPTS.	#12s	20A/1P	20	19	20A/1P		
21	30A/1P	#10s	BATTERY BACKUP (I.G.)	3.00		3.36	0.36	ISOLATED GRD. RECEPTS.	#12s	20A/1P	22	21	30A/1P		
23	**20A/1P	#12s	WATER COOLER RECEPT.	0.90		1.62	0.72	ISOLATED GRD. RECEPTS.	#12s	20A/1P	24	23	**20A/1P		
25	20A/1P	#12s	RECEPTS./IRRIGATION	1.00	1.36		0.36	ISOLATED GRD. RECEPTS.	#12s	20A/1P	26	25	20A/1P		
27	20A/1P	#12s	SECURITY	0.50		0.50	0	SPACE			28	27	20A/1P		
29			SPACE	0		0.00	0	SPACE			30	29	20A/1P		
31			SPACE	0		0.00	0	SPACE			32	31	20A/1P		
33	**20A/1P	#12s	TANK WATER HEATER	1.65		2.01	0.36	ISOLATED GRD. RECEPTS.	#12s	20A/1P	34	33	**20A/1P		
35	20A/1P	#12s	ISOLATED GRD. RECEPTS.	0.36		0.72	0.36	ISOLATED GRD. RECEPTS.	#12s	20A/1P	36	35	20A/1P		
37	20A/1P	#12s	FIRE ALARM (IF REQ'D)	0.30	0.80		0.50	PRINTER RECEPTACLE	#12s	20A/1P	38	37	20A/1P		
39			SPACE	0		0.72	0.72	PHONE EQUIP. RECEPTS.	#12s	15A/1P	40	39	20A/1P		
41			SPACE	0		0.90	0.90	RECEPTACLES	#12s	20A/1P	42	41	20A/1P		
TOTAL PHASE A (KVA)				TOTAL PHASE B (KVA)				TOTAL PHASE C (KVA)				TOTAL CONNECTED LOAD (KVA)		TOTAL AMPS	
8.16				12.29				8.67				29.12		80.83	
												WATER HEATER: 1.65		TOTAL CONNECT AMPS = 298.23	

E TRANSFER SWITCH SCHEDULE				
POSITION	CIRCUIT BREAKER	LOAD DESCRIPTION	(KVA)	BREAKER
A	20A/1P	OFFICE COMPUTER	0.36	PLP-36
B	20A/1P	COUNTER RECEPTACLES	0.36	PLP-34
C	20A/1P	PRINTER	0.50	PLP-38
D	20A/1P	TELEPHONE EQUIPMENT RECEPTACLE	0.72	PLP-40
E	20A/1P	LIGHTING OFFICE/BATHROOMS (100% ON)	0.53	MP-1
F	20A/1P	LIGHTING SECURITY (100% ON)	0.81	MP-13
G	20A/1P	LIGHTING HARD PARTS (DIMMED TO 40% ON)	0.43	MP-3
H	20A/1P	LIGHTING HARD PARTS (DIMMED TO 40% ON)	0.54	MP-5
I	20A/1P	INSTALLER (ISOLATED GRD. RECEPTACLE)	0.36	PLP-17
J	20A/1P	INSTALLER (RECEPTACLE)	0.18	PLP-19
GENERATOR (6,000 WATTS) RATED. MAX KVA=5.0 LOAD			4.79	TOTAL

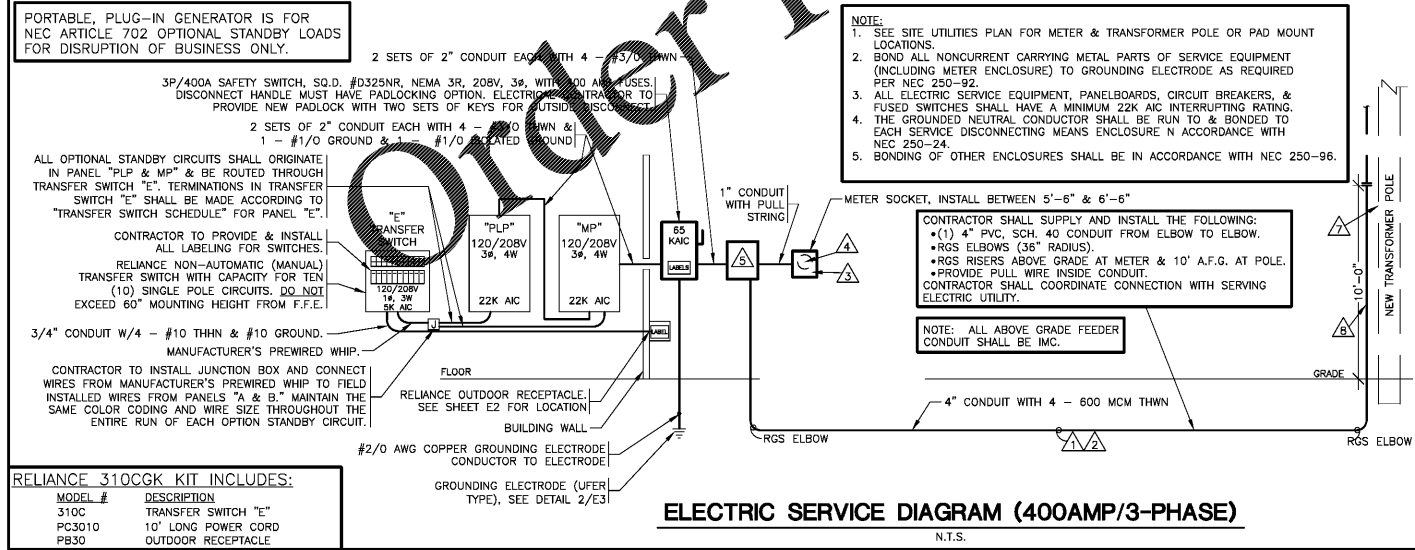
NOTE:
ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE CIRCUIT CONDUCTORS. THIS MEANS ALL CONDUITS MUST HAVE A GREEN WIRE INSTALLED IN THEM AND SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE N.E.C.

DOT-HATCH REPRESENTS CIRCUITS THAT ARE ASSOCIATED WITH OPTIONAL STANDBY GENERATOR CONTROL.

WIRING & LABELING OF EXIT & EMERGENCY LIGHT CIRCUITS

- SEE DETAIL 1/E1 FOR WIRING OF EXIT & EMERGENCY LIGHTS ON THESE CIRCUITS.
- ALL EXIT & EMERGENCY LIGHTING CIRCUITS SHALL BE LABELED BY THE CONTRACTOR ON THE "PANEL DIRECTORY", (SPEC. NEFA 70.408.4 & 700.12).

ELECTRIC SERVICE RESPONSIBILITIES				
SEE SITE PLAN FOR UTILITY COMPANY CONTACT.				
ITEM NO.	DESCRIPTION (IF APPLICABLE)	UTILITY CO.	FURNISHED BY	INSTALLED BY
▲	SERVICE LATERAL		X	X
▲	SERVICE LATERAL RACEWAY		X	X
▲	METER BASE		X	X
▲	METER	X		X
▲	CT CABINET		X	X
▲	OH SERVICE RISER @ BUILDING			
▲	TRANSFORMER POLE	X		X
▲	SERVICE RISER @ POLE		X	X
▲	TRANSFORMER PAD			
▲	PAD MOUNT TRANSFORMER			



EQUIPMENT LABELS CHART					
SEE ELECTRICAL SERVICE DIAGRAM.					
EQUIPMENT	LABELS				
	SERVICE DISCONNECT	OPTIONAL STANDBY SOURCE	GENERATOR POWER INLET	SERIES RATING	AVAILABLE FAULT CURRENT
DISCONNECT	X	X			
GENERATOR POWER INLET			X		
MP					
PLP					
E					
CT CABINET					

GENERATOR POWER INLET LABEL

PERMANENT LABEL SHALL BE 2 x 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 (MAX. 6,000 WATT GENERATOR)

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.

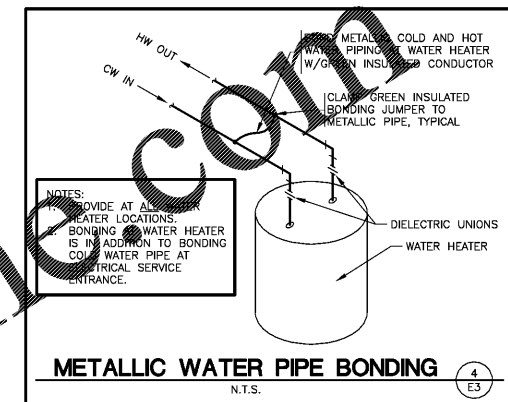
CAUTION
TWO SOURCES OF SUPPLY

STANDBY POWER SOURCE: PORTABLE GEN. GENERATOR
LOCATION: OVERHEAD DOOR

EXAMPLE OF OPTIONAL STANDBY SOURCE LABELING ABOVE.

SERVICE DISCONNECT LABEL

THE SERVICE DISCONNECTING MEANS SHALL BE PROPERLY MARKED "SERVICE DISCONNECT" REFER TO SECTION 26 00 20 FOR FURTHER IDENTIFICATION PLATE REQUIREMENTS.

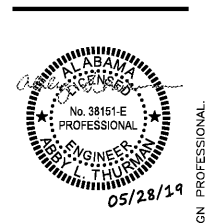
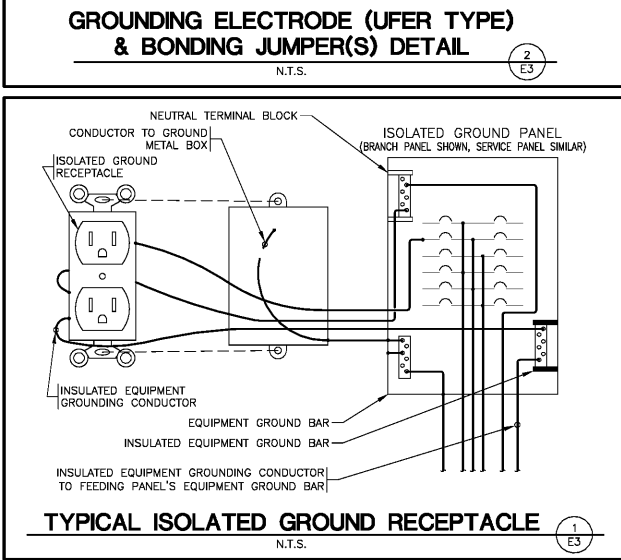
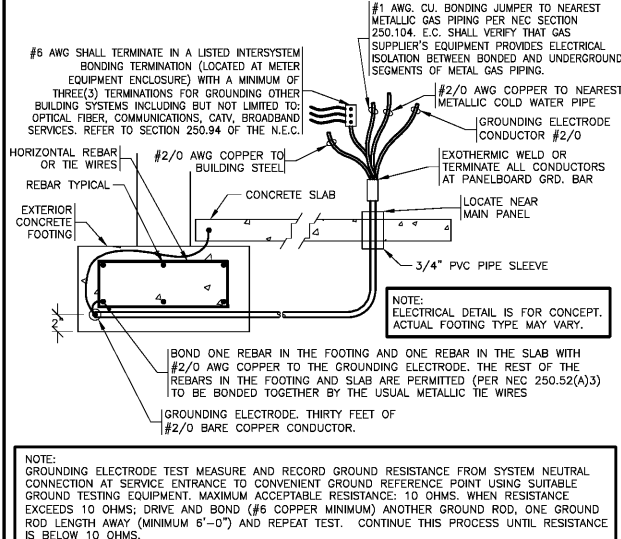


BONDING REQUIREMENTS

NOTE:
1. BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER ENCLOSURE) TO GROUNDING ELECTRODE AS REQUIRED. PER NEC 250-92.
2. THE GROUNDING NEUTRAL CONDUCTOR SHALL BE RUN TO AND BONDED TO EACH SERVICE DISCONNECTING MEANS ENCLOSURE IN ACCORDANCE WITH NEC 250-24.
3. BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH NEC 250-96.

SERVICE EQUIPMENT GROUNDING & BONDING SHALL BE IN ACCORDANCE WITH:
*NEC 250-24 *NEC 250-28 *NEC 250-53 *NEC 250-66 *NEC 250-90 *NEC 250-92 *NEC 250-130

N.T.S.

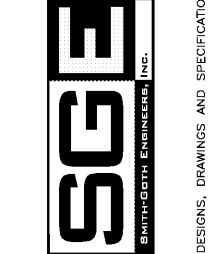


Reilly AUTO PARTS
CORPORATE OFFICES
233 SOUTH PATTERSON
SPRINGFIELD, MISSOURI 65802
(417) 862-2674 TELEPHONE

PROJECT: NEW O'REILLY AUTO PARTS STORE
U.S. HWY 84 & N. BROADWAY
ASHFORD, AL

ELECTRICAL SCHEDULES

3865 S. JEFFERSON AVE.
SPRINGFIELD, MO 65807
P: 417-882-2200
F: 417-882-1188
WWW.BNTHOTO.COM



DRAWN BY: CEV
CHECKED BY: NEG
DATE: 04/02/19
REVISION: ADDENDUM 3 (05/28/19)
PROJECT NUMBER: AHF
SHEET NUMBER: E3

DESIGNS, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF THE DESIGN PROFESSIONAL. REPRODUCTION PROHIBITED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. COPYRIGHT 2018-2019