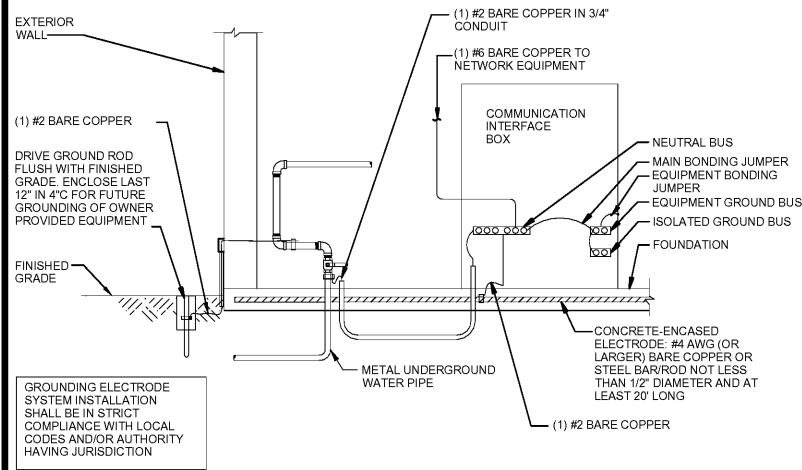
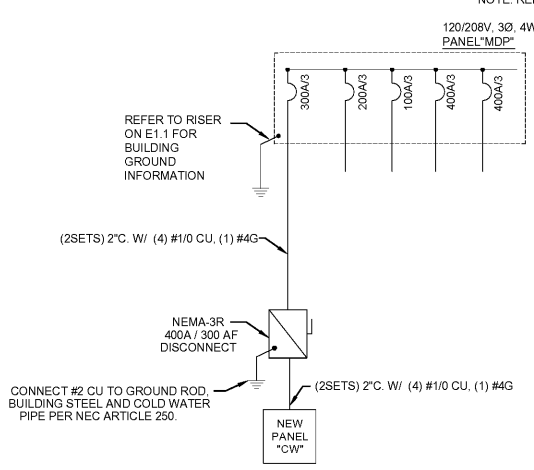


SEAL:

THIS DOCUMENT IS NOT
FOR REGULATORY
APPROVAL, PERMITTING,
OR CONSTRUCTION.



3 GROUNDING ELECTRODE SYSTEM
N.T.S



2 TYPICAL ONE-LINE DIAGRAM
N.T.S

- NOTE: REFER TO E1.1 FOR FULL DETAIL OF MDP
- ONE-LINE NOTES:
1. CLEARLY LABEL MAIN ELECTRICAL SERVICE DISCONNECT(S) PER NEC.
 2. PROVIDE ARC FLASH LABELING AS REQUIRED PER NEC 110.16
 3. ALL WIRE SIZING BASED ON 75°C AMPACITY TABLE PER N.E.C. REFER TO ITEM 3.9 OF ELECTRICAL SPECIFICATIONS ON SHEET CW4.0 FOR CONDUCTOR SPECIFICATIONS. ALL TERMINALS SHALL BE RATED AT 75°C.
 4. ALL NEW PANELS ARE PROVIDED BY 7-ELEVEN, INSTALLED BY GC. ALL FEEDERS TO BE PROVIDED AND INSTALLED BY GC. WIRE LARGER THAN 6 AWG PROVIDED BY G.C.
 5. REFER TO E1.1 FOR FULL DETAIL OF MDP

UPDATED: 2/25/2019 2:40 pm
ISSUED FOR: APPROVAL

NEW PANEL CW

LOCATION: CARWASH UTILITY ROOM
VOLTAGE: 208Y/120V
TRIM: SURFACE

MAIN: 400A MLO
SYSTEM: 3Ø, 4W
BUS RATING: 400A

CONN. LOAD: 108.5 KVA
FEED: TOP
GROUND BUS: YES

CKT	LOAD SERVED	COND	PHASE	NEUT	GRD	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GRD	LOAD SERVED	CKT
7	1 PURCLEAN RECLAIM	1/2"	#12	#12	#12	20/3	M	2400									PURCLEAN R.O. SYSTEM	2
3	"		#12				M	2400									"	4
5	"		#12				M	2400									"	6
6	7 OFFBOARD CHEMICAL INJECTION PUMP	3/4"	#12	#12	#12	20/3	N	1200									PURCLEAN R.O. SYSTEM	6
9	"		#12				N	1200									"	8
13	9 ONBOARD HP PUMP	1-1/4"	#4	#4	#4	70/3	M	2200									SLIMLINE DRYER ELECTRICAL CONTROL BOX	10
15	"		#4				M	2200									"	12
17	"		#4				M	2200									"	14
19	13 ONBOARD HP PUMP CONTROL BOX	1/2"	#12	#12	#12	20/1	N	1800									5 HP AIR COMPRESSOR	16
21	15 WASH BAY LTS	1/2"	#12	#12	#12	20/1	L	1800									WASH BAY TERMINAL BOX	18
23	17 EXTERIOR WALL PACKS	1/2"	#12	#12	#12	20/1	L	1800									UNITEC C-START COIN BOX	20
25	19 EQUIPMENT ROOM RECEPITS	1/2"	#12	#12	#12	20/1	L	1800									WASH BAY TERMINAL BOX	22
27	21 (EQUIPMENT ROOM LTS	1/2"	#12	#12	#12	20/1	L	1800									"	24
29	23 LIGHTING CONTACTOR	1/2"	#12	#12	#12	20/1	L	1800									"	26
31	25 PURCLEAN RECLAIM CONTROL	1/2"	#12	#12	#12	20/1	N	1800									EF-1	28
33	27 SPARE					20/1		2004									SPACE	30
35	29 SPARE					20/1		2004									SPACE	32
37	31 SPARE					20/1		2004									SPACE	34
39	33 SPARE					20/1		2004									SPACE	36
41	35 SPARE					20/1		2004									SPACE	38
						20/1		2004									SPACE	40
						20/1		2004									SPACE	42

INTERRUPT RATING: SERIES R400 400A/38.5kV/157kA

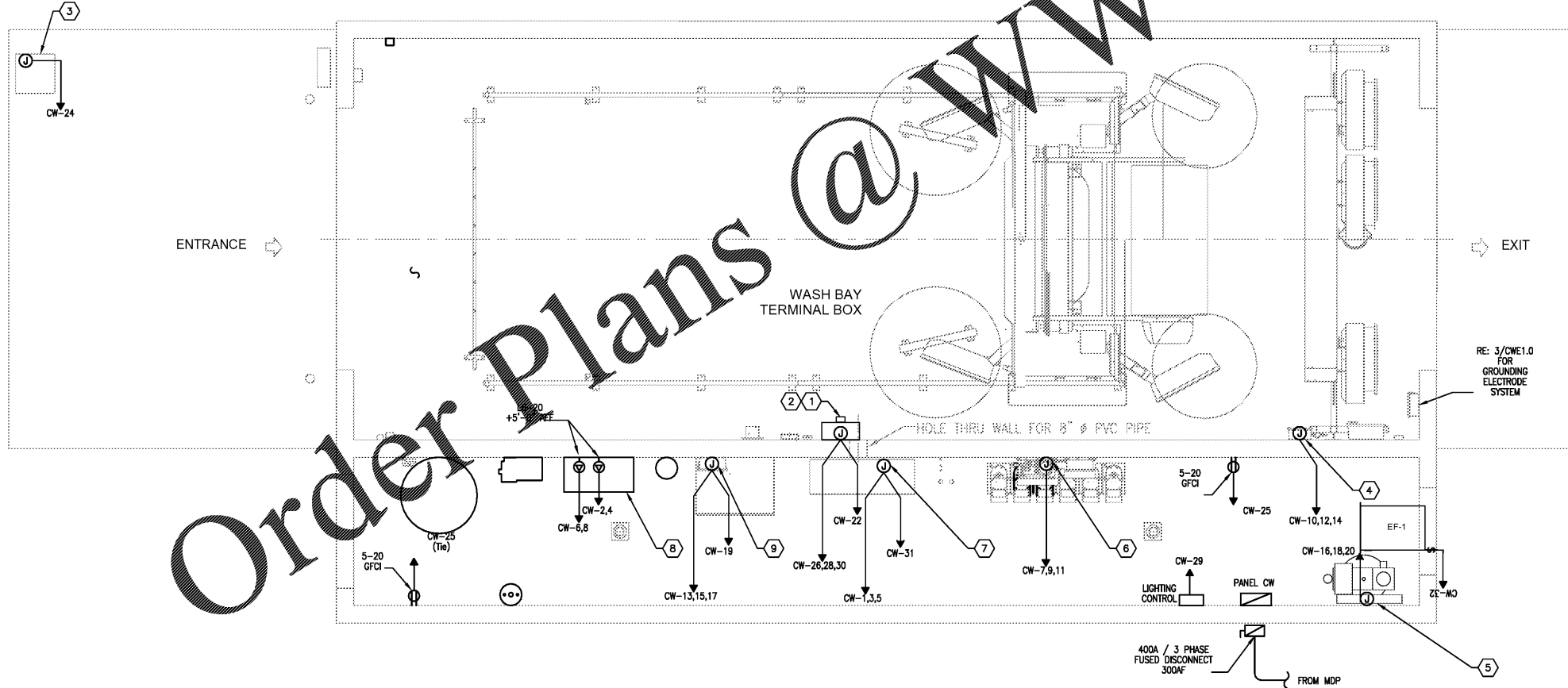
FROM: 400A DISC. SW.

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	REMAINING NON-CONTINUOUS LOADS	MISC. DEMAND LOADS	TOTAL CONNECTED LOAD	TOTAL DEMAND LOAD	OVERALL DEMAND FACTOR
LIGHTING	1110	1.25	1388	NON-SEQUENTIAL MOTORS	29976	1.0	29976	0	75064	0	108.5 KVA	107.1 KVA	1.01
RECEPITS TO 10 KVA	360	1.0	360	LARGEST MOTOR	1176	0.25	294	0	1.0	0	295.9 AMPS	297.5 AMPS	
RECEPITS REMAINING	0	0.5	0	WATER HEATING	0	1.0	0	0	0	0			
SPACE HEATING	0	0	0	KITCHEN EQUIP.	0	1.0	0	0	0	0			
AIR CONDITIONING	0	0	0										

Note 1. Feeder Size: SEE RISER DIAGRAM
Note 2. (L) INDICATES LOCKING DEVICE

CAR WASH EQUIPMENT SCHEDULE

REFERENCE NUMBER	ORIGIN	TERMINUS	VOLTS	PHASE	AMPS	NOTES
1	ELECTRICAL SERVICE	WASH BAY TERMINAL BOX	208	3	35	
2	ELECTRICAL SERVICE	WASH BAY TERMINAL BOX	115	1	15	
3	ELECTRICAL SERVICE	UNITEC C-START COIN BOX	115	1	8	CIRCUIT DEDICATED TO COIN BOX
4	ELECTRICAL SERVICE	SLIMLINE DRYER ELECTRICAL CONTROL BOX	208	3	110	
5	ELECTRICAL SERVICE	5 HP AIR COMPRESSOR	208	3	20	
6	ELECTRICAL SERVICE	OFFBOARD CHEMICAL INJECTION PUMP	208	3	10	(J-BOX BY OTHERS)
7	ELECTRICAL SERVICE	PURCLEAN RECLAIM	208	3	20	(5 FT FROM THE FLOOR, RIGHT SIDE OF RECLAIM SYSTEM)
8	ELECTRICAL SERVICE	PURCLEAN R.O. SYSTEM	120	1	20	(2) 20 AMP, 220 VAC, SINGLE PHASE CIRCUITS WITH LG-20 LOCKING RECEPTACLE(5 FT FROM THE FLOOR, RIGHT SIDE OF R.O. SYSTEM)
9	ELECTRICAL SERVICE	ONBOARD HP PUMP CONTROL BOX	208	3	60	
10	ELECTRICAL SERVICE	ONBOARD HP PUMP CONTROL BOX	120	1	15	W/GROUNDING AMP, 120V SINGLE PHASE

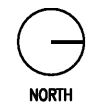


- GENERAL NOTES
1. A LOCAL ENGINEER MUST APPROVE ALL CONSTRUCTION DRAWINGS TO VERIFY THEY MEET LOCAL, STATE, AND NATIONAL CODES.
 2. ALL ELECTRICAL FITTINGS TO BE WATERTIGHT. ANY FIXTURES IN VICINITY OF WASH UNIT TO BE WATERTIGHT INCLUDING LIGHTS
 3. DRILL A 1/4" DIAMETER DRAIN HOLE IN THE BOTTOM OF ALL JUNCTION BOXES THAT ARE LOCATED IN THE WASH BAY.
 4. ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CUSTOMER UNLESS OTHERWISE SPECIFIED.
 5. CONSULT YOUR LOCAL RYKO REPRESENTATIVE FOR DIMENSIONS OTHER THAN SHOWN.
 6. TERMINATE ALL PIPES WITH FEMALE PIPE THREADS UNLESS OTHERWISE NOTED.
 7. ALL DIMENSIONS TO BE CLEAR SPACE DIMENSIONS.
 8. DO NOT USE WIRE LARGER OR SMALLER THAN SPECIFIED.
 9. ALL WIRES #16 AWG AND SMALLER ARE TO BE TFFN STRANDED.
 10. ALL WIRES #14 AWG AND LARGER ARE TO BE THHN STRANDED.
 11. NO CONDUITS MAY ENTER THE TOP OF ANY ENCLOSURE.
 12. PURCHASER SHOULD CONSULT WITH A PROPERLY CERTIFIED ENGINEER, CONTRACTOR, OR ARCHITECT WITH RESPECT TO COMPLIANCE WITH LOCAL SAFETY AND BUILDING CODES, 12.
 13. BUILDING DETAILS ARE FOR ILLUSTRATION, AND ARE NOT INTENDED FOR CONSTRUCTION, FOR NECESSARY PERMITS AND LICENSES, AND FOR APPROPRIATE CONNECTIONS OF ALL UTILITIES.

SYMBOL LEGEND

- ▽ TELEPHONE/DATA OUTLET
- ⊕ JUNCTION BOX
- ⊙ 125 V RECEPTACLE, DUPLEX
- ⊙ 125 V RECEPTACLE, CEILING MOUNT DUPLEX
- ⊙ 125 V RECEPTACLE, SIMPLEX
- ⊙ 125 V RECEPTACLE, DOUBLE DUPLEX
- ⊙ SPECIAL RECEPTACLE (SEE NEMA CONFIG)
- ⊓ FUSED DISCONNECT
- ⊓ NON-FUSED DISCONNECT
- ⊓ WALL SWITCH
- ⊓ MOTOR RATED SWITCH
- ⊓ PANEL BOARD (NOTE: NOT ALL SYMBOLS ARE USED)

1 ELECTRICAL POWER PLAN
3/8" = 1'-0"



1 03.18.19 PEER COMMENTS

NO.	DATE	REMARKS



BID SET
JUNE 27, 2019

7-ELEVEN
STORE #38777

12060 US 301 N
PARRISH, FL
34219

PROJECT NO: 2018.0891
DATE: FEBRUARY 26, 2019

CWE1.0
CAR WASH POWER PLAN

CHECKED: BKJ DRAWN: MM

Order Plans @ WWW.LDLINE.COM