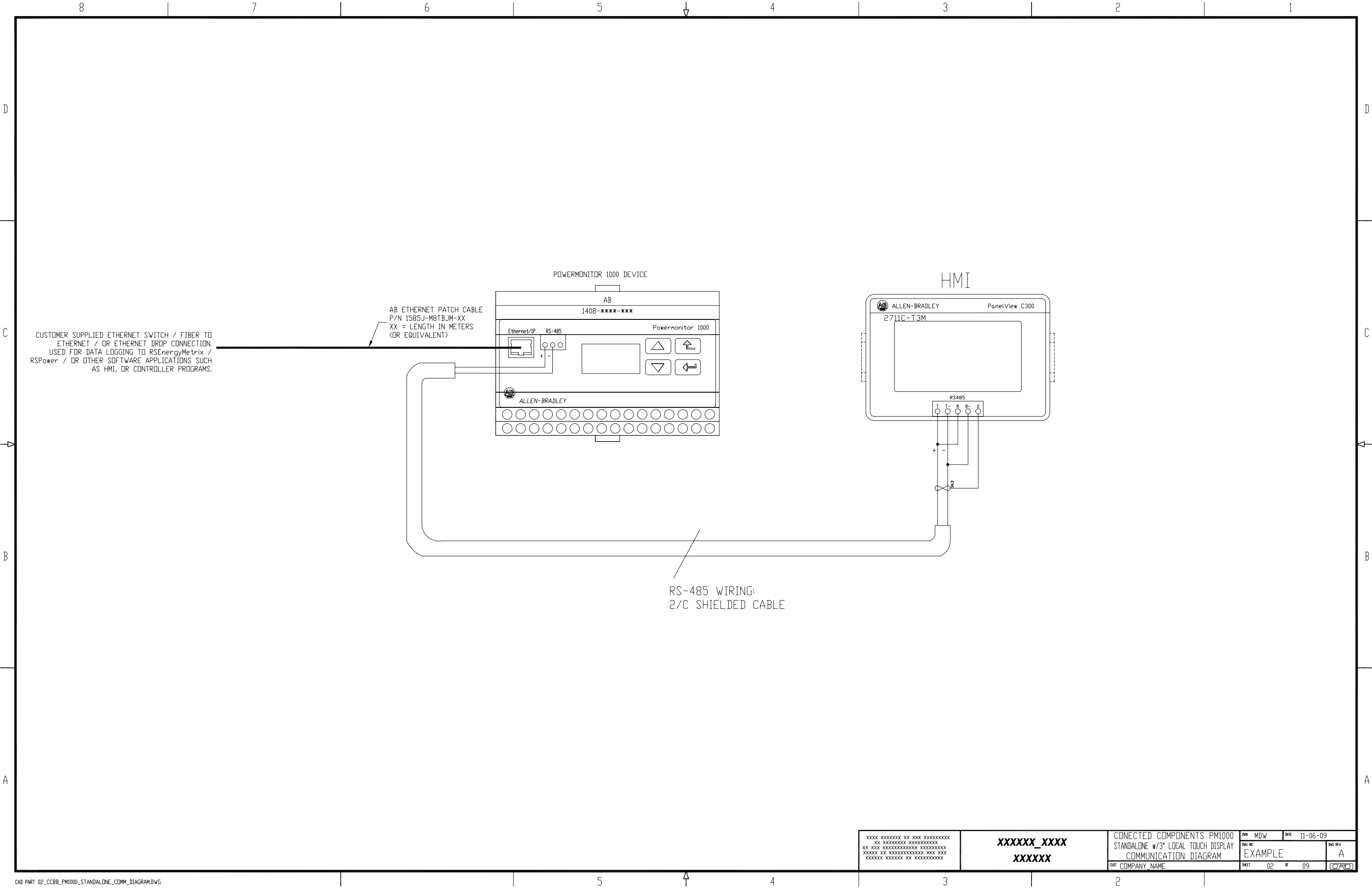
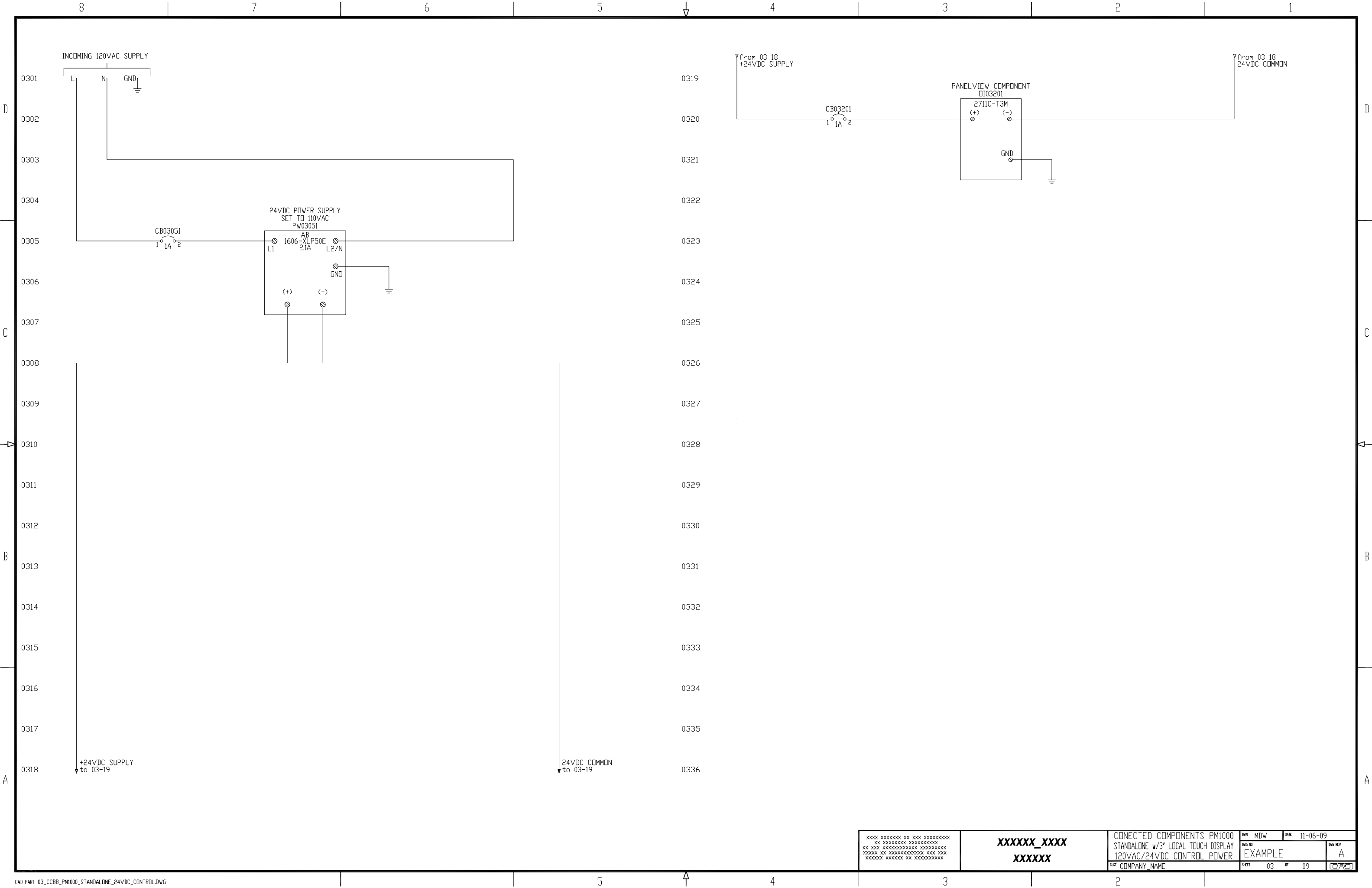


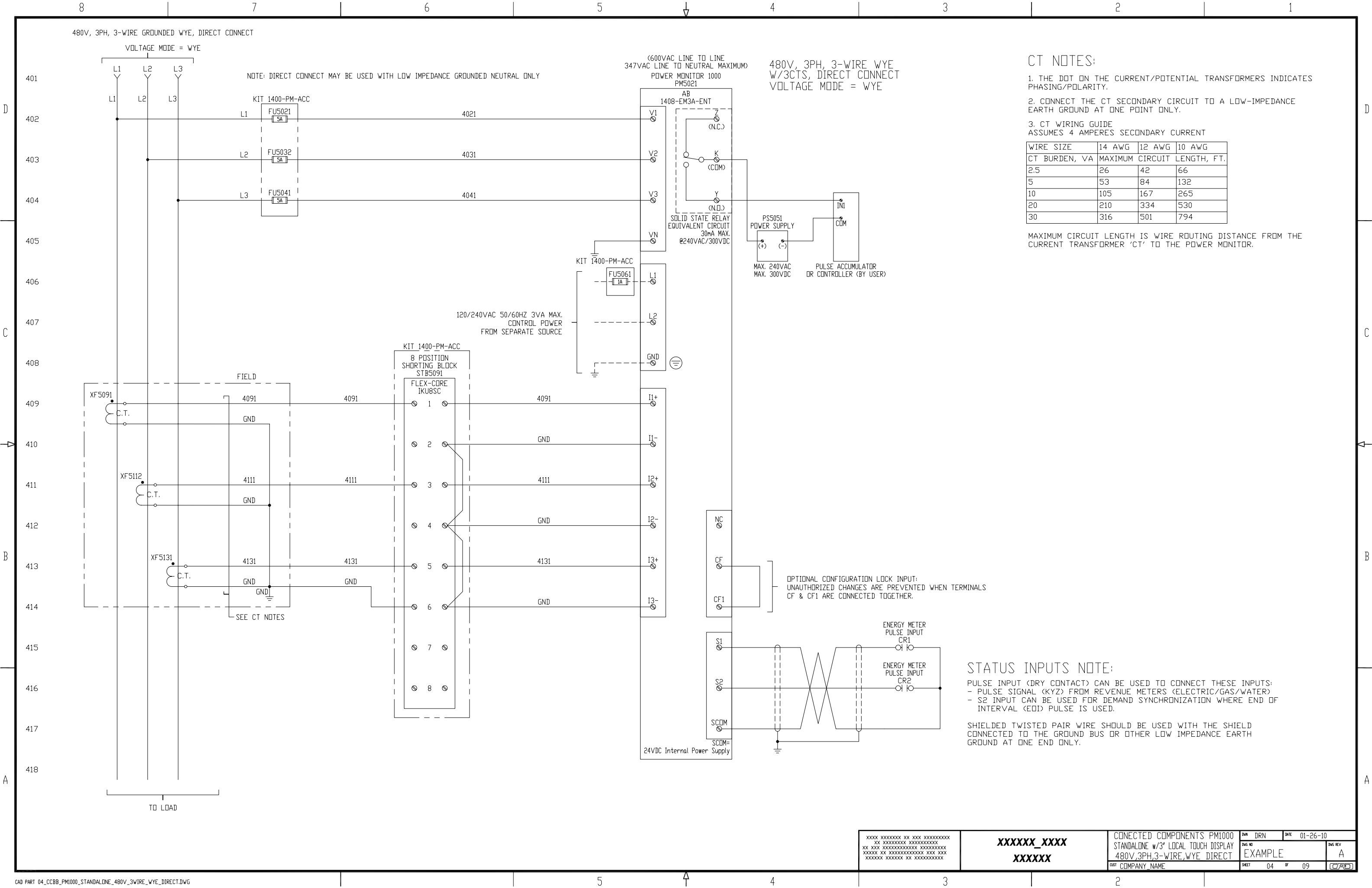
ITEM	QTY	DESCRIPTION	MFG	CATALOG
01	1	CONCEPT WALL-MOUNT ENCLOSURE	HOFFMAN	CSD20248
02	1	24" X 20" SUBPAN	HOFFMAN	CP2420
03	A/R	1X4 GRAY SLOT WIRE DUCT	PANDUIT	F1X4LG6
04	1	PANEL GROUND LUG #8AWG	ILSCO	TA-2
05	A/R	RAIL, DIN MTG, 25MM, 1M	AB	199-DR1
06	8	END ANCHOR	AB	1492-EAJ35
07	6	SCREW CONNECTION TERMINAL BLOCK; 1492-J	AB	1492-J4
08	1	END BARRIER; 1492-J	AB	1492-EBJ3
09	3	GROUP MARKER CARRIER	AB	1492-GM35
10	2	1AMP CIRCUIT BREAKER	AB	1492-SP1D010
11	1	PS, COMPACT, 50 W, 24-28V	AB	1606-XLP50E
12	1	ENERGY MONITOR EM3, 120/240VAC, SERIAL RS-485	AB	1408-EM3A-ENT
13	1	3" MONOCHROME TOUCHSCREEN	AB	2711C-T3M
14	1	GROUNDING BAR SYSTEM, 9 POS	SQUARE-D	PK9GTA
15	1	FUSE AND SHORTING BLOCK KIT	AB	1400-PM-ACC

ITEM	QTY	DESCRIPTION		
01	1	FUSE BLOCK, 3 POLE		
02	1	FUSE BLOCK, 1 POLE		
03	1	SHORTING BLOCK, 8 POLE		
04	1	FUSE, 1AMP, TIME DELAY, 600VAC		
05	3	FUSE, 10AMP, TIME DELAY, 600VAC		





XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX XX XXX XXXXXXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXXXX XXX XXX XXXXXX XXXXXXXX XX XXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS PM1000 STANDALONE w/3" LOCAL TOUCH DISPLAY 120VAC/24VDC CONTROL POWER		DWG NO	DWG REV
		CUST COMPANY NAME		EXAMPLE	A
		SHEET 03 OF 09		DATE 11-06-09	



CT NOTES:

- 1. THE DOT ON THE CURRENT/POTENTIAL TRANSFORMERS INDICATES PHASING/POLARITY.
- 2. CONNECT THE CT SECONDARY CIRCUIT TO A LOW-IMPEDANCE EARTH GROUND AT ONE POINT ONLY.
- 3. CT WIRING GUIDE ASSUMES 4 AMPERES SECONDARY CURRENT

WIRE SIZE	14 AWG	12 AWG	10 AWG
CT BURDEN, VA	MAXIMUM CIRCUIT LENGTH, FT.		
2.5	26	42	66
5	53	84	132
10	105	167	265
20	210	334	530
30	316	501	794

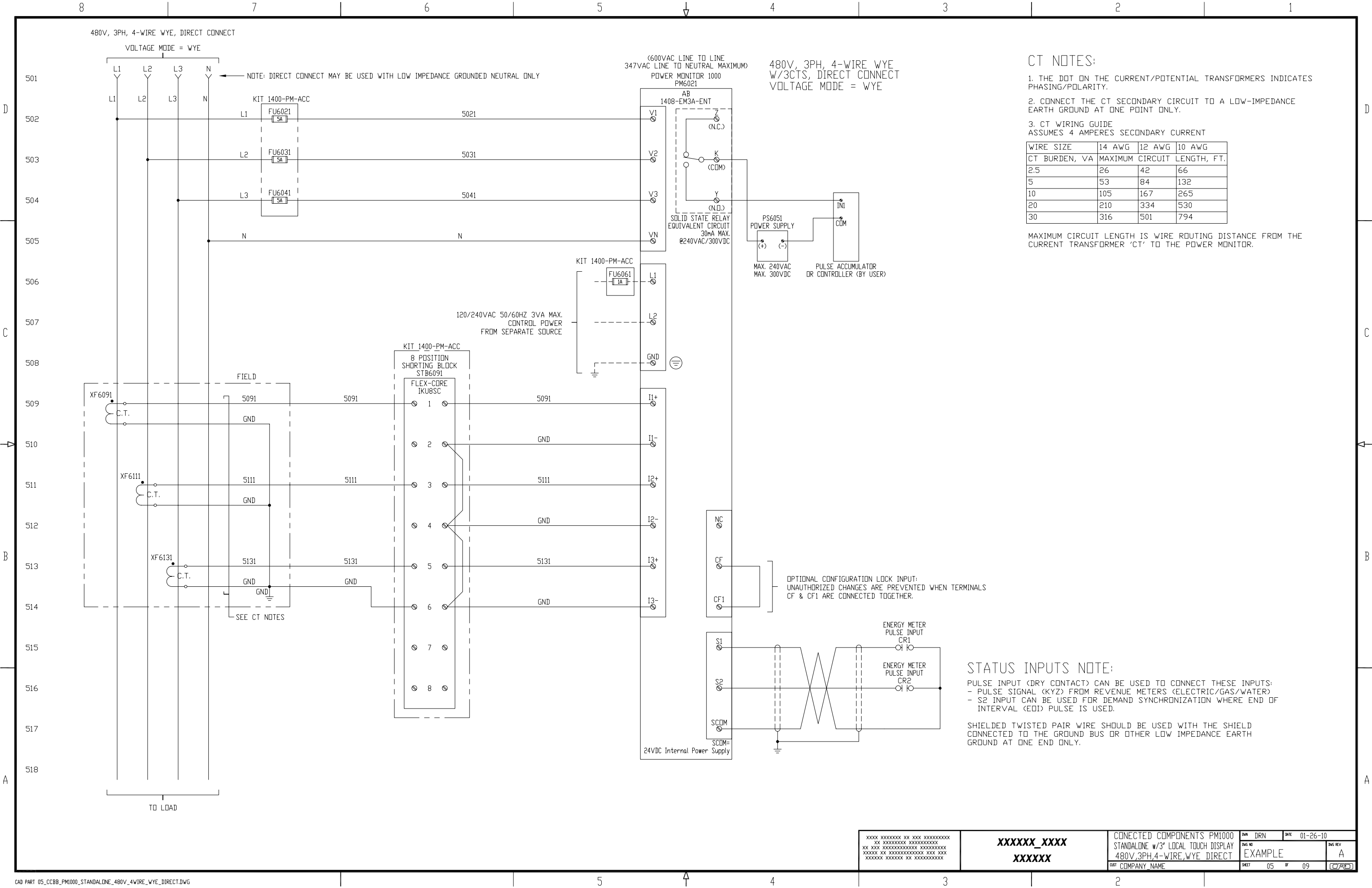
MAXIMUM CIRCUIT LENGTH IS WIRE ROUTING DISTANCE FROM THE CURRENT TRANSFORMER 'CT' TO THE POWER MONITOR.

OPTIONAL CONFIGURATION LOCK INPUT:  
UNAUTHORIZED CHANGES ARE PREVENTED WHEN TERMINALS CF & CF1 ARE CONNECTED TOGETHER.

STATUS INPUTS NOTE:

- PULSE INPUT (DRY CONTACT) CAN BE USED TO CONNECT THESE INPUTS:
- PULSE SIGNAL (KYZ) FROM REVENUE METERS (ELECTRIC/GAS/WATER)
- S2 INPUT CAN BE USED FOR DEMAND SYNCHRONIZATION WHERE END OF INTERVAL (EOI) PULSE IS USED.

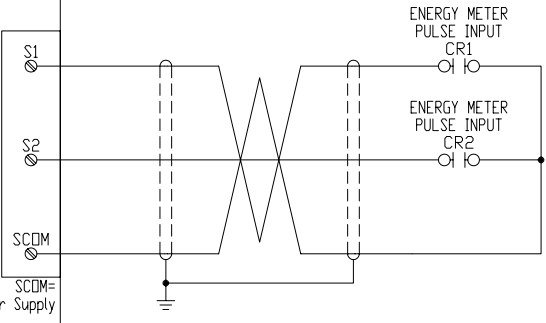
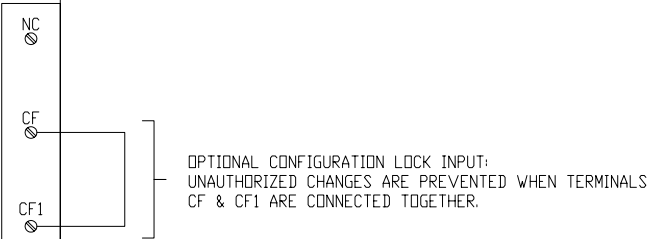
SHIELDED TWISTED PAIR WIRE SHOULD BE USED WITH THE SHIELD CONNECTED TO THE GROUND BUS OR OTHER LOW IMPEDANCE EARTH GROUND AT ONE END ONLY.



- CT NOTES:
- 1. THE DOT ON THE CURRENT/POTENTIAL TRANSFORMERS INDICATES PHASING/POLARITY.
  - 2. CONNECT THE CT SECONDARY CIRCUIT TO A LOW-IMPEDANCE EARTH GROUND AT ONE POINT ONLY.
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MAXIMUM CIRCUIT LENGTH IS WIRE ROUTING DISTANCE FROM THE CURRENT TRANSFORMER 'CT' TO THE POWER MONITOR.

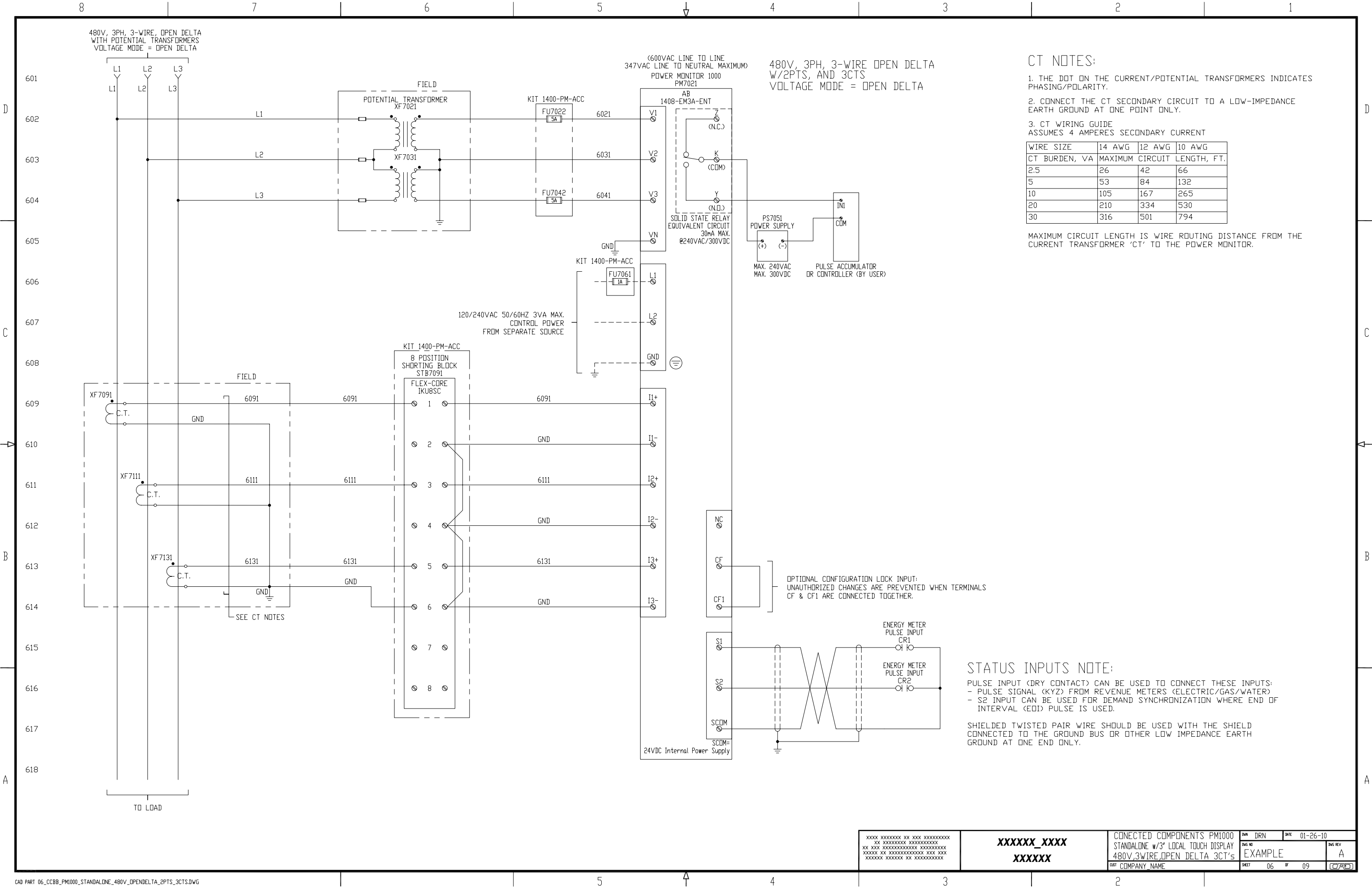


STATUS INPUTS NOTE:

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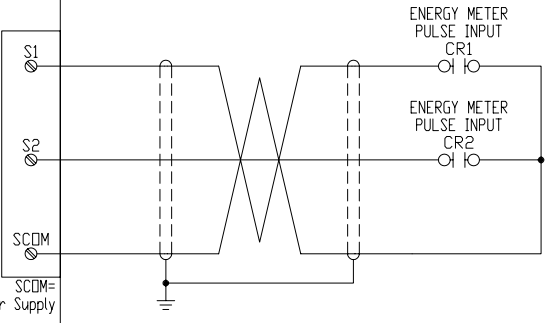
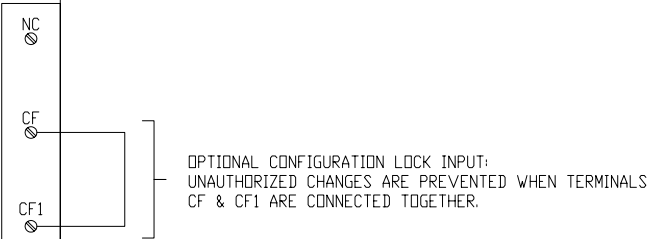
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MAXIMUM CIRCUIT LENGTH IS WIRE ROUTING DISTANCE FROM THE CURRENT TRANSFORMER 'CT' TO THE POWER MONITOR.

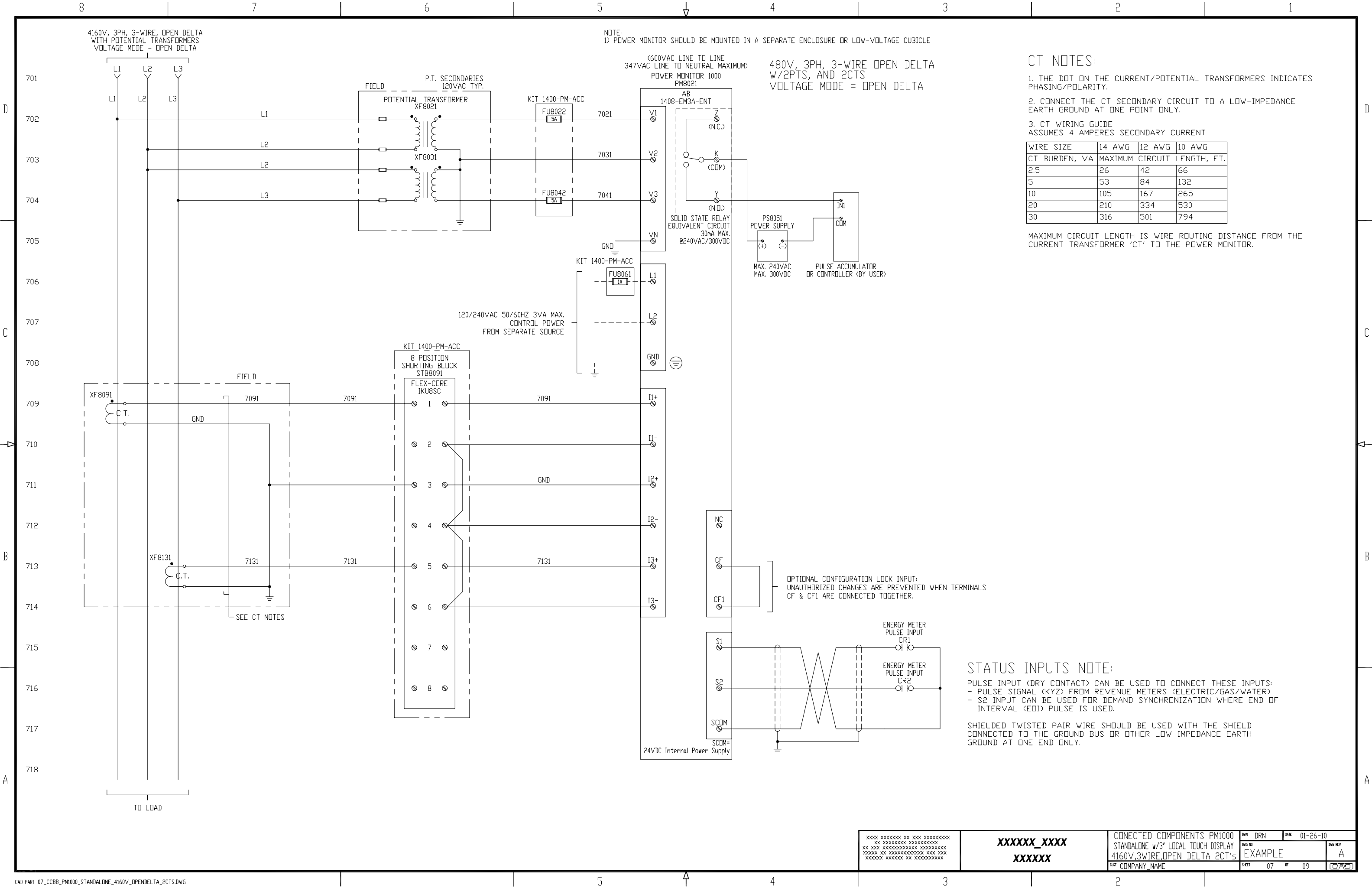


STATUS INPUTS NOTE:

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- PULSE SIGNAL (KYZ) FROM REVENUE METERS (ELECTRIC/GAS/WATER)
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SHIELDED TWISTED PAIR WIRE SHOULD BE USED WITH THE SHIELD CONNECTED TO THE GROUND BUS OR OTHER LOW IMPEDANCE EARTH GROUND AT ONE END ONLY.



NOTE:  
1) POWER MONITOR SHOULD BE MOUNTED IN A SEPARATE ENCLOSURE OR LOW-VOLTAGE CUBICLE

(600VAC LINE TO LINE  
347VAC LINE TO NEUTRAL MAXIMUM)  
POWER MONITOR 1000  
PM8021

480V, 3PH, 3-WIRE OPEN DELTA  
W/2PTS, AND 2CTS  
VOLTAGE MODE = OPEN DELTA

CT NOTES:

1. THE DOT ON THE CURRENT/POTENTIAL TRANSFORMERS INDICATES PHASING/POLARITY.
2. CONNECT THE CT SECONDARY CIRCUIT TO A LOW-IMPEDANCE EARTH GROUND AT ONE POINT ONLY.
3. CT WIRING GUIDE ASSUMES 4 AMPERES SECONDARY CURRENT

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CT BURDEN, VA	MAXIMUM CIRCUIT LENGTH, FT.		
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MAXIMUM CIRCUIT LENGTH IS WIRE ROUTING DISTANCE FROM THE CURRENT TRANSFORMER 'CT' TO THE POWER MONITOR.

OPTIONAL CONFIGURATION LOCK INPUT:  
UNAUTHORIZED CHANGES ARE PREVENTED WHEN TERMINALS CF & CF1 ARE CONNECTED TOGETHER.

STATUS INPUTS NOTE:

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  - PULSE SIGNAL (KYZ) FROM REVENUE METERS (ELECTRIC/GAS/WATER)
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SHIELDED TWISTED PAIR WIRE SHOULD BE USED WITH THE SHIELD CONNECTED TO THE GROUND BUS OR OTHER LOW IMPEDANCE EARTH GROUND AT ONE END ONLY.

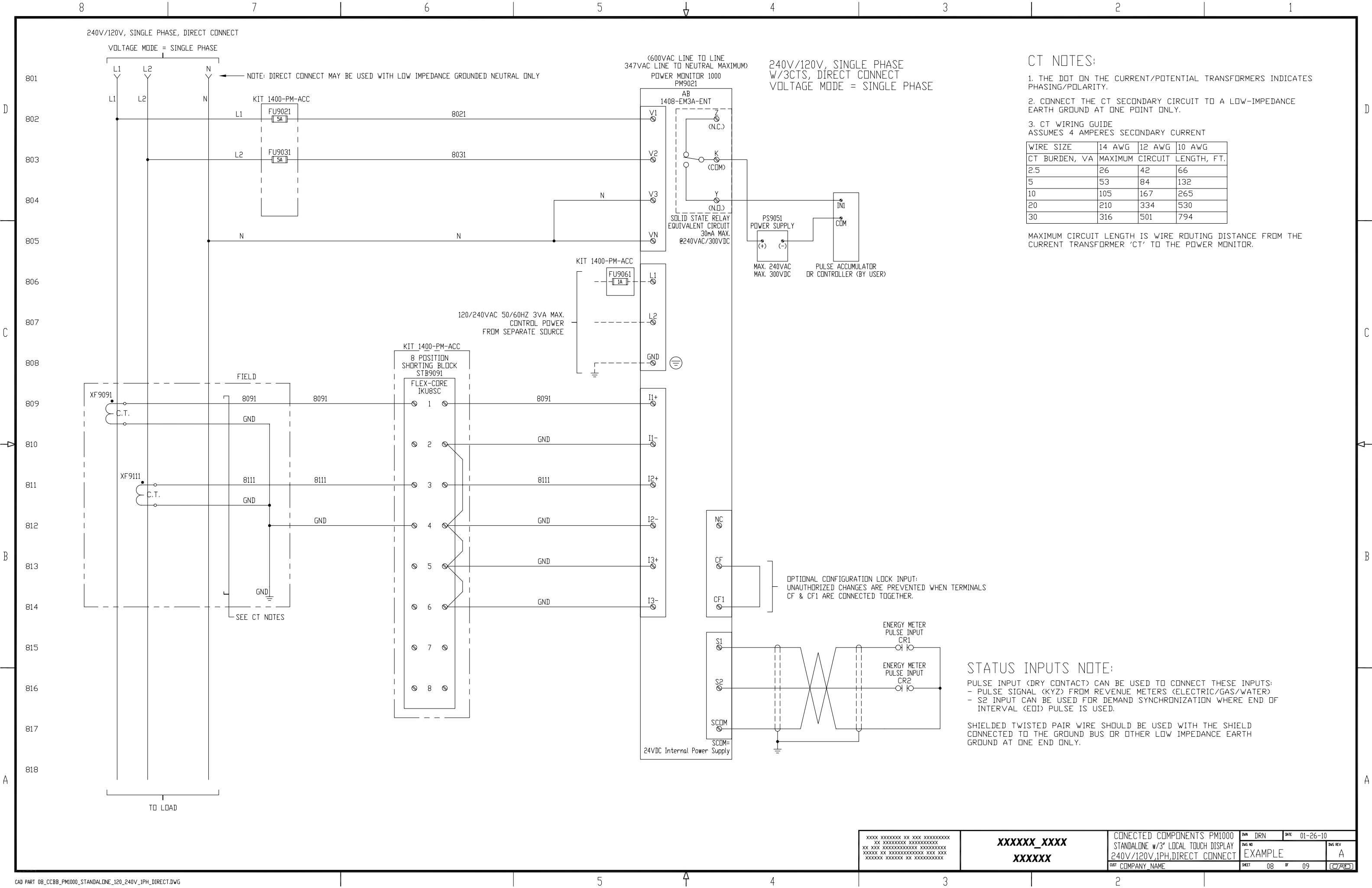
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CONNECTED COMPONENTS PM1000  
STANDALONE w/3" LOCAL TOUCH DISPLAY  
4160V,3WIRE,OPEN DELTA 2CT's

JAN DRN DATE 01-26-10  
DWG NO EXAMPLE  
DWG REV A  
SHEET 07 OF 09

CAD



CT NOTES:

1. THE DOT ON THE CURRENT/POTENTIAL TRANSFORMERS INDICATES PHASING/POLARITY.

2. CONNECT THE CT SECONDARY CIRCUIT TO A LOW-IMPEDANCE EARTH GROUND AT ONE POINT ONLY.

3. CT WIRING GUIDE ASSUMES 4 AMPERES SECONDARY CURRENT

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CT BURDEN, VA	MAXIMUM CIRCUIT LENGTH, FT.		
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5	53	84	132
10	105	167	265
20	210	334	530
30	316	501	794

MAXIMUM CIRCUIT LENGTH IS WIRE ROUTING DISTANCE FROM THE CURRENT TRANSFORMER 'CT' TO THE POWER MONITOR.

240V/120V, SINGLE PHASE  
W/3CTS, DIRECT CONNECT  
VOLTAGE MODE = SINGLE PHASE

STATUS INPUTS NOTE:

PULSE INPUT (DRY CONTACT) CAN BE USED TO CONNECT THESE INPUTS:

- PULSE SIGNAL (KYZ) FROM REVENUE METERS (ELECTRIC/GAS/WATER)
- S2 INPUT CAN BE USED FOR DEMAND SYNCHRONIZATION WHERE END OF INTERVAL (EOI) PULSE IS USED.

SHIELDED TWISTED PAIR WIRE SHOULD BE USED WITH THE SHIELD CONNECTED TO THE GROUND BUS OR OTHER LOW IMPEDANCE EARTH GROUND AT ONE END ONLY.

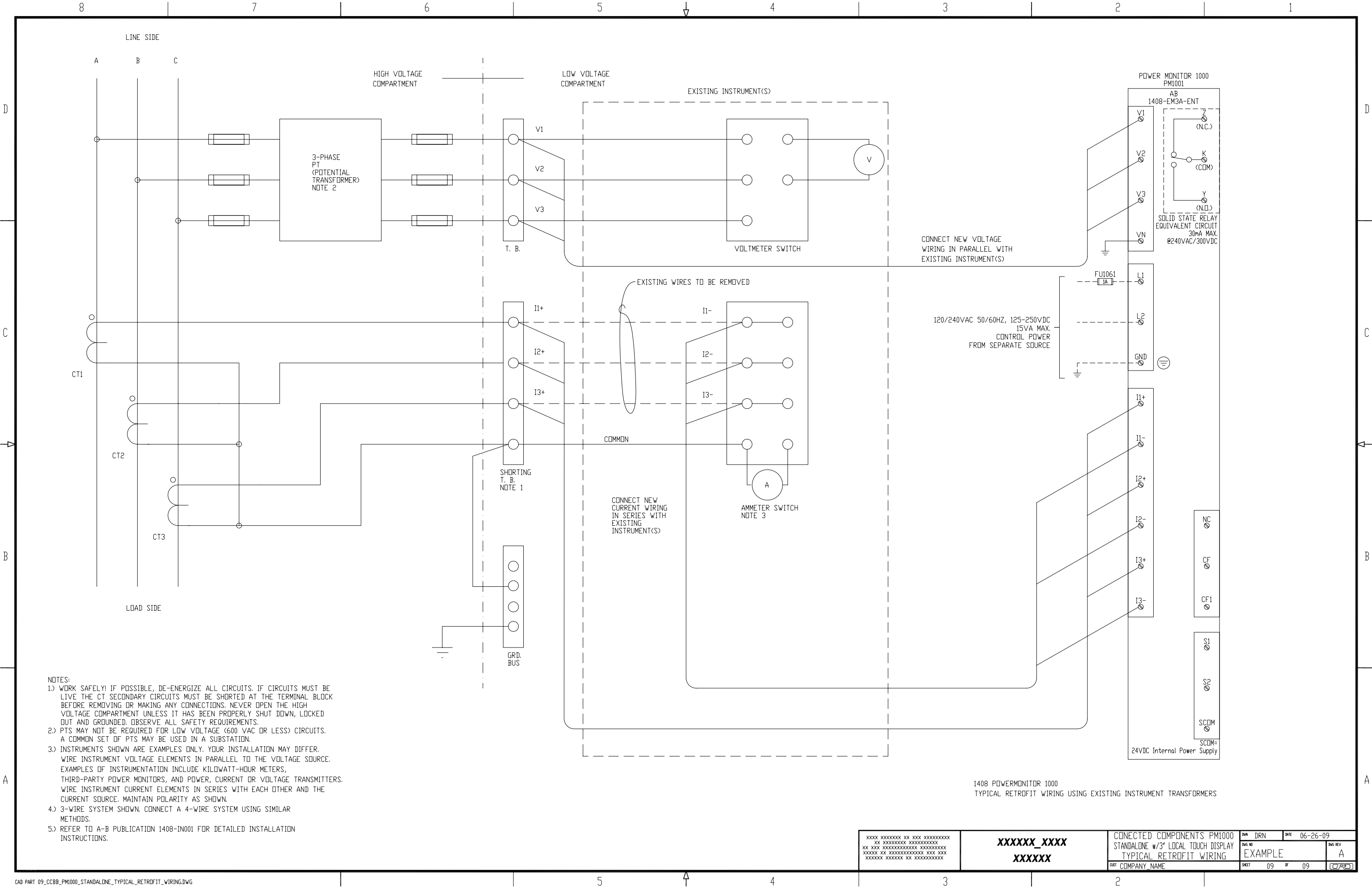
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XXXXXX\_XXXX  
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CONNECTED COMPONENTS PM1000  
STANDALONE w/3" LOCAL TOUCH DISPLAY  
240V/120V,1PH,DIRECT CONNECT

DATE	01-26-10
REV	EXAMPLE
REV	A





- NOTES:
- 1.) WORK SAFELY! IF POSSIBLE, DE-ENERGIZE ALL CIRCUITS. IF CIRCUITS MUST BE LIVE THE CT SECONDARY CIRCUITS MUST BE SHORTED AT THE TERMINAL BLOCK BEFORE REMOVING OR MAKING ANY CONNECTIONS. NEVER OPEN THE HIGH VOLTAGE COMPARTMENT UNLESS IT HAS BEEN PROPERLY SHUT DOWN, LOCKED OUT AND GROUNDED. OBSERVE ALL SAFETY REQUIREMENTS.
  - 2.) PTS MAY NOT BE REQUIRED FOR LOW VOLTAGE (600 VAC OR LESS) CIRCUITS. A COMMON SET OF PTS MAY BE USED IN A SUBSTATION.
  - 3.) INSTRUMENTS SHOWN ARE EXAMPLES ONLY. YOUR INSTALLATION MAY DIFFER. WIRE INSTRUMENT VOLTAGE ELEMENTS IN PARALLEL TO THE VOLTAGE SOURCE. EXAMPLES OF INSTRUMENTATION INCLUDE KILOWATT-HOUR METERS, THIRD-PARTY POWER MONITORS, AND POWER, CURRENT OR VOLTAGE TRANSMITTERS. WIRE INSTRUMENT CURRENT ELEMENTS IN SERIES WITH EACH OTHER AND THE CURRENT SOURCE. MAINTAIN POLARITY AS SHOWN.
  - 4.) 3-WIRE SYSTEM SHOWN. CONNECT A 4-WIRE SYSTEM USING SIMILAR METHODS.
  - 5.) REFER TO A-B PUBLICATION 1408-IN001 FOR DETAILED INSTALLATION INSTRUCTIONS.

XXXX XXXXXXXX XX XXX XXXXXXXXXX XX XXXXXXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXXXX XXX XXX XXXXXX XXXXXXXX XX XXXXXXXXXX	XXXXXX_XXXX XXXXXX	CONNECTED COMPONENTS PM1000 STANDALONE w/3" LOCAL TOUCH DISPLAY TYPICAL RETROFIT WIRING	DATE 06-26-09	DRN	DATE 06-26-09	REV	DATE 06-26-09
		EXAMPLE				A	
		COMPANY NAME					