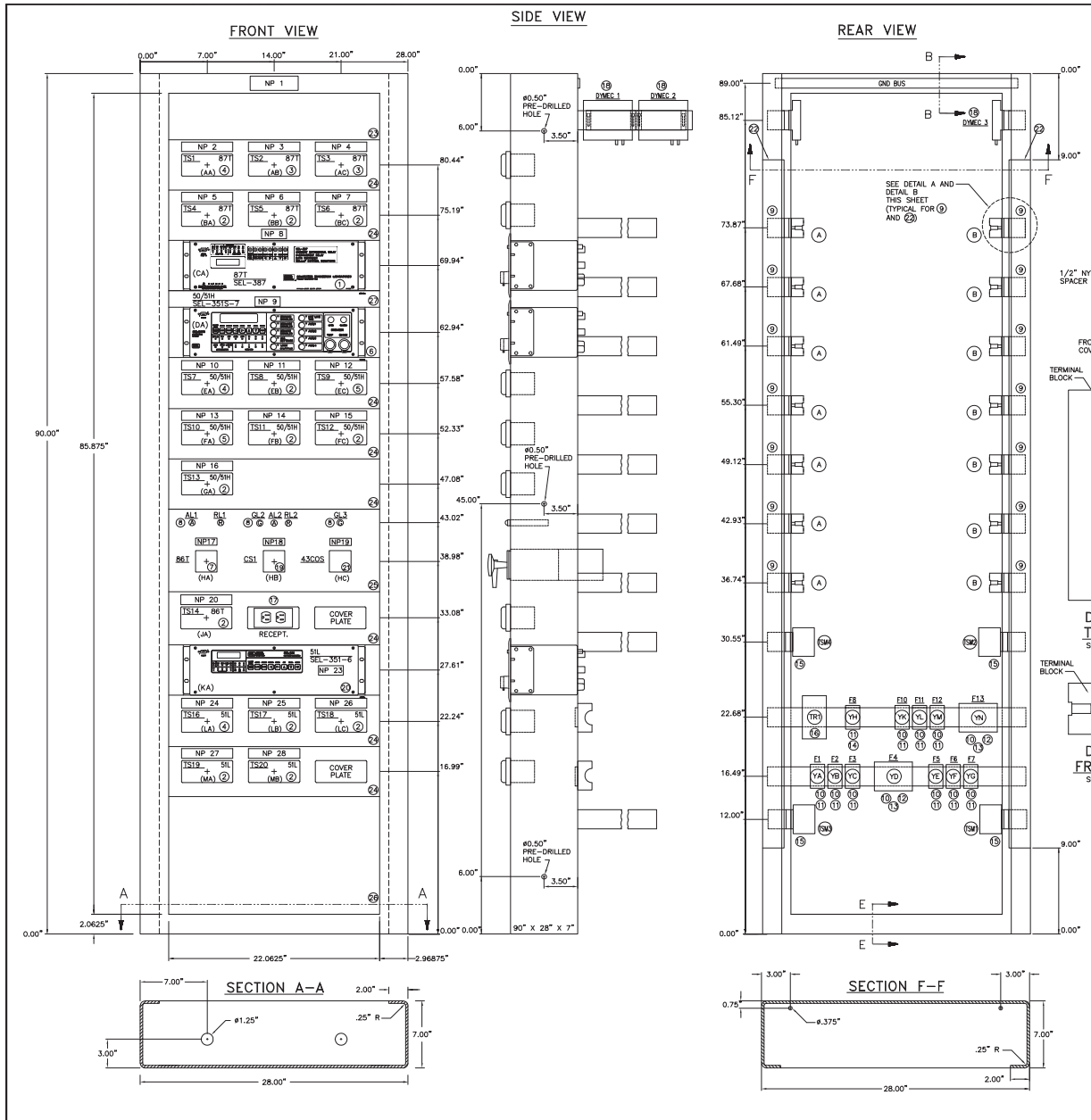

ITEM	DEVICE NAME	QTY	BILL OF MATERIALS DESCRIPTION	STYLE OR MODEL NO.
1	87T	1	SEL-387 TRANSFORMER DIFFERENTIAL RELAY	0387613X5H2X4X1
2	TS4,5,6,8,11,12,13 14,17,18,19,20	12	STATES TYPE FMS TEST SWITCH 10 POLE WITH CLEAR COVER (NOTE 1.)	2FMS-10A1
3	TS2,3	2	STATES TYPE FMS TEST SWITCH 6 CURRENT 4 POTENTIAL POLE WITH CLEAR COVER (NOTE 1.)	2FMS-10E1
4	TS1,7,16	3	STATES TYPE FMS TEST SWITCH 8 CURRENT 2 POTENTIAL POLE WITH CLEAR COVER (NOTE 1.)	2FMS-10E4
5	TS9,10	2	STATES TYPE FMS TEST SWITCH 2 CURRENT 8 POTENTIAL POLE WITH CLEAR COVER (NOTE 1.)	2FMS-10GB
6	50/51H	1	SEL-351S7 OVERCURRENT RELAY WITH PUSH BUTTONS AND PILOT LIGHTS	0351S7XH63A5421
7	86T	1	ELECTROSWITCH TYPE 7810D LOCKOUT RELAY	7810D
8	GL2, GL3 RL1,2 AL1,2	6	G.E. TYPE ET-16 INDICATING LIGHTS W/RED, AMBER & GREEN LENS & LED'S (NOTE 2.)	0116B6708
9	A & B	14	G.E. TERMINAL BLOCK, 12 CIRCUIT, 600V, 30A WITH MOUNTING BRACKET	EB25B12
10	F1-7,10-13	24	BUSSMAN FRN-R SERIES, 3 AMP FUSE, 250V AC/125V DC, RK5 CLASS	FRN-R-3
11	F1-3,F5-8, F10-12	10	FERRAZ SHAWMUT FUSE BLOCK; PHENOLIC BASE, 2 POLE, 30 AMP, 250 VOLT	20317
12	F4,F13	2	FERRAZ SHAWMUT FUSE BLOCK; PHENOLIC BASE, 4 POLE, 30 AMP, 250 VOLT	20318 20315
13	F4,F13	2	SLUGS; CONDUCTIVE NEUTRAL	
14	F8	2	BUSSMAN FRN-R SERIES, 10 AMP FUSE, 250V AC/125V DC, RK5 CLASS	FRN-R-10
15	TSM1,2,3,4	4	STATES TYPE MTS TEST SWITCH, 12 POTENTIAL POLE WITH CLEAR COVER (NOTE 3.)	C3-212-A
16	TR1	1	ABB TYPE TRB-2 ZENER TRIPPING & BLOCKING UNIT	408C003G01
17	RECPT.	1	GFCI RECEPTACLE, 20A 120V AC, NEMA 5-20R	
18	DYMEC 1,2,3	3	DYMEC SERIAL COPPER TO FIBER MEDIA CONVERTER AND LINK/ REPEATER RS-485	5846HRT-H
19	CS1	1	ELECTROSWITCH CONTROL SWITCH TYPE 24	2444D
20	51L	1	SEL-351-6 TIME OVERCURRENT RELAY	035163A3A542X1
21	43COS	1	ELECTROSWITCH TYPE ROTARY SWITCH 24203B - SWITCH PLATE 10D-2X5A	24203B
22	-	2	6' PANDUIT WIREWAY (6"x2.25"x4.5")	
23	INSERT PLATE	1	BLANK PLATE, 3RU	BLPL-03-00-A
24	INSERT PLATE	8	TEST SWITCH MOUNTING PLATE, 3RU	TSSW-03-03-A
25	INSERT PLATE	1	CONTROL SWITCH MOUNTING PLATE, 3 POSITION, 5RU	CTRL-05-03-A
26	INSERT PLATE	1	BLANK PLATE, 7RU	BLPL-07-00-A
27	INSERT PLATE	1	BLANK PLATE, 1RU	BLPL-01-00-A

NAME PLATE SCHEDULE

IDENT.	*	FIRST LINE	SECOND LINE	THIRD LINE
NP 1	-	PANEL X	TRANSFORMER XXX	
NP 2	-	(SEE R10.Xb)		
NP 3	-	(SEE R10.Xb)		
NP 4	-	(SEE R10.Xb)		
NP 5	-	(SEE R10.Xb)		
NP 6	-	(SEE R10.Xb)		
NP 7	-	(SEE R10.Xb)		
NP 8	-	XX-XXX	XFMR DIFF RELAY	87T
NP 9	-	XX-XXX	XFMR HI SIDE O/C RELAY	50/51H
NP 10	-	(SEE R10.Xb)		
NP 11	-	(SEE R10.Xb)		
NP 12	-	(SEE R10.Xb)		
NP 13	-	(SEE R10.Xb)		
NP 14	-	(SEE R10.Xb)		
NP 15	-	(SEE R10.Xb)		
NP 16	-	(SEE R10.Xb)		
NP 17	-	XX-XXX	XFMR DIFF LOCKOUT	86T
NP 18	-	XX-60XM	CONTROL SWITCH	CS1
NP 19	-		SUPERVISORY	DISABLE
NP 20	-	(SEE R10.Xb)		
NP 21	-			
NP 22				
NP 23		XX-XXX	XFMR LO SIDE O/C RELAY	51L
NP 24		(SEE R10.Xb)		
NP 25		(SEE R10.Xb)		
NP 26		(SEE R10.Xb)		
NP 27		(SEE R10.Xb)		
NP 28		(SEE R10.Xb)		
NP 29				

NOTES:

1. ALL TEST SWITCHES INSTALLED SHOULD HAVE ALL BLACK COLORED HANDLES.
2. LED LIGHTS AND LENS PART NUMBER
   --RED: 116B6708G43R73R4
   --GREEN: 116B6708G43G73G4
   --AMBER: 116B6708G43A73A4
3. TSM1-TSM4 ARE FRONT CONNECTED SWITCHES WITH ALL RED COLORED HANDLES.

NO	DATE	REVISION	TASKNUM	DSGN	CHK	DWN	CHK	AS-BUILT	BY
6									
5									
4									
3									
2									
1		REVISION C - UPDATE BILL OF MATERIALS		JP	TL	PKW			
0	12-18-09	REVISION B - 43COS ADDITION, DNP CNTL, & MISCELLANEOUS		DCS	XG	JDC	-		

FOR CONSTRUCTION / DATE

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AUSTIN ENERGY
POWER DELIVERY DIVISION
TRANSMISSION ENGINEERING

TITLE :

XXXX SUBSTATION
PANEL LAYOUT
XX-XXX UNIT SUB DIFF REL PNL X

MASTER NO.	SCALE
R10_387_USD_Xa_REV C	3/16"=1"

FILE NAME: XXXX_10_Xa.DWG

DRAWING NUMBER: **7B XXXX R10.Xa**