8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

NEXT ASS'Y: FINAL ASS'Y:

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [4] – 3P4W [X] – WITH GRD. BAR PANEL MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 400 A 22000 A.I.C. CN–1PPC–7 VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] 480 /
400 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1			DRY ETCH	3600			19344			DRY ETCH	2	125	2
3	40	3	PIRANHA/H3PO4		3600			19344		POWER CENTER (DR02.01)			4
5			(WS03)			3600				SPARE	1	20	6
7			DRY ETCH	3600			1800			DRY ETCH			8
9	40	3	SOLVENT SINK		3600			1800		LOAD LOCK	3	20	10
11			(WV01)			3600			1800	(DR02.03)			12
13	25	1	D E SPIN RIN DRY (WY02)	2280			2880			DRY ETCH			14
15	25	1	D E SPIN RIN DRY (WY03)		2280			2880		CHAMBER PUMP	3	30	16
17	25	1	D E SPIN RIN DRY (WY04)			2280			2880	(DR02.04)			18
19	125	2	DRY ETCH	19344			6000			DRY ETCH			20
21			POWER CENTER (DR01.01)		19344			6000		KOH/GEN SINK	3	70	22
23	20	1	SPARE			0			6000	(WS04.01)			24
25			DRY ETCH	1800			6000			DRY ETCH			26
27	20	3	LOAD LOCK		1800			6000		KOH/GEN SINK	3	70	28
29			(DR01.03)			1800			6000	(WS04.02)			30
31			DRY ETCH	2880			0			SPARE	1	20	32
33	30	3	CHAMBER PUMP		2880			0		SPARE	1	20	34
35			(DR01.04)			2880			0	SPARE	1	20	36
37	20	1	SPARE	0			0			SPARE	1	20	38
39	20	1	SPARE		0			0		SPARE	1	20	40
41	20	1	SPARE			0			0	SPARE	1	20	42

NOTE: THIS PANEL REQUIRES DOUBLE NEUTRAL

PHASE TOTALS COL. #1	33504	33504	14160
PHASE TOTALS COL. #2	36024	36024	16680
PHASE TOTAL VA	69528	69528	30840

TOTAL 3 PHASE CONNECTED 170 KVA 472 AMPS

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 225 A 22000 A.I.C. CN–1PPC–10 VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] 480 /
225 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	25	1	PVD/CVD (MD03)	2280			3600			PVD/CVD			2
3	25	1	PVD/CVD (MP01)		2280			3600		POWER SOURCE	40	3	4
5	25	1	PVD/CVD (MP02)			2280			3600	(VC01.01)			6
7			PVD/CVD	6720			7200			PVD/CVD			8
9	70	3	PVD		6720			7200		ION MILL	80	3	10
11			(VM01)			6720			7200	(VC01)			12
13			PVD/CVD	2880			2400			CHILLER (VC01.03)	25	1	14
15	30	3	CHAMBER PUMP		2880			2400		PVD/CVD (VP02.02)	25	1	16
17			(VM01.04)			2880			1440	PVD/CVD(VP02.04)	20	1	18
19			PVD/CVD	2400			0			SPARE	20	1	20
21	25	3	REACTOR		2400			0		SPARE	20	1	22
23			(VP02.03)			2400			0	SPARE	20	1	24
25	20	1	SPARE	0			0			SPARE	20	1	26
27	20	1	SPARE		0			0		SPARE	20	1	28
29	20	1	SPARE			0			0	SPARE	20	1	30
31	20	1	SPARE	0			0			SPARE	20	1	32
33	20	1	SPARE		0			400		RECEP B1–7–20,22	20	1	34
35	20	1	SPARE			0			600	RECEP B1–7–17	20	1	36
37	20	1	SPARE	0			400			RECEP B1–7–22,23	20	1	38
39	20	1	SPARE		0			0		SPARE	20	1	40
41	20	1	SPARE			0			0	SPARE	20	1	42

NOTE: THIS PANEL REQUIRES DOUBLE NEUTRAL

PHASE TOTALS COL. #1	14280	14280	14280
PHASE TOTALS COL. #2	13600	13600	12840
PHASE TOTAL VA	27880	27880	27120

TOTAL 3 PHASE CONNECTED 83 KVA 230 AMPS

SUPPLY: [ ] – BOTT. [X] – TOP [X] – LUGS [X] –MAIN BKR. [ ] – LTG. [ ] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [ ] – WITH GRD. BAR PANEL MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 100 A 42,000 A.I.C. CN–1PP1–9 VOLTAGE: [ ] –120 / 208 [X] –277 / 480 [ ] /
100 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	2
3	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	4
5	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	6
7	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	8
9	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	10
11	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	12
13	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	14
15	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	16
17	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	18
19	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	20
21	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	22
23	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	24
25	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	26
27	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	28
29	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	30
31	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	32
33	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	34
35	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	36
37	20	1	LAB N1A LOAD	2380			2380			LAB N1A LOAD	1	20	38
39	20	1	LAB N1A LOAD		2380			2380		LAB N1A LOAD	1	20	40
41	20	1	LAB N1A LOAD			2380			2380	LAB N1A LOAD	1	20	42

PHASE TOTALS COL. #1	16660	16660	16660
PHASE TOTALS COL. #2	16660	16660	16660
PHASE TOTAL VA	33320	33320	33320

TOTAL 3 PHASE CONNECTED 100 KVA 120 AMPS

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [4] – 3P4W [X] – WITH GRD. BAR PANEL MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 400 A 22000 A.I.C. CN–1PPC–8 VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] 480 /
400 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	125	2	DRY ETCH	19344			7680			DRY ETCH			2
3			POWER CENTER (DR03.01)		19344			7680		POWER CENTER	3	80	4
5	20	1	SPARE			0			7680	(DR04.01)			6
7			DRY ETCH	1800			1800			DRY ETCH			8
9	20	3	LOAD LOCK		1800			1800		LOAD LOCK	3	20	10
11			(DR03.03)			1800			1800	(DR04.03)			12
13			DRY ETCH	2880			2880			DRY ETCH			14
15	30	3	CHAMBER PUMP		2880			2880		CHAMBER PUMP	3	30	16
17			(DR03.04)			2880			2880	(DR04.04)			18
19			DRY ETCH	2880			2880			DRY ETCH			20
21	30	3	CHAMBER PUMP		2880			2880		CHAMBER PUMP	3	30	22
23			(DR03.05)			2880			2880	(DR04.05)			24
25			DRY ETCH	2880			2880			DRY ETCH			26
27	30	3	CHAMBER PUMP		2880			2880		CHAMBER PUMP	3	30	28
29			(DR03.06)			2880			2880	(DR04.06)			30
31	20	1	SPARE	0			2880			DRY ETCH			32
33	20	1	SPARE		0			2880		CHAMBER PUMP	3	30	34
35	20	1	SPARE			0			2880	(DR04.07)			36
37	20	1	SPARE	0			0			SPARE	1	20	38
39	20	1	SPARE		0			0		SPARE	1	20	40
41	20	1	SPARE			0			0	SPARE	1	20	42

NOTE: THIS PANEL REQUIRES DOUBLE NEUTRAL

PHASE TOTALS COL. #1	29784	29784	10440
PHASE TOTALS COL. #2	21000	21000	21000
PHASE TOTAL VA	50784	50784	31440

TOTAL 3 PHASE CONNECTED 133 KVA 369 AMPS

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [ ] – 3P4W [X] – WITH GRD. BAR TYPICAL LAB PANEL MOUNTING [X] –SURFACE [X] – FLUSH [ ] –COLUMN
MAINS: 100 A 22000 A.I.C. CN–1PPB–1 VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] 480 /
100 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20	1	B1–6–1, RECEPT	600			1000			B1–6, RECEPT	20	2	2
3	20	1	B1–6–1, RECEPT		600			1000					4
5	20	1	B1–6–1, RECEPT			600			0	SPARE	20	1	6
7	20	1	B1–6–1, RECEPT	400			1000			B1–6, RECEPT	20	2	8
9	20	1	FUME HOOD (NOTE 1)		1200			1000					10
11	20	1	FUME HOOD (NOTE 2)			1200			0	SPARE	20	1	12
13	20	1	FUME HOOD (NOTE 3)	1200			1000			B1–6, RECEPT	20	2	14
15	20	1	SPARE		0			1000					16
17	20	1	SPARE			0			0	SPARE	20	1	18
19	20	1	SPARE	0			1000			B1–6, RECEPT	20	2	20
21	20	1	SPARE		0			1000					22
23	20	1	SPARE			0			0	SPARE	20	1	24
25	20	1	SPARE	0			0			SPARE	20	1	26
27	20	1	SPARE		0			0		SPARE	20	1	28
29	20	1	SPARE			0			0	SPARE	20	1	30
31	20	1	SPARE	0			0			SPARE	20	1	32
33	20	1	SPARE		0			0		SPARE	20	1	34
35	20	1	SPARE			0			0	SPARE	20	1	36
37	20	1	SPARE	0			0			SPARE	20	1	38
39	20	1	SPARE		0			0		SPARE	20	1	40
41	20	1	SPARE			0			0	SPARE	20	1	42

NOTE 1: REQUIRED ONLY IN CN–1PPB–4, 5,7,8
CN–1PP1–2,3,4,5,6; CN–1PP2–3,4,7,8
CN–1PP3–1,2,3,4,5,6,7,8
NOTE 2: REQUIRED ONLY IN CN–1PP2–9; CN–1PP3–2,3,4,5,6,7,8
NOTE 3: REQUIRED ONLY IN CN–1PP3–2,3,4,5,6,7,8

PHASE TOTALS COL. #1	2200	1800	1800
PHASE TOTALS COL. #2	4000	4000	0
PHASE TOTAL VA	6200	5800	1800

TOTAL 3 PHASE CONNECTED 14 KVA 38 AMPS

NOTE: THIS PANEL IS TYP FOR 32 LAB PANELS EXCEPT AS NOTED AT LEFT
NOTE: PROVIDE GFCI FOR ALL BREAKERS

SUPPLY: [ ] – BOTT. [X] – TOP [X] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [ ] – WITH GRD. BAR PANEL MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 100 A 42,000 A.I.C. CN–1PP1–10 VOLTAGE: [ ] –120 / 208 [X] –277 / 480 [ ] /
100 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	2
3	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	4
5	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	6
7	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	8
9	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	10
11	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	12
13	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	14
15	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	16
17	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	18
19	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	20
21	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	22
23	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	24
25	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	26
27	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	28
29	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	30
31	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	32
33	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	34
35	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	36
37	20	1	LAB N1C LOAD	1190			1190			LAB N1C LOAD	1	20	38
39	20	1	LAB N1C LOAD		1190			1190		LAB N1C LOAD	1	20	40
41	20	1	LAB N1C LOAD			1190			1190	LAB N1C LOAD	1	20	42

PHASE TOTALS COL. #1	8330	8330	8330
PHASE TOTALS COL. #2	8330	8330	8330
PHASE TOTAL VA	16660	16660	16660

TOTAL 3 PHASE CONNECTED 50 KVA 60 AMPS

SUPPLY: [ ] – BOTT. [X] – TOP [X] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR PANEL MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 100 A 42,000 A.I.C. CN–1PPB–9 VOLTAGE: [ ] –120 / 208 [X] –277 / 480 [ ] /
100 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1				16,667			0			SPARE	1	20	2
3	60	3	ARC MELTER		16,667			0		SPARE	1	20	4
5			(NANO 2B)			16,667			0	SPARE	1	20	6
7	20	1	SPARE	0			0			SPARE	1	20	8
9	20	1	SPARE		0			0		SPARE	1	20	10
11	20	1	SPARE			0			0	SPARE	1	20	12
13	20	1	SPARE	0			0			SPARE	1	20	14
15	20	1	SPARE		0			0		SPARE	1	20	16
17	20	1	SPARE			0			0	SPARE	1	20	18
19	20	1	SPARE	0			0			SPARE	1	20	20
21	20	1	SPARE		0			0		SPARE	1	20	22
23	20	1	SPARE			0			0	SPARE	1	20	24
25	20	1	SPARE	0			0			SPARE	1	20	26
27	20	1	SPARE		0			0		SPARE	1	20	28
29	20	1	SPARE			0			0	SPARE	1	20	30
31	20	1	SPARE	0			0			SPARE	1	20	32
33	20	1	SPARE		0			0		SPARE	1	20	34
35	20	1	SPARE			0			0	SPARE	1	20	36
37	20	1	SPARE	0			0			SPARE	1	20	38
39	20	1	SPARE		0			0		SPARE	1	20	40
41	20	1	SPARE			0			0	SPARE	1	20	42

PHASE TOTALS COL. #1	16667	16667	16667
PHASE TOTALS COL. #2	0	0	0
PHASE TOTAL VA	16667	16667	16667

TOTAL 3 PHASE CONNECTED 50 KVA 60 AMPS

SUPPLY: [ ] – BOTT. [X] – TOP [X] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [X] –POWER NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR PANEL MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 400 A 22000 A.I.C. CN–1PP1–11 VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] 480 /
400 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	60	2	FURNACE	2666			2667				2	60	2
3			LAB NANO 2D		2666			2667		LAB NANO 2D			4
5	60	2	FURNACE			2666			2667		2	60	6
7			LAB NANO 2D	2666			2667			LAB NANO 2D			8
9	60	2	FURNACE		2666			2667			2	60	10
11			LAB NANO 2D			2666			2667	LAB NANO 2D			12
13	60	2	FURNACE	2666			2667				2	60	14
15			LAB NANO 2D		2666			2667		LAB NANO 2D			16
17	60	2	FURNACE			2666			2667		2	60	18
19			LAB NANO 2D	2666			2667			LAB NANO 2D			20
21	60	2	FURNACE		2666			0		SPARE	1	20	22
23			LAB NANO 2D			2666			0	SPARE	1	20	24
25	60	2	FURNACE	2666			0			SPARE	1	20	26
27			LAB NANO 2D		2666			0		SPARE	1	20	28
29	60	2	FURNACE			2666			0	SPARE	1	20	30
31			LAB NANO 2D	2666			0			SPARE	1	20	32
33	60	2	FURNACE		2666			0		SPARE	1	20	34
35			LAB NANO 2D			2666			0	SPARE	1	20	36
37	60	2	FURNACE	2666			0			SPARE	1	20	38
39			LAB NANO 2D		2666			0		SPARE	1	20	40
41	20	1	SPARE			0			0	SPARE	1	20	42

NOTE: THIS PANEL REQUIRES DOUBLE NEUTRAL

PHASE TOTALS COL. #1	18662	18662	15996
PHASE TOTALS COL. #2	10668	8001	8001
PHASE TOTAL VA	29330	26663	23997

TOTAL 3 PHASE CONNECTED 80 KVA 222 AMPS

KEY SCHEDULE

CN-1PPC-7	CN-1PPC-10	CN-1PP1-9
CN-1PPC-8	CN-1PPB-1	CN-1PP1-10
CN-1PPC-9	CN-1PPB-9	CN-1PP1-11

ORNL DRAWING NUMBER:

Knight/Jacobs Joint Venture
701 Scarboro Road, MS 8253
Oak Ridge, TN 37830
865–241–9433
fax 865–241–3400

m+w zander
M+W Zander U.S. Operations, Inc.
549 West Randolph Street
Chicago, IL 60661
Telephone: (312) 577-3200
Fax: (312) 577-3525

UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE–AC05–00OR22725
UT-BATTELLE, LLC, ® Oak Ridge, Tennessee

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM
ENGINEERING PROCEDURE

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT
0				CERTIFIED FOR CONSTRUCTION 12/9/02	CR	VGS	

REVISION OR ISSUE PURPOSE

DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
		1/03		1/03		1/03			VGS	106009	

REVISION APPROVALS

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
RZ	AW	BWJ	AK	IM	DM	–	BWJ	–	TW

SQUAD CHECK

RPE
VICTOR G. STEFFEN REGISTERED ENGINEER NO. 00106608 STATE OF TENNESSEE
REV. 0 DATE 12/9/02

DSN	C. RUNNIG	12/09/02
DRW	L. MAKOVSKY	12/09/02
CHK	V. STEFFEN	12/09/02
DEPT		
PE	CLG	12/9/02
PJ	JS	1/03/03
REQ		1/24/03
UTB		

DRAWING APPROVALS

PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES
PANELBOARD SCHEDULES
CN-SS1

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8610		1	1	S	U
51		52		53	A/E DRAWING NUMBER:					REV
NC		NA			E9.23.42					0

AutoCAD