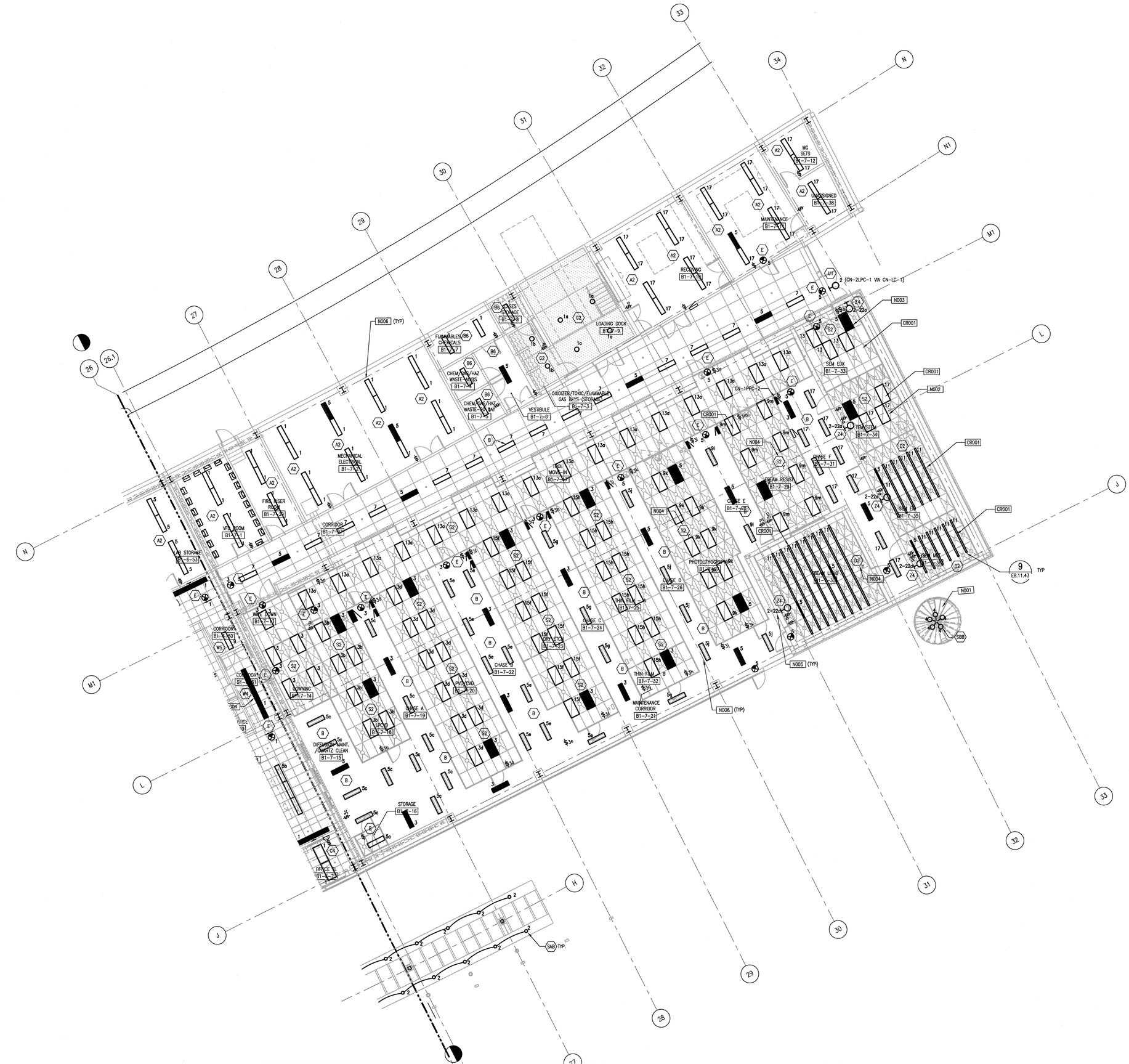
NEXT ASS'Y: FINAL ASS'Y:




## GENERAL NOTES:

1. SEE DRAWING E9.31.90 FOR FIXTURE SCHEDULE.
2. ALL NORMAL CIRCUIT WIRE SIZE SHALL BE #10 AWG.

## KEY NOTES:

| | |
|---|---|
| N001 | PROVIDE STAIR LIGHTING MOUNTED TO CENTRAL RISER POST. SEE ARCH DWGS FOR DETAILS. PROVIDE SWITCH IN CENTRAL POST AT BOTTOM. |
| N002 | ALL NORMAL LIGHTING FIXTURES ARE CIRCUITED FROM PANEL CN-2LPC-1 (UON) LOCATED IN RM B1-6-50. |
| N003 | ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS ARE CIRCUITED FROM PANEL CN-2ELC-1 LOCATED IN RM B1-6-50. |
| N004 | PROVIDE YELLOW LAMPS IN ROOMS B1-7-28, 29, 30. |
| N005 | 2-22 INDICATES FIXTURE FED FROM PNL CN-1PPC-2 CKT 22 |
| N006 | MOUNTING HEIGHT OF LIGHT FIXTURES SHALL BE 10'-0"AFF TO BOTTOM. TYP IN CLEANROOM CHASES AND SUPPORT AREAS WITHOUT CEILINGS. |

## CLEAN ROOM EMI NOTES:

CR001 THE NOTES BELOW APPLY ONLY TO THE FOLLOWING AREAS, WHICH HAVE BEEN DEFINED AS EMI-SENSITIVE:
EBEAM LITHO (CN-B1-7-30)
SEM EDX (CN-B1-7-33)
TEM/STEM (CN-B1-7-34)
SEM MET (CN-B1-7-35)
SEM FIB (CN-B1-7-36)

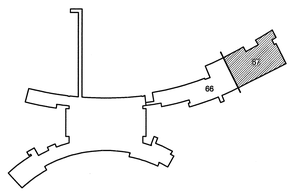
COMPLY WITH ALL NOTES BELOW WHEN UTILITIES APPROACH WITHIN 25 FEET OF WALLS SURROUNDING THE ABOVE LISTED AREAS.

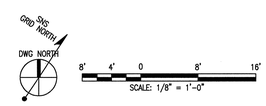
1. A NEUTRAL SHALL BE RUN WITH ALL PHASE CONDUCTORS. (DOES NOT APPLY TO 3-PHASE MOTOR LOADS.)

2. THE PHASE, NEUTRAL AND GROUND CONDUCTORS SHALL BE TWISTED TOGETHER EVERY 36" AND WIRE TIED ON 24" CENTERS INSIDE THE CONDUITS.

3. A SEPARATE GROUND CONDUCTOR SHALL BE RUN IN EACH CONDUIT.

4. A NEUTRAL CONDUCTOR SHALL BE RUN AND TWISTED TOGETHER EVERY 36" WITH EACH PHASE CONDUCTOR TO EACH LIGHT SWITCH.




ORNL DRAWING NUMBER:


KnightJacobs 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

PROJECT NAME:

# CENTER FOR NANOPHASE MATERIALS SCIENCES
# ELECTRICAL LIGHTING PLAN
# LEVEL B1 - SECTOR 67

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 48 | 49 | 50 | PLANT | BLDG | FL | SH. | OF | TYPE | CLASS |
| 3 | E | X | X | 8 | 8610 | | 1 | 1 | P | U |
| 51 | | 52 | | 53 | A/E DRAWING NUMBER: | | | | | REV |
| NC | | NA | | | E3.B1.67 | | | | | 0 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/10/02 | | 12/9/02 | | 12/9/02 | | 12/9/02 | | | 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. 00106001, STATE OF TENNESSEE, 12-9-02

REV. D DATE 12/9/02

| | | |
|---|---|---|
| DSN | C. RUNNG | 12/09/02 |
| DRW | L. MAKOVSKY | 12/09/02 |
| CHK | V. STEFFEN | 12/09/02 |
| DEPT | | |
| PE | CLG | 12/9/02 |
| PJ | JS | 12/9/02 |
| REQ | | 12/9/02 |
| UTB | | |

DRAWING APPROVALS


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 _____

Date: 02/12/2002 Time: 10:52:04
Username: MAGOW
C:\R-W_PROJ\PROJECTS\1000\700_CNAM\1600_BB\140_PLOT\A2-01-01.DWG

AutoCAD