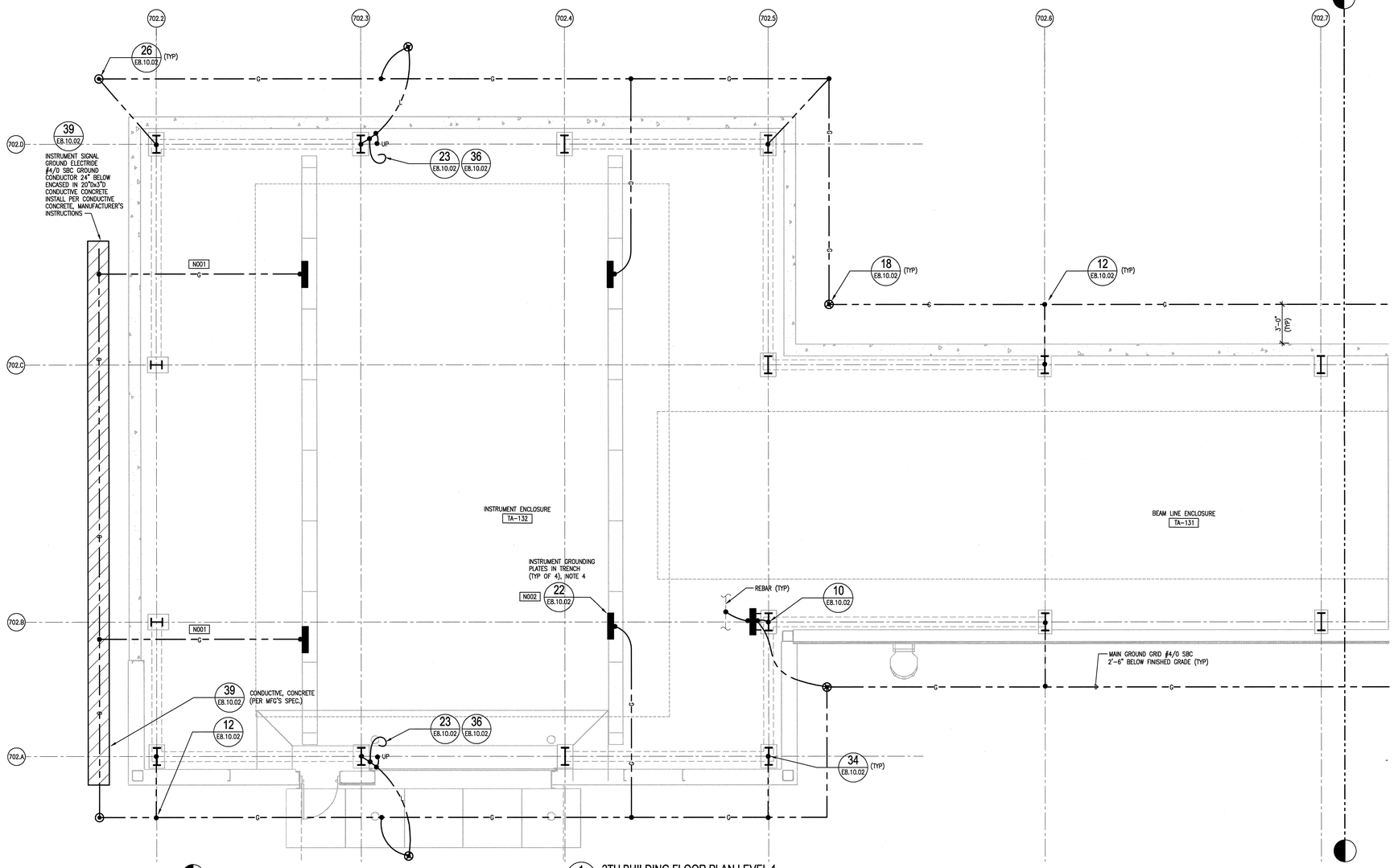
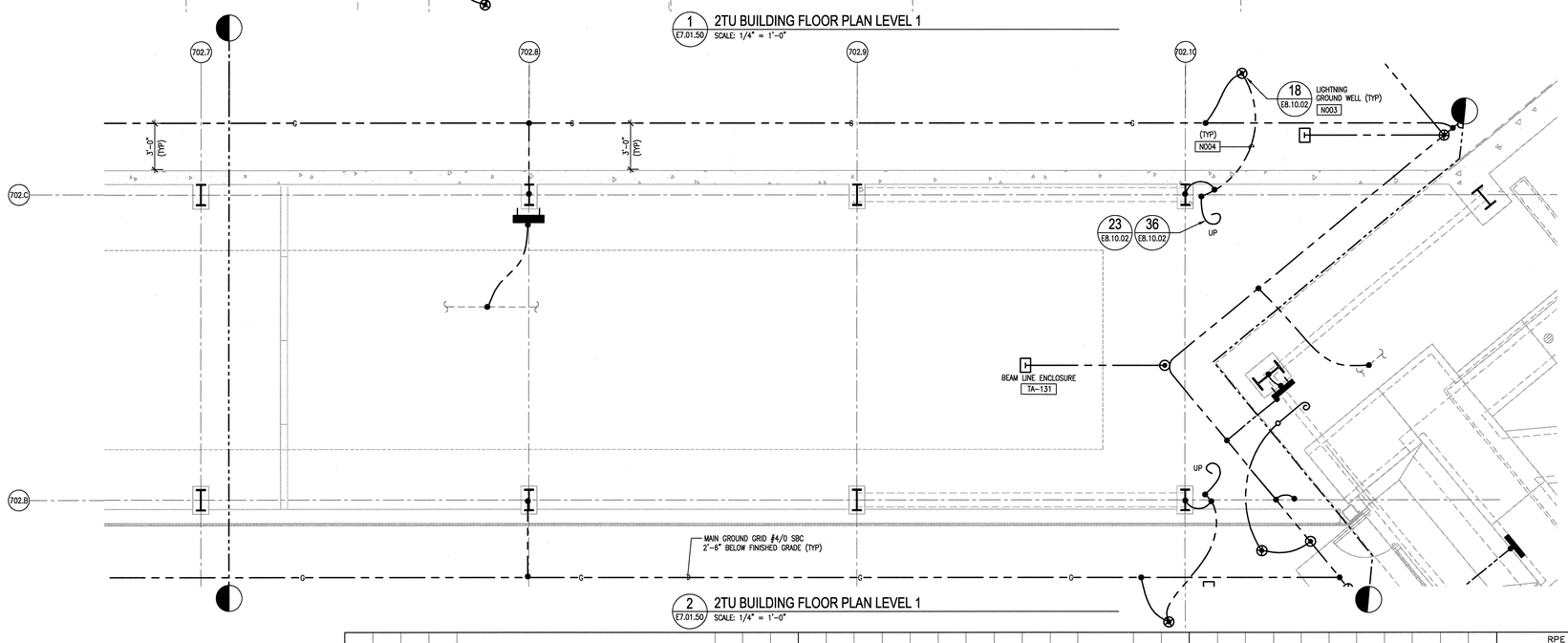



1 E7.01.50 2TU BUILDING FLOOR PLAN LEVEL 1
SCALE: 1/4" = 1'-0"



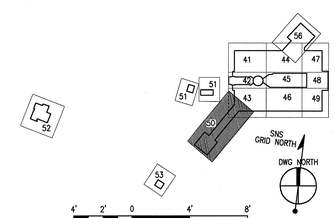

2 E7.01.50 2TU BUILDING FLOOR PLAN LEVEL 1
SCALE: 1/4" = 1'-0"

## GENERAL NOTES:

1. CONCRETE MAT FOUNDATION SUBCONTRACTOR SHALL PROVIDE GROUND CONDUCTOR PIG TAILS OR PLATES AT THE REQUIRED LOCATIONS THROUGH THE MAT, FOR ABOVE MAT CONNECTIONS BY OTHERS. REFER DETAIL 3 ON DRAWING EB.10.02. SEE NOTE 10.
2. ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC) UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC CADWELD.
4. THE INSTRUMENT GROUND PLATE IN THE UTILITY TRENCH SHALL NOT MAKE CONTACT TO METAL EXCEPT INSULATED GROUND CABLE.
5. ALL GROUND CONDUCTORS SHOWN WITHIN THE BUILDING ARE EMBEDDED IN CONCRETE.

## SHEET KEYNOTES:

| | |
|---|---|
| N001 | #4/0 COPPER GREEN INSULATED GROUND CABLE RATED 600V TYPE THNN UNDERGROUND AND EMBEDDED IN CONCRETE. |
| N002 | INSTRUMENT GROUNDING PLATES SHALL NOT MAKE CONTACT WITH METAL EXCEPT INSULATED GROUND CABLE. |
| N003 | MAINTAIN MINIMUM 6'-0" BETWEEN LIGHTNING GROUND WELL AND ANY FACILITY GROUND WELL/ROD. |
| N004 | 28 STRANDS OF 14 GAGE COPPER WIRE TO LIGHTNING GROUND WELL. |

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Oak Ridge National Laboratory
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UT-BATTELLE, LLC. ● Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE
INSTRUMENT 2TU ENCLOSURE
ELECTRICAL GROUNDING PLAN
LEVEL 1, SECTOR 50

| 1 | 48 | 49 | 50 | PLANT | BLDG | FL | SH. | OF | TYPE | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | E | X | X | 8 | 8702 | | 1 | 1 | P | U |
| 51 | | 52 | | 53 | WBS | | | | | REV |
| NC | | NA | | | 1.8.3.7 | | E7.01.50 | | | 0 |

| | | |
|---|---|---|
| DSN | H GROVER | 10/26/01 |
| DRW | L MAKOVSKY | 10/26/01 |
| CHK | V.STEFFEN | 10/26/01 |
| DEPT | | |
| PE | | 11/13/01 |
| PJ | R.G. Dean | 11/13/01 |
| REQ | | |
| UTB | | 11/13/01 |

RPE
VICTOR C. STEFFEN REGISTERED ENGINEER No. 00106009 STATE OF TENNESSEE
0 10-26-01
REV. DATE
DRAWING APPROVALS

| REV | CHANGE TYPE | CHANGE CONTROL SYSTEM | CHANGE REQUEST NUMBER | DESCRIPTION | DSN | CHK | DEPT | DATE | PE | DATE | PJ | DATE | REQ | DATE | UTB | DATE | RPE | RPE NO | DATE | ST | CV | EC | EE | EM | IE | M | PD | SE | AR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | CERTIFIED FOR CONSTRUCTION – 10/26/01 | HG | VGS | | 11/13/01 | | 11/13/01 | RDD | 11/13/01 | | | | 11/13/01 | VGS | 00106009 | 10/26/01 | REW | – | WRS | AK | WRS | BWJ | – | MP | – | ED |

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

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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 3
ENGINEERING PROCEDURE SNS-ENG-0001

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