
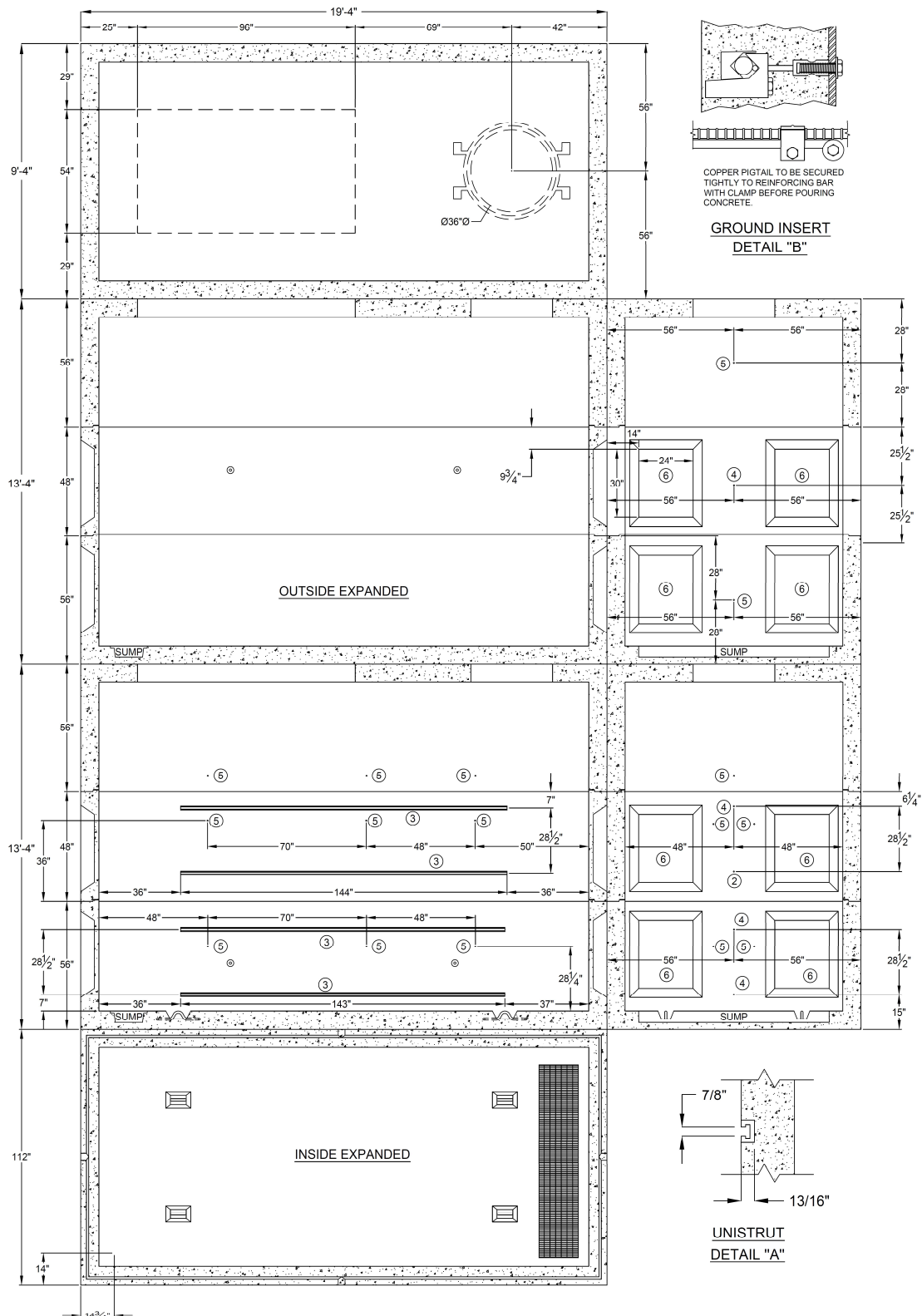


Designers: Maximum conductor information is given in CAB09U, Volume 5.

| STK#    | DESCRIPTION    |
|---------|----------------|
| 24-0002 | LID B          |
| 24-1215 | 5" LID B -1    |
| 24-0742 | 3" GRADE RING  |
| 24-0744 | 6" GRADE RING  |
| 24-0746 | 12" GRADE RING |
| 24-0739 | 12" RISER      |
| 24-1065 | 818 VAULT      |

|   |      |       |       |  |  |             |
|---|------|-------|-------|--|--|-------------|
|  |      |       |       | Volume 17: Electric Service Requirements       |  | VB0095U     |
|   |      |       |       | 818 Vault Concrete Primary 8' X 18' X 12' I.D. |  |             |
| Drawn:  | Eng: | Appr: | Date: |  |  | Revision: 6 |
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**EXPANDED VIEWS**

Volume 17: Electric Service Requirements

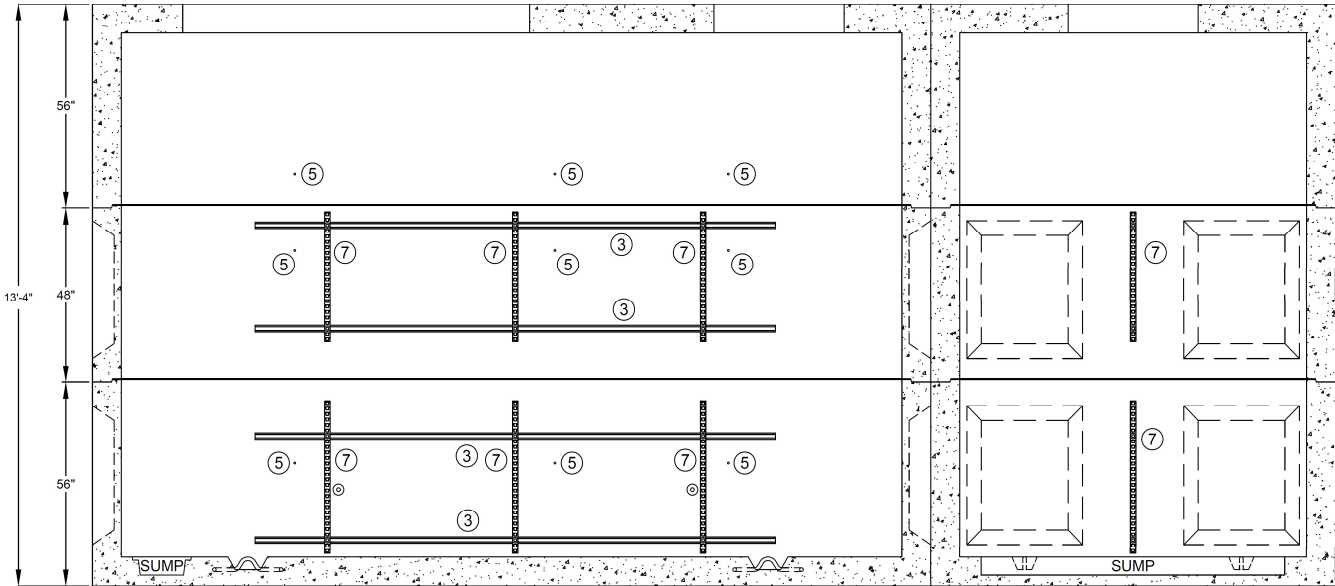
**818 Vault Concrete Primary 8' X 18' X 12' I.D.**

VB0095U

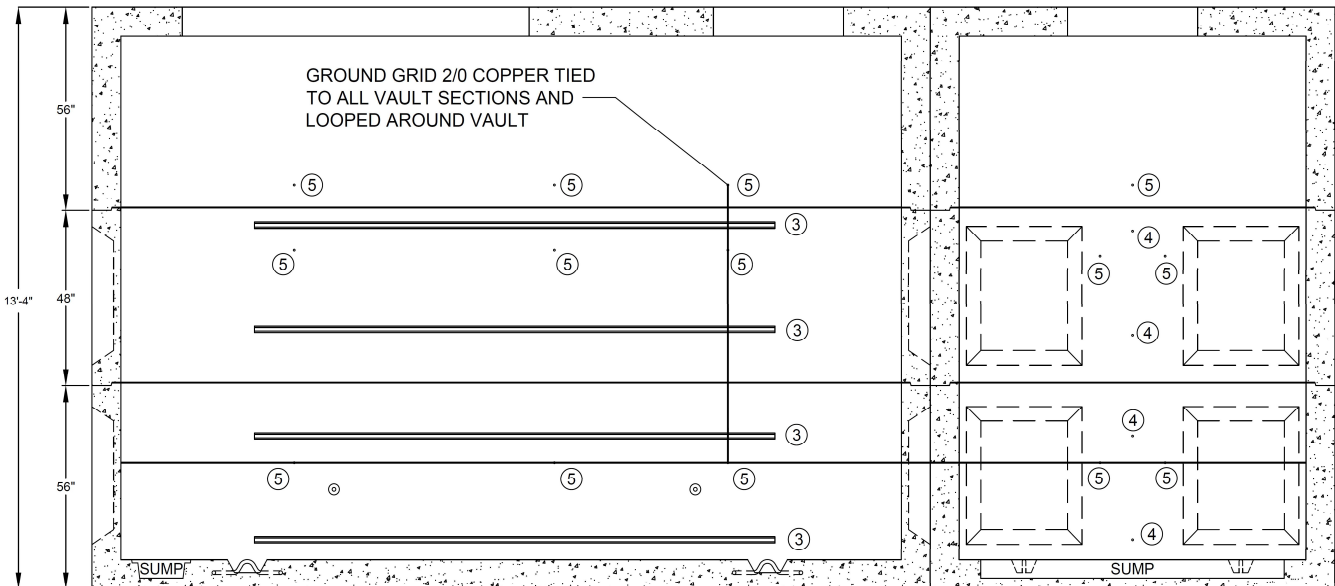
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| PR     | NP   | HW    | 3/25  |

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**GROUNDING GRID INSTALLATION DETAIL**



INSIDE EXPANDED SIDE & END WALL  
RACK APPLICATIONS WITH ARMS



INSIDE EXPANDED SIDE WALL  
GROUNDING APPLICATIONS AND INSERTS


**Equipment installation grounding grid:**

Install 62' of 2/0 copper ground grid. Tie to all sections and loop through 12 grounding lugs attached to 1/2" grounding inserts around vault and bus to transformer, switch, concentric neutral, J-bar or bracket.

| Material List Supplied by Vault Manufacturer |   |     |
|--|---|-----|
|  | Description                             | QTY |
| 1  | Pulling Iron 2 Per Corner               | 8   |
| 2  | 12" X 84" Sump W/Grate 2 Sections       | 1   |
| 3  | 12' Long Unistrut Side Walls            | 8   |
| 4  | 1/2" Racking Insert                     | 8   |
| 5  | 1/2" Grounding Insert, 28 Inside        | 34  |
| 6  | 24" X 30" Knockout                      | 8   |
| 7  | 24-Hole Rack (35 3/4" Long) Extension   | 8   |
|  | 28-Hole Rack (41 3/4" Long) Base        | 8   |
| 9  | Spring Nut                              | 24  |
| 10   | 1/2 X 1 1/2" Bolt                       | 33  |
| 11   | 1/2" Washer                             | 34  |
| 12   | 1/2" Brass Ground Washer, 1 Top Outside | 1   |
| 13   | 15" Cable steps                         | 16  |
| 14   | Ladder Up                               | 1   |
| 15   | Ladder                                  | 1   |

**818 VAULT CONSTRUCTION NOTES:**

- Vault to be used for H-20 traffic design loading. All live loads shall be for HS-20-44 (MS-18) as per AASHTO Standard Specification. Note: A minimum of 12" of vault cover is required.
- Vault excavation and backfill to conform to NVE Specification SUB01X.
- Butyl rubber or neoprene gasket seal required between vault sections and/or extensions.
- Extensions and risers will be installed on all vaults.
- Uni-strut and 1/2" inserts will be cast into vault. (See Details A/B).
- Lids to be marked "NVE ELECTRIC".
- All weights to be clearly marked.
- Grounding: See expanded view for grounding applications and inserts.
- 2/0 CU (# 17-0910) grounding grid is required in this vault.
- Ladder and ladder-up required, See NVE Standard VB0105U.
- Middle section is optional.
- Delivery of this vault requires coordination with the vault manufacturer.
- A 12" width by 8" diameter concrete collar to be poured around all manholes.
- See VB0105U for further details on lid B-1.
- Equipment access cover supplied with vault.

|   |      |       |       |   |  |             |
|---|------|-------|-------|---|--|-------------|
|  |      |       |       | Volume 17: Electric Service Requirements              |  | VB0095U     |
|   |      |       |       | <b>818 Vault Concrete Primary 8' X 18' X 12' I.D.</b> |  |             |
| Drawn:  | Eng: | Appr: | Date: |   |  | Revision: 6 |
| PR  | NP   | HW    | 3/25  |   |  | Page 4 of 4 |