

Vaults and Boxes

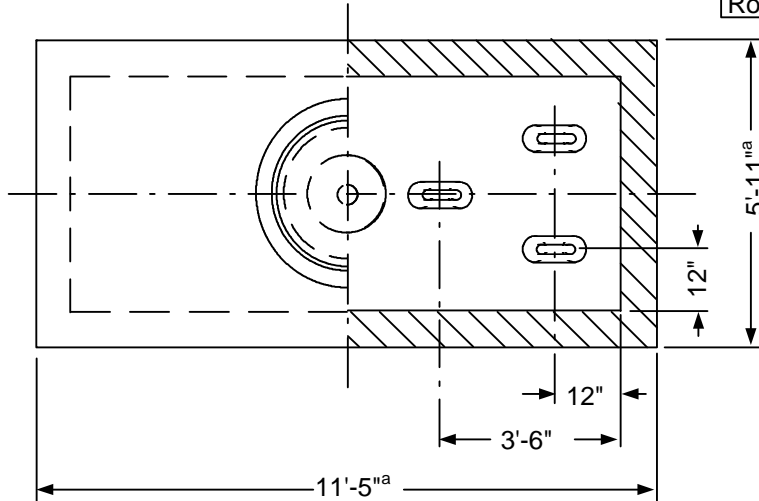
DESIGN REQUIREMENTS

TOLERANCES:

a = +1", -1"

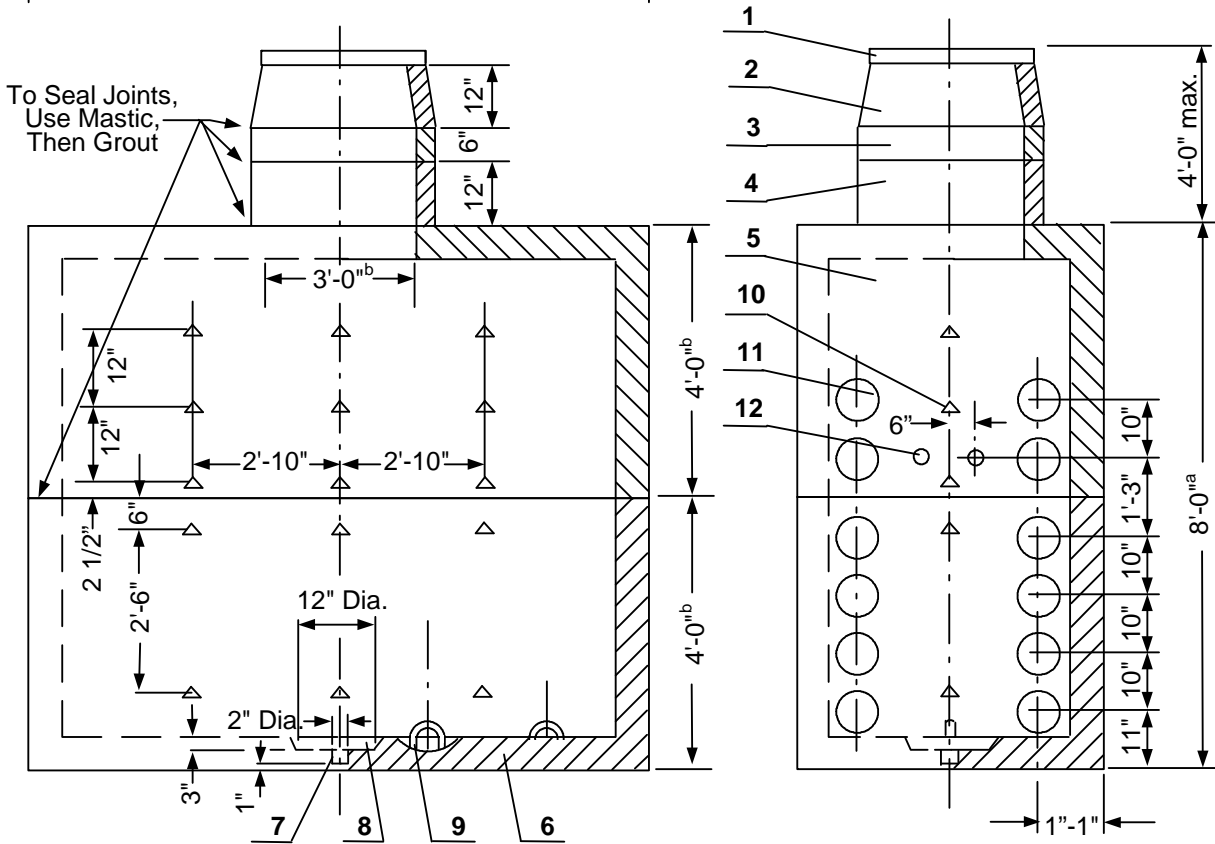
b = +1/2", -1/2"

APPROVED STRUCTURE	
MANUFACTURER	MANHOLE
Jensen Precast	J-RS-94
Rockway Precast	R-RS-94



LEGEND:

1. Traffic lid & ring
2. Cone neck
3. Extension neck
4. Bottom neck
5. Top section
6. Bottom section
7. Molded knockout
8. Sump pump recess
9. Pulling eye
10. 1/2"-13 UNC grounding inserts
11. 6" conduit terminator
12. 1" PVC ground wire conduit



RS-94 MANHOLE

				Electric Service Requirements		RS-94
				Manhole: Feeder Cable Splice		
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1. The Ring and Lid

1. Shall be made in USA, according to D & L Supply, A-1106 drawing and meet AASHTO-H20.44 specification (traffic ring and lids not made in US require NVE approval).
2. Lid shall have a 1" diameter lifting hole (through the thickness of the lid) located 9" to 12" from the center of the lid.
3. Lid shall have the word "ELECTRIC" in 1" letters, embossed in the top.
4. Lid shall be safely fastened to the ring with four 1/2"-13 UNC pentahead bolts.
5. Lid shall have a brass I.D. plate with dimensions of 2.5" diameter x .25" thick (level with the top of the lid) fastened to the lid. For location see RS-97.

2. Neck Tunnel

1. A 30" diameter cast traffic frame centered and mounted on the top of the 12" high cone neck.
2. 6" extension neck.
3. 12" high bottom neck.

3. Top Section

1. Nine 1/2" grounding insert nuts in each side wall and three steel insert nut in each end wall.
2. A 1" diameter PVC conduit through the end walls.
3. Four 6" diameter PVC conduit terminators through the end walls.
4. 60" (W) x 126 (L) x 42" (H) inside dimensions with tolerances of $\pm 1"$.
5. Three 18" steel racks installed on each side wall and one on each end wall.

4. Bottom Section


1. Six 1/2" grounding insert nuts in each side wall and two steel insert nuts in each end wall, located on two levels per drawing on page 1.
2. Six steel pulling eyes in the floor shall be hot dip galvanized.
3. A 12" diameter x 3" deep sump pump recess with a 2" diameter knockout in the middle of the floor.
4. Eight 6" diameter PVC conduit terminators through each end wall.
5. 60" (W) x 126 (L) x 42" (H) inside dimensions with tolerances of $\pm 1"$.
6. Three 40" steel racks installed on each side wall and one on each end wall.

5. Entire Structure

1. Shall meet RS-G2 and RS-G4
NOTE: Only this manhole may be installed directly under street traffic area.

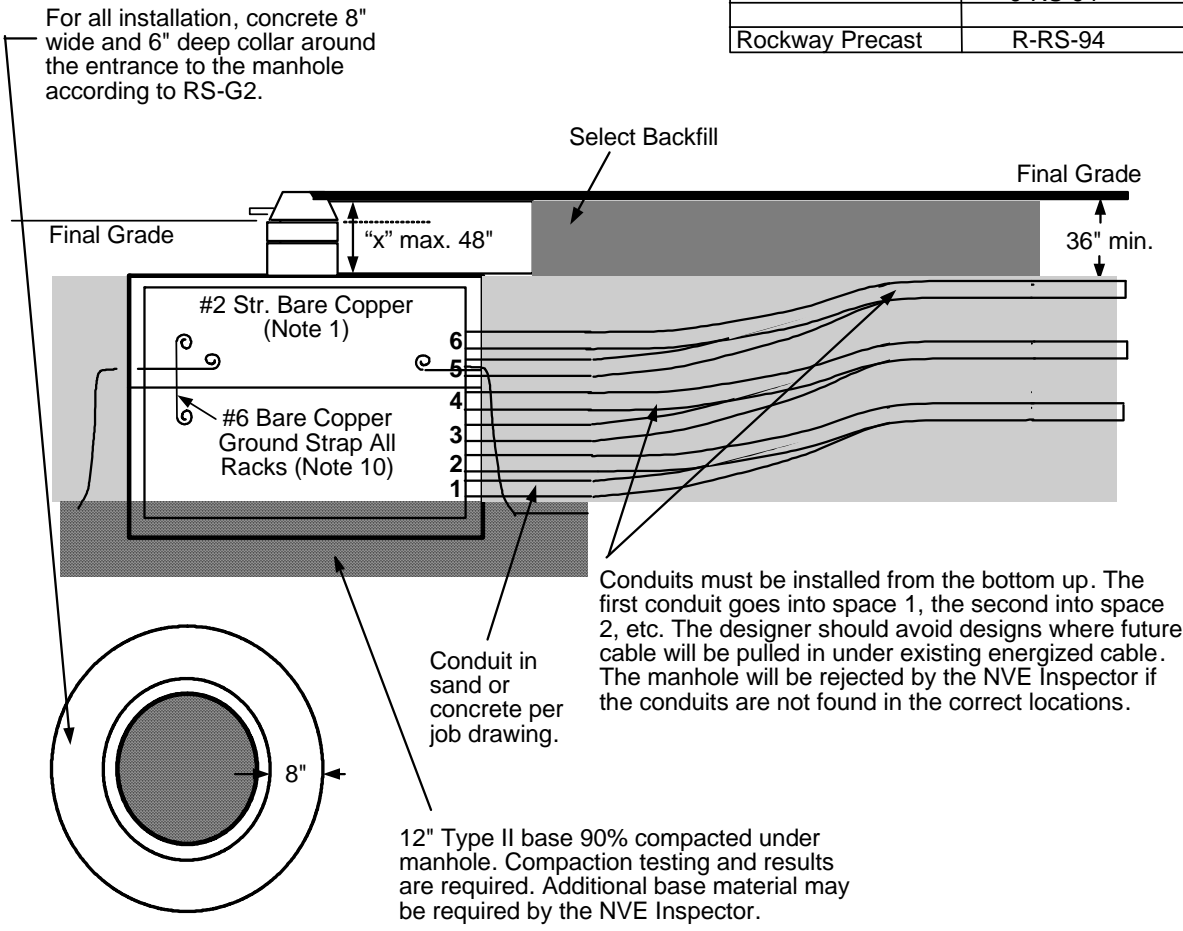
6. Grounding

1. Manholes shall have grounding inserts on all walls around the inside perimeter as shown on Page 1. The inserts shall be spaced in accordance with this specification drawing. Inserts to be attached to the internal manhole rebar by spot welding or approved connector. The insert shall accept 1/2" American Standard thread. Continuity between all inserts installed in the manhole sections shall be checked and verified prior to shipping by manufacturer/supplier.

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INSTALLATION REQUIREMENTS

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NOTES:

1. Grounding by customer shall be 2-50' #2 stranded bare copper ground wires laid in the bottom of the conduit trench in opposite directions with 2-5' trails left in the box. Ground wires shall be installed through a 1" PVC conduit in the structures end walls and attached to the 2/0 copper grounding bus.
2. The bottom surface of the manhole shall be level.
3. If the ground water level is at least 3' below the bottom of the splice box, the 2" diameter knockout in the sump pump recess shall be removed.
4. If the designer specifies additional conduit openings, the contractor shall core drill the holes as required.
5. NVE lineman shall stamp (impress) the UGM Identification Number into the brass I.D. plate.
6. If any final grade adjustment "X" is needed, take the following action:
 - A. 15" - 48": The NVE contractor shall order up to 48" high neck sections from the original manufacturer.

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- B. Above 48": Raise the entire box. No neck extensions shall exceed 48".
- 7. Extensions between the top and bottom sections of the box will not be allowed.
- 8. This manhole shall be used if installation is required directly under street traffic area.
- 9. There shall be a minimum 6' clearance from the RS-94 box to the centerline of a fire hydrant.
- 10. In water, planter, or grassy areas, final grade to be 6" below the top of entrance to the manhole.
- 11. NVE lineman shall install #6 bare copper to upper and lower steel racks to bond top and bottom box sections.

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