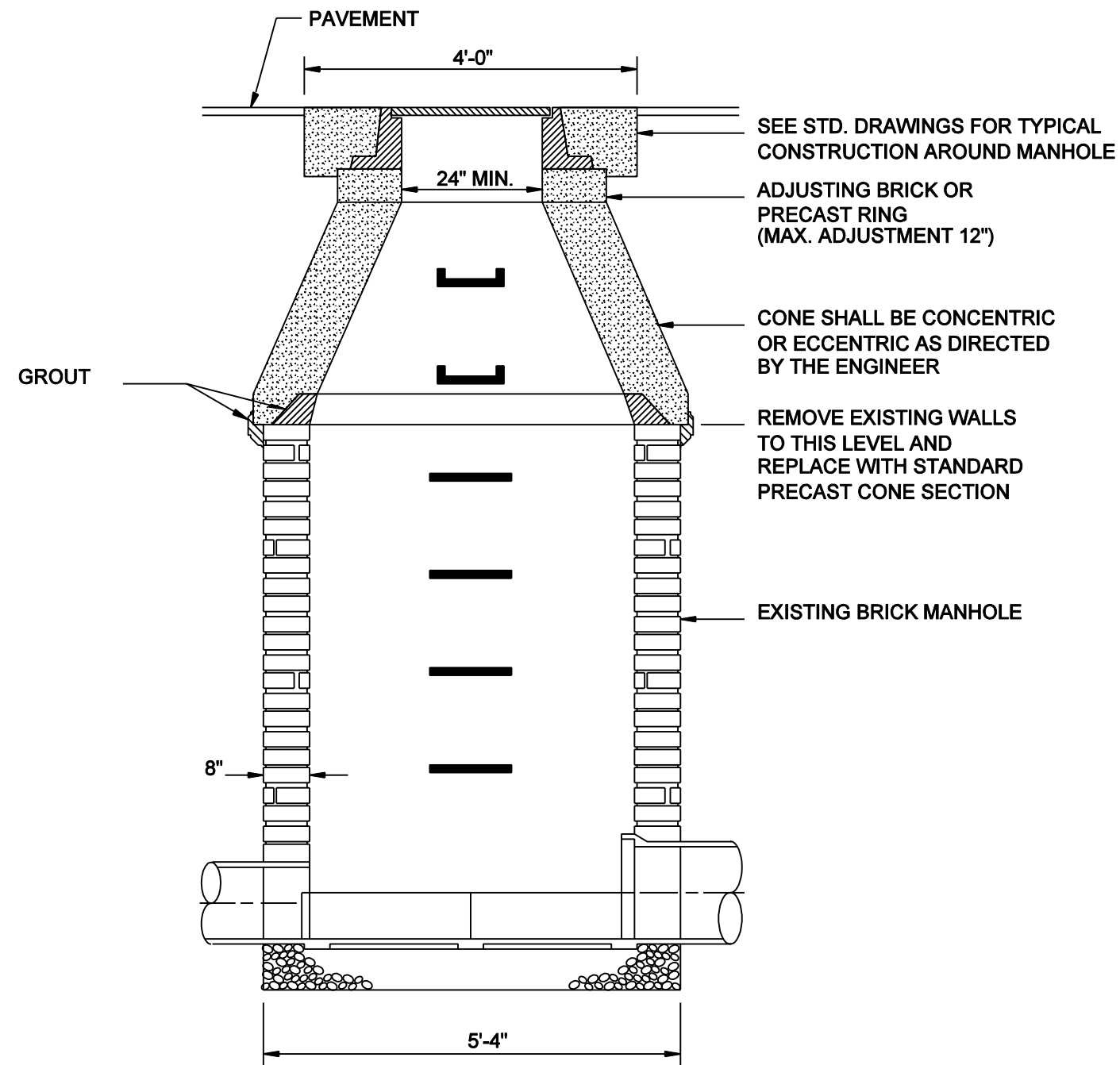
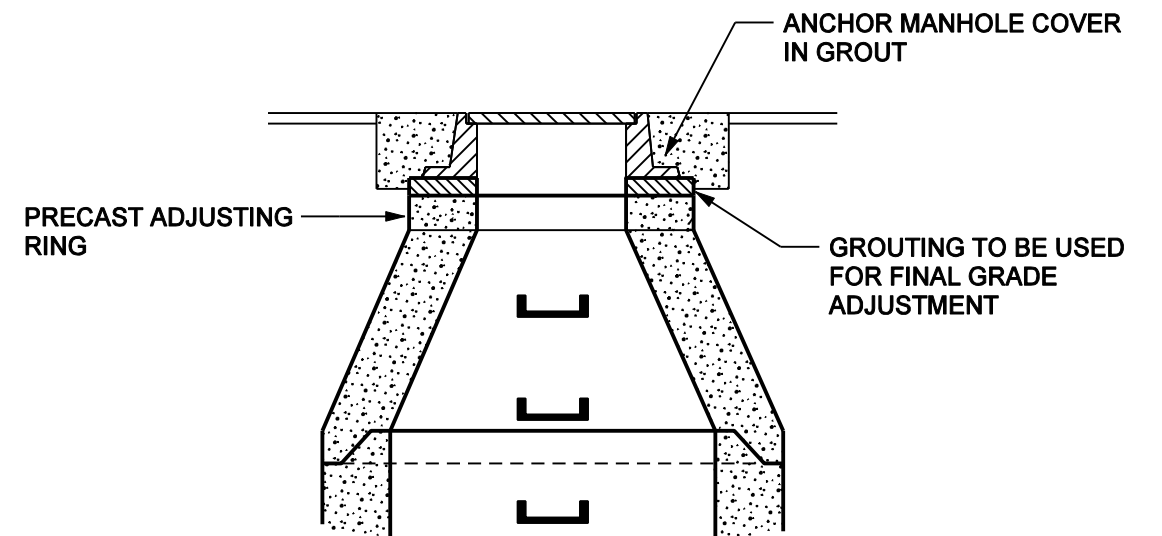




**TYPICAL CONSTRUCTION - REBUILDING  
MANHOLE CONE SECTION**



### GROUTING MANHOLE COVERS

**NOTES:**

STORM SEWER JOINTS - BOTH THE TONGUE AND GROOVE SHALL BE CLEANED AND COATED WITH AN APPROVED BITUMINOUS JOINT MATERIAL.

ALL TRENCHES ARE TO HAVE ALL GRAVEL BACKFILL UNDER AND WITHIN 1.0 FOOT OF ALL PAVING, DRIVEWAYS, ALLEYS, AND SIDEWALKS.

STORM SEWERS AND/OR PIPE CULVERTS SHALL BE OF REINFORCED CONCRETE, HDPE OR PVC UNLESS OTHERWISE APPROVED BY THE ENGINEER.

| PIPE TYPE | BEDDING         | OFF-ROAD BACKFILL | MIN. COVER |
|-----------|-----------------|-------------------|------------|
| RCP       | 4" BELOW BOTTOM | 4" ABOVE TOP      | 1'         |
| HDPE, PVC | 6" BELOW BOTTOM | 6" ABOVE TOP      | 2'         |