



ARPIAN Consulting Engineers

**GENERAL NOTES:**

1. SPRING BOX DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C913 SPECIFICATIONS FOR "PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES" AND NCDOT.
2. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI MINIMUM.
3. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C890 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER AND WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
4. ADDITIONAL REINFORCING AT OPENINGS.
5. DESIGNED FOR H-20-44 LOADING.
6. STEPS NOT REQUIRED.
7. TOTAL HEIGHT PER JOB REQUIREMENTS.
8. OPENING TO BE AS PER JOB REQUIREMENTS.
9. NCDOT APPROVED HANDLES.
10. JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS, OR BOTH.

**2'-0" x 2'-0" SPRING BOX  
NCDOT STANDARD 840.41**