



**DESIGN NOTES:**

1. CONCRETE - 4000 PSI, 28 DAYS
2. REINFORCING STEEL CONFORMS TO LATEST ASTM A615 AND A82 OR A185 SPECS.
3. MANHOLE DESIGN SPECS. CONFORM TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS"
4. H-20 DESIGN LOADING PER AASHTO HS-20-44
5. BUTYL RUBBER JOINT SEALANT CONFORMS TO LATEST ASTM C990-91 SPEC., FED SPEC. SS-S-210 (210A), AND AASHTO M-198B
6. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP CONFORMS TO LATEST ASTM C478 SPEC.
7. PIPE OPENING SIZED FOR FLEXIBLE PIPE SLEEVE OR NON-SHRINK GROUT AS REQUIRED
8. EXTERIOR COATING WHEN SPECIFIED

**NOTE:**

AVAILABLE IN 24", 30", AND 36" OPENING. [24" SHOWN]

ANY MODIFICATIONS TO THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF ARROW CONCRETE PRODUCTS SHALL RENDER IT INVALID AND UNUSABLE.

**ARROW**  
Concrete Products  
PROGRESS IN PRECAST  
www.arrow-concrete.com

96" DIA SEWER MANHOLE  
NON-EXTENDED

**SMH - 96**

|        |         |
|--------|---------|
| SCALE: | 1"=30"  |
| DATE:  | 5/19/09 |
| DRAWN: | JPW     |
| DWG #  | -       |

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