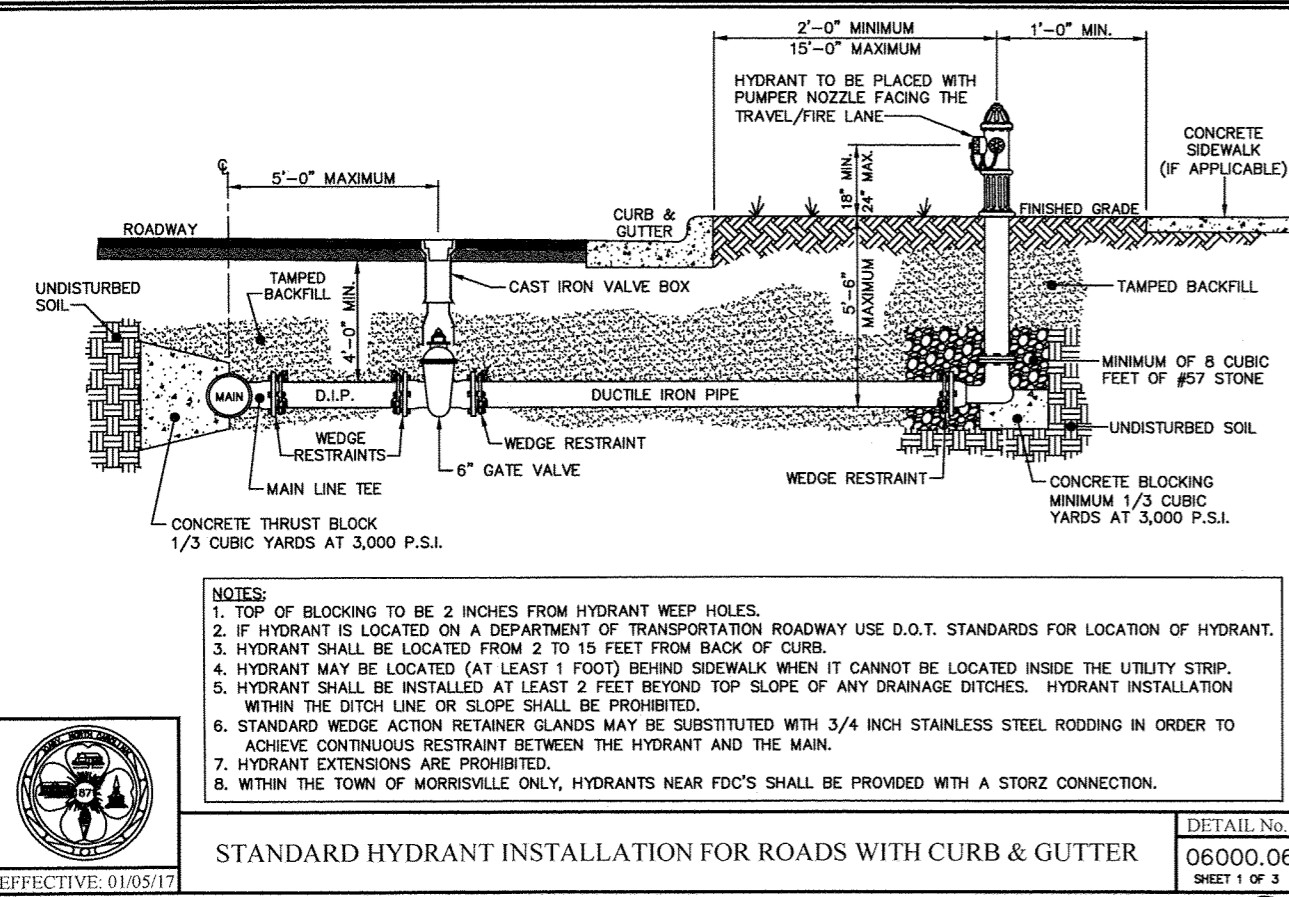
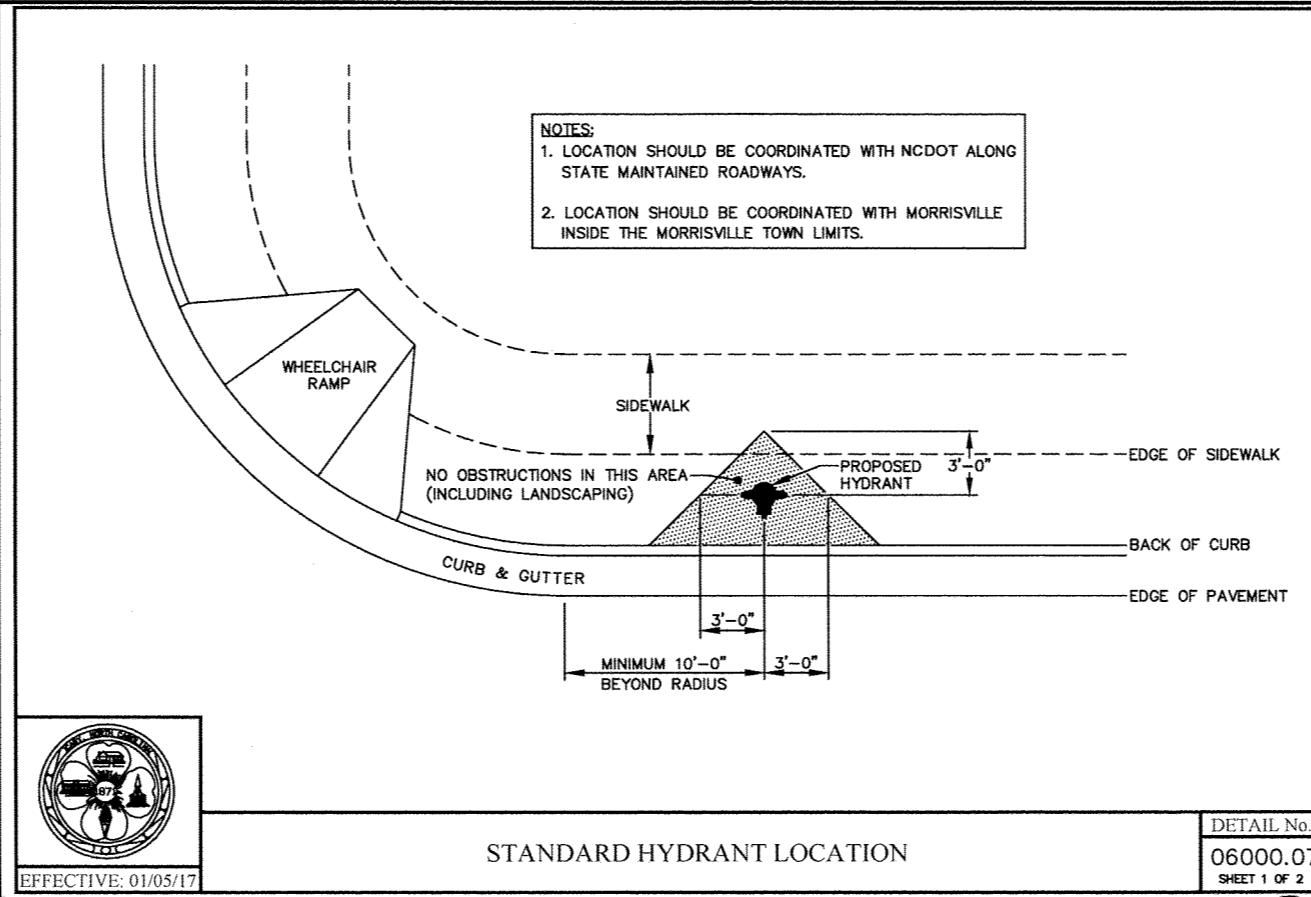


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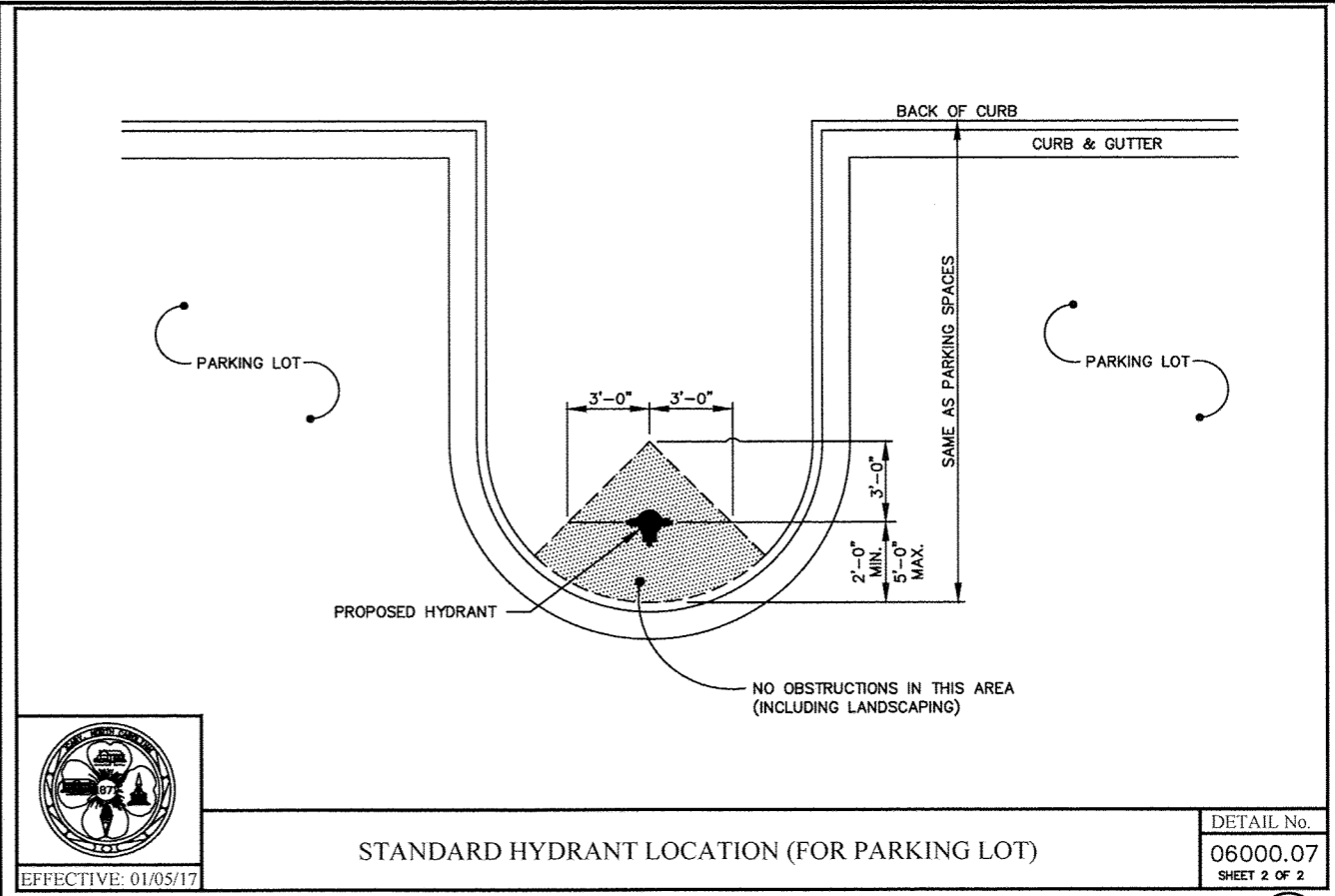
- NOTES:**
1. TOP OF BLOCKING TO BE 2 INCHES FROM HYDRANT WEEP HOLES.
  2. IF HYDRANT IS LOCATED ON A DEPARTMENT OF TRANSPORTATION ROADWAY USE D.O.T. STANDARDS FOR LOCATION OF HYDRANT.
  3. HYDRANT SHALL BE LOCATED FROM 2 TO 15 FEET FROM BACK OF CURB.
  4. HYDRANT MAY BE LOCATED (AT LEAST 1 FOOT) BEHIND SIDEWALK WHEN IT CANNOT BE LOCATED INSIDE THE UTILITY STRIP.
  5. HYDRANT SHALL BE INSTALLED AT LEAST 2 FEET BEYOND TOP SLOPE OF ANY DRAINAGE DITCHES. HYDRANT INSTALLATION WITHIN THE DITCH LINE OR SLOPE SHALL BE PROHIBITED.
  6. STANDARD WEDGE ACTION RETAINER GLANDS MAY BE SUBSTITUTED WITH 3/4 INCH STAINLESS STEEL RODDING IN ORDER TO ACHIEVE CONTINUOUS RESTRAINT BETWEEN THE HYDRANT AND THE MAIN.
  7. HYDRANT EXTENSIONS ARE PROHIBITED.
  8. WITHIN THE TOWN OF MORRISVILLE ONLY, HYDRANTS NEAR FDC'S SHALL BE PROVIDED WITH A STORZ CONNECTION.

STANDARD HYDRANT INSTALLATION FOR ROADS WITH CURB & GUTTER  
 DETAIL No. 06000.06  
 SHEET 1 OF 3  
 EFFECTIVE: 01/05/17

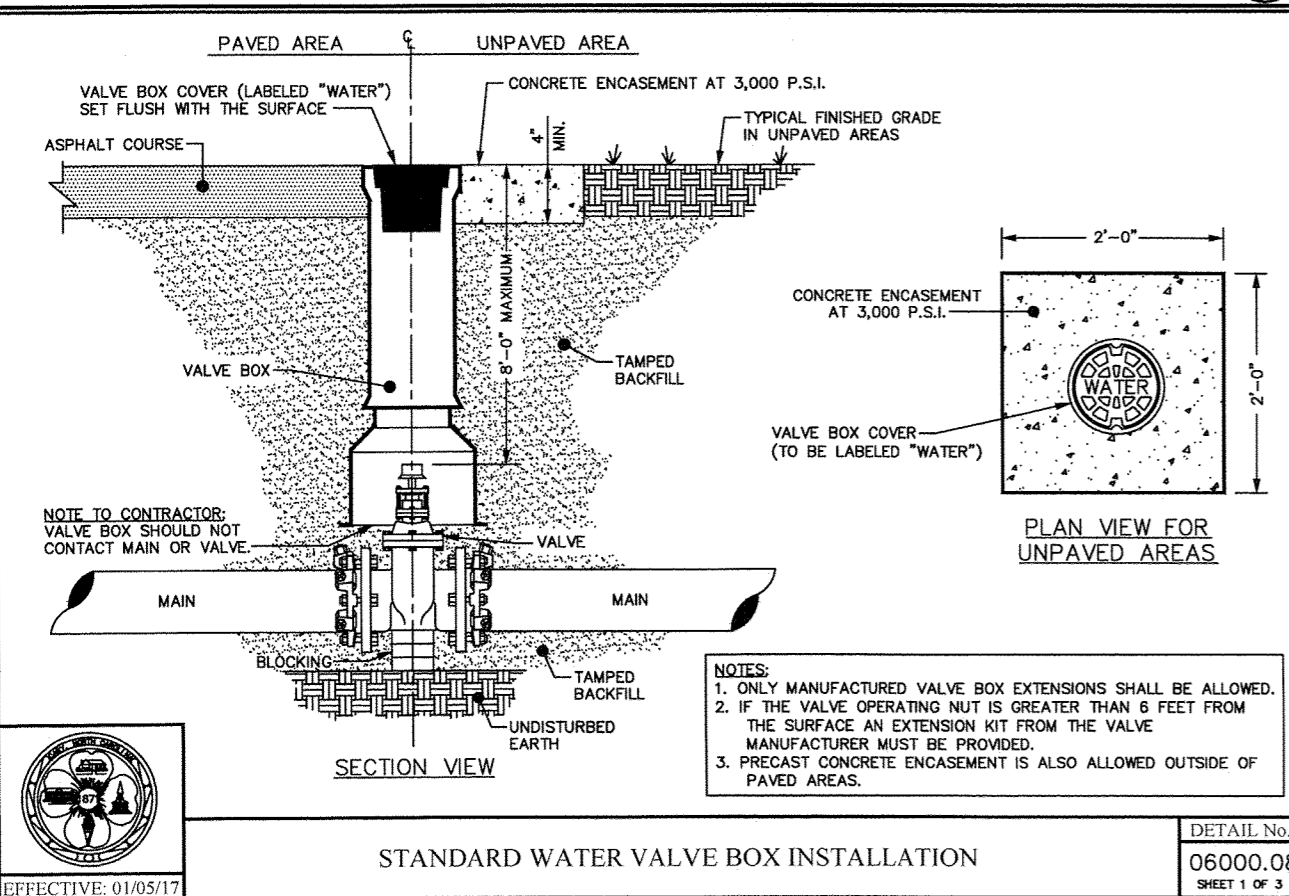


- NOTES:**
1. LOCATION SHOULD BE COORDINATED WITH NCDOT ALONG STATE MAINTAINED ROADWAYS.
  2. LOCATION SHOULD BE COORDINATED WITH MORRISVILLE INSIDE THE MORRISVILLE TOWN LIMITS.

STANDARD HYDRANT LOCATION  
 DETAIL No. 06000.07  
 SHEET 1 OF 2  
 EFFECTIVE: 01/05/17

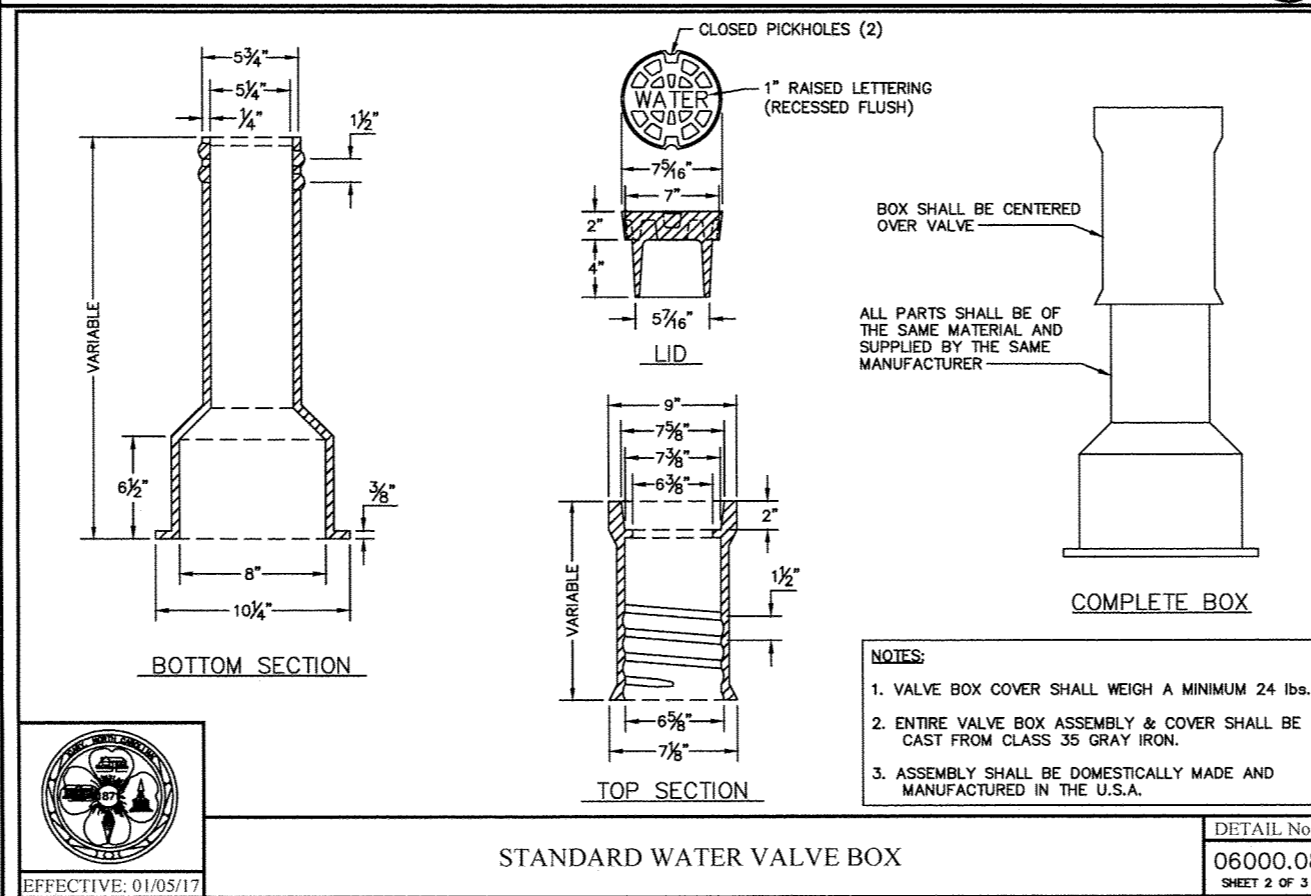


STANDARD HYDRANT LOCATION (FOR PARKING LOT)  
 DETAIL No. 06000.07  
 SHEET 2 OF 2  
 EFFECTIVE: 01/05/17



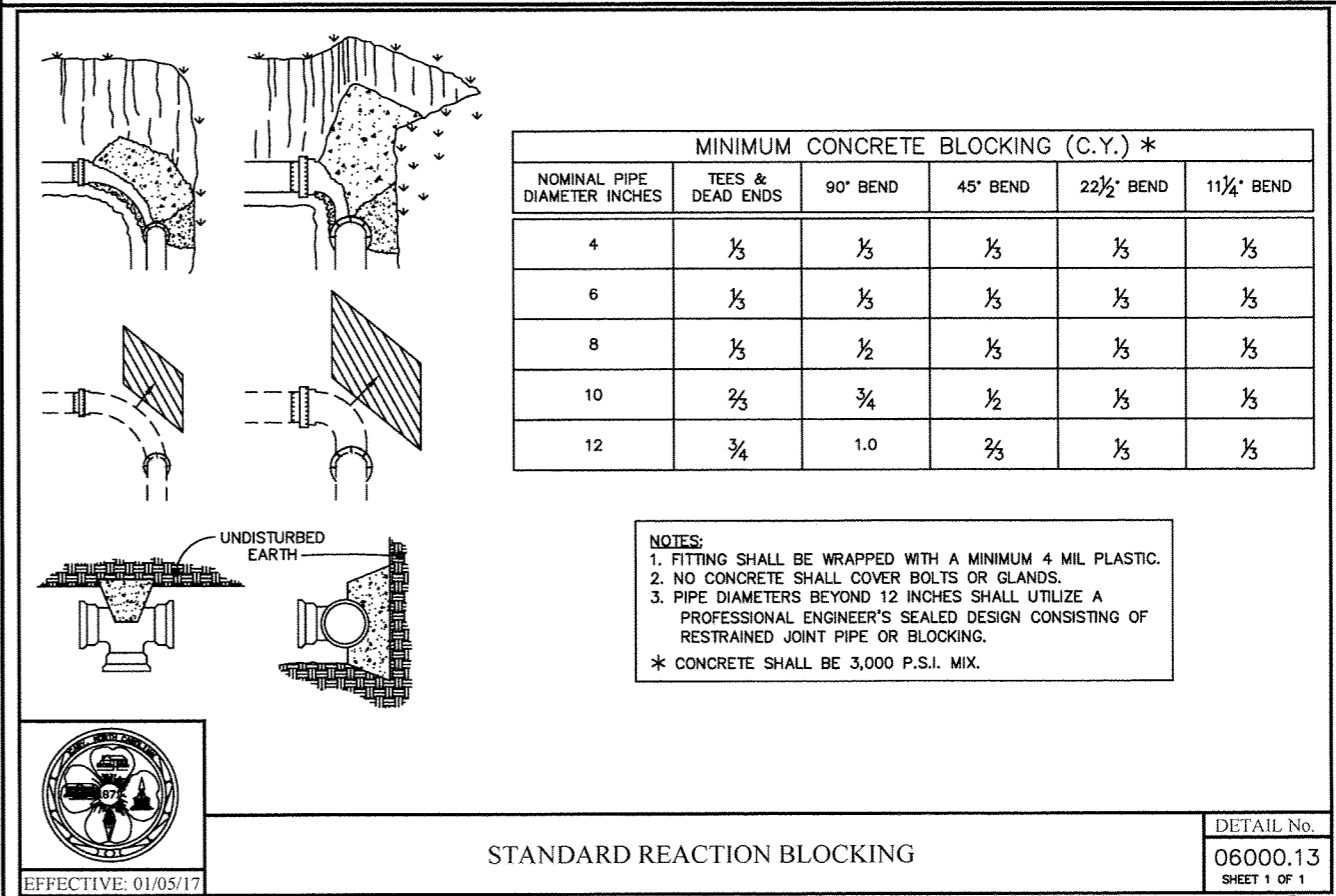
- NOTE TO CONTRACTOR:**  
 VALVE BOX SHOULD NOT CONTACT MAIN OR VALVE.
- NOTES:**
1. ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
  2. IF THE VALVE OPERATING NUT IS GREATER THAN 6 FEET FROM THE SURFACE AN EXTENSION KIT FROM THE VALVE MANUFACTURER MUST BE PROVIDED.
  3. PRECAST CONCRETE ENCASMENT IS ALSO ALLOWED OUTSIDE OF PAVED AREAS.

STANDARD WATER VALVE BOX INSTALLATION  
 DETAIL No. 06000.08  
 SHEET 1 OF 3  
 EFFECTIVE: 01/05/17

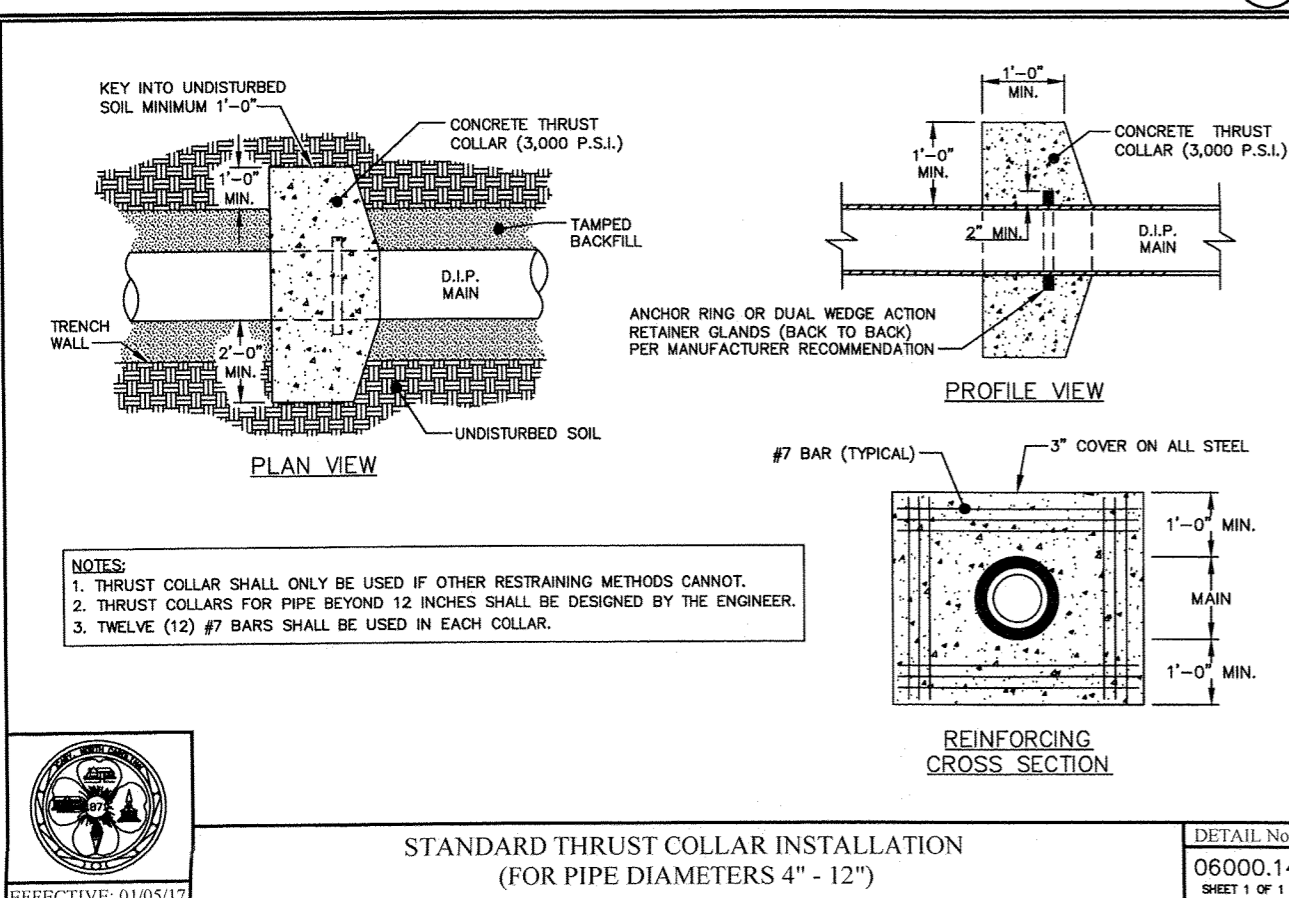


- NOTES:**
1. VALVE BOX COVER SHALL WEIGH A MINIMUM 24 LBS.
  2. ENTIRE VALVE BOX ASSEMBLY & COVER SHALL BE CAST FROM CLASS 35 GRAY IRON.
  3. ASSEMBLY SHALL BE DOMESTICALLY MADE AND MANUFACTURED IN THE U.S.A.

STANDARD WATER VALVE BOX  
 DETAIL No. 06000.08  
 SHEET 2 OF 3  
 EFFECTIVE: 01/05/17

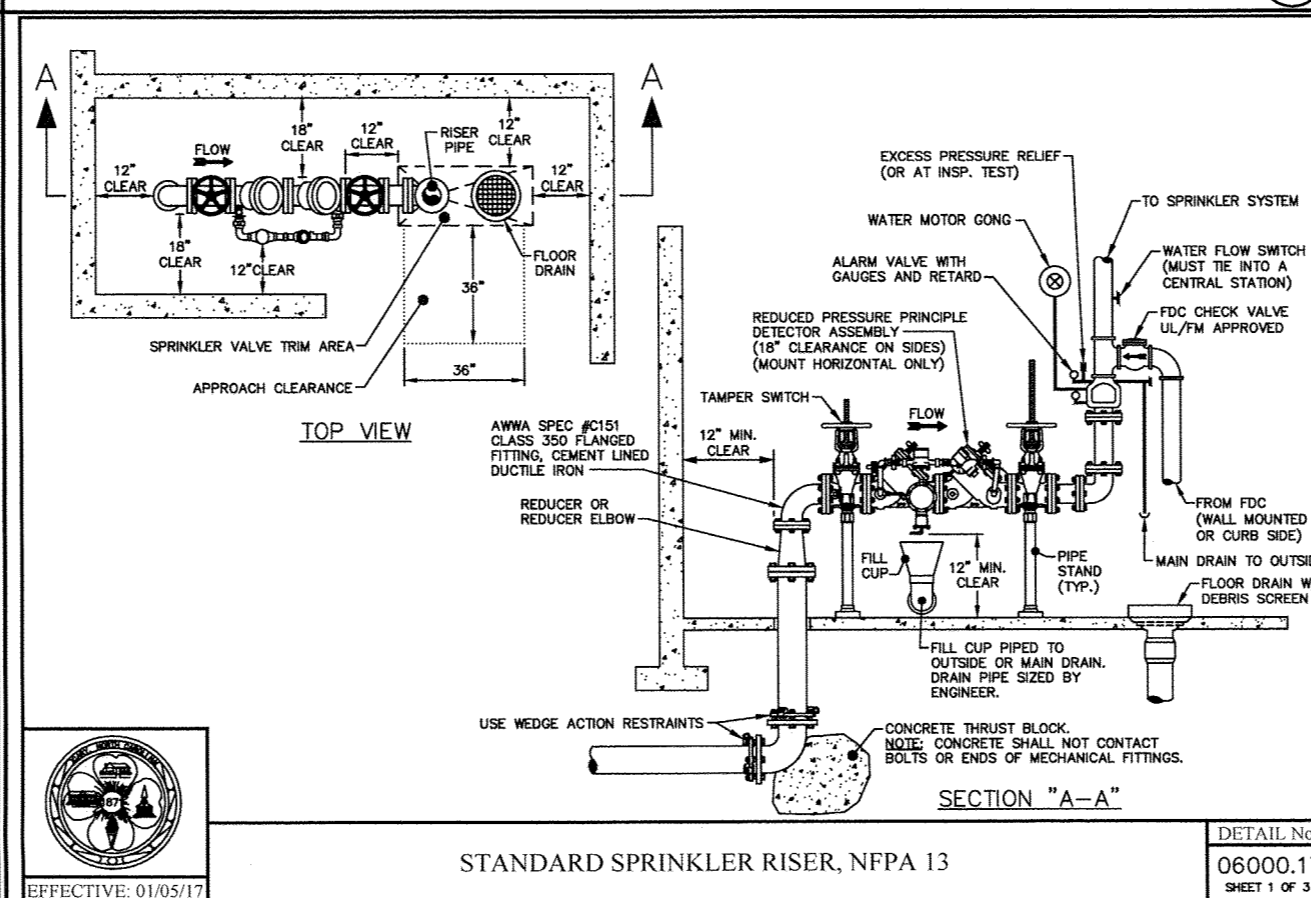


STANDARD REACTION BLOCKING  
 DETAIL No. 06000.13  
 SHEET 1 OF 1  
 EFFECTIVE: 01/05/17

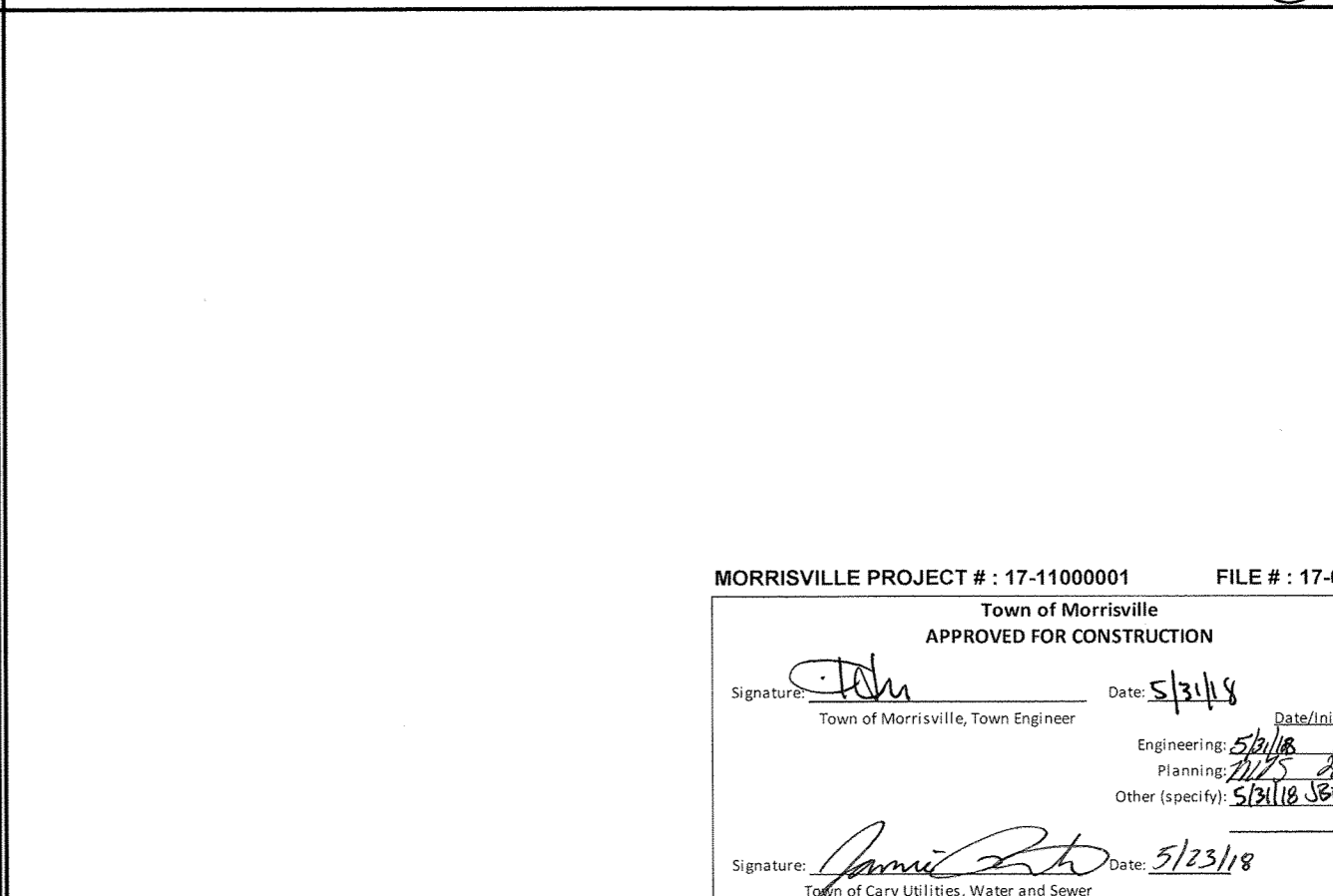


- NOTES:**
1. THRUST COLLAR SHALL ONLY BE USED IF OTHER RESTRAINING METHODS CANNOT.
  2. THRUST COLLARS FOR PIPE BEYOND 12 INCHES SHALL BE DESIGNED BY THE ENGINEER.
  3. TWELVE (12) #7 BARS SHALL BE USED IN EACH COLLAR.

STANDARD THRUST COLLAR INSTALLATION (FOR PIPE DIAMETERS 4" - 12")  
 DETAIL No. 06000.14  
 SHEET 1 OF 1  
 EFFECTIVE: 01/05/17



STANDARD SPRINKLER RISER, NFPA 13  
 DETAIL No. 06000.17  
 SHEET 1 OF 3  
 EFFECTIVE: 01/05/17



MORRISVILLE PROJECT #: 17-11000001 FILE #: 17-0001-S/C

Town of Morrisville  
 APPROVED FOR CONSTRUCTION

Signature: *[Signature]* Date: 5/31/18  
 Town of Morrisville, Town Engineer

Signature: *[Signature]* Date: 5/23/18  
 Town of Cary Utilities, Water and Sewer

Engineering: 5/31/18  
 Planning: 5/23/18  
 Other (specify): 5/31/18

No.	DATE	REVISION

PROJECT No: 075356  
 DATE: 01/24/17  
 DES: JG  
 DR: JL  
 CKD: TR

11301 Carmel Commons Blvd.  
 Suite 300  
 Charlotte, NC 28226  
 704.525.6284  
 FAX: 704.525.8529

**WOOLPERT**  
 ARCHITECTURE | ENGINEERING | INTERIOR

**SITE IMPROVEMENT PLANS**  
**WATERWALK MORRISVILLE**  
 1012 & 1016 LOWER SHILOH WAY  
 MORRISVILLE, NORTH CAROLINA

**WATER DETAILS**

SHEET NO. **C804**

01/18/18 REVISED FOR FINAL APPROVAL