

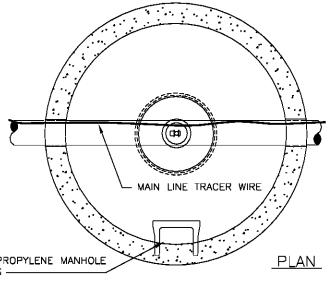
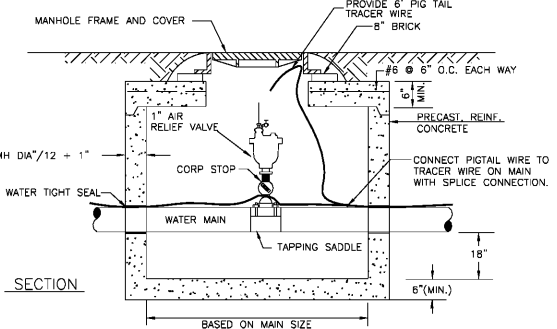
- NOTES:**
1. MANHOLE FRAME AND COVER PER DETAIL W27.
  2. THE BOTTOM OF THE MANHOLE FRAME SHALL NOT BE MORE THAN 12" ABOVE THE TOP OF THE MANHOLE STRUCTURE.
  3. PRECAST CONCENTRIC CONE RISERS MAY BE USED WHERE REQUIRED FOR DEPTH.
  4. THE MANHOLE FRAME AND COVER MUST BE CENTERED OVER THE VALVE OPERATING NUT.
  5. POLYPROPYLENE MANHOLE STEPS SHALL BE PROVIDED AT 12" O.C. FOR MANHOLES GREATER THAN 5 FEET DEEP.
  6. CONNECT TO EXIST TRACER WIRE WITH SPLICE CONNECTION.
  7. TAPPING SLEEVE AND VALVE PER DETAIL W24.

VALVE MANHOLE FOR 4"-8" TAPPING SLEEVES & VALVES

STANDARD CONSTRUCTION DETAILS



SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: W25C



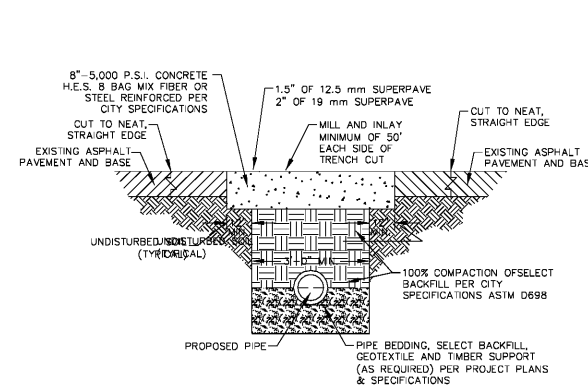
- NOTES:**
1. MANHOLE FRAME AND COVER PER DETAIL W27.
  2. THE BOTTOM OF THE MANHOLE FRAME SHALL NOT BE MORE THAN 12" ABOVE THE TOP OF THE MANHOLE STRUCTURE.
  3. PRECAST CONCENTRIC CONE RISERS MAY BE USED WHERE REQUIRED FOR DEPTH.
  4. THE MANHOLE FRAME AND COVER MUST BE CENTERED OVER THE VALVE.
  5. POLYPROPYLENE MANHOLE STEPS SHALL BE PROVIDED AT 12" O.C. FOR MANHOLES GREATER THAN 5 FEET DEEP.
  6. THE AIR RELIEF VALVE SHALL BE SIZED IN ACCORDANCE WITH THE DESIGN REQUIREMENTS.

1" AIR RELEASE VALVE INSTALLATION

STANDARD CONSTRUCTION DETAILS



SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: W40A

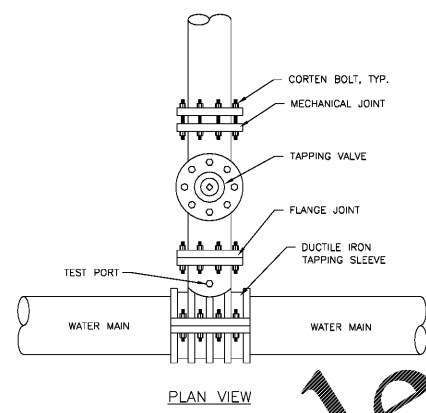


- NOTES:**
1. COMPACT BASE AND SUB-BASE TO 100% STANDARD (ASTM D698) PER SECTION 02200, PART 3.01B OF CITY TECHNICAL SPECIFICATIONS.
  2. CONCRETE IN THE ROW TO BE 5000PSI PER SECTION 03300, CHAPTER 3.2 AND REINFORCED WITH FIBERESH OR STEEL PER SECTION 3300, CHAPTER 5 OF CITY TECHNICAL SPECIFICATIONS.
  3. ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HOUR MINIMUM).
  4. CONTRACTOR SHALL MILL AND INLAY BEYOND THE CUT LIMITS FOR THE FULL LANE WIDTH OR ROAD SURFACE, TO IMPROVE ROAD SMOOTHNESS AND APPEARANCE. THE MILL INLAY WILL EXTEND A MINIMUM OF 50' EACH SIDE OF THE REPAIR TRENCH OR REPAIR AREA AND WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT. PAVING WILL BE SPIN CUT TO A STRAIGHT EDGE AND THE ROADWAY WILL BE RESURFACED WITH A MINIMUM OF 12.5mm HOT ASPHALT SUPERPAVE.
  5. ALL STREET PATCHES MUST BE SQUARE OR RECTANGULAR WITH NEAT, STRAIGHT, SAW EDGES.
  6. CONTRACTOR SHALL REINSTALL ALL STRIPING, PAVEMENT MARKERS, SIGNAL LOOPS, ETC AFFECTED PAVEMENT REPLACEMENT ITEMS TO BE REINSTALLED SHALL BE IN ACCORDANCE WITH THE ORIGINAL DESIGN.

WATER, SEWER, AND STORM UTILITY ASPHALT PAVEMENT REPLACEMENT

SCALE: NONE

- NOTE:**
1. THE TAPPING SLEEVE AND VALVE MUST BE INSTALLED IN A MANHOLE. (SEE DETAILS W25C & W25D FOR THE MANHOLE DETAILS)

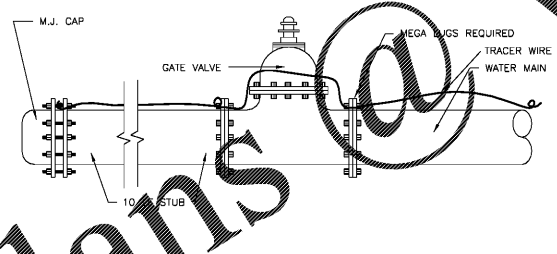


TYPICAL TAPPING SLEEVES & TAPPING VALVE

STANDARD CONSTRUCTION DETAILS



SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: W24



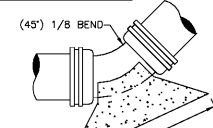
- NOTES:**
1. VALVES 4" AND LARGER SHALL BE INSTALLED IN A MANHOLE.
  2. VALVES SMALLER THAN 4" SHALL BE INSTALLED IN A VALVE BOX. SEE DETAIL W4.
  3. JOINTS SHALL BE RESTRAINED (MEGALUG OR EQUIVALENT).
  4. SEE DETAIL W32 FOR RESTRAINT REQUIREMENTS UPSTREAM OF THE VALVE.

TYPICAL LINE STUB

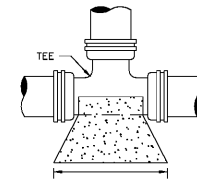
STANDARD CONSTRUCTION DETAILS



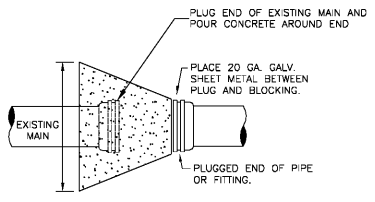
SCALE: N.T.S.  
DATED: JAN 2017  
PLATE NUMBER: W34



PIPE	AREA AGAINST UNDISTURBED SOIL
2"	2'-0" x 2'-0"
4"	2'-6" x 2'-6"
6"	3'-0" x 3'-0"
8"	4'-0" x 4'-0"
10"	5'-0" x 5'-0"
12"	6'-0" x 6'-0"
16"	7'-0" x 7'-0"
24"	11'-0" x 11'-0"

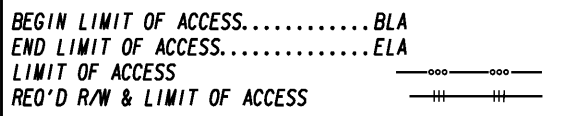
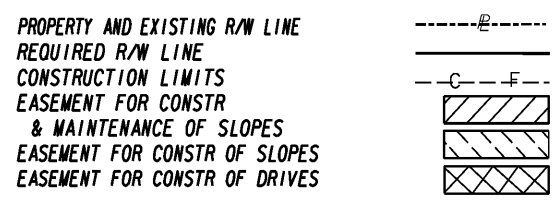


PIPE	AREA AGAINST UNDISTURBED SOIL
2"	2'-0" x 2'-0"
4"	2'-6" x 2'-6"
6"	3'-0" x 3'-0"
8"	4'-0" x 4'-0"
10"	5'-0" x 5'-0"
12"	6'-0" x 6'-0"
16"	7'-0" x 7'-0"
24"	11'-0" x 11'-0"



PIPE	AREA AGAINST UNDISTURBED SOIL
2"	2'-0" x 2'-0"
4"	2'-6" x 2'-6"
6"	3'-0" x 3'-0"
8"	4'-0" x 4'-0"
10"	5'-0" x 5'-0"
12"	6'-0" x 6'-0"
16"	7'-0" x 7'-0"
24"	11'-0" x 11'-0"

- NOTES:**
1. WHEN MECHANICAL JOINTS ARE USED PROTECT BOLTS AND THREADS FROM CONCRETE.
  2. THRUST BLOCKS ARE TO BE USED AT CONNECTIONS TO EXISTING WATER & FORCE MAINS AS INDICATED ON THE PLANS ONLY. ALL NEW PIPING SHALL USE RESTRAINED JOINTS.



**THOMAS & HUTTON**  
Engineering | Surveying | Planning | GIS | Consulting  
50 Park of Commerce Way • PO Box 2727  
Savannah, GA 31402-2727 • 912.234.5300  
www.thomasandhutton.com  
Charleston, SC | Columbia, SC | Myrtle Beach, SC  
Savannah, GA | Wilmington, NC

REVISION DATES	

UTILITY RELOCATION PLANS			
DELESSEPS/LA ROCHE AVE FM			
WATERS AVE TO SKIDAWAY RD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	44-0016	
CORRECTED:	DATE:		
VERIFIED:	DATE:		