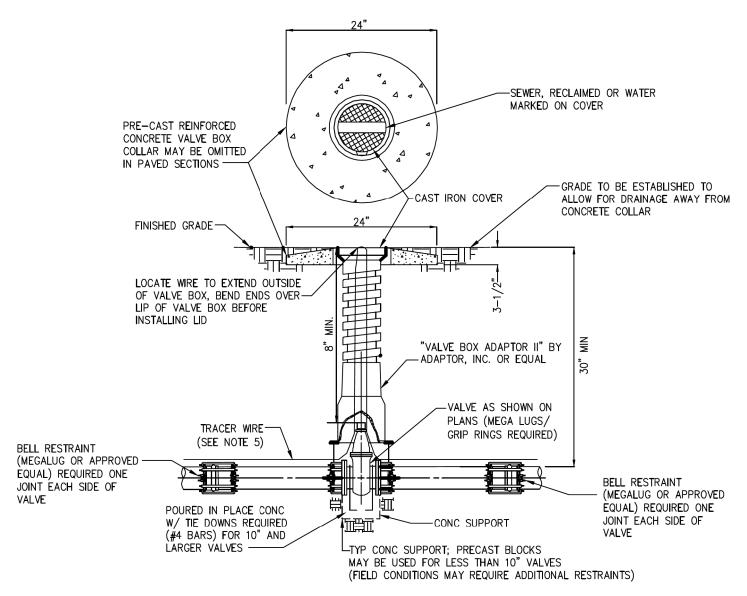
GENERAL WATER & SEWER DETAILS



NOTES:

- 1. TOP OF VALVE BOX AND COLLAR SHALL BE PAINTED GREEN FOR SEWER FM, PURPLE FOR RECLAIMED WATER, AND BLUE FOR WATER.
- 2. EXTENSION STEM WILL BE REQUIRED TO BE WITHIN 2 FEET OF THE SURFACE IF OPERATING NUT WOULD OTHERWISE BE OVER 5 FEET BELOW GRADE. EXTENSIONS SHALL BE PERMANENTLY ATTACHED TO VALVE NUT AND SHALL BE PROVIDED WITH HORIZONTAL SPACERS FOR VERTICAL ALIGNMENT WITHIN THE VALVE BOX.
- 3. MINIMUM CLEARANCE TO EXTENSION IS 8".
- 4. WIRE COLORS REQUIRED: SEWER-GREEN/WATER-BLUE/RECLAIMED WATER-PURPLE OR GREEN WITH PURPLE STRIPE
- 5. 12 GA. COPPERHEAD SUPER FLEX TRACER WIRE OR APPROVED EQUAL.

VALVE BOX DETAIL WS-9 DEPTH < 20 FEET — CLASS "A" BEDDING

• UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW PIPE

• FILL PIPE TO SPRING LINE WITH NO . 57 STONE

DEPTH > 20 FEET — CLASS "B" BEDDING

• UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW PIPE

• FILL TO 6 INCHES ABOVE PIPE WITH NO . 57 STONE

INSTALLATIONS THAT EXCEED 20 FEET DEPTH SHALL BE DR—18 C900 MINIMUM OR PER MANUFACTURERS

RECOMMENDATIONS

FINAL GRADE

TYPE 1 OR 2 FINAL BACKFILL

TYPE 1 INITIAL BACKFILL

TYPE 1 INITIAL BACKFILL

TYPE 1 INITIAL BACKFILL

O,D.

CLASS A OR B BEDDING

GRAVITY SEWER

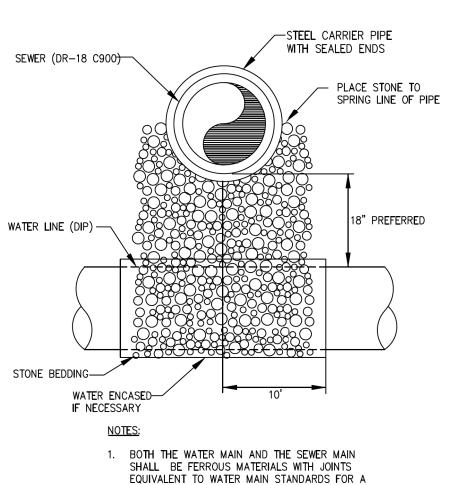
PIPE TRENCH/BEDDING DETAIL

DETAIL WS-22

STABLE FOUNDATION _

PROJECT REFERENCE NO. SHEET NO. R-5020B UC-3E DESIGNED BY: DK DRAWN BY: CHECKED BY: MM APPROVED BY: Marco Syspend REVISED: NORTH CAROLINA DEPARTMENT OF S. WGINEER TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 UTILITY CONSTRUCTION PLANS ONLY 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266 License No. C-764

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



FINAL GRADE

WATERMAIN AND/OR SEWER FORCEMAIN (PRESSURE PIPE)

PIPE TRENCH/BEDDING DETAIL

DETAIL WS-22A

STABLE FOUNDATION

MATERIAL

36" MINIMUM

DEPTH OF BURY

BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING.

ALTERNATIVELY, PIPES MAY BE SLEEVED WITH FERROUS MATERIALS FOR A MINIMUM DISTANCE

OF 10 FEET ON EACH SIDE OF THE CROSSING

SEWER CROSSING ABOVE WATER LINE

SLEEVE IF PVC AND
LESS THAN 18" AT
CROSSING

PLACE STONE TO
SPRING LINE OF PIPE

WATER LINE

SEWER LINE

STONE BEDDING

STEEL CASING

NOTES:

1. SOIL REPLACED UNDER THE WATER MAIN SHALL BE COMPACTED.

2. IF THE WATER MAIN CROSSES AT LESS THAN 18" ABOVE THE SEWER MAIN BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, OR THEY MAY HAVE FERROUS SLEEVES PUT AROUND THEM

SEWER CROSSING BELOW WATER LINE

SEWER OFFSETS ABOVE AND BELOW WATER MAINS DETAIL WS-21

ening (water sanitary) n-søzøb-ut-ocø