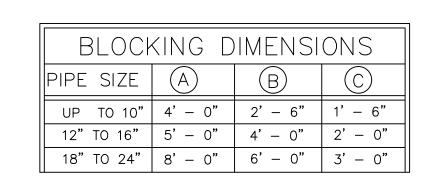
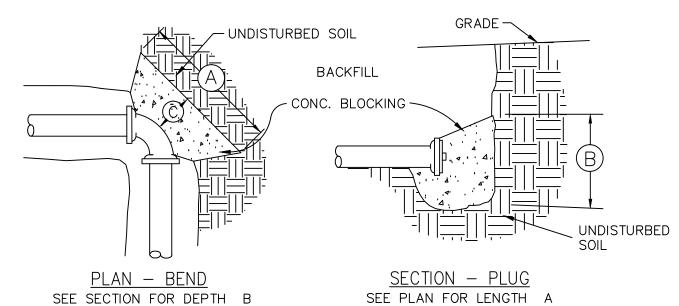
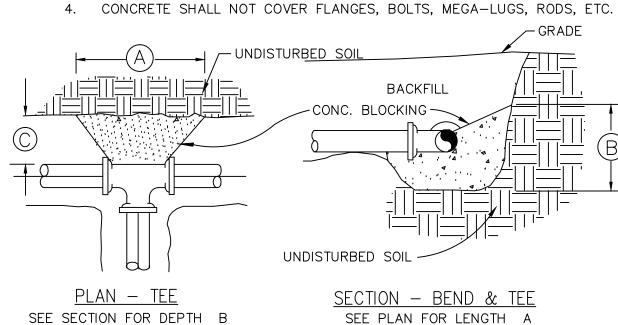
## PROJECT TYPICAL DETAILS

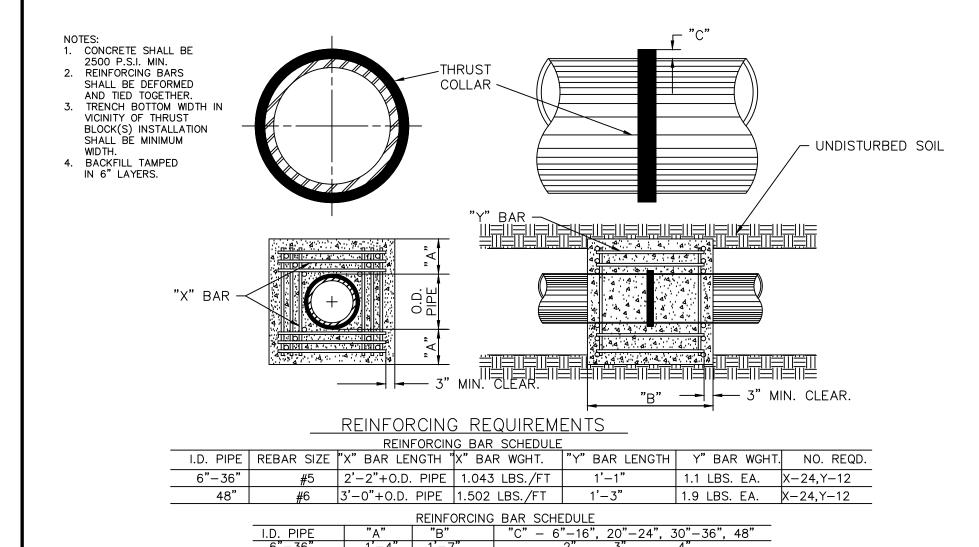




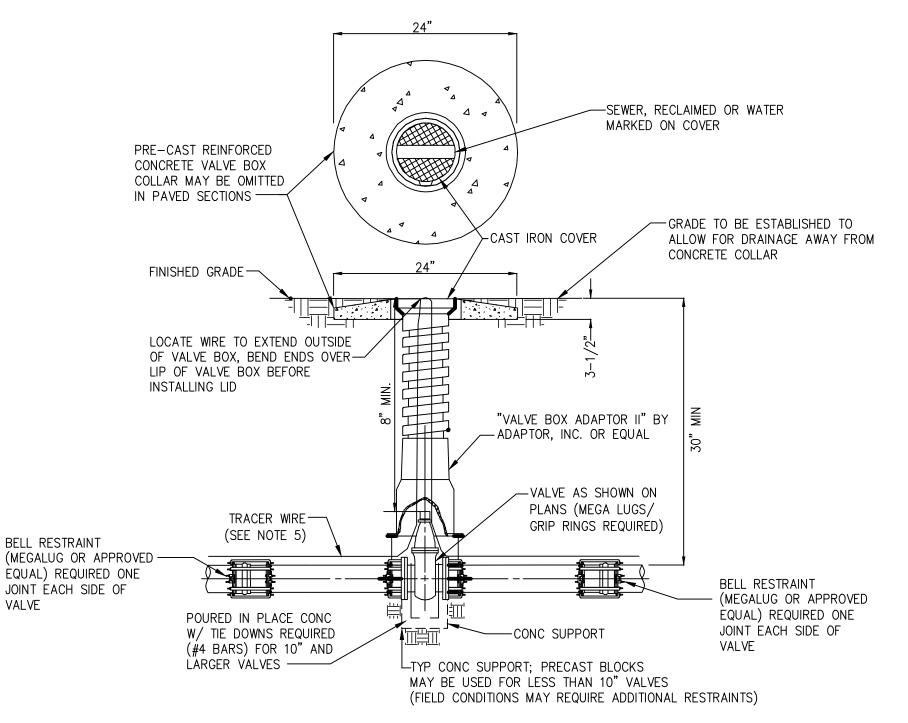
- REMOVE LOOSE EARTH AND POUR AGAINST UNDISTURBED SOIL.
- BACKFILL TO EXISTING/FINISH GRADE AFTER CONCRETE HAS CURED FOR 24 HOURS.



THRUST BLOCKS DETAIL W-12

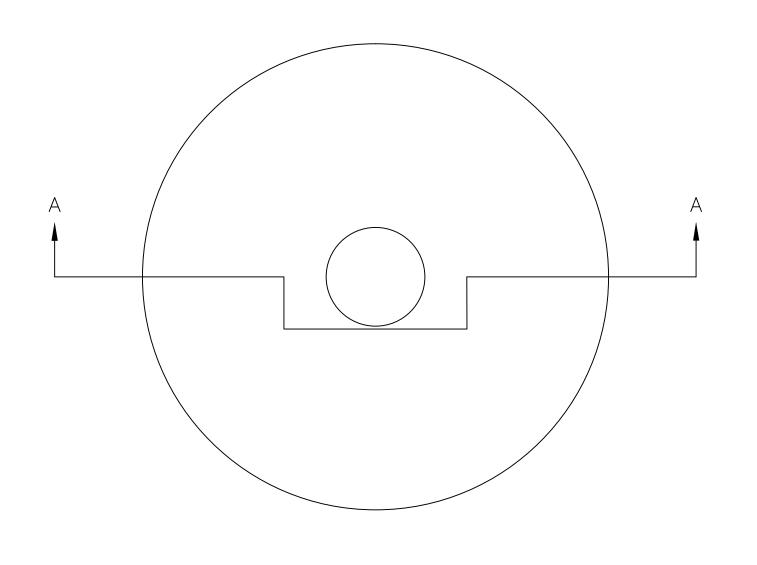


THRUST COLLAR FOR WATER MAINS DETAIL W-13



- 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
- 5. 12 GA. COPPERHEAD SUPER FLEX TRACER WIRE OR APPROVED EQUAL.





<u>PLAN</u>

SET COLLAR 1" ABOVE FINISHED GRADE-- TOP OF VALVE BOX LEVEL W/COLLAR TO 1 1/2" RECESS. NOT REQUIRED IN PAVED SECTIONS NON-TRAFFIC -FINISHED GRADE VALVE BOX 24" DIA.

SECTION A-A

PRECAST CONCRETE VALVE BOX COLLAR DETAIL WS-16

PROJECT REFERENCE NO. SHEET NO. UC-3D BR-0160 DESIGNED BY: ARV ARVDRAWN BY: CHECKED BY: RLB APPROVED BY: SEAL — Bocusion 49764 REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC PHONE: (919)707-6690 UTILITY CONSTRUCTION FAX: (919)250-4151 PLANS ONLY FAX: (919)250-4151

UTILITY CONSTRUCTION

TRACER WIRE TO EXTEND OUTSIDE OF VALVE BOX, BEND ENDS OVER LIP OF VALVE BOX BEFORE INSTALLING LID 1. PROVIDE TRACER WIRE ON ALL NON-FERROUS PIPELINES. 2 TRACER WIRE NOT REQUIRED ONFIRE HYDRANT ISOLATOR VALVES "VALVE BOX ADAPTOR II" BY ADAPTOR, INC. OR EQUAL — — 12 GA., "COPPERHEAD SUPER FLEX" TRACER WIRE (OR APPROVED EQUAL) - 1 1/2" POLYETHYLENE TAPE WRÁPPED AROUND TWICE

> TRACER WIRE AT VALVES DETAIL WS-13

1. WIRE COLOR REQUIRED

SEWER-GREEN
WATER-BLUE
RECLAIMED WATER-PURPLE OR GREEN WITH PURPLE STRIPE