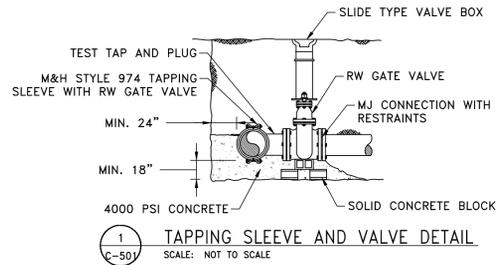
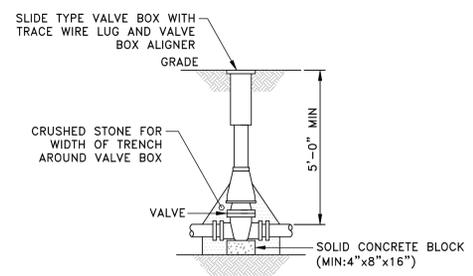


- NOTES:**
- TEMPORARILY SUPPORT TAPPING SADDLE AND VALVE AND APPLY STANDARD HYDROSTATIC TEST.
 - IF NO LEAKS, POUR INDICATED PERMANENT CONCRETE BLOCK AND SUPPORT PAD.
 - MAKE TAP, LINE EXTENSION AND BACKFILL.
 - COVER GLANDS AND BOLTS WITH HEAVY POLYETHYLENE SHEETING TO KEEP CONCRETE FROM BONDING. TYPICAL WHENEVER BOLTS OR GLANDS MAY BE "WRAPPED-UP" IN CONCRETE.
 - COAT TAPPING SLEEVE AND BOLTS WITH AN APPROVED BITUMASTIC COATING BEFORE POURING CONCRETE. TYPICAL FOR ALL STEEL INCLUDING RODS, COUPLINGS, STRAPS, AND OTHER BURIED STEEL.

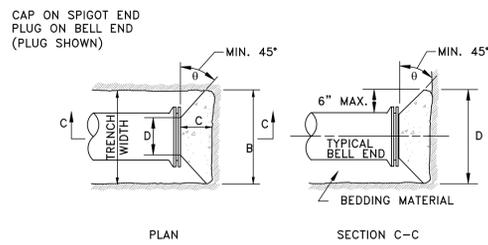


1 TAPPING SLEEVE AND VALVE DETAIL
SCALE: NOT TO SCALE

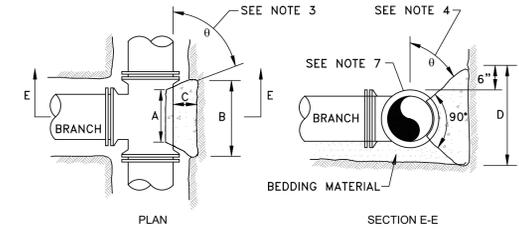


- NOTES:**
- VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
 - USE VALVE BOX ALIGNER.
 - ALL BOLTS AND NUTS SHALL BE 304 S.S WITH ANTI-SIEZE PER SPECS
 - TRACER WIRE LUG REQUIRED ON VALVE BOXES ASSOCIATED WITH HDPE PIPE ONLY.

2 TYPICAL VALVE
SCALE: NOT TO SCALE



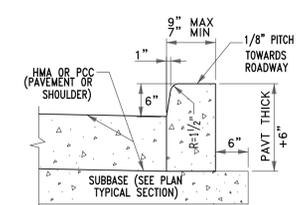
7 THRUST BLOCK DETAILS-DEAD END
SCALE: NOT TO SCALE



7A THRUST BLOCK DETAILS-TEES
SCALE: NOT TO SCALE

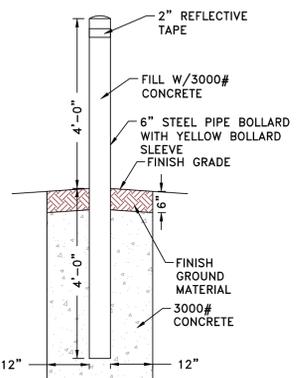
- "A", "B" AND "D" DIMENSIONS SHALL BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINTS OR THE BOLTS.
- "C" DIMENSIONS SHALL BE LARGE ENOUGH TO MAKE ANGLE θ EQUAL TO OR LARGER THAN 45°

TABLE NO. 1 THRUST BLOCK AREA REQUIRED	
100-150 PSI TEST PRESSURE THRUST AREA REQ'D FT ²	
NOMINAL PIPE DIAMETER	DEAD END AND TEES
4	2.0
6	3.0
8	5.0
10	8.0
12	12.0



- NOTE:**
- WHEN VERTICAL FACED CURB LESS THAN 6" WIDE IS USED WITH CURB BOXES CU1, CU2, AND CU3 AND CONCRETE SIDEWALK IS PLACED ADJACENT TO THIS CURB, SEE STANDARD SHEET MISCELLANEOUS CURB DETAILS FOR CURB BOX JOINTS.

5 CONCRETE CURB DETAIL
SCALE: NOT TO SCALE

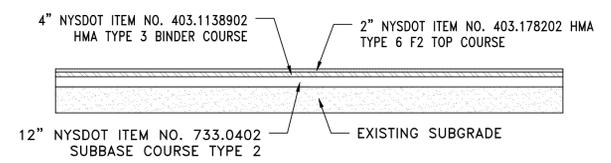


3 TYPICAL BOLLARD DETAIL
SCALE: NOT TO SCALE

JOINT RESTRAINED SCHEDULE							
PIPE SIZE	90°	45°	22 1/2°	11 1/4°	TEES (ALONG BRANCH)	REDUCER (LARGER O.D.)	DEAD ENDS
6"	15'	10'	5'	5'	20'	-	60'
8"	20'	10'	5'	5'	55'	-	70'
10"	25'	10'	5'	5'	65'	-	85'
12"	30'	15'	10'	5'	80'	-	95'
8"x6"	-	-	-	-	35'	30'	-
10"x8"	-	-	-	-	50'	30'	-
12"x8"	-	-	-	-	45'	55'	-
12"x10"	-	-	-	-	65	30'	-

JOINT RESTRAINT SCHEDULE

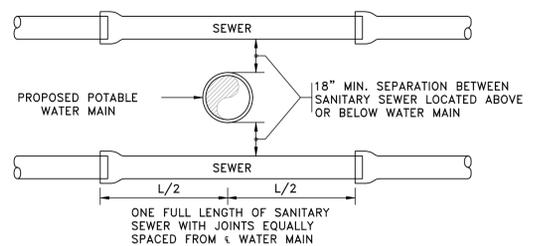
- MINIMUM LENGTH IN FEET TO BE RESTRAINED IN EACH DIRECTION.
- ACTUAL LENGTH SHALL BE BASED ON SOIL CONDITIONS.
- RESTRAINT BASED ON TYPICAL SOIL CONDITIONS, 150 PSI TEST PRESSURE AND BEDDING PER PROJECT TRENCH DETAIL. FOR VALVES USE LENGTHS AS INDICATED FOR 90° BEND.
- RESTRAINT BASED ON DUCTILE IRON PIPE WITH POLYETHYLENE ENCASEMENT
- APPROVED RESTRAINTERS: APPROVED MEGA-LUG TYPE FOR MECHANICAL JOINTS AND FIELD LOK GASKETS FOR PUSH JOINTS
- ALL RESTRAINT BOLTS AND NUTS SHALL BE 304 S.S WITH ANTI-SIEZE PER SPECS.
- THRUST BLOCKS SHALL ONLY BE USED ON DEAD ENDS PER CONTRACT PLANS.
- MIN 5' GROUND COVER REQUIRED.
- IF RESTRAINT LENGTH IS LESS THAN THE LENGTH OF PIPE, CONTRACTOR SHALL RESTRAIN THE NEXT JOINT.
- ALL RESTRAINTS FOR ELBOWS ARE FOR HORIZONTAL INSTALLATION. CONTRACTOR SHALL CONSULT ENGINEER FOR VERTICAL RESTRAINT SCHEDULE.



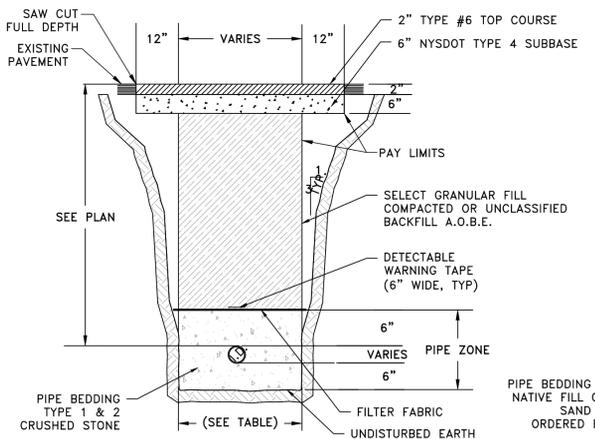
8 PAVEMENT DETAIL
SCALE: NOT TO SCALE

- WATER NOTES:**
- THE CONTRACTOR SHALL REFER TO THE LATEST EDITION OF "A GUIDE FOR THE INSTALLATION OF DUCTILE IRON PIPE" PUBLISHED BY THE CAST IRON PIPE RESEARCH ASSOCIATION FOR DESIGN AND INSTALLATION OF RESTRAINT SYSTEM.
 - THRUST BLOCKS SHALL BE USED.
 - ALL JOINTS SHALL BE MECHANICALLY RESTRAINED PER RESTRAINT SCHEDULE.
 - ALL DUCTILE IRON PIPE SHALL BE ENCASED WITH POLYWRAP.
 - ALL BOLTS AND NUTS SHALL BE 304 S.S WITH ANTI-SIEZE

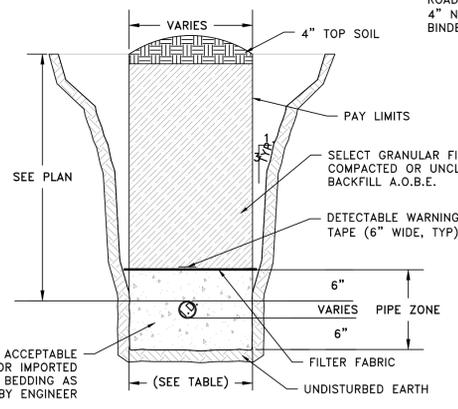
NOTE: MAINTAIN A 10 FT. MIN. HORIZONTAL SEPARATION WHERE POTABLE WATER MAIN RUNS PARALLEL TO SANITARY SEWER



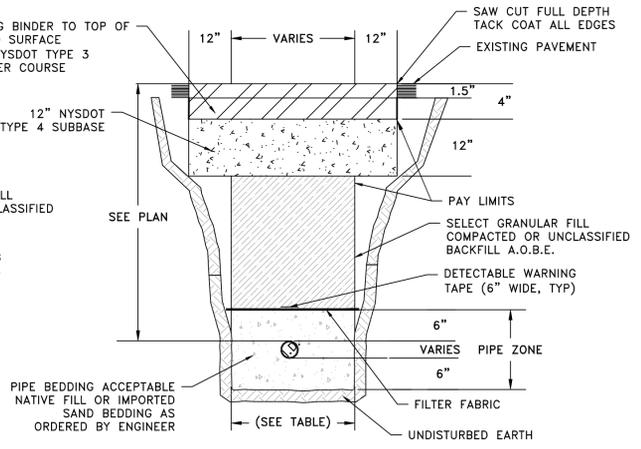
4 TYPICAL SANITARY SEWER & POTABLE WATER MAIN CROSSING
SCALE: NOT TO SCALE



1 TRENCH IN DRIVEWAYS DETAIL
SCALE: NOT TO SCALE



2 TRENCH IN EARTH DETAIL
SCALE: NOT TO SCALE



3 TRENCH IN LOCAL ROADWAYS DETAIL
SCALE: NOT TO SCALE

DATE: 6/28/2023
DRAWN BY: AMRODA
SCALE: AS SHOWN
PROJECT NO.: 21-0343
FILE: C-501-SITE-DETAILS.DWG



NO.	DATE	DESCRIPTION

PORT EWEN FIRE DEPARTMENT
ULSTER COUNTY, NY

GENERAL DETAILS

BID PLANS

SHEET:
C-501

WARNING - IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7202.2, FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 7202.2.