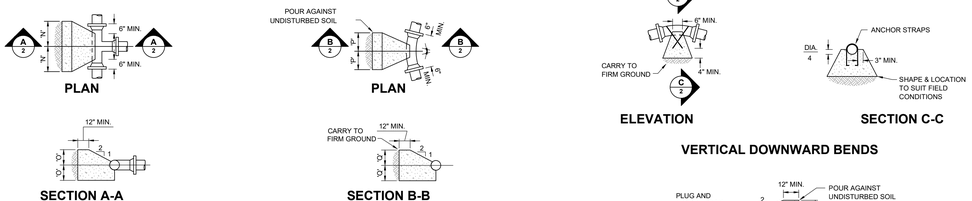
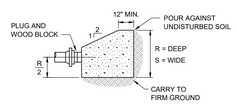


TEES

HORIZ. & VERT. UPWARD BENDS

VERTICAL DOWNWARD BENDS



PLUGS

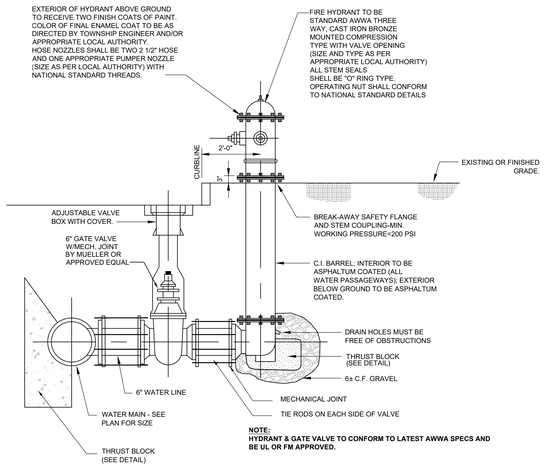
ANCHOR SCHEDULE FOR VERTICAL DOWNWARD BENDS	
SIZE	SIZE
4"Ø	#3 BAR
6"Ø	#4 BAR
8"Ø	#5 BAR
10"Ø	#6 BAR
12"Ø	#7 BAR
14"Ø	#8 BAR
24"Ø	3"x1/2"-FLAT

MECHANICAL JOINT BOLT AND NUTS ON PLUG SHALL BE ACCESSIBLE AFTER THRUST BLOCK IS POURED.

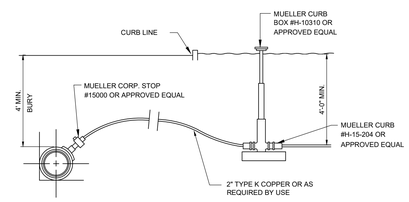
THRUST BLOCKS DESIGNED FOR 150 LB. PER SQ. IN. TEST PRESSURE AND 2000 LB. PER SQ. FT. SOIL PRESSURE.
*** MIN. CONC. ANCHORAGE WITHOUT BACKFILL AND NO GROUND WATER CONDITION.**

THRUST BLOCKS FOR TEES, HORIZONTAL & VERTICAL BENDS AND PLUGS								
	DESC.	DIMENSION	4"Ø	6"Ø	8"Ø	10"Ø	12"Ø	14"Ø	24"Ø
	TEES	N	0'-7"	0'-10"	1'-2"	1'-5"	1'-8"	1'-11"	3'-2"
		O	0'-7"	0'-10"	1'-2"	1'-5"	1'-8"	1'-11"	3'-2"
HORIZ. & VERT. UPWARD	90° BENDS	P	0'-9"	1'-0"	1'-4"	1'-8"	1'-11"	2'-3"	3'-9"
		Q	0'-9"	1'-0"	1'-4"	1'-8"	1'-11"	2'-3"	3'-9"
	45° BENDS	P	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	2'-9"
		Q	0'-7"	0'-9"	1'-0"	1'-3"	1'-5"	1'-8"	2'-9"
	22 1/2° BENDS	P	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	2'-0"
		Q	0'-5"	0'-7"	0'-9"	0'-11"	1'-0"	1'-2"	2'-0"
	11 1/4° BENDS	P	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-5"
		Q	0'-4"	0'-5"	0'-6"	0'-8"	0'-9"	0'-10"	1'-5"
VERT. DOWNWARD	45° BENDS	MIN. CONC. * ANCHORAGE	0.6 C.Y.	1.1 C.Y.	1.9 C.Y.	2.8 C.Y.	3.9 C.Y.	5.2 C.Y.	14.9 C.Y.
	22 1/2° BENDS	MIN. CONC. * ANCHORAGE	0.3 C.Y.	0.6 C.Y.	1.0 C.Y.	1.4 C.Y.	2.0 C.Y.	2.7 C.Y.	7.6 C.Y.
	11 1/4° BENDS	MIN. CONC. * ANCHORAGE	0.2 C.Y.	0.3 C.Y.	0.5 C.Y.	0.7 C.Y.	1.0 C.Y.	1.4 C.Y.	3.8 C.Y.
	PLUGS	R	1'-2"	1'-8"	2'-4"	2'-10"	3'-4"	3'-10"	6'-4"
		S	1'-2"	1'-8"	2'-4"	2'-10"	3'-4"	3'-10"	6'-4"

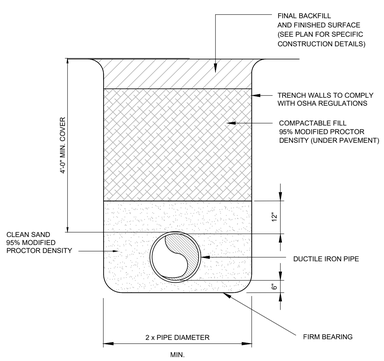
2 THRUST BLOCK 150 PSI
SCALE: NTS



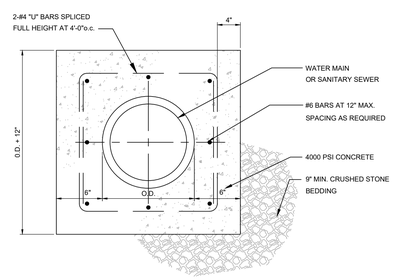
1 TYPICAL FIRE HYDRANT AND AUXILIARY GATE VALVE
SCALE: NTS



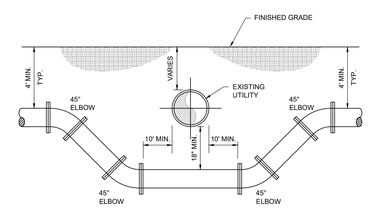
3 TYPICAL 2" WATER SERVICE CONNECTION
SCALE: NTS



4 WATERLINE TRENCH
SCALE: NTS



5 CONCRETE ENCASEMENT
SCALE: NTS



6 UTILITY CROSSING
SCALE: NTS

WATER DISTRIBUTION NOTES

1. ALL WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF NYSDOH.
2. ALL WATER DISTRIBUTION SYSTEM (INCLUDING WELLS) CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE AWWA AND NYSDOH CURRENT STANDARDS
3. ALL THRUST BLOCKS SHALL BE CALCULATED IN THE FIELD BASED ON DETAILS INCLUDED IN THIS SUBMISSION AND SHALL BE FOUNDED ON VIRGIN SOIL.
4. ALL VALVE BOXES FOR HYDRANT ASSEMBLY SHALL BE CENTERED ON VALVE AND SET IN PAVEMENT WHERE POSSIBLE. ALL VALVE BOXES MUST BE SET TO FINISHED PAVEMENT/GRADE SURFACE ELEVATION.
5. WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52.
6. WATER MAIN CROSSING OVER SANITARY SEWER SHALL BE INSTALLED TO PROVIDE A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND TOP OF THE SEWER.
7. ALL FACILITIES WILL BE DISINFECTED PRIOR TO SERVICE IN A MANNER CONSISTENT WITH AWWA C651.
8. ALL MATERIALS, DISINFECTING AND INSTALLATION SHALL CONFORM TO THE "RECOMMENDED STANDARDS FOR WATER WORKS" (10 STATES STANDARDS), AND ALL WATER-CONTACTING PIPES AND MATERIALS MUST MEET APPROPRIATE ANSI/AWWA AND/OR ANSI/NSF STANDARDS.
9. MINIMUM DEPTH OF COVER SHALL BE 4'-0". WHERE MINIMUM DEPTH CANNOT BE MET, WATER MAINS SHALL BE PROPERLY INSULATED.
10. ALL PROPOSED WATER MAINS, LOOPS, AND FIRE AND DOMESTIC WATER SERVICE SIZED SHOWN, WILL BE ADJUSTED AND SIZED BASED UPON THE RESULTS OF SUBSEQUENT DESIGN CALCULATIONS TO BE PROVIDED BY OTHERS.
11. CONTRACTOR SHALL COORDINATE FIRE HYDRANT LOCATIONS WITH THE FIRE DEPARTMENT PRIOR TO INSTALLATION. A PLAN OF SAME SHALL BE SUBMITTED TO THE DESIGN ENGINEER.
12. THE MATERIAL OF WATER SERVICE SHALL BE TYPE K COPPER OR REQUIRED BY USE. MINIMUM WATER SERVICE LINE SHALL BE ONE INCH.

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DRAFT
SIGNATURE DATE

REVISIONS/ISSUES

REV	DATE	DESCRIPTION

PROJECT TITLE

PRELIMINARY & FINAL SITE PLAN

Gan-Eden Estates

TOWN OF THOMPSON SULLIVAN COUNTY NEW YORK

TAX LOT
SECTION 2,
BLOCK 1/ LOT 6.3

SHEET TITLE

WATER SYSTEM DETAILS AND NOTES

INITIAL DATE: OCT. 15, 2019	JOB NO.: 01895.0053
SCALE: NOT TO SCALE	B/O
DRAWN: C.Y. / F.M.	SHEET NO.: C-17
CHKD.: L.A.D.	79 OF 103