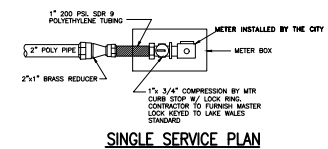
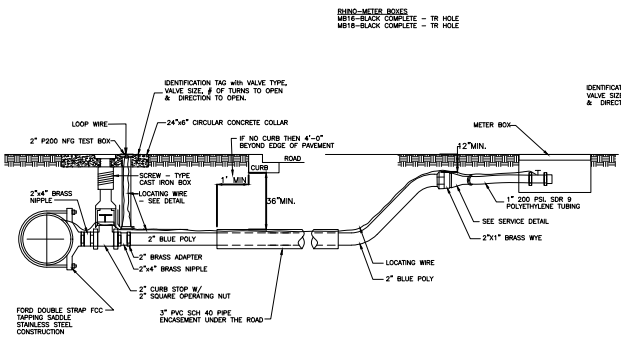


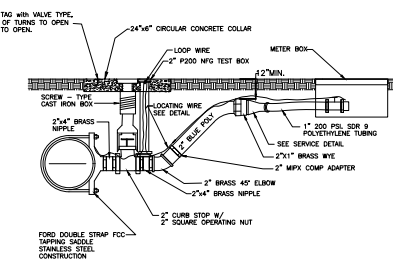
**DOUBLE SERVICE PLAN**



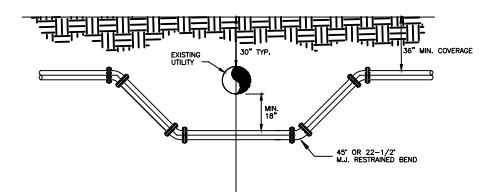
**SINGLE SERVICE PLAN**



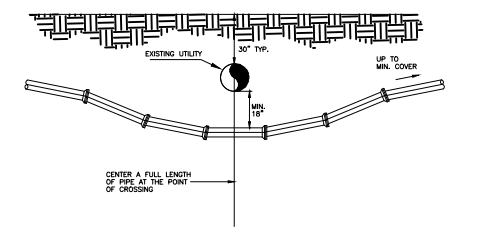
**SERVICE REQUIRING ROAD CROSSING**



**SERVICE NOT REQUIRING ROAD CROSSING**

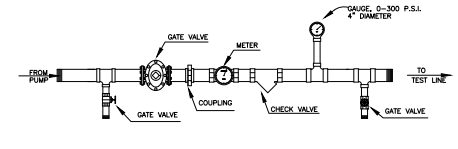


**UTILITY CROSSING - FITTING TYPE**

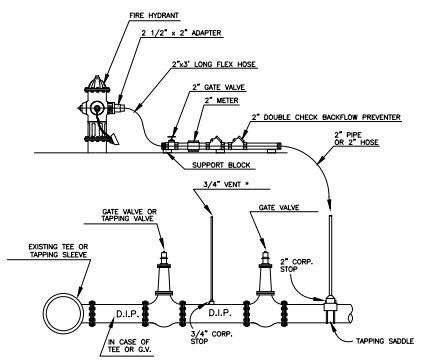


**UTILITY CROSSING - DEFLECTION**

1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHENEVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT CROSSING USING 75% OF MANUFACTURERS MAXIMUM JOINT DEFLECTION (MAXIMUM).



**PRESSURE TEST**

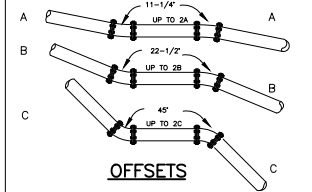


**FILLING CONNECTION**

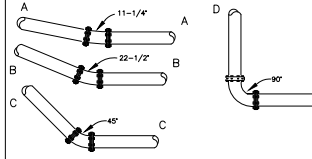
- \* NOTE: AFTER TESTS REMOVE 3/4" TUBING AND 2" GALVANIZED PIPE AND INSTALL PLUGS ON CORPORATION STOPS.

**RESTRAINED PIPE**

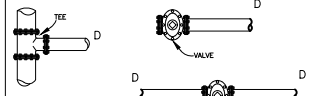
SIZE	DISTANCE IN FEET			
	A & B	C	D	D
4"	18	18	54	
6"	18	18	72	
8"	18	36	90	
10"	18	36	108	
12"	18	36	126	
14"	18	54	144	
16"	18	54	162	
18"	18	54	180	
20"	18	72	198	
24"	18	72	216	



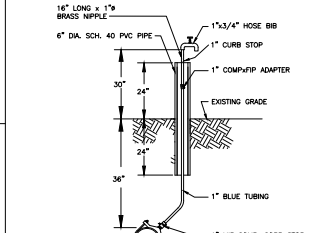
**OFFSETS**



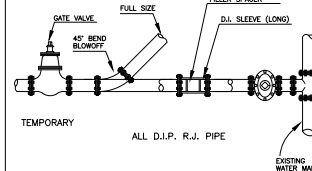
**DEFLECTIONS**



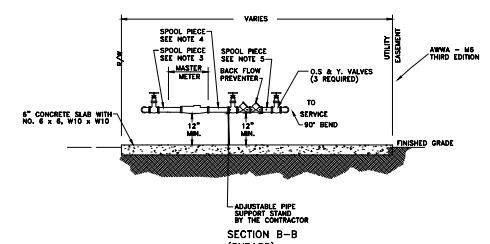
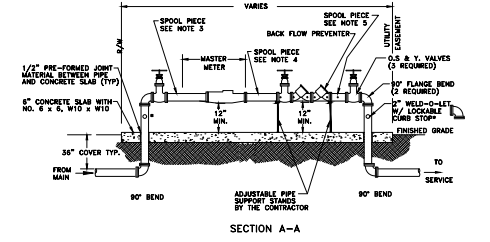
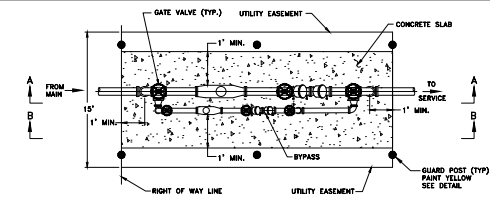
**DEAD ENDS RESTRAINED PIPE**



**TYPICAL BACTERIOLOGICAL SAMPLING POINT AT INTERMEDIATE POINTS**

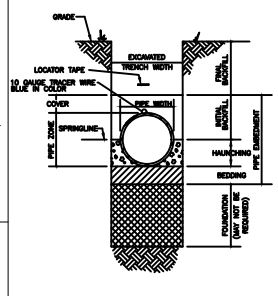


**FLUSHING CONNECTION AND BLOW OFF DETAIL**

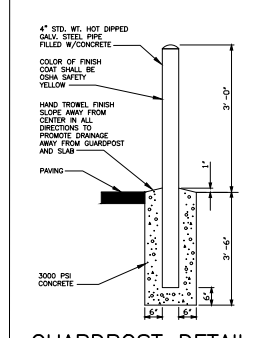


- NOTES:
1. ALL PIPE, FITTINGS, APPURTENANCES, METER AND BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
  2. ALL ABOVE GROUND PIPE SHALL BE FLANGE DUCTILE IRON.
  3. SPOOL PIECE MINIMUM LENGTH SHALL BE TEN TIMES THE PIPE DIAMETER.
  4. SPOOL PIECE MINIMUM LENGTH SHALL BE FIVE TIMES THE PIPE DIAMETER.
  5. SPOOL PIECE LENGTH SHALL BE A MINIMUM OF ONE FOOT. ON SPOOL PIECE PLACE A 1" HEAVY DUTY WELD-O-LET NINETY DEGREES FROM THE TOP OF SPOOL PIECE. WELD-O-LET TO BE INSTALLED WITH A LOCKABLE CURB STOP (TEST POINT).
  6. MASTER METER SHALL BE SENSUS COMPOUND FLOW METER.
  7. METER SHALL BE PAINTED BLUE WHEN COMPLETED EXCEPT FOR BRASS.

**MAIN METER ASSEMBLY 4" AND LARGER**



**TRENCH CROSS-SECTION TERMINOLOGY**



**GUARDPOST DETAIL**

ISSUE CODE  
MODIFIED: MJC 07-17-19  
MODIFIED: NH/MJC 09/06/19

**CITY OF LAKE WALES**

8-28-12 NFO TEST BOX  
8-07-12 METER DETAIL ON SERVICES  
10-02-17 TRENCH CROSS-SECTION TERM.  
5-17-18 GENERAL CLEANUP  
5-23-18 TEXT HEIGHT IN TRENCH DETAIL  
9-18-18 ADD TEXT FOR VALVE TYPE TO VALVE TAG

ISSUE CODE	A (PRELIMINARY)	B (DESIGN)
DESIGN	D (CONSTRUCTION)	E (APPROVAL)
CHK'D BY:	DATE:	
DRAWN BY:	ENGR. APPR.	
<b>WATER DETAILS</b>		
AREA	CITY-OF-LAKE-WALES	JOB NO.
SHEET	- OF -	REV.