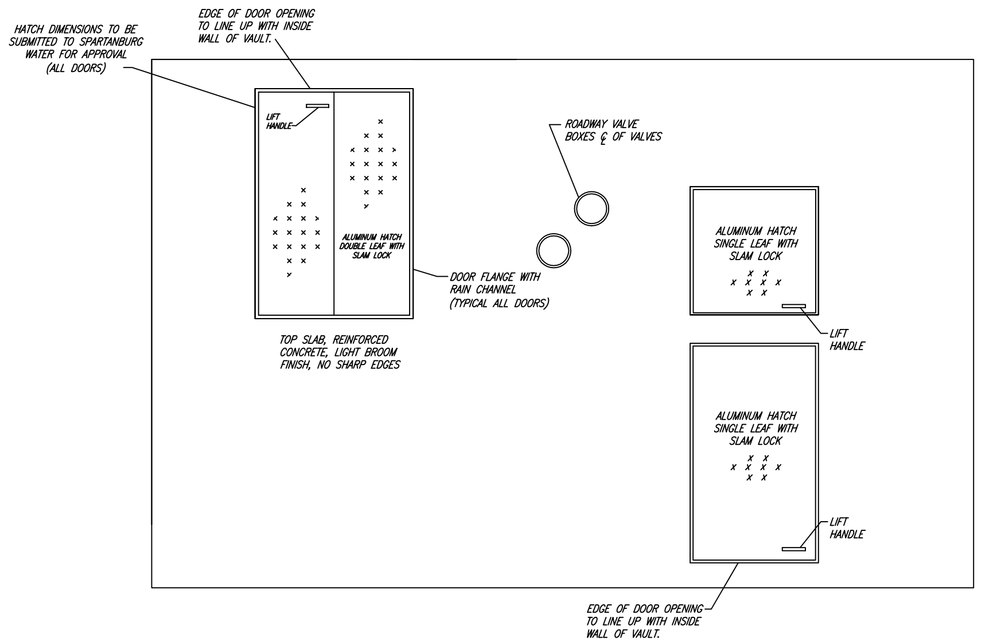
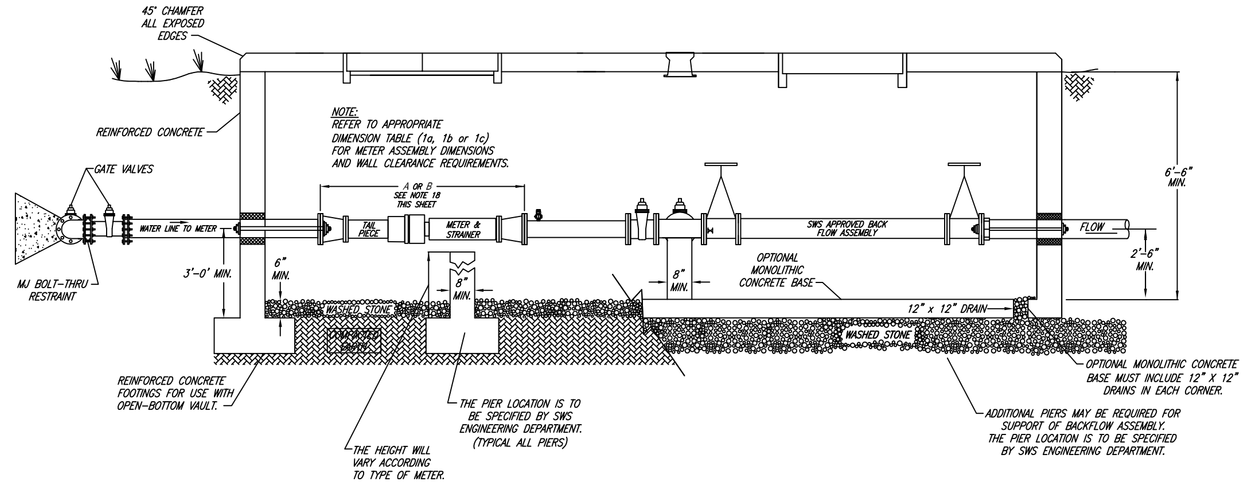
PIT DETAIL 4B: LARGE METER, FIRE SERVICE, AND BACKFLOW ASSEMBLIES IN COMMON PIT WITH BYPASS OUTSIDE VAULT



TOP SLAB
N.T.S.



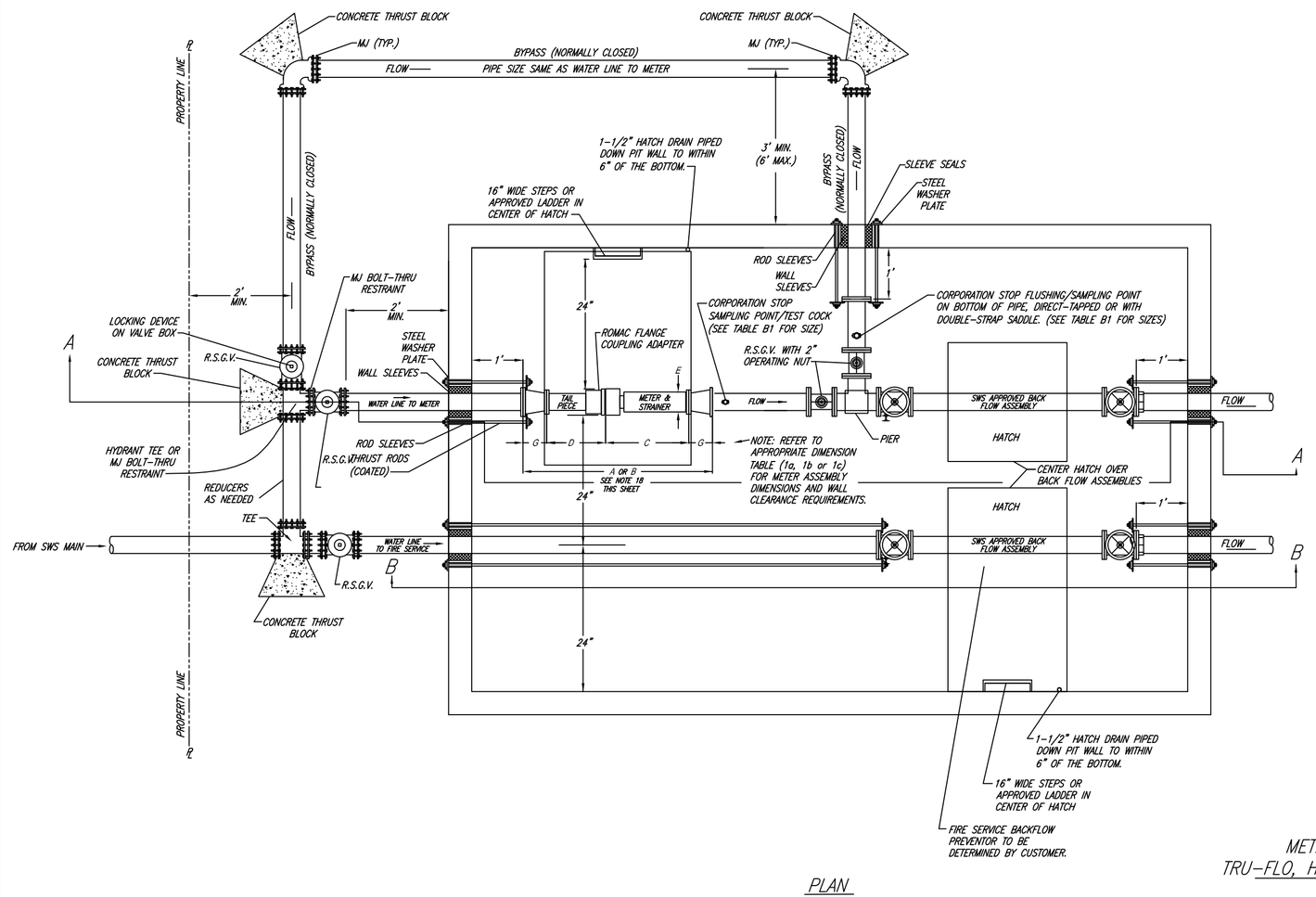
SECTION A–A
N.T.S.

PIT DETAIL GENERAL NOTES

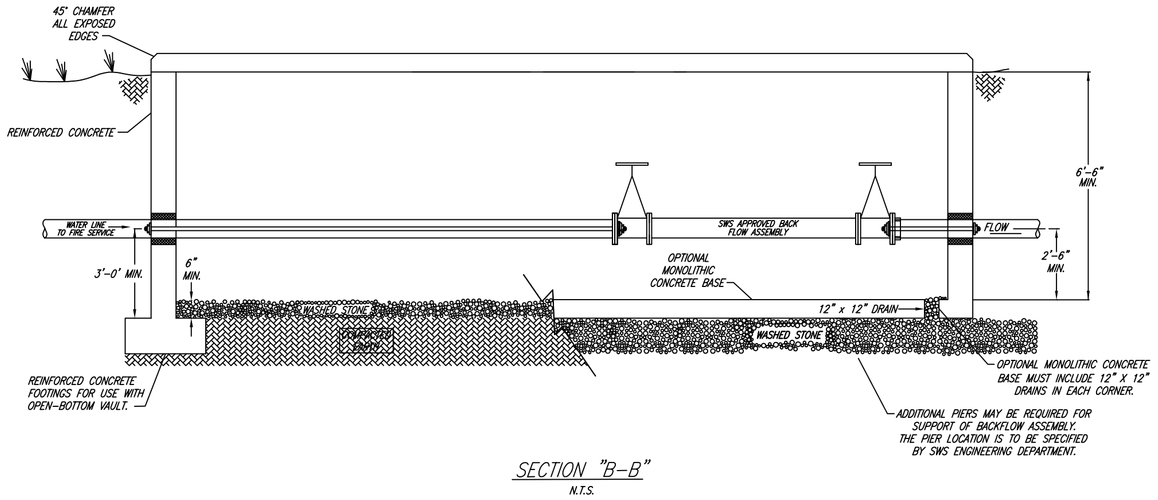
1. PIT SHALL BE IN A NON-TRAFFIC AREA.
2. PIT TO BE OUTSIDE THE ROAD RIGHT-OF-WAY, COMPLETELY ON THE CUSTOMER'S PROPERTY. MAXIMUM DISTANCE FROM PROPERTY LINE IS 10'. OWNER/CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LOCATION OF RIGHT-OF-WAY.
3. PIT OWNERSHIP/MAINTENANCE IS THE RESPONSIBILITY OF THE CUSTOMER/PROPERTY OWNER.
4. IF PIT IS TO BE LOCATED IN A SLOPED AREA, IT SHALL BE DESIGNED TO MAINTAIN MINIMUM DEPTH OF COVER ON INLET AND OUTLET PIPES. SLOPING GRADES AROUND THE PIT SHALL BE GRADED IN A MANNER TO PREVENT WATER AND DIRT FROM COVERING THE TOP OF THE PIT. LANDSCAPING AND STRUCTURES ON TOP OF PIT ARE PROHIBITED.
5. PIT SHALL NOT BE LOCATED IN AN AREA SUBJECT TO GROUND WATER RUN-OFF, STORM DRAIN COLLECTION AND DISCHARGE, OR AREAS PRONE TO CONSTANT WATER INFILTRATION. CONTRACTOR SHALL PROVIDE NON-MECHANICAL MEANS OF WATER CONTROL IF POSSIBLE AND NECESSARY.
6. ALL PITS SHALL BE LOCATED TO ALLOW SWS PERSONNEL TO ENTER AND PERFORM ANY WORK OR MAINTENANCE-RELATED RESPONSIBILITIES.
7. ALL STRUCTURAL DESIGN SHALL BE COMPLETED BY OTHERS.
8. SERVICE WILL NOT BE TURNED ON UNTIL PLANS ARE RECEIVED AND APPROVED AND THE PIT IS COMPLETED AND ACCEPTED BY THE SWS ENGINEERING DEPARTMENT.
9. REFER TO ADDITIONAL NOTES RELATED TO BACKFLOW ASSEMBLIES ELSEWHERE IN THESE DRAWINGS.

PIT PIPING NOTES

10. ALL PIPE, VALVES AND FITTINGS INSIDE VAULTS SHALL BE FLANGED DUCTILE IRON CONFORMING TO AWWA AND SWS SPECIFICATIONS.
11. ALL PIPE, VALVES AND FITTINGS OUTSIDE VAULTS SHALL BE MECHANICAL JOINT (MJ) DUCTILE IRON CONFORMING TO AWWA AND SWS SPECIFICATIONS.
12. STANDARD GATE VALVES ON THE BACKFLOW ASSEMBLY SHALL BE RESILIENT SEAT WEDGE OR SEAT WITH OS&Y OR NRS, OPEN LEFT. THE ∅1 GATE VALVE ON THE BACKFLOW ASSEMBLY SHALL HAVE A RESILIENT BALL VALVE TEST COCK. ALL GATE VALVES OUTSIDE THE VAULT SHALL BE 2" OPERATING NUT, OPEN LEFT.
13. ALL RODS SHALL BE THREADED, ZINC COATED, AND HIGH TENSILE STRENGTH. RODS ARE TO BE STRAIGHT CONNECTED TO WALL WASHER PLATE ON EACH OUTSIDE WALL AND FIRST FLANGE INSIDE PIT. ROD CONNECTIONS INSIDE THE PIT SHALL BE INSTALLED WITH EYE BOLTS AT THE FLANGE OR OTHER ACCEPTABLE MEANS. WASHER PLATES AND RODS SHALL BE COATED WITH BITUMASTIC COATING. ALL RODS ARE TO BE 3/4" MINIMUM.
14. CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH SWS STANDARD SPECIFICATIONS APPLICABLE AT THE TIME OF CONSTRUCTION.
15. SEAL ALL WALL PENETRATIONS WITH LINK SEAL OR APPROVED EQUAL.
16. ONLY THE FOLLOWING ITEMS ARE SUPPLIED BY SPARTANBURG WATER (IF APPLICABLE):
    A) WATER METER AND STRAINER ASSEMBLY IN SIZE SPECIFIED BY SWS AND PAID FOR BY THE DEVELOPER.
    B) ROMAC FLANGE ADAPTER TO FIT TAIL PIECE AND METER
    C) VALVE BOX LOCKING DEVICE.
17. REFER TO ADDITIONAL NOTES RELATED TO BACKFLOW ASSEMBLIES ELSEWHERE IN THESE DRAWINGS.
18. REFER TO DIMENSION TABLE 1a, 1b, OR 1c ELSEWHERE IN THESE DRAWINGS AND USE DIMENSION "A" IF REDUCERS ARE NEEDED OR DIMENSION "B" IF REDUCERS ARE NOT NEEDED.



PLAN
N.T.S.



SECTION "B–B"
N.T.S.

TABLE B1

DIMENSIONS OF FLUSHING / SAMPLING / TEST CORPORATION STOPS				
PURPOSE	INSTALLED LOCATION	PIPE SIZE (INCHES)	CORP. STOP SIZE (INCHES)	CORP. STOP OUTLET STYLE
SAMPLING POINT/ TEST COCK	DOWNSTREAM OF METER ON TOP OF PIPE	ALL	2"	MALE NPT
FLUSHING/ SAMPLING POINT	ON BOTTOM OF BYPASS LINE IN VAULT	4" – 6"	1"	MALE NPT
FLUSHING/ SAMPLING POINT	ON BOTTOM OF BYPASS LINE IN VAULT	8" AND GREATER	2"	MALE NPT

METER ASSEMBLY TYPES
TRU-FLO, HP-TURBINE, HP-PROTECTUS
N.T.S.

Spartanburg Water

SCALE: NONE REVISION DATE: MAR. 18, 2010