

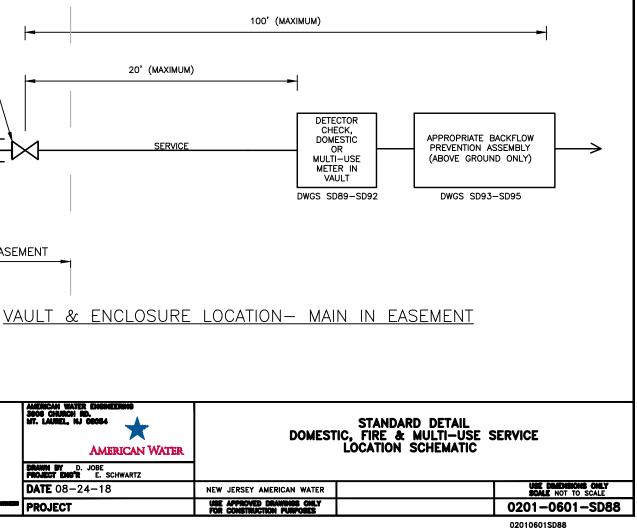
1. ALL METERS (3" & LARGER) SHALL BE INSTALLED IN A CONCRETE VAULT.

2. ALL BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED IN AN ABOVEGROUND ENCLOSURE, IMMEDIATELY ADJACENT (I.E. AS CLOSE AS PRACTICABLE) TO THE

3. NOT WITHSTANDING THE ABOVE, IF A METER VAULT AND HEATED BP ENCLOSURE ARE INSTALLED, BOTH STRUCTURES SHALL BE INSTALLED WITHIN 100 FEET OF

4. NJAW MAY WAIVE HEATED BP ENCLOSURE AND ALLOW BACKFLOW PREVENTER INSTALLATION IN BUILDING IF THE 100 FOOT REQUIREMENT IS MAINTAINED.

5. THE INSTALLATION MUST ALSO MEET ALL APPLICABLE CODE & REGULATORY REQUIREMENTS INCLUDING THE NATIONAL STANDARD PLUMBING CODE AND NEW



FITTINGS & EQUIPMENT LAYING LENGTHS

	Laying Length (inches)					
Nominal Service Size	3"	4''	6''	8''	10''	1
A- Gate Valve (OS&Y)	8	9	10.5	11.5	13	
B- Detector Check Valve (DCV)	15	15	21	25	28.75	
C- Domestic Compund Meter Assembly (includes spool, strainer, meter & test p	24	29.5	39.375	42	55	٦ [
D- Multi-Use Meter Assembly (includes strainer, meter & test port)		43	57.25	63.3125	70]
E- Dismantling Joint	9	9	9	9	10	1
F- Sw ing Check Valve	9.5	11.5	14	19.5	24.5	1
G- RPZ Backflow Preventer Assembly (inludes gate valves)	42.25	55.125	65.5	78.5	93.625	1
G- Double Check Backflow Preventer Assembly (inludes gate valves)	40.375	52.375	62.875	75	90	1
H- Pressure Reducing Valve (PRV) (excludes shutoffs)	12	15	20	25.375	29.75	1
Y-Strainer DI Class 125	10.125	12.125	18.5	21.625	26	1
Tee (Run)	11	13	16	18	22	1
Tee (Branch)	5.5	6.5	8	9	11	1
90° Bend	5.5	6.5	8	9	11]
Spool (FLGxFLG) (minimum length available)		4.25	4.5	5	5.5]

NOTES:

1. LAYING LENGTHS SHOWN ABOVE ARE APPROXIMATE AND BASED ON SPECIFIC MANUFACUTRER AND MODEL COMPONENTS. DESIGN ENGINEER TO VERIFY ALL DIMENSIONS, BASED ON ACTUAL EQUIPMENT AND FITTINGS PROPOSED.

2. LAYING LENGTHS NOTED A BOVE DO NOT INCLUDE GASKET THICKNESS.

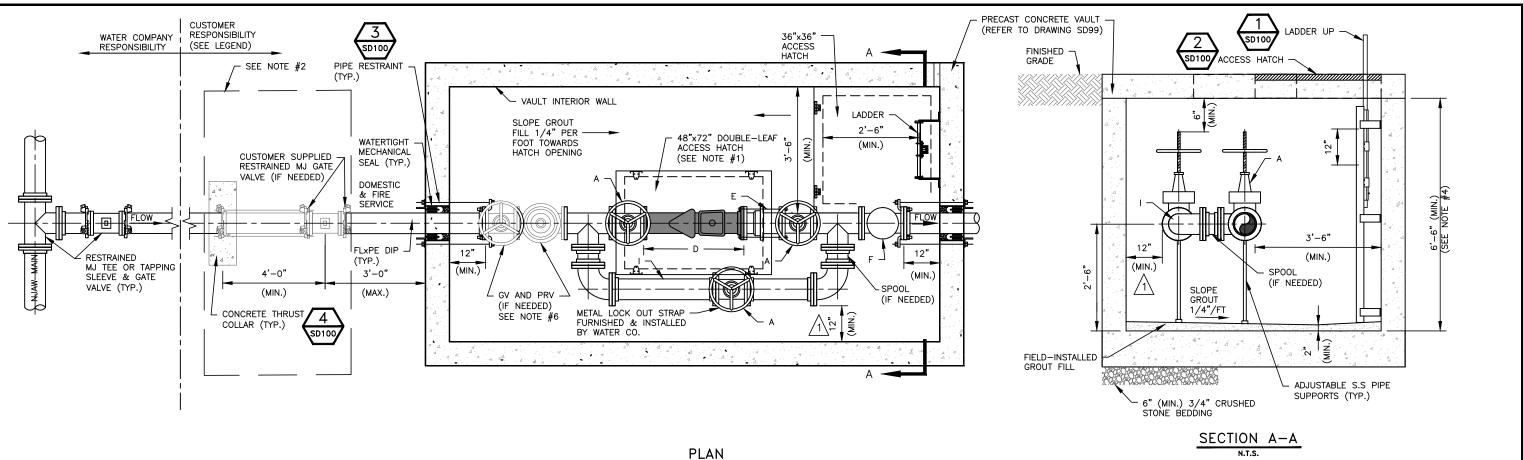
3. THE USE OF FLANGED COUPLING A DA PTERS IS STRICTLY PROHIBITED.

	REVIS	IONS	REVIS	IONS		AMERICAN WATER ENGINEERING 3906 Church RD.	
	Λ	REVISED LAYING LENGTHS R. BEATTY 11–29–22	\triangle			MT. LAUREL, NJ 08054	
×	\triangle		\triangle			AMERICAN WATER	
NEW JERSEY	\triangle		\triangle			DRAWN BY D. JOBE PROJECT ENG'R E. SCHWARTZ	
AMERICAN WATER	\triangle		\triangle			DATE 08-24-18	NEW JER
MULERICAL VIALER	\triangle		\triangle		NJ LICENSED PROFESSIONAL ENGINEER NO.	PROJECT	USE APP FOR CON

ERSEY AMERICAN WATER	STANDARDS	USE DIMENSIONS ONLY Scale as shown
PPROVED DRAWINGS ONLY DNSTRUCTION PURPOSES		0201-0601-SD102
		02010601SD102

STANDARD DETAIL DOMESTIC & FIRE SERVICE TYPICAL LAYING LENGTHS OF EQUIPMENT & FITTINGS

G:\acad\ACADCOM\NJ American Standard Details\02010601SD92.dwg, 11/29/2022 1:39:34 PM, DWG To PDF.pc3





LEGEND:

COMPONENTS SHADED IN GRAY TO BE FURNISHED BY WATER CO.

A- OS&Y GATE VALVE WITH FLANGED ENDS (FURNISHED & INSTALLED BY CUSTOMER)

- D- MULTI-USE METER ASSEMBLY- METERS WITH FLANGED ENDS (FURNISHED BY WATER CO., INSTALLED BY CUSTOMER)
- E- DISMANTLING JOINT TO HAVE FLANGED ENDS WITH JOINT RESTRAINT (FURNISHED & INSTALLED BY CUSTOMER)
- F- SWING CHECK WITH FLANGED ENDS (FURNISHED & INSTALLED BY CUSTOMER)
- I- BYPASS SIZE SHALL BE NO GREATER THAN ONE STANDARD PIPE SIZE SMALLER THAN DOMESTIC SERVICE SIZE AND SHALL HAVE METAL STRAP FOR LOCKING OUT BYPASS VALVE (STRAP FURNISHED & INSTALLED BY WATER CO.)

BACKFLOW DEVICE:

A BACKFLOW DEVICE IS REQUIRED BY THE NJDEP. THE BACKFLOW DEVICE IS FURNISHED & INSTALLED BY CUSTOMER. THE BACKFLOW DEVICE CANNOT BE INSTALLED INSIDE THE VAULT OR ANY CONFINED SPACE. IT MAY BE INSTALLED IN AN INSULATED HEATED ABOVEGROUND ENCLOSURE OR INSIDE THE BUILDING. THE BACKFLOW DEVICE MUST BE PLACED BEFORE THE FIRST CONNECTION. IF IN BUILDING, LOCATION MUST BE APPROVED BY NJAW PRIOR TO ANY INSTALLATION. REFER TO DRAWING 0201-0601-SD94. NOTES:

- WITHIN 3 FEET OF VAULT
- STAINLESS STEEL RODS/NUTS AND CLAMPS.

<u>GV SIZE</u>	VAULT HEIGHT
4"TO 8"	6'-6"
10"	7'-0"
12"	7'-6"

- PROHIBITED.
- BE PRECEEDED BY AN ADDITIONAL OS&Y GATE VALVE.

	REVIS	IONS	REVIS	IONS		AMERICAN WATER ENGINEERING	
		REVISED DIMENSIONS R. BEATTY 11-29-22				3906 CHURCH RD. MT. LAUREL, NJ 08054	
X	\triangle		\triangle			AMERICAN WATER	
NEW JERSEY	\triangle		\triangle			DRAWN BY R. BEATTY Project Eng'r E. Schwartz	
AMERICAN WATER	\square		Δ			DATE 08-24-18	NEW JERSEY A
The first of the f	\triangle		\triangle		NJ LICENSED PROFESSIONAL ENGINEER NO.	PROJECT	USE APPROVED FOR CONSTRUCT

1. VAULTS ARE REQUIRED BY NJAW FOR LARGE METERS (3" & LARGER) AND ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER. ACCESS TO VAULT VIA ALUMINUM 36"x36" BILCO PCM-4 TYPE, FLUSH, WATERTIGHT SIDEWALK DOOR W/ LADDER UP SAFETY POST OR EQUIVALENT. FOR SERVICE SIZES 8" & LARGER, A SECOND 48"x72" BILCO PDCM-3 HATCH IS REQUIRED TO BE CENTERED DIRECTLY ANOVE THE MULTI-USE METER ASSEMBLY. PLASTIC ENCASED STEEL OR ALUMINUM LADDER RUNGS CENTERED AT ONE VALVES. ALL VAULT AND PIPING CONSTRUCTION IS SUBJECT TO WATER COMPANY APPROVAL PRIOR TO SERVICE.

2. IF VAULT IS >20 FEET FROM NJAW SHUTOFF VALVE, CUSTOMER IS REQUIRED TO FURNISH & INSTALL AN ADDITIONAL RESTRAINED MECHANICAL JOINT GATE VALVE & VALVE BOX WITHIN 3 FEET OF THE VAULT. IF VAULT IS <20 FEET FROM NJAW SHUTOFF VALVE,</p> CUSTOMER SHALL INSTALL A SOLID, GASKETED, MECHANICAL JOINT SLEEVE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS

3. EXTERIOR VALVES & FITTINGS SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS, THUST COLLARS AND/OR 304

4. BASED ON THE LARGEST SIZE GATE VALVE REQUIRED, THE MINIMUM VAULT HEIGHT (INTERIOR DIMENSION) SHALL BE AS FOLLOWS:

5. VAULT PIPING TO BE DUCTILE IRON MEETING ANSI/AWWA C115/A21.15. THE USED OF FLANGED COUPLING ADAPTERS IS STRICTLY

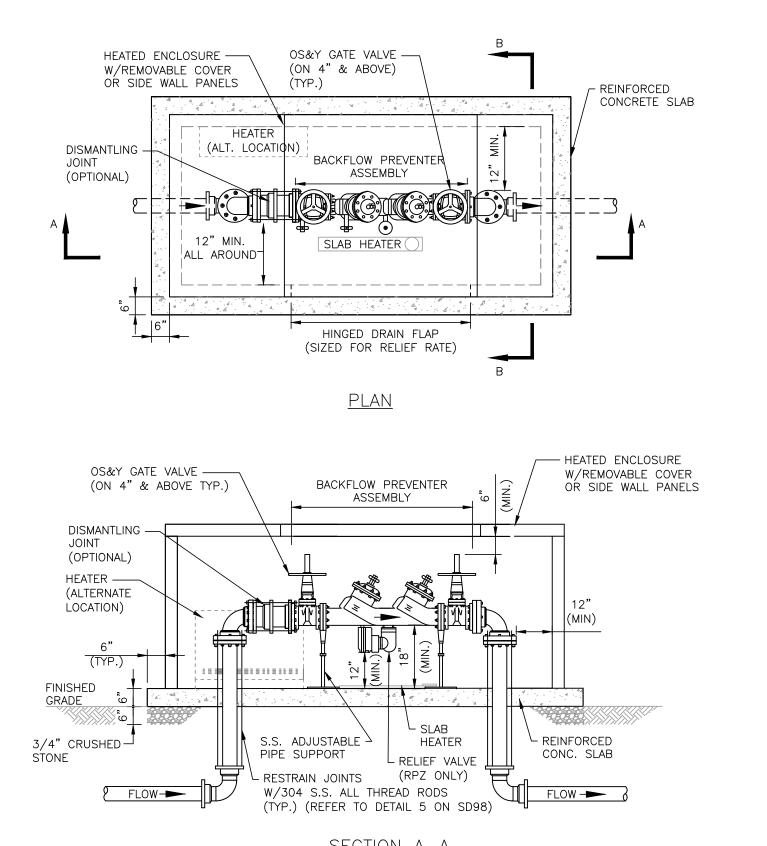
6. THE CUSTOMER MUST INSTALL A WATER PRESSURE REDUCING VALVE WHERE REQUIRED BY STATE OF NEW JERSEY PLUMBING CODE. INSTALLATION RECOMMENDED WHERE AVERAGE PRESSURE IS GREATER THAN 80 PSI. WHERE A PRV IS REQUIRED IT SHALL

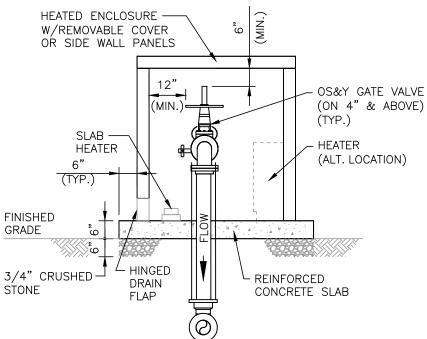
STANDARD DETAIL MULTI-USE SERVICE METER VAULT

SEY AMERICAN WATER	USE DIMENSIONS ONLY Scale Not to scale
ROVED DRAWINGS ONLY ISTRUCTION PURPOSES	0201-0601-SD92

NOTES:

- 4. INSULATED HEATED ENCLOSURE CHARACTERISTICS:
 - ABOVE SLAB.
- ABOVE 40° F AT ALL TIMES.
- SURROUNDING GRADE. REFER TO DRAWING SD101.





	<u>SLCHON</u>			<u>Sech</u>	
A	REVISIONS	REVISIONS		AMERICAN WATER ENGINEERING 3906 CHURCH RD.	
	\bigtriangleup	\bigtriangleup		MT. LAUREL, NJ 08054	
	\bigtriangleup	\bigtriangleup		AMERICAN WATER	
NEW IERSEV	\bigtriangleup	\bigtriangleup		DRAWN BY R. BEATTY PROJECT ENG'R R. SCHWATRZ	1
	\triangle	$ \Delta $		DATE 08-24-18	NEW JERSEY
VIERICAIN VVALER	$ \Delta $	$ \triangle $	LICENSED PROFESSIONAL NO.	PROJECT	USE APPROVED FOR CONSTRUC
	NEW JERSEY MERICAN WATER		REVISIONS REVISIONS NEWJERSEY A	$ \begin{array}{c c} $	REVISIONS AMERICAN WATER ENGINEERING MERICAN WATER ENGINEERING 3906 CHURCH RD. MT. LAUREL, NJ 08054 MT. LAUREL, NJ 08054 MT. DAUREN MT. LAUREN

1. BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE SUBJECT TO FLOODING.

2. BACKFLOW PREVENTER MUST BE INSTALLED ABOVE NATURAL GROUND, ABOVE THE 100 YEAR FLOOD LEVEL. UNLESS OTHERWISE APPROVED BY NJAW.

3. ENCLOSURE MUST MEET OSHA 29 CRF 1910.145 AND ASSE 1060 CLASS 1.

A. ENCLOSURE-5052-H32 MARINE GRADE ALUMINUM (0.050/18 GAUGE), MILL FINISH, OR 1/8" POLYESTER RESIN REINFORCED WITH FIBERGLASS STRAND B. INSULATION- 1-1/2" (R9) POLYISOCYANURATE FOAM C. HEATING SYSTEM- SLAB OR WALL MOUNT THERMOSTATICALLY CONTROLLED ELECTRIC HEATER MEETING SECTION 49 OF UL-2021 FOR DAMP OR WET LOCATIONS, WITH GFI RECEPTACLE, U.L. 943 NEMA 3R MOUNTED 8" (MIN.)

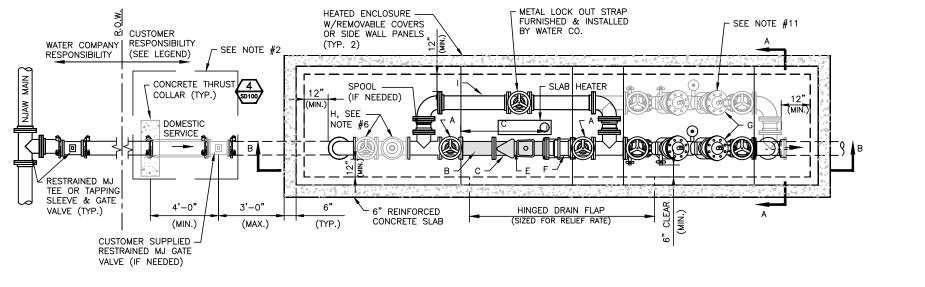
D. HEATER(S) SHALL BE PROVIDED AS NECESSARY TO MAINTAIN TEMPERATURE

6. ENCLOSURE MUST BE A SUFFICIENT SIZE TO HOUSE ALL REQUIRED PIPING. ENCLOSURE SHALL BE LOCKABLE. ACCESS PANELS SHALL BE ABOVE THE CENTERLINE OF THE ASSEMBLY, OR IN SIDE WALLS. ENCLOSURE TO HAVE HINGED ONE-WAY DRAIN FLAP SIZED FOR FULL PORT BACKFLOW DISCHARGE TO

SECTION B-B

STANDARD DETAIL SINGLE SERVICE BACKFLOW PREVENTER IN HEATED ENCLOSURE

SET AMERICAN WATER STANDARDS SCALE AS SHOWN	
roved drawings only Istruction purposes 0201-0601-S	D94



PLAN

NOTES:

- 1. IN LIEU OF PROVIDING A VAULT FOR LARGE METER(S) (3" & LARGER) AND AN ABOVEGOUND, HEATED ENCLOSURE FOR A BACKFLOW PREVENTER ASSEMBLY, NJAW MAY ALLOW BOTH THE METER ASSEMBLY AND THE BACKFLOW PREVENTER ASSEMBLY TO BE INSTALLED IN A SINGLE ABOVEGROUND, HEATED ENCLOSURE. IF APPROVED BY NJAW, THE ENCLOSURE AND ALL APPURTENANCES ARE TO BE FURNISHED AND INSTALLED BY CUSTOMER, UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE LEGEND. ALL ENCLOSURE AND PIPING CONSTRUCTION IS SUBJECT TO WATER COMPANY APPROVAL PRIOR TO SERVICE.
- 2. IF ENCLOSURE IS >20 FEET FROM NJAW SHUTOFF VALVE, CUSTOMER IS REQUIRED TO FURNISH & INSTALL AN ADDITIONAL RESTRAINED MECHANICAL JOINT GATE VALVE & VALVE BOX WITHIN 3 FEET OF THE ENCLOSURE. IF VAULT IS <20 FEET FROM NJAW SHUTOFF VALVE, CUSTOMER SHALL INSTALL A SOLID, GASKETED, MECHANICAL JOINT SLEEVE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS WITHIN 3 FEET OF VAULT.</p>
- 3. EXTERIOR VALVES SHALL & FITTINGS BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS, THRUST COLLARS AND/OR 304 STAINLESS STEEL RODS/NUTS AND CLAMPS.
- 4. BASED ON THE LARGEST SIZE GATE VALVE REQUIRED, THE MINIMUM ENCLOSURE HEIGHT (INTERIOR DIMENSION) SHALL BE AS INDICATED BELOW. LENGTH AND WIDTH SHALL BE AS INDICATED ON STANDARD DETAIL SD101.

<u>GV SIZE</u> ENCLOSURE HEIGHT

2" TO 8 6'-0" 10" 6'-6" 12' 7' - 0'

- 5. ENCLOSURE PIPING TO BE DUCTILE IRON MEETING ANSI/AWWA C115/A21.15, OR TYPE K DRAWN (HARD) TEMPER COPPER MEETING ASTM-B88. THE USE OF FLANGED COUPLING ADAPTERS IS STRICTLY PROHIBITED.
- 6. THE CUSTOMER MUST INSTALL A WATER PRESSURE REDUCING VALVE WHERE REQUIRED BY STATE OF NEW JERSEY PLUMBING CODE. INSTALLATION RECOMMENDED WHERE AVERAGE PRESSURE IS GREATER THAN 80 PSI. WHERE A PRV IS REQUIRED IT SHALL BE PRECEEDED BY AN ADDITIONAL OS&Y GATE VALVE.
- 7. BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE SUBJECT TO FLOODING.
- 8. BACKFLOW PREVENTER MUST BE INSTALLED ABOVE NATURAL GROUND, ABOVE THE 100 YEAR FLOOD LEVEL, UNLESS OTHERWISE APPROVED BY NJAW.
- 9. ENCLOSURE MUST MEET OSHA 29 CRF 1910.145 AND ASSE 1060 CLASS 1.

10. INSULATED HEATED ENCLOSURE CHARACTERISTICS:

- A. ENCLOSURE-5052-H32 MARINE GRADE ALUMINUM (0.050/18 GAUGE), MILL FINISH, OR 1/8" POLYESTER RESIN REINFORCED WITH FIBERGLASS STRAND
- B. INSULATION- 1-1/2" (R9) POLYISOCYANURATE FOAM
- C. HEATING SYSTEM- SLAB OR WALL MOUNT THERMOSTATICALLY CONTROLLED ELECTRIC HEATER MEETING SECTION 49 OF UL-2021 FOR DAMP OR WET LOCATIONS, WITH GFI RECEPTACLE, U.L. 943 NEMA 3R MOUNTED 8" (MIN.) ABOVE SLAB.
- D. HEATER(S) SHALL BE PROVIDED AS NECESSARY TO MAINTAIN TEMPERATURE ABOVE 40° F AT ALL TIMES.

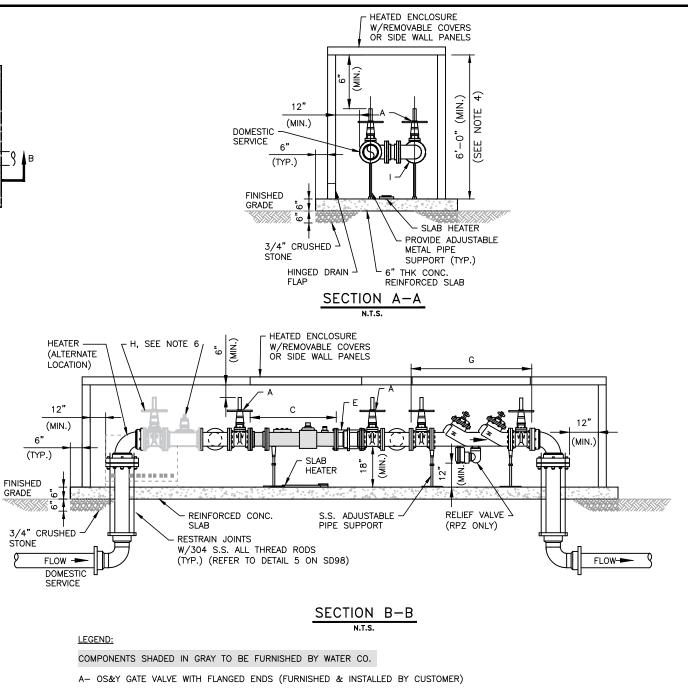
REVISIONS

- 11. CUSTOMERS THAT REQUIRE UNINTERRUPTED SUPPLY OF POTABLE WATER MUST INSTALL REDUNDANT BACKFLOW PREVENTER ASSEMBLIES.
- 12. ENCLOSURE MUST BE A SUFFICIENT SIZE TO HOUSE ALL REQUIRED PIPING. ENCLOSURE SHALL BE LOCKABLE. ACCESS PANELS SHALL BE ABOVE THE CENTERLINE OF THE ASSEMBLIES, OR IN SIDE WALLS. ENCLOSURE TO HAVE HINGED ONE-WAY DRAIN FLAP SIZED FOR FULL PORT BACKFLOW DISCHARGE TO SURROUNDING GRADE. REFER TO DRAWING SD101.



\triangle	\bigtriangleup	
\geq	\bigtriangleup	
$ \land $	\bigtriangleup	
\geq	\bigtriangleup	
$ \land $	\bigtriangleup	
		,

REVISIONS



- G- BACKFLOW PREVENTER ASSEMBLY (FURNISHED & INSTALLED BY CUSTOMER)

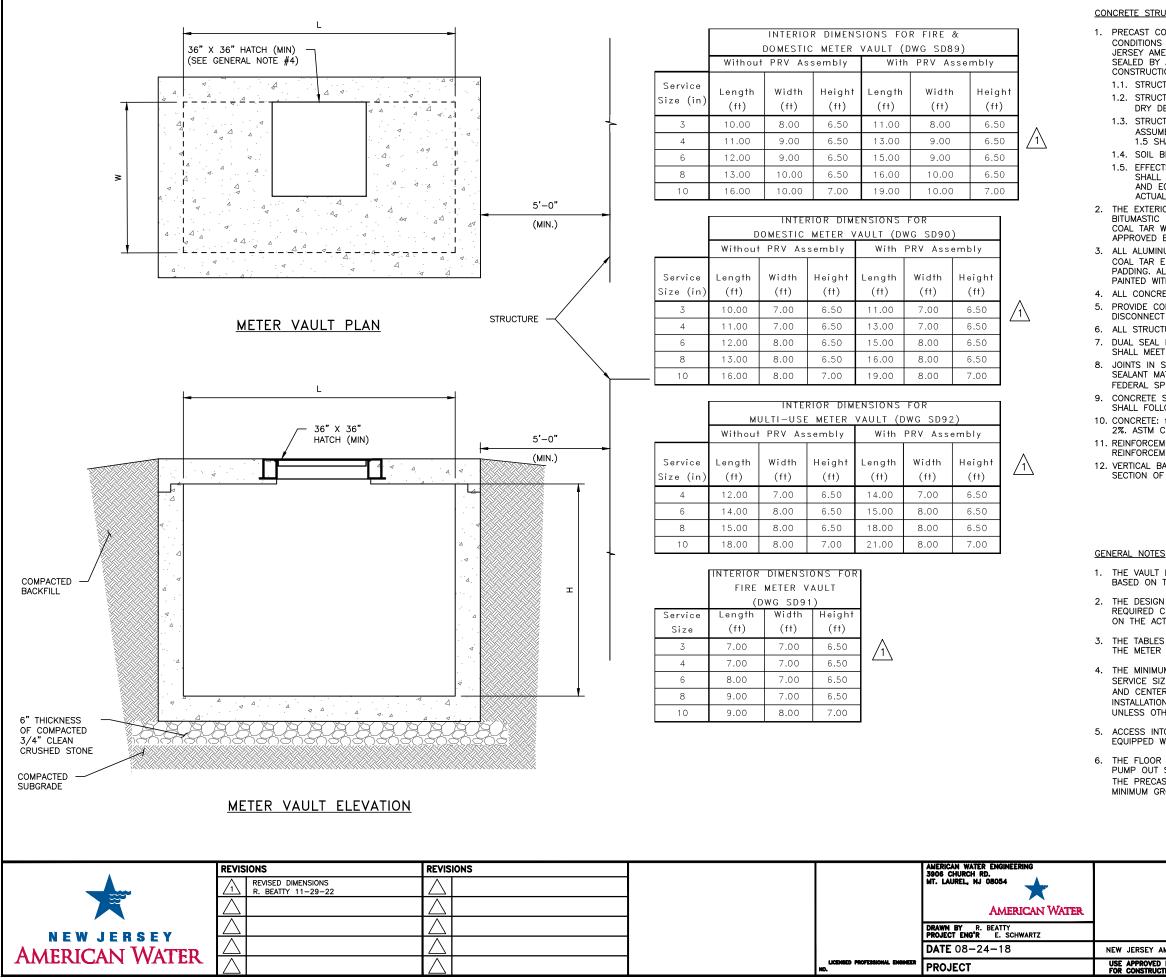
NJ LICENSED PROFESSIONAL ENGINEER NO.	PROJECT	USE APPROVED DR FOR CONSTRUCTION
	DATE 08-24-18	NEW JERSEY AME
	DRAWN BY R. BEATTY Project Eng'r E. Schwartz	
	AMERICAN WATER	
	AMERICAN WATER ENGINEERING 3906 CHURCH RD. MT. LAUREL, NJ 08054	

C- DOMESTIC COMPOUND METER ASSEMBLY- METERS WITH FLANGED ENDS (FURNISHED BY WATER CO., INSTALLED BY CUSTOMER) E- DISMANTLING JOINT TO HAVE FLANGED ENDS WITH JOINT RESTRAINT (FURNISHED & INSTALLED BY CUSTOMER)

H- PRESSURE REDUCING VALVE & OS&Y GATE VALVE (IF REQUIRED FURNISHED & INSTALLED BY CUSTOMER- SEE NOTE #7) I- BYPASS SIZE SHALL BE NO GREATER THAN ONE STANDARD PIPE SIZE SMALLER THAN DOMESTIC SERVICE SIZE AND SHALL HAVE METAL STRAP FOR LOCKING OUT BYPASS VALVE (STRAP FURNISHED & INSTALLED BY WATER CO.)

STANDARD DETAIL DOMESTIC METER & BACKFLOW PREVENTER IN HEATED ENCLOSURE

SEY AMERICAN WATER	STANDARDS	USE DIMENSIONS ONLY Scale as shown
ROVED DRAWINGS ONLY ISTRUCTION PURPOSES		0201-0601-SD96



CONCRETE STRUCTURE NOTES:

1. PRECAST CONCRETE METER VAULT SHALL BE DESIGNED FOR THE FOLLOWING CONDITIONS STATED BELOW (1.1 THROUGH 1.5). SUBMIT CALCULATIONS TO NEW JERSEY AMERICAN WATER FOR REVIEW. ALL CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE CONSTRUCTION IS TO TAKE PLACE.

1.1. STRUCTURE FILLED TO TOP WITH NO EXTERNAL SOIL PRESSURE. 1.2. STRUCTURE EMPTY WITH SOIL BACKFILL TO FINISHED GRADE. ASSUME SOIL DRY DENSITY AT 95 LBS/C.F. ASSUME SOIL SATURATED TO FINISHED GRADE. 1.3. STRUCTURE SHALL NOT FLOAT WITH SATURATED SOIL TO FINISHED GRADE. ASSUME SOIL LOAD ON CONCRETE LIP AT 32 LBS/C.F. A SAFETY FACTOR OF 1.5 SHALL BE PROVIDED IN THE FLOATATION CALCULATIONS. 1.4. SOIL BEARING PRESSURE OF 2,500 PSF.

1.5. EFFECTS OF ALL VERTICAL LOADS ANTICIPATED ON THE FINISHED STRUCTURE SHALL BE INCLUDED IN THE ANALYSIS AND DESIGN. LOADING FROM PIPING AND EQUIPMENT, HOIST, SUPERSTRUCTURES, SNOW, H-20 LIVE LOAD, AND ACTUAL DEPTH OF SOIL COVER SHALL BE INCLUDED.

2. THE EXTERIOR OF ALL PRECAST PRODUCTS SHALL BE COATED WITH TWO COATS OF BITUMASTIC PAINT, 16 TO 20 MIL DFT, TO FINISHED GRADE. USE PROMASTIC 900 COAL TAR WATERPROOFING MANUFACTURED BY PROGUARD COATING, INC., OR APPROVED FOUAL

3. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH 2 COATS OF COAL TAR EPOXY OR ISOLATED FROM THE CONCRETE WITH 1/8" THICK NEOPRENE PADDING. ALL STEEL THRUST RESTRAINT ANGLES SHALL BE WIRE BRUSHED AND PAINTED WITH 2 COATS OF COAL TAR EPOXY.

4. ALL CONCRETE ANCHORS AND HARDWARE SHALL BE STAINLESS STEEL.

5. PROVIDE COMMON KEYED LOCKS FOR ALL HATCHES, PANELS, DOORS AND QUICK DISCONNECT CAPS ASSOCIATED WITH THIS PROJECT.

6. ALL STRUCTURES SHALL BE WATERTIGHT.

7. DUAL SEAL II GASKETS DISTRIBUTED BY DUAL SEAL CORP., OR APPROVED EQUAL, SHALL MEET ASTM C923 REQUIREMENTS.

8. JOINTS IN STRUCTURE SHALL BE SEALED WITH BITUMEN CONSEAL CS-102-B JOINT SEALANT MATERIAL MANUFACTURED BY CONCRETE SEALANTS, INC AND MEET FEDERAL SPECIFICATION SS-S-00210 (210-A).

9. CONCRETE STRUCTURES SHALL MEET THE REQUIREMENTS OF ASTM C478. DESIGN SHALL FOLLOW ACI 318-14 USING LOAD FACTOR DESIGN.

10. CONCRETE: fc = 4,000 PSI AT 28 DAYS. TYPE III CEMENT. AIR ENTRAINMENT 7% ± 2%. ASTM C33 NO. 57 OR NO. 67 COARSE AGGREGATE.

11. REINFORCEMENT: WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. BAR REINFORCEMENT SHALL BE GRADE 60, CONFORMING TO ASTM A615. 12. VERTICAL BAR REINFORCEMENT REQUIRED BETWEEN BASE SLAB AND FIRST VERTICAL SECTION OF STRUCTURE.

1. THE VAULT DIMENSIONS NOTED ABOVE ARE APPROXIMATE MINIMUM REQUIREMENTS BASED ON THE EQUIPMENT AND LAYOUTS SHOWN ON DRAWINGS SD89 THROUGH SD92.

2. THE DESIGN ENGINEER SHALL MAKE HIS OWN DETERMINATION TO ENSURE THAT THE REQUIRED CLEARANCES NOTED ON THE METER VAULT DRAWINGS ARE ACHIEVED BASED ON THE ACTUAL SERVICE SIZE(S), EQUIPMENT AND FITTINGS PROPOSED.

3. THE TABLES PROVIDED ABOVE ARE BASED ON THE LARGEST SERVICE SIZE ENTERING THE METER VAULT.

4. THE MINIMUM ACCEPTABLE ACCESS HATCH SIZE IS 36' X 36". FOR MULTI-USE SERVICE SIZES 8" AND LARGER, A SECOND 48" X 72" HATCH SHALL BE PROVIDED AND CENTERED ABOVE THE MULTI-USE METER ASSEMBLY. THE HATCH TYPE(S) & INSTALLATION LOCATION(S) SHALL BE AS SHOWN ON DRAWINGS SD89 THROUGH SD92, UNLESS OTHERWISE APPROVED BY NJAW.

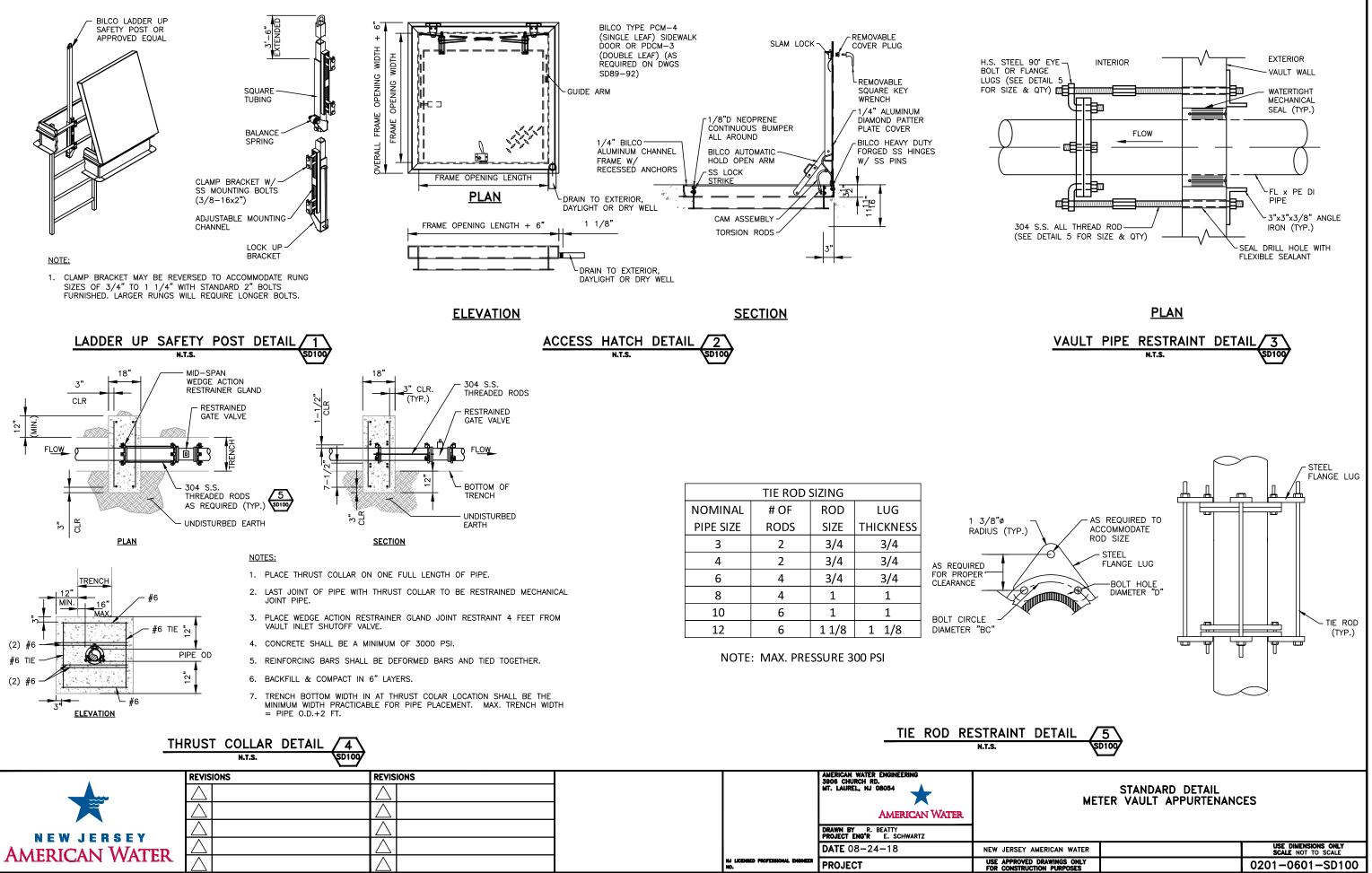
5. ACCESS INTO THE VAULT SHALL BE VIA AN OSHA COMPLIANT ALUMINUM LADDER EQUIPPED WITH AN APPROVED LADDER UP DEVICE.

6. THE FLOOR OF THE VAULT SHALL BE SLOPED TOWARDS THE HATCH TO ALLOW FOR PUMP OUT SHOULD THE NEED ARISE. GROUT FILL SHALL BE PLACED ON TOP OF THE PRECAST BASE AND SLOPED AT ‡" PER FOOT TOWARDS THE HATCH OPENING. MINIMUM GROUT THICKNESS SHALL BE 2".

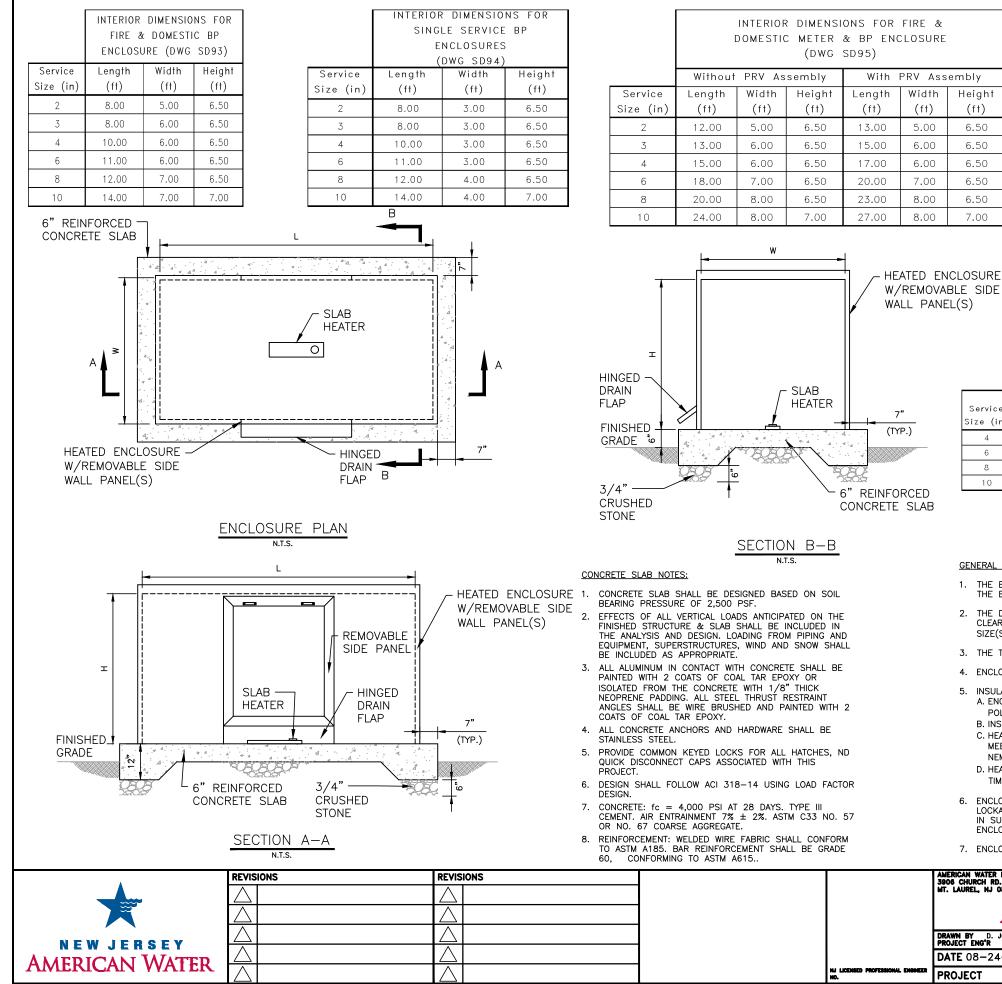
STANDARD DETAIL

METER VAULT

SEY AMERICAN WATER	USE DIMENSIONS ONLY Scale Not to scale
ROVED DRAWINGS ONLY STRUCTION PURPOSES	0201-0601-SD99



⁰²⁰¹⁰⁶⁰¹SD100



	DOMESTIC METER & BP ENCLOSURE (DWG SD96)					
	Without PRV Assembly		With PRV Assembly			
Service Size (in)	Length (ft)	Width (ft)	Height (ft)	Length (ft)	Width (ft)	Height (ft)
2	12.00	4.00	6.50	13.00	4.00	6.50
3	13.00	4.00	6.50	15.00	4.00	6.50
4	15.00	4.00	6.50	17.00	4.00	6.50
6	18.00	5.00	6.50	20.00	5.00	6.50
8	20.00	5.00	6.50	23.00	5.00	6.50
10	24.00	6.00	7.00	27.00	6.00	7.00

S)				
	м		IOR DIME E METER (DWG S	ξ
	Without	PRV Ass	sembly	ſ
Service Size (in)	Length (ft)	Width (ft)	Height (ft)	
4	16.00	4.00	6.50	
6	19.00	5.00	6.50	
8	22.00	5.00	6.50	
10	26.00	6.00	7.00	Г

GENERAL NOTES:

Height

(f†)

6.50

6.50

6.50

6.50

6.50

7.00

- THE EQUIPMENT AND LAYOUTS SHOWN ON DRAWINGS SD93 THROUGH SD98.
- SIZE(S), EQUIPMENT AND FITTINGS PROPOSED.
- 4. ENCLOSURE MUST MEET OSHA 29 CRF 1910.145 AND ASSE 1060 CLASS 1.
- 5. INSULATED HEATED ENCLOSURE CHARACTERISTICS. POLYESTER RESIN REINFORCED WITH FIBERGLASS STRAND B. INSULATION- 1-1/2" (R9) POLYISOCYANURATE FOAM
- NEMA 3R MOUNTED 8" (MIN.) ABOVE SLAB.
- TIMES.
- ENCLOSURE TO HAVE HINGED ONE-WAY DRAIN FLAP.
- 7. ENCLOSURE DIMENSIONS ARE MEASURED TO THE INSIDE WALLS.

AMERICAN WATER ENGI 3906 CHURCH RD. MT. LAUREL, NJ 08054 AMERICAN WATER DRAWN BY D. JOBE Project Eng'r e. Schwartz DATE 08-24-18 NEW JER USE APP PROJECT

INTERIOR DIMENSIONS FOR

NSIONS FOR				
& BP ENCLOSURE				
D98)				
With PRV Assembly				
Length	Width	Height		
(ft)	(ft)	(ft)		
18.00	4.00	6.50		
22.00	5.00	6.50		
25.00	5.00	6.50		
29.00	6.00	7.00		

	INTERIOR DIMENSIONS FOR FIRE METER & BP ENCLOSURE (DWG SD97)		
Service	Length	Width	Height
Size	(ft)	(f†)	(f†)
2	10.00	3.00	6.50
3	10.00	4.00	6.50
4	12.00	4.00	6.50
6	14.00	4.00	6.50
8	15.00	5.00	6.50
10	18.00	6.00	7.00

1. THE ENCLOSURE DIMENSIONS NOTED ABOVE ARE APPROXIMATE MINIMUM REQUIREMENTS BASED ON

2. THE DESIGN ENGINEER SHALL MAKE HIS OWN DETERMINATION TO ENSURE THAT THE REQUIRED CLEARANCES NOTED ON THE ENCLOSURE DRAWINGS ARE ACHIEVED BASED ON THE ACTUAL SERVICE

3. THE TABLES PROVIDED ABOVE ARE BASED ON THE LARGEST SERVICE SIZE ENTERING THE ENCLOSURE.

A. ENCLOSURE-5052-H32 MARINE GRADE ALUMINUM (0.050/18 GAUGE), MILL FINISH, OR 1/8" C. HEATING SYSTEM- SLAB OR WALL MOUNT THERMOSTATICALLY CONTROLLED ELECTRIC HEATER MEETING SECTION 49 OF UL-2021 FOR DAMP OR WET LOCATIONS, WITH GFI RECEPTACLE, U.L. 943 D. HEATER(S) SHALL BE PROVIDED AS NECESSARY TO MAINTAIN TEMPERATURE ABOVE 40* F AT ALL

6. ENCLOSURE MUST BE A SUFFICIENT SIZE TO HOUSE ALL REQUIRED PIPING. ENCLOSURE SHALL BE LOCKABLE. ACCESS PANELS SHALL BE ABOVE THE CENTERLINE OF THE ASSEMBLY, OR IN SIDE WALLS IN SUFFICIENT NUMBER AND LOCATION TO FACILITATE MAINTENANCE & REPAIRS ON ALL COMPONENTS.

STANDARD DETAIL

HEATED ENCLOSURE

RSEY AMERICAN WATER	STANDARDS	USE DIMENSIONS ONLY Scale as shown
PROVED DRAWINGS ONLY INSTRUCTION PURPOSES		0201-0601-SD101

02010601SD101