Tract or Parcel	Project Name	e	PCN	Checked By	Date
	City of La	Quinta Public Worl	ks Department -	· Public Water Revie	w Checklist
WATER PII	PE SIZING				
	☐ Main Line Sizes	, 30-inch, 36-inch or			and commercial areas), 16-inch, areas, then sizing of minimum
l	<ul> <li>Hard copy of Fire analysis and mo</li> </ul>	re Department appro odeling. Fire Flow/H	ydraulic Analysis		irms pipe sizing from hydraulic e size. Provide water line for defined.
1	☐ Hydraulic Analy Value = 150 for		C Value = 120 fc	or CML/CMC or DI pe	r Hazen-William formula and C
	□ Service Line Min Plumbing Code.	Meter sizes as foll rvice line and fitting,	. It shall be sized ows: ¾-inch me	in accordance with Seter with 1-inch service	Section 1009 of the Uniform e line and fitting, 1-inch meter and fitting or 2-inch meter with
WATER PII	PELINE REQUIREN	MENTS PER CVWD			
	☐ 18-inch pipe m☐ Minimum press☐ Minimum press☐ Maximum Velo	inimum-all frontage. sure (static) = 60 psi sure (fire) = 20 psi (a	t fire hydrant).	er pipe & valve manu	facturer, or <100 psi).
	o Cul- ☐ Maximum Hea	-de-Sac/dead end pi d loss:	pelines = 10 ft/se	ec	
	☐ Pipe shall have		f 36 inches. If no	t possible, pipe strenç 111 and east of Wash	
WATER PII		PER GENERALIZED	CVWD SPECIF	ICATIONS – SEE CV	WD FOR MORE DETAILS
	Diameter Less than 8-inch	DIP			
	Less than o-mon	PVC			
		Copper (typ. 2-inch	n diameter or less	3)	
	8-inch & 12-inch	DIP CML/CMC			
	16-inch	DIP CML/CMC			
	18-inch to 42-inch	DIP CML/CMC			
	CML/CMC - Ceme	ipe (polyethylene wr ent mortar lined & coa loride pressure pipe	ated steel pipe (n	re locations) on corrosive locations	s)
	PE LOCATIONS				
		or more above sewe ft per Coachella Vall			ay from sewer line when running
	□ Waterline is a m				utilities when running parallel. ices (See CVWD Std W-1 and
		ns at all crossings;	sewer, water and	storm drains.	

WATER VALVES						
		Small Mains (12-inches or less)				
		o Full Line Size Gate Valves				
		<ul> <li>Resilient Seat</li> <li>Ductile Iron</li> </ul>				
		Epoxy Coated				
		<ul> <li>Lined in accordance w/American Water Works Association (AWWA) C509</li> </ul>				
		Large Mains (16-inches and greater)				
		Full Line Size Butterfly Valves				
		Epoxy Lined and Coated				
		Ductile Iron Flanged Butterfly Valves     Olean 450B in accordance with ANNA C504				
	П	<ul> <li>Class 150B in accordance with AWWA C504</li> <li>Maximum Spacing for main line valves does not exceed 1000 ft or as directed by the City.</li> </ul>				
		Valves Located on Discharge Side of Connections (idea is to isolate minimum effected area during repair)				
	_	Minimum 3 at Crossings				
		o Minimum 2 at Tees				
		<ul> <li>Always at beginning of Dead End Mains</li> </ul>				
		City require additional valves at critical sections				
	_	Additional valves when more than 3 valves required for isolating a pipeline section.    Institute   Valves flowered to Company Top within Street letters exting				
		Isolation Valves flanged to Cross or Tee within Street Intersection Isolation Valves direct buried.				
	ш	isolation valves direct bulled.				
WATER BA	WATER BACKFLOW PREVENTION					
		Backflow prevention found on all Domestic Water Service & Irrigation Connections for all Commercial and				
		Industrial Buildings.				
		Backflow prevention found on domestic water service connections where recycle water is used on the				
		property.  Backflow prevention found on domestic services where water from other sources may become cross-				
	ш	connected. Also see Title 17, Drinking Water Supplies, of the California Administration Code.				
		connected. Also see This 17, Diriking Water Supplies, of the Samornia Administration South				
CORROSIV	E S	SOIL DESIGN				
		Cathodic test stations provided when corrosive soils are encountered, City requires cathodic protection				
	_	for transmission mains and major pipelines regardless of soil conditions.				
		Testing shall evaluate PH, Redox, Sulfide, Resistivity and Sulfate per Field and Laboratory testing. Special protective coatings for pipe and fittings provided, as applicable				
		Test stations installed behind existing or proposed curbs to allow safe access to personnel.				
		Test stations installed at 1000 ft intervals or as per City Engineer.				
SERVICE II		TALLATIONS				
		Services shall not be connected to 18 inch or larger mains without City Approval.				
	Ц	Arterial Roadway Medians and Private Projects Landscape Easements shall utilize separate meters.				
FIRE HYDE	RAN	TS .				
		Installed at 300 ft increments except on Arterial Roads				
		500 ft Separations on Arterials. Alternate sides of Roadway.				
		5 ft Minimum Separation from Driveways, Street Light, Power Pole, Sign, Fence, Walls, Etc.				
		12 inches behind sidewalk when sidewalk is adjacent to curb (must have break-off check valve).				
		Piping shall be the same as the mains and include break-off check valve.				
	_	The state of the define define manife and mended break on check valve.				
<b>BLOW-OFF</b>	S					
	_	Main Size Blow-Off Size				
		12-inch to 16-inch 4-inch				
		18-inch to 24-inch 6-inch   > 24-inch 8-inch				
		Located at all low points and all dead ends.				
		Located at all upstream sides of mainline pipelines 16-inches in diameter or greater.				
		Located as near to storm drain catch basins as possible.				
		On Arterial streets, located prior to curb radius with service line perpendicular with mainline.				

COMBINATIO	N AIR/VACUUM RELEASE VALVES
	Located at all high points.
<del></del>	Located at all dead ends.
	Located at all downstream sides of mainline pipelines 16-inches in diameter or greater.
	On Arterial streets, located prior to curb radius with service line perpendicular with main line.
	Air Vac sizing shall be based on APCO APSLIDE Model or Engineering Calculations.
TEMPORARY	END OF LINE APPURTENANCES
	4-inch blow off installed at each end of line segment for future use.
	Install an air vacuum if the end of line creates a high point.
TRACER WIR	<u> </u>
	Install tracer wire on all PVC waterlines.
	Locator wire shall be brought to the surface of all appurtenances (i.e. fire hydrants, water servicesetc).
DUCTILE IRO	N FITTINGS FOR PVC C900
	Fittings shall be Cast Iron push on or mechanical joint with exceptions.
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	Unless specified, line w/cement motor (double thickness) & seal w/bituminous coating per ANSI A21.6 or ANSI 21.51.
	Shall be encased by polyethylene per AWWA C105 at time of installation.
RESTRAINED	SYSTEM – USE ON SLOPES, ETC.
	PVC – Use Uni-flange or Mega-Lug
	DIP – Field lock gaskets or TR-Flex Joints
	CML & CMC Steel Pipe – Welded joints
	Water working pressure equal to full rating with a minimum 2:1 safety factor.
	All devices shall provide 360 degree of support around the circumference of the pipe.
	Restrained on each side of bends, tees, reducers & other fittings to be determined by EOR or manufacturer