ATTACHMENT A
SOLE SOURCE FACILITY JUSTIFICATION TRANSMITTAL

Public Contract Code section 3400 provides, in pertinent part, that:

"(a) The Legislature finds and declares that it is the intent of this section to encourage contractors and manufacturers to develop and implement new and ingenious materials, products, and services that function as well, in all essential respects, as materials, products, and services that are required by a contract, but at a lower cost to taxpayers.

(b) No agency of the state, nor any political subdivision, municipal corporation, or district, nor any public officer or person charged with the letting of contracts for the construction, alteration, or repair of public works, shall draft or cause to be drafted specifications for bids, in connection with the construction, alteration, or repair of public works, (1) in a manner that limits the bidding, directly or indirectly, to any one specific concern, or (2) calling for a designated material, product, thing, or service by specific brand or trade name unless the specification is followed by the words "or equal" so that bidders may furnish any equal material, product, thing, or service. In applying this section, the specifying agency shall, if aware of an equal product manufactured in this state, name that product in the specification. Specifications shall provide a period of time prior to or after, or prior to and after, the award of the contract for submission of data substantiating a request for a substitution of "an equal" item. If no time period is specified, data may be submitted any time within 35 days after the award of the contract.

(c) Subdivision (b) is not applicable if the awarding authority, or its designee, makes a finding that is described in the invitation for bids or request for proposals that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes:

(2) In order to match other products in use on a particular public improvement either completed or in the course of completion."

Weathermatic Irrigation Valves (Master & Station)

This is a sole source procurement because:

- ☐ This is a sole provider of items compatible with existing equipment or systems.
- ☑ This is a sole provider of items compatible with existing equipment or systems.
- ☐ This is a sole provider of factory-authorized warranty service.
- ☐ This is a sole provider of goods or services that perform a unique function in order to meet the specialized needs of the District. Please provide specific detail below.

  The District's Irrigation Center Control system is currently Weathermatic Smartlink. Communication between Smartlink and another brand would not be compatible.

- ☑ There are overriding circumstances which negate the benefit of compliance with applicable code and District policy regarding competitive bidding processes. Below are specific details below as to what those circumstances are, and why this sole source procurement would be in the best interest of the District.

The District's irrigation control system is Weatehrmatic Smartlink which allows the landscape team to manage and control all campus irrigation systems. The risk factors and challenges stated below present overriding circumstances which would negate the benefit that any competitive bid could offer:

- Risk of other brand weather sensors not being compatible and damaging landscape.
- Potential for system incompatibility and/or failure to integrate with the Weathermatic Smartlink software.
- Cost of removal, disassembly and replacement of existing irrigation systems throughout all campuses.
- Cost of additional training of staff on new software and equipment.

Weathermatic is the sole manufacturer of the District's irrigation central control system, its affiliated franchises are the exclusive providers of the equipment, services and maintenance required to support the irrigation system.

What steps were taken to verify that these goods or services are not available elsewhere?

See Supplier and Contractor Information Page Below For Contact Details.
Each vendor was asked whether or not their firm could provide service, maintenance and monitoring to the Weathermatic Irrigation Valves without removing, replacing or otherwise modifying the current equipment?

This is a restricted brand or trade name, and no substitutions are allowed because:

☑ The requested product is an integral repair part or accessory compatible with existing landscaping and irrigation systems.

Equipment/System: Weathermatic Irrigation Valves (Master & Station)
Manufacturer/Model Number: 8200 Series, 10D, 12D, 15D, 20D, 25D, 30D

☑ The District has standardized on the requested product, and use of another brand/model would require considerable time and funding to evaluate or implement. Please provide details below:

The District has standardize on the Weathermatic Smartlink irrigation control system. Only Weathermatic Flow Communications are compatible with the Smartlink technology.

Supplier or Contractor Information:

Weathermatic
3301 W Kinglsey Rd
Garland, TX 75041
(972)278-6131

RECOMMENDATION

Sufficient evidence has been provided upon which the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Approve a finding to authorize use of the above stated exception for Irrigation Valves (Master & Station) in the MiraCosta Design Standards Manual for all the projects in the MM program. Require that said finding be included in all pertinent bid/proposal documents for those projects where such product(s) will be used.

SIGNATURE:

Tom Macias, Facilities Director — **Date** 9/14/18

Geoff Bachanas, PMO Director — **Date** 9/17/18

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ATTACHMENT B
SOLE SOURCE ARCHITECT/ENGINEERING JUSTIFICATION SUMMARY REPORT TRANSMITTAL

September 1, 2018

Re: Weathermatic Irrigation Valves (Master & Station)

Within the Design & Construction Standards MiraCosta CCD has identified or designed various proprietary systems or products that meet specific District performance requirements, allow for seamless integration into existing systems, provide ease of maintenance, and afford a lower total cost of ownership. In these instances, the District is requesting that these systems and products shall be provided without substitution. The following Specification Section 32 84 00 is one that meets these special requirements.

Our experience working with other Colleges and Universities shows that single sources for some materials, products, equipment, and systems is a common approach to achieving best value.

We have reviewed the facility justification transmittal for the above-referenced item and believe that the District's sole-sourcing of this specification section meets the requirements for District's benefit as described above.

Sincerely,

Joe Sion
Associate Principal/Senior Manager

523 W 6th Street #245
Los Angeles CA 90014

Weathermatic™
Water Conserving Innovation

Technical Specifications
8200CR SERIES – BRASS BULLET REMOTE CONTROL VALVE

FEATURES

- 10 year warranty and 100% water tested
- 225 psi (15,5 bar) rating
- S24B high-efficiency solenoid for positive opening at high pressures. Stainless steel actuator and brass threads
- Bronze body and cover with stainless steel cover bolts
- Unique "reverse flow" porting design permits equal pressure distribution on both sides of the diaphragm, regardless of line pressure providing zero stress to prevent "stretching," a common cause of valve failure
- Normally closed valve for water conservation
- Diaphragm's self-cleaning ports constantly flex, inhibiting sand and silt from blocking valve action
- Brass shock cone for smooth operation and reduction of water hammer
- Easy-to-use internal manual bleed lever; bleeds valve downstream; has stops for open and closed positions
- Brass non-rising flow control stem (stainless steel stem on 2 1/2 and3 in. models) throttles valve from full open to closed position
- Excellent for micro-irrigation
- Contamination resistant (CR)
- Chloramine resistant diaphragm

OPTIONS (FACTORY INSTALLED)

- XPR Pressure Regulator–the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure (see PRK-24in valve accessory section for specifications)
- Non-potable Alert Solenoid; may be substituted for standard model (specify XS24NP)

ELECTRICAL

- Wiring requires a single lead from the controller to each solenoid, plus a common neutral to all solenoids; type UF wire, U.L. listed, is recommended for all hookups

24VAC/60 Hz	24 VAC/50 Hz
Inrush: 9.86 VA	Inrush: 10.7 VA
Holding: 5.69	VA Holding: 7.5 VA

- Do not use nominal voltage ratings listed above for sizing of valve wires

INSTALLATION

- Teflon tape is recommended

*International threads (specify ISO)

8200CR

8200CR with XPR option

Weathermatic™
Water Conserving Innovation
3301 W. Kingsley Road
Garland, Texas 75041-2207
888-484-3776 Fax: 972-271-5710
www.weathermatic.com

Weathermatic™
Water Conserving Innovation

Technical Specifications
8200CR SERIES – BRASS BULLET REMOTE CONTROL VALVE

CONTAMINATION RESISTANT REMOTE CONTROL VALVES shall be No. 8200CR Brass Bullet series Valves as manufactured by Weathermatic Sprinkler Division of Telsco Industries, or approved equal, with hand operated manual internal bleed and flow control. Valve shall be solenoid operated, diaphragm, reverse flow type, with 225 psi CWP rating, having NPT threads (optional ISO threads) and suitable for underground burial without protection.

CONSTRUCTION: Valve shall be bronze body and cover with stainless steel spring. Cover shall be secured to body with stainless steel cover bolts tapped into the body casting. Diaphragm shall be chlorine/chloramines resistant, molded material with heavy seat to form an integral unit. The diaphragm assembly should have a brass shock cone to dampen pressure fluctuations and ensure smooth operation. Design shall be reverse flow causing automatic closure in event of diaphragm wall failure. Valve shall be packless, without sliding seals, and completely serviceable without removing body from pipeline. Design shall be "normally closed" requiring solenoid to be energized to open valve, thereby causing automatic closure in event of power failure. Solenoid shall comply with Class II National Electric Code and when operating require a maximum of 5.69 VA at 24 volts ac. Stainless steel actuator shall inhibit corrosion. Solenoid shall be integrally mounted in valve cover and encapsulated in molded-resin to form a moisture-proof unit with exposed metal components of non-corrosive material. Flow control shall be Brass and stainless steel on 2 ½ - 3 inch, with O-ring seal and adjustable from outside the valve for permanent throttling or complete closing of valve. Valve shall accept the Weathermatic PRK- 24 pressure-regulating device without replacement of the valve body or cover.

OPERATION: Solenoid shall be energized to open the valve hydraulically and de-energized to close. Pressure to the hydraulic chamber shall be supplied internally through non-metallic, corrosion-free orifices in the diaphragm causing a cleansing action of the orifices. Contamination resistance shall be provided without the use of screens, filters or strainers. In event of tear in diaphragm wall valve shall remain in the closed position. Minimum flow range shall be no more than 1 GPH.

WARRANTY: The valve shall have a manufacturer's limited warranty of not less than ten (10) years.

8200CR SERIES VALVE
1. WEATHERMATIC 8200CR SERIES REMOTE CONTROL VALVE
2. INSTALL THREADS MALE ADAPTER WITH TEFLON TAPE/TYP.
3. SOLENOID
4. MANUAL BLEED LEVER
5. 3/4 INCH GRAVEL SUPPORTER
6. RECTANGULAR VALVE BOX
7. EXPANSION COIL & WATERPROOF CONNECTOR

Weathermatic™
Water Conserving Innovation
3301 W. Kingsley Road
Garland, Texas 75041-2207
888-484-3776 Fax: 972-271-5710
www.weathermatic.com

8200

Models

8200CR-10D
1" Red Brass Valve - 24VAC with Flow Control

8200CR-12D
1-1/4" Red Brass Valve - 24VAC with Flow Control

8200CR-15D
1-1/2" Red Brass Valve - 24VAC with Flow Control

8200CR-20D
2" Red Brass Valve - 24VAC with Flow Control

8200CR-25D
2-1/2" Red Brass Valve - 24VAC with Flow Control

8200CR-30D
3" Red Brass Valve - 24VAC with Flow Control

Design Specifications

How To Specify

- Bronze Bullet Specifications

MODEL	DESCRIPTION	Factory Installed Options (choose one)		Valve Dimensions		
				Length	Width	Height
8200CR-10D	1" Red Brass Valve – 24VAC with Flow Control	-XPR Pressure Regulator– the Weathermatic XPR pressure regulating module senses inlet pressure and maintains constant outlet pressure.	-NP Non-potable alert flow handle may be substituted for the standard flow handle			
8200CR-12D	1 1/4" Red Brass Valve – 24VAC with Flow Control					
8200CR-15D	1 1/2" Red BrassValve – 24VAC with Flow Control					
8200CR-20D	2" Red Brass Valve – 24VAC with Flow Control					
8200CR-25D	2 1/2" Red Brass Valve – 24VAC with Flow Control					
8200CR-30D	3" Red Brass Valve – 24VAC with Flow Control					

Categories: Bronze Bullet, How to Specify, Valves

+ Bronze Bullet Valve Pressure Loss

Pressure Loss

Flow gpm	8200CR-10	8200CR-12D	8200CR-15D	8200CR-20D	8200CR-25D	8200CR-30D	Flow m3/h	8200CR-10	8200CR-12D	8200CR-15D	8200CR-20D	8200CR-25D	8200CR-30D
	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"		1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
0 – 10	1.5 max						0 – 2,3	0,10 max					
12	1.8*						3,0	0,14*					
16	2.4	1.9*					4,0	0,19	0,15*				
20	3.1	2.3	1.4*				5,0	0,25	0.19	0,11*			
25	4	3	1.7				6,0	0,30	0.22	0,13			
30	4.9	3.5	2.1				7,0	0,35	0,26	0,15			
35	5.9	4.1	2.5				8,0	0,42	0,30	0,17			
40	7.2	4.7	2.9	1.1*			9.0	0.50	0.33	0.20	0.08*		
45		5.5	3.3	1.3			10,0		0.37	0,23	0,08		
50		6.3	3.7	1.5			11,0		0.43	0,25	0,10		
55			4.2	1.8			12,0			0,28	0,12		
60			4.8	2	1.0*	0.5*	14,0			0,35	0,15	0,08*	0,04*
70			6.2	2.6	1.2	0.7	16,0			0,43	0,19	0,10	0,05
80			7.9	3.4	1.8	0.9	18,0			0,54	0,24	0,12	0,06
90			10.1	4.3	2.1	1.1	20,0			0,68	0,29	0,15	0,08
100				5.3	2.6	1.3	24,0				0,42	0,20	0,10
120				8	3.6	1.8	28,0				0,61	0,27	0,13
140				12	4.8	2.4	32,0				0,84	0,34	0,17
160				18.2	6.1	3.1	36,0				1,23	0,42	0,21
180					7.5	3.8	40,0					0,51	0,27
200					9.1	4.6	50,0					0,77	0,40
250					14	7.1	60,0					1,09	0,56
300					19.5	10.1	70,0					1,45	0,76
350						13.8	80,0						1,00
400						19.3	90,0						1,34

Categories: Bronze Bullet, How to Specify, Valves