

WEAVER GENERAL CONSTRUCTION COMPANY

3679 S. Huron St., Suite 404

Englewood, CO 80110

Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITAL

	Novemb	er 2,	, 2011	
<u>WGC</u>	Submittal	No:	03300-	022.A

PROJECT:

Harold Thompson Regional WRF

Birdsall Rd.

Fountain, CO 80817 Job No. 2908

ENGINEER:

GMS, Inc.

611 No. Weber St., #300 Colorado Springs, CO 80903 719-475-2935 Roger Sams

OWNER:

Lower Fountain Metropolitan Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817

719-382-5303 James Heckman

CONTRACTOR:

Baker Concrete Construction

1904 Jasper Street Aurora, CO 80011

937-536-9000 Nick Dewald

SUBJECT: Resubmittal - Headworks Building submittal request to use previously approved materials.

BCCI Remarks: "BCCI proposes to use the same approved material from the Aeration Basin and Digester on the Headworks Bldg.

SPEC SECTION: 03300: Cast-In-Place

PREVIOUS SUBMISSION DATES: 10/25/11

DEVIATIONS FROM SPEC: ____ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

Contractor's Stamp:	Engineers Stamp:
Date: 11/2/11 Reviewed by: H.C. Myers (X) Reviewed Without Comments () Reviewed With Comments	·
ENGINEER'S COMMENTS:	



Letter of Transmittal/Submittal

			expect mi	are			
FROM:	Bal	ker Concr	ete Construction				
			sper Street		DATE	11/01/11	JOB NUMBER
		Aurora	, CO 80011			11/01/11	9921
			367.8111		ATTENTIO	N	Jacob/Leslie Brown
		Nick Dewa	ld 303.229.2695		<u> </u>	JOINI	Jacob/Lesne Brown
					RÉ:	Harold Ti	hompson Regional WRF
TO:	John Jacob/L						
	Weaver Gene						03300-002.A
	3679 South F	luron St.,	Suite 404		ļ.,		
	Englewood,	CO 80110				TR# 03300-027	
	John@weave	rgc.com/	leslie@weavergc.c	com	L3	SM# 03300-022A	
We are sen	dinarrarr	ATTACH	En	via <i>EM</i>	IA II	the following:	SPECIFICATION
we are sen	aing you:	ATTACH	EU	Via Ein	IAIL	ule tonowing.	SELCHICATION
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COPIES	DATE	PAGES	1	Des	cription	11, 11, 11, 11, 11, 11, 11, 11, 11, 11,	
1	11/1/2011	4	Headworks Build				
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	FOR APPRO	VAL		d material f	rom the Aerat	ion Basin and Diges	ter on the Headworks Bldg.
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COPY TO	File				GNED:	Nick Dewald	
				31	· •		e Construction, Inc.
						Baker Concret	e Construction, Inc.



Tuesday November 01, 2011

Weaver Construction Company

Attn: Mr. Wes Weaver 3679 South Huron St. Englewood, CO 80110 Phone: (303) 789-4111 Fax: (303) 789-4310

Re: Harold D. Thompson WRF Project, Fountain, CO

Subject: Headworks Building Submittals

Dear Wes,

Baker Concrete Construction, Inc. proposes to use the same approved material from the Aeration Basin and Digester on the Headworks Building per the approved submittals listed below.

- Submittal # 03300-001, Form Release Ezkote Green,
- Submittal # 03300-003, Cure Maxcure Resin Clear
- Submittal # 03300-004, Waterstop Greenstreak PVC Waterstop (product # 735 = # 7/7)
- Submittal # 03300-016, Waterstop BoMetals PVC Waterstop (RCB 938 NT)
- Submittal # 03300-005, Expansion Joint Fibre Expansion Joint Filler
- Submittal # 03300-008B, Patching Material Verticote Supreme
- Submittal # 03300-009B, Concrete Mix Design A65FDP for piers
- Submittal # 03300-009H, Concrete Mix Design A70F, 5" slump for Walls, 3" Slump for slabs
- Submittal # 03600-002A, Injectable Grout Green Mountain Grout
- WGC RFI 18A, Waterstop Sika Swell S2

If you have any questions, or if we can be of any further service, please call me at (303) 229-2695. Sincerely,

BAKER CONCRETE CONSTRUCTION, INC.

Nick Dewald Project Engineer Cc: Submittal 03300-022A

CONSULTING ENGINEERS 611 NORTH WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903-1074

TELEPHONE (719) 475-2935 TELEFAX (719) 475-2938

EDWARD D. MEYER, P.E. ROGER J. SAMS, P.E. GREGORY R. WORDEN, P.E. THOMAS A. McCLERNAN, P.E. KEN L. WHITE, P.L.S. DAVID R. FRISCH, P.L.S. MARK A. MORTON, P.E. JASON D, MEYER, P.E.

October 25, 2011

Mr. Wes Weaver, President Weaver Construction Management, Inc. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-022

Date of Submittal:

October 25, 2011

Title:

Headworks Building Submittal Letter

Specification Section:

03300

Supplier:

Baker Concrete Construction

The referenced submittal has been stamped "Revise and Resubmit". Our comments are as follows:

- 1. A submittal letter stating the materials to be used must include, at a minimum, the following:
 - a. Mix design number to be used
 - b. Reference to the shop submittal number and letter approving the mix design.
- 2. Numerous submittals and resubmittals were received and comments made on mix designs for the aeration basins and digesters. In light of that, it is necessary to have the specific mix designs and submittal reference where that mix design was approved.

Please call if you should have any questions.

Sincerely,

David R. Frisch, P.L.S.

Daid R. Fisch

DRF/kmw

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@Ifmsdd.org

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@fsd901.org

Mr. Jeff Burst, Project Supt., Weaver Construction Management, Inc., jeff@weavergc.com

Mr. John Jacob, Project Mgr., Weaver Construction Management, Inc., john@weavergc.com

Mr. Tyler Ammerman, Weaver Construction Management, Inc., tammerman@weavergc.com

Ms. Leslie Brown, Weaver Construction Management, Inc., leslie@weavergc.com

cc: Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

OCT 1 1 2010

GMS, INC. 611 NORTH WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903-1074

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KEN L. WHITE, P.L.S. DAVID R. FRISCH, P.L.S. MARK A. MORTON, P.E. JASON D. MEYER, P.E.

October 7, 2010.

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110

Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-001:

Date of Submittal:

September 27, 2010

Ezkote Green Form Release

Specification Section:

03300

Manufacturer:

US Spec

The referenced submittal has been stamped "No Exception Taken", No additional information or resubmittal is required on this item.

Please call if you should have any questions.

Sincerely,

Roger J. Sams, P.E.

RJS/kmw

cc (letter only):

Mr. Jim Heckman, Manager, LFMSDD, lfmanager@lfmsdd.org

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

CONSULTING ENGINEERS 611 NORTH WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903-1074

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October 7, 2010

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No .:

03300-003

Date of Submittal:

September 27, 2010

Title:

Maxcure Resin Curing Compound

Specification Section:

03300

Manufacturer:

US Spec

The referenced submittal has been stamped "No Exception Taken". No additional information or resubmittal is required on this item.

Please call if you should have any questions.

& Som

Sincerely,

Roger J. Sams, P.E.

RJS/kmw

cc (letter only):

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@lfmsdd.org

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

CONSULTING ENGINEERS
611 NORTH WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80908-1074

OCT 14 2010

TELEPHONE (719) 475-2935 TELEFAX (719) 475-2938

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October 7, 2010

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-004

Date of Submittal:

September 27, 2010

Title:

Waterstop

Specification Section:

03300

Manufacturer:

Greenstreak Group, Inc.

The referenced submittal has been stamped "No Exception Taken". No additional information or resubmittal is required on this item.

Please call if you should have any questions.

Sincerely,

Roger J. Sams, P.E

RJS/kmw

cc (letter only):

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@lfmsdd.org

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

CONSULTING ENGINEERS 611 NORTH WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903-1074

> TELEPHONE (719) 475-2935 TELEFAX (719) 475-2938

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October 7, 2010

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-005

Date of Submittal:

September 27, 2010

Title:

Fibre Expansion Joint

Specification Section:

03300

Manufacturer:

W. R. Meadows, Inc.

The referenced submittal has been stamped "No Exception Taken". No additional information or resubmittal is required on this item. Our comments are as follows:

1. Please note that use of this project will normally also require the use of the SNAP-CAP® product from the same manufacturer. Please provide a submittal confirming the availability and proposed use of that or a similar or equal product.

Please call if you should have any questions.

Sincerely,

Roger J. Sams, P.E.

RJS/kmw

cc (letter only):

Mr. Jim Heckman, Manager, LFMSDD, <u>lfmanager@lfmsdd.org</u>

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

CONSULTING ENGINEERS
611 NORTH WEBER, SUITE 300
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EDWARD D. MEYER, P.E.
ROGER J. SAMS, P.E.
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THOMAS A. McCLERNAN, P.E.

KEN L. WHITE, P.L.S. DAVID R. FRISCH, P.L.S. MARK A. MORTON, P.E. JASON D. MEYER, P.E.

June 23, 2011

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF) Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-008.B

Date of Submittal:

June 23, 2011

Title:

Grout for Tie Holes in Digester and Aeration Basins

Specification Section:

03600 Grout

Manufacturer:

The Euclid Chemical Company

The referenced submittal has been stamped "No Exception Taken". No additional information or resubmittal is required on this item except as noted below. Our comments are as follows:

- We take no exception to the use of the Verticoat Supreme product.
- Please ensure the preparation, use and application of this product, as proposed, is completed in strict accordance with all manufacturer's recommendations and requirements, particularly the surface preparation.

Please call if you should have any questions.

Sincerely,

David R. Frisch, P.L.S.

David R. Frisch

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@lfmsdd.org

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@qwestoffice.net

Mr. Jeff Burst, Project Superintendent, Weaver General Construction Co., jeff@weavergc.com

Mr. John Jacob, Project Manager, Weaver General Construction Co., john@weavergc.com

Ms. Leslie Brown, Weaver General Construction Co., leslie@weavergc.com

Mr. Mark A. Morton, P.E., GMS, Inc. mamorton@gmsengr.com

cc: Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

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CONSULTING ENGINEERS
611 NORTH WEBER, SUITE 300
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January 12, 2011

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF) Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-009B

Date of Submittal:

January 12, 2011

Title:

Cast-In-Place Concrete for Digesters/A-Basins, Drilled Caisson

Concrete Mix Only

Specification Section:

03300

Manufacturers:

Rocky Mountain Premix; BASF Construction Chemicals, LLC

The referenced submittal has been stamped "No Exception Taken". No additional information or resubmittal is required for the drilled caisson concrete mix design included in this Submittal No. 03300-009B. This Submittal No. 03300-009B pertains only to the drilled caisson concrete mix design, Mix Design No. A65FDP, for the aeration basins and aerobic digester basins. It does not include any resubmittal information for the walls, footings and general use concrete mix design, Mix Design No. A70F, of the structures. Information on Mix Design No. A70F is provided in Submittal No. 03300-009C.

Please call if you should have any questions.

Sincerely,

Mark A. Morton, P.E.

MAM/kmw

cc (letter only except as noted):

FAWPDATALFMSDDWAWTFIWeaverGenConsiColSubmitials(0): 315hopSub 03300-0098.dox

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@lfmsdd.org

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@qwestoffice.net

Mr. Jeff Burst, Project Superintendent, Weaver General Construction Co., jeff@weavergc.com

Ms. Leslie Brown, Weaver General Construction Co., leslie@weavergc.com

Mr. Jerry Miller, Resident Project Representative, GMS, Inc. (w/attachments)

CONSULTING ENGINEERS 611 NORTH WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903-1074

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EDWARD D. MEYER, P.E.
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KEN L. WHITE, P.L.S. DAVID R. FRISCH, P.L.S. MARK A. MORTON, P.E. JASON D. MEYER, P.E.

August 23, 2011

Mr. Wes Weaver, President Weaver Construction Management, Inc. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-009H

Date of Submittal:

July 26, 2011

Title:

Concrete Mix Designs for Headworks Building

Specification Section:

03300

Manufacturer:

Rocky Mountain Premix: BASF Construction Chemicals, LLC

The referenced submittal has been stamped "No Exception Taken <u>WITH COMMENTS</u>". No additional information or resubmittal is required on this item. Our comments are as follows:

- This submittal is a resubmittal with additional information for use of this concrete mix design in all
 portions of the Headworks Building, particularly all process-related walls at flow channels, and
 channel slabs. If the intended use in accordance with this resubmittal is not correctly stated,
 please inform GMS, Inc.
- 2. It has not clearly been stated that this mix design, Mix Design No. A70F, is intended for use on the non-process related floor slabs. Lacking that request, it is requested that a mix design with a maximum slump of 3 inches and a water/cement ratio no greater than 0.40 be utilized on all floor slabs in this facility. The non-process related floor slabs, i.e., screen room, future chemical feed area and dumpster room, require concrete material of the highest possible durability.
- 3. It is understood and agreed with Weaver Construction Management, Inc. (WCMI) that this submittal is accepted with comments as an accommodation to facilitate constructability in this structure. Although Submittal No. 03300-009G indicated this mix design was only acceptable in the headworks pump room walls, it is being accepted as described above. This is based on material submitted by WCMI in support of a request to determine that this particular mix design has suitable durability for this applied use. Representations by WCMI have been made that indicate this mix is suitable for the specified use in the HDTRWRF headworks facility.

- 4. Representations made in the supporting documentation provided by WCMI indicate that durability is largely dependent upon water/cement ratio. Because of the severe environmental conditions in this structure, i.e., corrosive conditions, it is absolutely imperative that the water/cement ratio be maintained as low as reasonably practical, no greater than 0.40. Should it be determined that a mix delivered to the site with a water/cement ratio greater than 0.40, it must be rejected by WCMI.
- 5. The submitted alternate Mix Design No. A70F indicates a maximum slump of 5" at the point of placement. This is an absolute maximum allowable for this mix design, no exceptions. It shall be the responsibility of the Contractor and his subcontractors and/or suppliers to ensure this slump and other mix design parameters of the project specifications are met at the point of placement in the formwork. Close coordination will be required to ensure that the concrete is batched, transported and placed appropriately to obtain the required product parameters at the point of placement.

Please call if you should have any questions.

Sincerely,

Roger J. Sams, P.E.

1 Cogn of Sams

RJS/kmw

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, lfmsdd.org

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@gwestoffice.net

Mr. Jeff Burst, Project Superintendent, Weaver General Construction Co., jeff@weavergc.com

Mr. John Jacob, Project Manager, Weaver General Construction Co., john@weavergc.com

Ms. Leslie Brown, Weaver General Construction Co., leslie@weavergc.com

Mr. Mike Gaines, P.E., MGA Structural Engineers, mg@mgase.com

cc (letter only):

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

CONSULTING ENGINEERS
611 NORTH WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903-1074

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July 14, 2011

Mr. Wes Weaver, President Weaver General Construction Co. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03300-016

Date of Submittal:

July 11, 2011

Title:

PVC Waterstop for Headworks Building

Specification Section:

03300

Manufacturer:

Bometals, Inc.

The referenced submittal has been stamped "No Exception Taken". No additional information or resubmittal is required on this item. Our comments are as follows:

1. We take no exception to the ribbed, center bulb waterstop style submitted. However, in those areas where the clear distance between the face of concrete and the reinforcing steel is less than 4½ inches, i.e., one-half of the length of the waterstop, the submitted 9-inch length waterstop may require modification to accommodate construction conditions. The Contractor has the option of using a 6-inch long waterstop in the same ribbed, center bulb style in such areas in order to minimize the trimming, notching or other modifications required to accommodate construction conditions.

Please call if you should have any questions.

Sincerely.

Mark A. Morton, P.E.

MAM/kmw

ec (letter only):

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@lfmsdd.org

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@fsd901.org

Mr. Jeff Burst, Project Superintendent, Weaver General Construction Co., jeff@weavergc.com

Mr. John Jacob, Project Manager, Weaver General Construction Co., john@weavergc.com

Ms. Leslie Brown, Weaver General Construction Co., leslie@weavergc.com

cc (letter only):

Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

F::NPDATA1LFMSDD*MWTF*WeaverGenConstCo/Submitted*Div 2/ShopSub 03300-016.do

CONSULTING ENGINEERS
611 NORTH WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903-1074

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DAVID R. FRISCH, P.L.S.
MARK A. MORTON, P.E.
JASON D. MEYER, P.E.

July 25, 2011

Mr. Wes Weaver, President Weaver Construction Management, Inc. 3679 South Huron Street, Suite 404 Englewood, CO 80110 Via Email to: wes@weavergc.com No Hard Copy to Follow

Re:

Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)

Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:

03600-002A

Date of Submittal:

July 22, 2011

Title:

Injectable Grout

Specification Section:

03600 Grout

Manufacturer:

Green Mountain International, LLC

The referenced submittal has been stamped "No Exception Taken" except as stated below. No additional information or resubmittal is required on this item. Our comments are as follows:

 If a crack is found to be greater than 1/16th inch or greater in width, we request the Contractor and/or their subcontractor contact us to discuss the crack sealing procedure that will be implemented prior to the work being accomplished.

Please call if you should have any questions.

Sincerely,

DRF/lme

ec (letter only):

David R. Frisch

David R. Frisch, P.L.S.

Mr. Jim Heckman, Manager, LFMSDD, Ifmanager@lfmsdd.org

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, fsdistrict@fsd901.org

Mr. Jeff Burst, Project Supt., Weaver Construction Management, Inc., jeff@weavergc.com

Mr. John Jacob, Project Mgr., Weaver Construction Management, Inc., john@weavergc.com

Ms. Leslie Brown, Weaver Construction Management, Inc., leslie@weavergc.com

cc (letter only):

Mr. Jerry Miller. Resident Project Representative, GMS, Inc.

OWNER: LFMSDD Contractor to Engineer Engineer to Contractor (Contractor to Engineer to Contractor (Contractor to Contractor (Contractor to Contractor (Contractor to Contractor (Contractor (Contrac	Request for Information -	18	ROUTING	DATE SENT	VIA MAIL, EMAIL OR FAX			DATE	VIA MAIL, EMAIL OR FAX		
Engineer 8/11/2011 X 8/11/2011 X PROJECT: HDTRWRF Engineer to Contractor Contractor Engineer to Contractor Contractor Engineer to En			-		М	Е	F	RECEIVED	M	E	F
ENGINEER: GMS, Inc. Copy to Owner CONTRACTOR: Weaver General Construction Co. RFI TITLE: Water stop detail and mat'l REFERENCE: A-HW6 CONTRACTOR'S REQUEST The following information, interpretation, or clarification is requested as described below or in the attachments.	OWNER: LFMSDD			8/11/2011		х		8/11/2011		Х	
CONTRACTOR: Weaver General Construction Co. RFI TITLE: Water stop detail and mat'l REFERENCE: A-HW6 CONTRACTOR'S REQUEST The following information, interpretation, or clarification is requested as described below or in the attachments.	PROJECT: HDTRWRF			8/12/2011		Х					
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The following information, interpretation, or clarification is requested as described below or in the attachments. BCCI requests to use Sika Swell in lieu of the PVC water stop in the attached location. Product data is also attached.											· · · ·
Been requeste to dee once in in fied of the 1 Ye water stop in the attached location. Product data is also attached.	The following informat BCCL requests to use Sika Swell	ion, interpret	ation, or clarifica	tion is requested in the attached.	as de	scribe	d belo	w or in the attac	hments	<u>s. </u>	
		77 1100 OF 1110	T VO Water Stop	in the attached	iocalio:	11. 1 10	auci a	عدم اع ماعن مالمن	neu.		
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By: Jeff Burst

Date: 8/11/2011

ENGINEER'S RESPONSE

The following information, interpretation, or clarification is provided as described below or in the attachments.

GMS, Inc. has reviewed this request and consulted with MGA Structural Engineers, Inc., the structural engineer of record for this project. We cannot accept the use of the submitted product, Sika Swell, in lieu of the PVC waterstop, split and inserted around the vertical bars in the subject joint at the headworks channels. To facilitate the installation, function and performance of the PVC waterstop, we will allow a reduction in the depth of the key for the slab-wall joint from 1.5" to 1.0". This will permit greater embedment of the waterstop beyond the limit of the key. In addition, we would consider the use of a split waterstop with one side of the split section being embedded into the wall and the other side either removed or embedded in the slab with the solid side of the stop. This will permit greater flexibility of the stop material notched and placed around the vertical bars in the wall.

By: Roger J. Sams

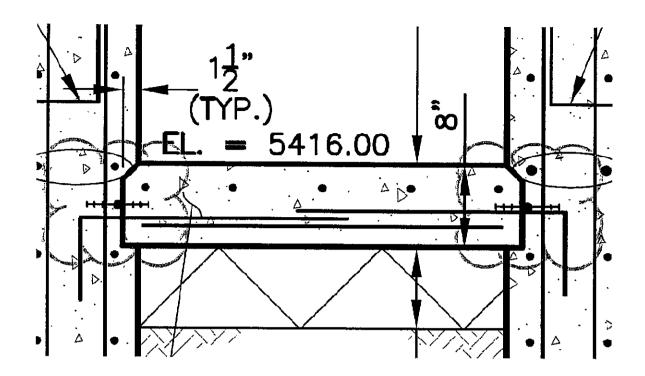
Date: August 12, 2011

cc: Wes Weaver, Jeff Burst, John Jacob, WGCC; Jim Heckman, LFMSDD; Tim Long, Charlie Edgar, Cindy Murray, FSD; Al Testa, CCMD; Roger Sams, Dave Frisch, Jerry Miller, GMS, Inc.; Pat Danenberg, MWI; John Peiffer, Mike Gaines, MGA; Mark Reasinger, PECI

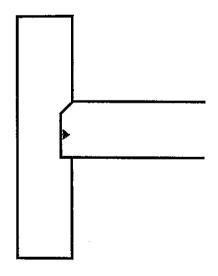
Request For Information

BAKER

Project Name	Harold Thompson WRF	RFI No.
Project No.	9921	13-6/30- WA41==18-4-30
Date	9-Aug	13- 730- 1-
Status	Open	WAY STEP IN
Resolved Date	Albamata B	•
Reason for Request	Alternate Proposal	
Response Due	16-Aug	
То	Weaver GC	** ***
cc		
From	Nick Dewald	
Subject	Alternate Waterstop at Chanel Slab	
Drawing No.	HW-6, 7, 8, 9	
Detail No.	A&C/WH-7, A&C/HW8, A&B/HW-8, A,B,C,D8	kE/HW-9
Contractor Ref. No.	NA .	
Concerns	X Clarification Quality Schedule Cost	
Information Requests BCCI proposes to us channel due to the in	se SikaSwell S-2 in leu of 9" or 6" waterstop at the key nterference with the vertical rebar. See attached draw	ed slab joint in the screen, bypass, grit and flume ing.
Response		



The clouded area above represents the typical interference between waterstop and the vertical mat of steel in the screen, bypass, grit and flume channels. BCCI's proposed solution is to use SikaSwell S-2 in place of the PVC waterstop. The sketch below shows the intended location of the SikaSwell in red.



SikaSwell® S-2

One part polyurethane, extrudable swelling waterstop (bentonite-free)

Description	SikaSwell S-2 is a specially formulated, high-performance, swellable, one-component, polyurethane-based waterstop for use in all kinds of construction joints. Swelling rubber creates a compression seal within joint, blocking the passage of water.	
Where to Use	 Designed for construction joints in new watertight concrete structures. Excellent for sealing pipe penetrations through walls and floor slabs. Excellent for sealing joints between precast elements. May be applied to horizontal, vertical and overhead surfaces. Ideal for watertight construction joints between new and existing concrete. 	
Advantages	 Swells up to 100% in potable water, slightly less in salt water and wastewater. Permanently water resistant, with no leaching and does not capable of sealing construction joints with head pressure Elastic-withstands wet/dry cycling. Easy, simple application. Adaptable in the field to suit job requirements. No nails, glue, or hooks required. Controlled expansion eliminates cracking in fresh concreted. Offers resistance to various chemicals. Thixotropic properties allow SikaSwell S-2 to seal irregulated very economical. Saves labor by eliminating inverted keyways, split forming and tieing to rebar associated with conventional PVC waten No mixing required. Allows more thorough vibration of concrete at joint, resultition which aids in achieving a watertight joint. 	s of up to 50 psi (115 ft. head). e. ir joint surfaces. g, heat splicing, special fittings erstops.

Typical Data (Material and curing conditions 73°F (23°C) and 50% R.H.)

Shelf life	9 months	•
Storage Conditions	For best results, store dry at 70°F	(20°C) before using.
Color	Red	
Temperature of Prod	uct for Best Application	50° to 90°F
Tack Free Time		2-3 hours
Shore A Hardness	Swollen (7 days in tap water)	>10
	Non Swollen (7 days)	40-60
Swelling Capacity	1 day	<20%
	7 days	>100%

Reduced and delayed swelling properties in salty water.

Suggested Cross Section of Extruded Bead

Concrete Thickness 8-12	Number of Beads (in.)	Side length of triangular bead (in.)
12-20	1	5/8 · 3/4
> 20	2	3/4

Note: If the maximum size aggregate in the concrete is greater than 1 inch, use 3/4 inch triangular section(s).



Coverage 20 fl.oz. uni-pac sausage seals: Triangular Yield 5/8 x 5/8 x 5/8 in. 18 lineal ft. 3/4 x 3/4 x 3/4 in. 12 lineal ft. Note: Yield may vary based on substrate irregularities. Packaging Disposable 20 fl. oz., moisture-proof uni-pac sausages, 20/carton. How to Use Surface Preparation Clean all surfaces. Substrate must be clean, sound. free of loose particles, dust, laitance, oils, and other contaminants. Surface may be dry or damp, with no presence of standing water. Do not leave the product in contact with wet concrete, or on a surface with a very high moisture content, for a long period of time, before casting new concrete. These conditions will decrease the adhesion between the SikaSwell S-2 bead and the surface of the joint. Application Recommended application temperatures: 50°-90°F. Extrude material using Sika MK-5 bulk caulking gun or other approved bulk gun. Cut the nozzle to obtain a triangular extrusion section with a size fulfilling effective needs (or use nozzle included in carton of SikaSwell S-2). Apply a uniform, continuous bead SikaSwell S-2 Installation to the hardened concrete. Wait for approximately 2 hours after placement of the SikaSwell S-2 before 1. Clean surface of concrete. placing concrete. The minimum thickness of concrete 2. Cut nozzle to obtain trianguaround the SikaSwell S-2 should be 4 inches on lar extrusion section (or use each side (reinforced concrete) or 6 in. on each side nozzle included in carton of (non-reinforced concrete) and 4 inches on top. For SikaSwell S-2). optimum application, store at 70°F for a minimum 3. Apply a uniform, continuous of 8 hours prior to use; if the material appears stiff, bead to hardened concrete. knead the sausage for a short time before placing in Wait 2 hours before placing bulk gun. new concrete. Limitations Not suitable for expansion joints. For critical applications with high water pressure, Sika recommends the use of the SikaSwell Hose waterstop. ■ Protect from rain to avoid expansion before placing new concrete and to assure 100% swelling capacity. Avoid placement of the concrete from a height greater than 20 inches. If this is not possible, allow SikaSwell S-2 to cure for 2 days before placing concrete. Caution Avoid skin and eye contact. Use of NIOSH approved organic vapor respirator, safety goggles, and chemical resistant gloves recommended. Remove contaminated clothing and shoes. First Aid In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact a physician. Wash clothing before

> plicable local, state, and federal regulations. KEEP CONTAINER TIGHTLY CLOSED - KEEP OUT OF REACH OF CHILDREN - NOT FOR INTERNAL CONSUMPTION - FOR INDUSTRIAL USE ONLY All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at www.sikausa.com or by calling 800-933-7452.

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect and dispose of in accordance with current, ap-

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available online at www.sikgusa.com or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and Instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.

LIMITED WARRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet If used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NOOTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALLNOTBELIABLE UNDERANYLEGALTHEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALLNOTBELIABLE UNDERANYLEGALTHEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL NOT BERESPONSIBLE FOR THE USE OF THIS PRODUCTINA MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. 1-800-933-SIKA NATIONWIDE

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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

re-use. Discard contaminated shoes.

Sika Mexicana S.A. de C.V. Carretera Libre Celava Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

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Clean Up