

**Bidding Requirements, Contract Forms and Conditions of the Contract**  
**ADDENDUM**  
Section 00900

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**ADDENDUM No. 002**

Date December 3, 2014

City of Austin

Project Name **Ullrich Water Treatment Plant Structural Repairs**

C.I.P. No. 5335.012

This Addendum forms a part of Contract and clarifies, corrects or modifies original Bid Documents, dated November 17, 2014. Acknowledge receipt of this addendum in space provided on bid form. Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

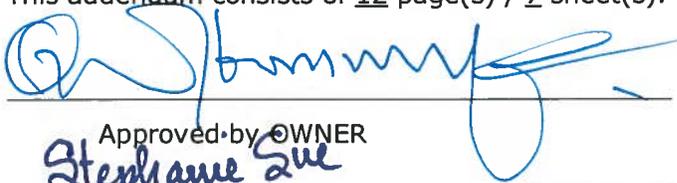
1. **Replace Table of Contents** with the attached (Rev. Date 11-10-14)
2. **Replace 00830BC Wage Rates and Payroll Reporting for Building Construction** with the attached (Rev. Date 11-10-14).
3. **Replace 00300U Bid Form** with the attached.
4. **Replace Section 01030 Alternates** with the attached.
5. **Add** the following to Section 09 96 56.13 Epoxy Lining System, 3.7.C:

**"09 96 56-10      Epoxy Lining System – Lime Handling      per Lump Sum"**  
**Building.**

B. Drawing Revisions:

1. **Replace Sheets S00-01, S05-01, S05-02, S08-02, S10-01 and S11-02** with the attached.

This addendum consists of 12 page(s) / 7 sheet(s).

  
\_\_\_\_\_  
Approved by OWNER  
*Stephanie Sue*  
\_\_\_\_\_  
Approved by ENGINEER/ARCHITECT



**END**

**Document  
Number**

**Title**

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**VOLUME 1**

**INTRODUCTORY INFORMATION**

05/06/11 Title Page  
11/10/14 Table of Contents

**BIDDING REQUIREMENTS, CONTRACT FORMS, & CONDITIONS OF THE CONTRACT**

**Pre-Bid Information**

00020 04/15/14 Invitation for Bids

**Instructions to Bidders**

00100 03/06/14 Instructions to Bidders

**Bid Forms**

00300U 03/06/14 Bid Form (Unit Price)

**Supplements to Bid Forms**

00405 09/25/05 Certificate of Non-Suspension or Debarment  
00410 05/06/11 Statement of Bidder's Safety Experience  
00440 05/06/11 Affidavit - Prohibited Activities  
00475 05/06/11 Nonresident Bidder Provisions

**Agreement Form**

00500 03/12/12 Agreement

**Bonds and Certificates**

00610 02/23/10 Performance Bond  
00620 02/23/10 Payment Bond  
00630 03/06/14 Nondiscrimination Certificate  
00631 03/06/14 Title VI Assurances Appendix A  
00650 07/30/12 Certificate of Insurance  
00670 03/20/14 Sales Tax Exemption Certificate  
00680 06/05/06 Non-Use of Asbestos Affidavit (Prior to Construction)  
00681 06/05/06 Non-Use of Asbestos Affidavit (After Construction)

**General Conditions**

00700 03/06/14 General Conditions

**Supplementary Conditions**

00810 04/15/14 Supplemental General Conditions  
00820 03/12/12 Modifications to Bidding Requirements and Contract Forms  
00830 03/12/12 Wage Rates and Payroll Reporting  
00830BC **11/10/14** Wage Rates Building Construction Trades

**Addenda**

00900 02/23/10 Addendum

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**Document  
Number**
**Title**

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**SPECIFICATIONS****Division 1 - General Requirements**

01010	04/22/13	Summary of Work
01030	<b>12/02/14</b>	Alternates
01050	09/13/10	Grades Lines & Levels
01095	07/21/03	Reference Standards and Definitions
01200	08/09/12	Project Meetings
01300	04/22/13	Submittals
01352	04/22/13	Sustainable Construction Requirements
01353	08/09/12	Construction Equipment Emissions Reduction Plan
01380	08/09/12	Construction Photography & Videos
01500	08/09/12	Temporary Facilities
01505	04/22/13	Construction and Demolition Waste Management
01510	02/23/10	Construction Indoor Air Quality Management Plan
01550	08/09/12	Public Safety and Convenience
01900	03/12/12	Prohibition of Asbestos Containing Materials
01900a	06/05/06	Statement of Non-Inclusion of Asbestos Containing Material (E/A Prior to Design)
01900b	06/05/06	Statement of Non-Inclusion of Asbestos Containing Material (E/A After Design)

**City Standard Technical Specifications****Series 400 – Concrete and Structures**

403S	09/26/12	Concrete for Structures
406S	09/26/12	Reinforcing Steel

**Series 700 -- Incidental Construction**

700S	09/26/12	Mobilization
722S	09/26/12	Protective Coatings

**Special Provisions to City Standard Technical Specifications****Special Specifications**

01 14 16	08/04/14	Coordination with Owner's Operations
01 35 26.23	08/04/14	Confined Space Entry Plan
01 45 53	08/04/14	Cleaning Testing and Disinfecting Hydraulic Structures
01 66 00	08/04/14	Product Storage and Handling
01 73 24	08/04/14	Connections to Existing Facilities
01 73 29	08/04/14	Cutting and Patching
01 74 05	08/04/14	Cleaning
02 41 00	08/04/14	Demolition
03 01 30	08/04/14	Repair and Rehabilitation of Cast-In-Place Concrete
03 11 00	08/04/14	Concrete Formwork
03 15 00	08/04/14	Concrete Accessories
03 60 00	08/04/14	Grouting
05 05 33	08/04/14	Anchor Systems
05 50 13	08/04/14	Miscellaneous Metal Fabrications
05 52 15	08/04/14	Aluminum Handrails and Railings
07 92 00	08/04/14	Joint Sealants
07 95 13	08/04/14	Expansion Joint Cover Assemblies

**Document  
Number**

**Title**

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09 91 00    08/04/14    Painting  
09 96 56.13    **12/02/14**    Epoxy Lining System

**VOL. 2**    10/09/00    **MBE/WBE Procurement Program Package**

**END**

**Bidding Requirements, Contract Forms and Conditions of the Contract**  
**UNIT PRICE BID FORM**  
Section 00300U

The undersigned, in compliance with the Invitation for Bids for construction of the following Project: **Ullrich Water Treatment Plant Structural Repair**

(CIP ID# 3960 2207 7192 ) (IFB# 6100 CLMC519 ) for the City of Austin, Texas, having examined the Project Manual, Drawings and Addenda, the site of the proposed Work and being familiar with all of the conditions surrounding construction of the proposed Project, having conducted all inquiries, tests and investigations deemed necessary and proper; hereby proposes to furnish all labor, permits, material, machinery, tools, supplies and equipment, and incidentals, and to perform all Work required for construction of the Project in accordance with the Project Manual, Drawings and Addenda within the time indicated for the following prices of:

Note: The Bidder will enter the line item subtotal in the "Amount" column below, which is the product of the estimated "Quantity" multiplied by the "Unit Price". Any mathematical errors will be corrected for the purpose of determining the correct Amount to be entered in the Bid Form. The Amounts, including any corrected Amounts, will then be totaled to determine the actual amount of the Bid.

<b>Bid Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Item Description</b>	<b>Unit Price</b>	<b>Amount</b>
403S-CY-06	10	CY	HOUSEKEEPING CURBS AROUND PIPE PENETRATIONS – WASTEWATER DRAIN AREA	\$_____	\$_____
403S-CY-08	2	CY	NEW SLAB – CLEARWELL NO. 2	\$_____	\$_____
403S-SY-10	170	SY	FLOOR TOPPING – LIME HANDLING BUILDING	\$_____	\$_____
700S-TM	1	LS	TOTAL MOBILIZATION PAYMENT	\$_____	\$_____
722S-B-01	1	LS	PROTECTIVE COATING EXISTING STRUCTURES - WEST WALL AND RAW WATER FLUME – UPFLOW CLARIFIER NO. 1	\$_____	\$_____
722S-B-02	1	LS	PROTECTIVE COATING EXISTING STRUCTURES – RECARBONATION BASIN – UPFLOW CLARIFIER NO. 4	\$_____	\$_____
03 01 30-01	1	LS	CONCRETE REPAIR OF WEST WALL, <b>NORTH WALL</b> AND RAW WATER FLUME – UPFLOW CLARIFIER NO. 1	\$_____	\$_____
03 01 30-02	1	LS	CONCRETE REPAIR OF RECARBONATION BASIN –	\$_____	\$_____

UPFLOW CLARIFIER NO. 4

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
03 01 30-03	1	LS	CONCRETE REPAIR – UPFLOW CLARIFIERS 6 AND 7	\$ _____	\$ _____
03 01 30-04	1	LS	CONCRETE REPAIR OF DAMAGED CONCRETE – FILTER BUILDING NO. 2	\$ _____	\$ _____
<b>03 01 30-05</b>	<b>1</b>	<b>LS</b>	<b>CONCRETE REPAIR OF DAMAGED CONCRETE ADMINISTRATION BUILDING</b>	<b>\$ _____</b>	<b>\$ _____</b>
03 01 30-07	1	LS	CONCRETE REPAIR OF DAMAGED CONCRETE – CENTRIFUGE BUILDING	\$ _____	\$ _____
03 01 30-08	1	LS	CONCRETE REPAIR – CLEARWELL NO. 2	\$ _____	\$ _____
03 01 30J-03	10	LF	JOINT REPAIR – UPFLOW CLARIFIERS 6 AND 7	\$ _____	\$ _____
03 01 30J-05	110	LF	JOINT REPAIR – ADMINISTRATION BUILDING	\$ _____	\$ _____
03 01 30J-08	50	LF	JOINT REPAIR – CLEARWELL NO. 2	\$ _____	\$ _____
03 01 30J-11	90	LF	JOINT REPAIR – CENTRIFUGE BUILDING	\$ _____	\$ _____
05 52 15-04	1	LS	REMOVAL AND RE-INSTALLATION OF EXISTING HANDRAIL – FILTER BUILDING 2	\$ _____	\$ _____
09 96 56-06	1	LS	EPOXY LINING SYSTEM FOR CURBS – WASHWATER DRAIN AREA	\$ _____	\$ _____
09 96 56-09	1	LS	EPOXY LINING SYSTEM FOR FLOOR – SODIUM HEXAMETAPHOSPHATE AREA	\$ _____	\$ _____
<b>09 96 56-10</b>	<b>1</b>	<b>LS</b>	<b>EPOXY LINING SYSTEM FOR FLOOR – LIME HANDLING</b>	<b>\$ _____</b>	<b>\$ _____</b>
<b>TOTAL BASE BID.....</b>				<b>\$ _____</b>	

**ALTERNATE NO. 1**

403S-SY- 10-ALT1	350	SY	ALTERNATE NO. 1 - FLOOR TOPPING - LIME HANDLING BUILDING	\$ _____	\$ _____
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**TOTAL ALTERNATE NO. 1..... \$ \_\_\_\_\_**

**ALTERNATE NO. 2**

09 96 56- 1 10-ALT2	1	LS	ALTERNATE NO. 2 - EPOXY LINING SYSTEM - LIME HANDLING BUILDING	\$ _____	\$ _____
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**TOTAL ALTERNATE NO. 2..... \$ \_\_\_\_\_**

**TOTAL BASE BID PLUS ALTERNATE NO. 1: ..... \$ \_\_\_\_\_**

**TOTAL BASE BID PLUS ALTERNATE NO. 1 AND ALTERNATE NO. 2: \$ \_\_\_\_\_**

In the event of a mathematical error, the correct product, determined by using the "Unit Price" and "Quantity", and the correct sum, determined by totaling the correct line item Amounts, will prevail over the amount entered by the Bidder. The unit prices shown above will be the unit prices used to tabulate the Bid and used in the Contract, if awarded by the City.

**Notes:**

- **For information pertaining to Bid Alternate Prioritization, see Section 00820.**
- **For more detailed explanation of Bid alternates, see Section 01030.**

Optional Information on Bid Prices Submitted by Computer Printout

In lieu of handwritten unit prices in figures in ink on the Bid forms above, Bidders, at their option, may submit an original computer printout sheet bearing certification by, and signature for, the Bidding firm. The unit prices shown on acceptable printouts will be the unit prices used to tabulate the Bid and used in the Contract if awarded by the City. As a minimum, computer printouts must contain all information and in the format shown on the attached page: "Example of Bid Prices Submitted by Computer Printout" form.

If a computer printout is used, the Bidder must still execute that portion of the unit price Bid form which acknowledges the Bid Guaranty, Time of Completion, Liquidated Damages, and all addenda that may have been issued.

Bids with unit prices by computer printout may be rejected, if:

1. The computer printout does not include the required certification, set forth in the attached "Example".

2. The computer printout is not signed in the name of the firm to whom the Project Manual was issued.
3. The computer printout is non-responsive or otherwise omits required Bid items or includes items not shown on the Bid forms in the Project Manual.
4. The other required Bid documents issued by the City are not fully executed as provided above.
5. The signed Section 00300U is not returned with the signed computer printout.

If the Bid submitted by the Bidder contains both the form furnished by the City, completed according to the instructions, and also a computer printout, completed according to the instructions, unit prices of only one will be considered. In this situation, the unit Bid prices shown on the computer printout will be used to determine the Bid.

**BID GUARANTY:** A Bid guaranty must be enclosed with this Bid, as required in Section 00020 or Section 00020S, in the amount of not less than five percent (5%) of the total Bid. Following the Bid opening, submitted Bids may not be withdrawn for a period of (90) Calendar Days. Award of Contract will occur within this period, unless mutually agreed between the parties. The Bid guaranty may become the property of the OWNER, or the OWNER may pursue any other action allowed by law, if:

- Bidder withdraws a submitted Bid within the period stated above;
- Bidder fails to submit the required post Bid information within the period specified in Section 00020S or 00100, or any mutually agreed extension of that period;
- or Bidder fails to execute the Contract and furnish the prescribed documentation (bonds, insurance, etc.) needed to complete execution of the Contract within five (5) Working Days after notice of award, or any mutually agreed extension of that period.

**TIME OF COMPLETION:** The undersigned Bidder agrees to commence work on the date specified in the written "Notice to Proceed" to be issued by the OWNER and to **substantially** complete construction of the improvements, as required by the Project Manual, Drawings and Addenda for the Work within **One hundred twenty (120) Calendar Days**. **If a Substantial Completion date has been specified, the Bidder further agrees to reach Final Completion within Thirty (30) Calendar Days after Substantial Completion as required by the Project Manual, Drawings and Addenda for the work.** The Bidder further agrees that should the Bidder fail to **substantially complete the Work or to finally** complete the Work within the number of days indicated in the Bid or as subsequently adjusted, Bidder shall pay the liquidated damages for each consecutive day thereafter as provided below; unless the OWNER elects to pursue any other action allowed by law.

**WAIVER OF ATTORNEY FEES:** In submitting its bid, in consideration for the waiver of its right to attorney's fees by the OWNER, the Bidder knowingly and intentionally agrees to and shall waive the right to attorney's fees under Section 271.153 of the Texas Local Government Code in any administrative proceeding, alternative dispute resolution proceeding, or litigation arising out of or connected to any Contract awarded pursuant to this solicitation process.

**LIQUIDATED DAMAGES:** The Bidder understands and agrees that the timely completion of the described Work is of the essence. The Bidder and OWNER further agree that the OWNER's actual damages for delay caused by failure to timely complete the Project are difficult, if not impossible to measure. However, with respect to the additional administrative and consultant costs to be incurred by OWNER, the reasonable estimate of such damages has been calculated and agreed to by OWNER and Bidder. Therefore, the Bidder and the OWNER agree that for each and every **Calendar Day** the Work or any portion thereof, remains incomplete after the **Substantial**

**Completion** date as established by the above paragraph, "Time of Completion", payment will be due to the Owner in the amount of Six hundred thirty dollars (\$ 630.00 ) per **Calendar Day** as liquidated damages, not as a penalty, but for delay damages to the OWNER. **If both Substantial and Final Completion dates have been specified, the Bidder and the OWNER further agree that for each and every Calendar Day the Work or any portion thereof, remains incomplete after the Final date as established by the above paragraph , "Time of Completion", payment will be due to the OWNER in the amount of Two hundred forty dollars (\$ 240.00 ) per Calendar Day as liquidated damages, not as a penalty, but for delay damages to the OWNER.** Such amount shall be deducted by the OWNER from any Contract payment due. In the event of a default or breach by the CONTRACTOR and demand is made upon the surety to complete the project, in accordance with the Contract Documents, the surety shall be liable for liquidated damages pursuant to the Contract Documents in the same manner as the CONTRACTOR would have been.

OWNER reserves the right to reject any or all Bids and to waive any minor informality in any Bid or solicitation procedure (a minor informality is one that does not affect the competitiveness of the Bids).

The undersigned acknowledges receipt of the following addenda:

- Addendum No. 1 dated \_\_\_\_\_ Received \_\_\_\_\_
- Addendum No. 2 dated \_\_\_\_\_ Received \_\_\_\_\_
- Addendum No. 3 dated \_\_\_\_\_ Received \_\_\_\_\_
- Addendum No. 4 dated \_\_\_\_\_ Received \_\_\_\_\_
- Addendum No. 5 dated \_\_\_\_\_ Received \_\_\_\_\_

\_\_\_\_\_  
Secretary, \*if Bidder is a Corporation

\_\_\_\_\_  
Bidder

(Seal)

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Address

\_\_\_\_\_  
Telephone Number / FAX Number

\_\_\_\_\_  
Email Address for Person Signing Bid

\_\_\_\_\_  
 Email Address for Bidder's Primary Contact Person

\* Copy of Corporate Resolution and minutes with certificate of officer of Bidder as to authority of signatory to bind Bidder is to be signed and dated no earlier than one week before Bid date, and attached to this document.

**EXAMPLE: BID PRICES SUBMITTED BY COMPUTER PRINTOUT**

<b>Project Name:</b>
<b>CIP ID #:</b>
<b>IFB #:</b>

<b>Bid Item #</b>	<b>Bid Item Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Bid Price</b>	<b>Total Amount</b>
<b>Total Bid:</b>					

(YOUR FIRM'S NAME) certifies that the unit prices shown on this completed computer printout for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its Bid will be tabulated using these unit prices and no other information from this printout. (YOUR FIRM'S NAME) acknowledges and agrees that the total bid amount shown will be read as its total bid. *In the event of a mathematical error*, the correct product, determined by using the "Unit Price" and "Quantity", and the correct sum, determined by totaling the correct line item Amounts, will prevail over the amount entered by the Bidder.

Signed: _____
Title: _____
Date: _____

**End**

SECTION 01030

ALTERNATES

PART 1 – GENERAL

1.1 SCOPE

- A. This Section identifies each alternative and describes the basic changes that shall be incorporated into the Work when that alternate is made part of the Work.
- B. Coordination:
  - 1. CONTRACTOR shall coordinate related Work as required to complete the Work under each alternative included in the Contract. Include as part of each alternative miscellaneous devices, accessories, and similar items incidental to or required for a complete installation whether or not shown or indicated as part of the alternative.
  - 2. Notification: Immediately following award of the Contract, notify in writing each entity involved of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

1.2 DESCRIPTION

- A. Alternate No.1:
  - 1. Description: Additional concrete repair and restoration of lime handling building floor.
  - 2. Refer to Sections 03 01 30, 03 15 00, 03 60 00; Sheet **28**; and Sheet **29**.
- B. **Alternate No.2:**
  - 1. **Description: Additional epoxy lining system of lime handling building floor.**
  - 2. **Refer to Sections 09 96 56; Sheet 28; and Sheet 29.**

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

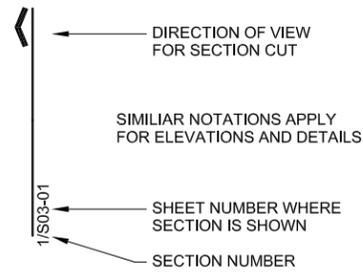
++ END OF SECTION ++

**LIST OF ABBREVIATIONS**

BM	BEAM
BOT	BOTTOM
CIP	CAST IN PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DBA	DOWEL BAR ANCHOR
DBL	DOUBLE
DEMO	DEMOLITION, DEMOLISH
DET	DETAIL
DET(S)	DETAIL(S)
DWL(S)	DOWEL(S)
E.W.	EACH WAY
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EMBED.	EMBEDMENT
EXIST.	EXISTING
FF	FINISH FLOOR
FOUND.	FOUNDATION
FT	FEET, FOOT
GALV	GALVANIZED
HCA	HEADED CONCRETE ANCHOR
HORIZ	HORIZONTAL
HT	HEIGHT
INT	INTERIOR
JT	JOINT
LF	LINEAR FEET
NTS	NOT TO SCALE
MFR	MANUFACTURER
MIN	MINIMUM
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
OPP	OPPOSITE
PC	PRECAST
PSF	POUNDS PER SQUARE FOOT
RE:	REFERENCE
REINF	REINFORCING
RET	RETURN
SHT	SHEET
SIM	SIMILAR
STD	STANDARD
STIR.	STIRRUPS
STMS.	STEMS
T.O.	TOP OF
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERTS	VERTICALS
W/	WITH
W/O	WITHOUT
WWF	WELDED WIRE FABRIC

(ABBREVIATIONS MAY OR MAY NOT HAVE PERIOD SEPARATORS)

**DRAFTING SYMBOLS**



**PLAN AND SECTION NOTATIONS**

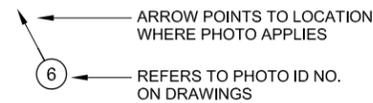


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**PLAN NOTATIONS**

**GENERAL NOTES**

THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS AND DETAILS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. DESIGN, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).

**DESIGN CRITERIA**

- LIVE LOADS:  
SLAB ..... 100 PSF (U.N.O.)
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS AND ALL OTHER PERSONS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION THAT MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
- CONSTRUCTION MATERIALS SHALL NOT BE STORED ON FLOORS OR ROOFS IN QUANTITIES THAT EXCEED OF THE DESIGN LIVE LOADS STATED IN THESE GENERAL NOTES. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS.

**LINE ITEMS OF WORK**

ID NO.	AREA DESCRIPTION	STRUCTURAL ISSUE	RECOMMENDED REPAIR	SHOWN ON DRAWING SHEET NO(S).	UNIT	QUANTITY
1	UPFLOW CLARIFIER NO. 1	CRACKS, LEAKS AND INJECTION AREAS IN WEST WALL INJECTION PORTS AND STAINING OF WALL ARE NOT AESTHETICALLY PLEASING	A - INSTALLATION OF INJECTION PORTS TO STOP MINOR EXISTING ACTIVE LEAKS	S01-1, S01-2, S01-3, S01-4	LF	75
			B - SURFACE REPAIR		SF	350
			C - COATING OF WALL WITH COATING SYSTEM		SF	8100
2	RECARBINATION BASIN FOR UPFLOW CLARIFIER 4	SPALLING AT INTERFACE BETWEEN CHANNEL AND WALL	A - REMOVE AND REPLACE SPLASH WALL	S02-1, S02-2, S02-3	LS	
			B - COATING OF WALL WITH COATING SYSTEM		SF	2300
3	UPFLOW CLARIFIERS 6 AND 7	EXPANSION JOINT ON FLOOR AND DOWN WALL	A - REPLACE SEALANT AND JOINT FILLER AS REQUIRED	S03-1, S03-2	LF	6
			B - ELIMINATE SLIP DOWEL AT THE TOP OF WALL/SLAB		LS	
			C - REPAIR DAMAGED CONCRETE AND PROVIDE EJ IN RAILING SYSTEM		LS	
4	FILTER BUILDING 2	GUARDRAIL ANCHORAGE - CRACKING ON THE FLOOR	A - MODIFY EXISTING RAILING WITH RETROFIT BASE PLATES	S04-1, S04-2, S04-3, S04-4 REPAIR NOTES S04-04	EA	8
			B - REPAIR DAMAGED CONCRETE		EA	8
5	EXPANSION JOINT UNDER ADMIN BUILDING	CRACKING AND LEAKING IN WASHWATER DRAIN AREA BELOW	A - REPLACE SEALANT AND JOINT FILLER AS REQUIRED	S05-1, S05-2	LF	110
			B - CONC REPAIR		LF	6
6	WASHWATER DRAIN AREA	SURFACE DETERIORATION ON FLOOR	A - REHAB AROUND PIPE PENETRATIONS	S06-1	EA	18
7	CENTRIFUGE BUILDING	CONCRETE DETERIORATION BENEATH STAIRS	A - REMOVE ANCHOR STUDS, COAT EXPOSED REINFORCEMENT WITH CORROSION INHIBITOR AND REPAIR SPALLED CONCRETE AREAS	S07-1, S07-2	EA	6
8	CLEARWELL NO. 2	WALL CJ LEAKING	A - SAWCUT HOLE FOR ENTRY INTO CLEARWELL	S08-1, S08-2, S08-3	LS	
			B - INSTALL SIKA COMBIFLEX TO INTERIOR OF THE LEAKING JOINT		LF	50
			C - CONSTRUCT VENT AND 3'x3' OPENING TO ALLOW ACCESS INTO THE CLEARWELL		EA	1
			D - INSTALL ACCESS HATCH		EA	1
9	SODIUM HEXAMETAPHOSPHATE AREA	PEELING / CRACKING FLOOR COATING BENEATH FRP GRATING	A - STRIP EXISTING COATING SYSTEM AND INSTALL NEW COATING SYSTEM STRICTLY FOLLOWING COATING MANUFACTURER'S INSTALLATION PROCEDURES	S09-1, S09-2	SF	1400
			B - REMOVE AND REPLACE GRATING			
10	LIME HANDLING BUILDING	FLOOR DETERIORATION AND POOR DRAINAGE TO FLOOR DRAINS	A - INSTALL A FLOOR TOPPING SIMILAR TO WHAT WAS USED AT THE METERING LEVEL TO IMPROVE DRAINAGE TO FLOOR DRAINS	S10-1, S10-2	SF	4600
			B - CONCRETE COATING SYSTEM		SF	4600
11	CENTRIFUGE BUILDING	LEAKING EJ	A - INSTALL A NEW EJ WITH FILLER	S11-1, S11-2	LF	90

QUANTITIES PROVIDED IN THIS TABLE ARE APPROXIMATE. CONTRACTOR SHALL BASE BID ON CONTRACT DOCUMENTS AND QUANTITIES PROVIDED IN THE BID FORM.

**SHEET INDEX**

SHEET NUMBER	SHEET TITLE
S00-01	GENERAL NOTES, ABBREVIATIONS & QUANTITIES
S00-02	PROJECT REPAIR LOCATION PLAN
S01-01	UPFLOW CLARIFIER No. 1 PLAN
S01-02	UPFLOW CLARIFIER No. 1 WEST WALL ELEVATION
S01-03	UPFLOW CLARIFIER No. 1 & 2 RW FLUME WALL ELEVATION
S01-04	UPFLOW CLARIFIER No. 1&2 PHOTOS
S02-01	RECARBINATION BASIN FOR UPFLOW CLARIFIER No. 4 PLAN
S02-02	RECARBINATION BASIN FOR UPFLOW CLARIFIER No. 4 DETAILS
S02-03	RECARBINATION BASIN FOR UPFLOW CLARIFIER No. 4 PHOTOS
S03-01	UPFLOW CLARIFIER No. 7 & 8 PLAN
S03-02	UPFLOW CLARIFIER No. 7 & 8 PARTIAL PLAN & DETAILS
S03-03	UPFLOW CLARIFIER No. 7 & 8 PHOTOS
S04-01	FILTER BUILDING FILTERS 7 - 12 PLAN
S04-02	FILTER BUILDING FILTERS 13 - 18 PLAN
S04-03	FILTER BUILDING FILTERS 7-12 & 13-18 PHOTOS SHEET
S04-04	FILTER BUILDING FILTERS 7-12 & 13-18 PHOTOS SHEET II, DETAILS & NOTES
S05-01	FILTER BUILDING EXPANSION JOINT PLAN
S05-02	FILTER BUILDING EXPANSION JOINT PHOTOS

**SHEET INDEX**

SHEET NUMBER	SHEET TITLE
S06-01	WASHWATER DRAIN PLAN & DETAILS
S07-01	CENTRIFUGE BUILDING LOWER LEVEL PLAN
S07-02	CENTRIFUGE BUILDING LOWER LEVEL REPAIR NOTES & PHOTOS
S08-01	CLEARWELL NO. 2 PLAN
S08-02	CLEARWELL NO. 2 PROPOSED PLANS & SECTIONS
S08-03	CLEARWELL NO. 2 PHOTOS
S09-01	ADMIN BUILDING CHEM STORAGE LEVEL PLAN
S09-02	ADMIN BUILDING CHEM STORAGE LEVEL PHOTO
S10-01	LIME HANDLING BUILDING PLAN
S10-02	LIME HANDLING BUILDING DETAILS & PHOTOS
S11-01	CENTRIFUGE BUILDING UPPER LEVEL PLAN
S11-02	CENTRIFUGE BUILDING UPPER LEVEL PLAN DETAIL & PHOTOS



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TYPE PERM P-3

REVISIONS			
NO.	BY	DATE	REMARKS
1	KH	12/03/14	ADDENDUM 1 - ADJUSTED LINE ITEMS OF WORK

DES \_\_\_\_\_ KH  
DWN \_\_\_\_\_ FS  
CKD \_\_\_\_\_ JL

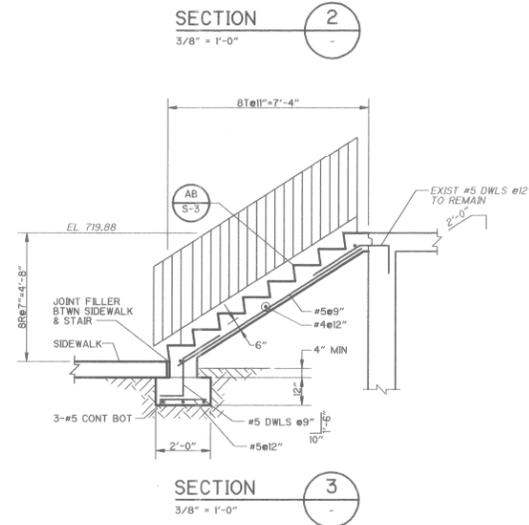
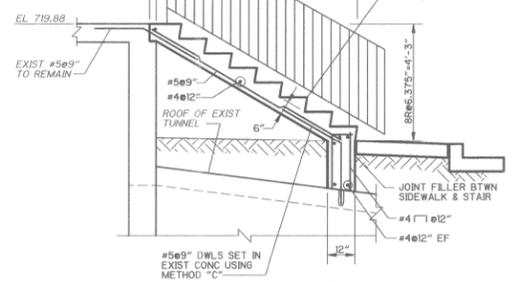
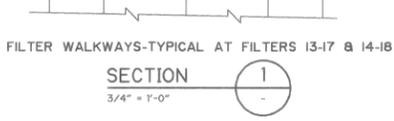
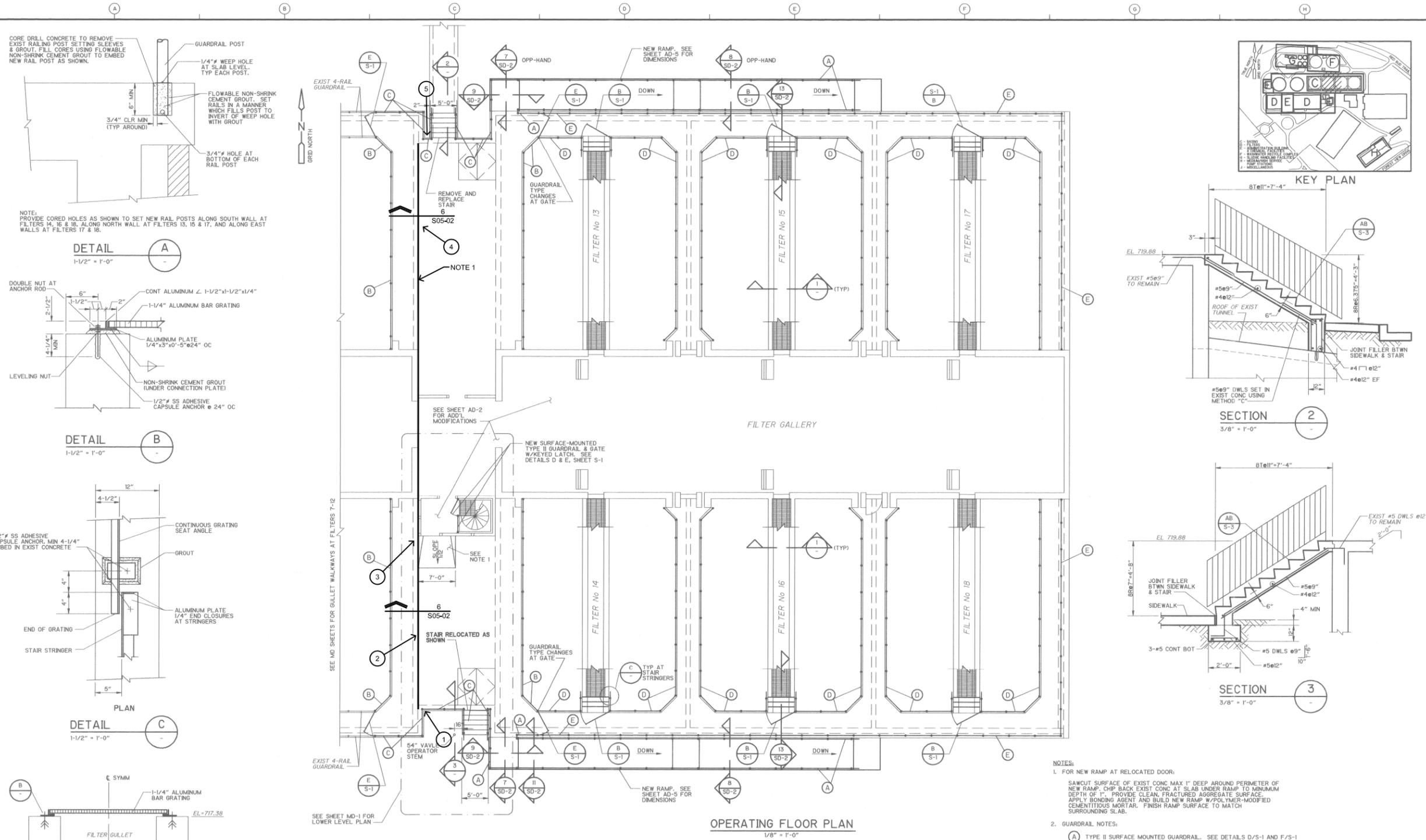
CITY OF AUSTIN, TEXAS  
**ULLRICH WATER TREATMENT PLANT**  
**STRUCTURAL REPAIRS**

STRUCTURAL  
**GENERAL NOTES,**  
**ABBREVIATIONS & QUANTITIES**  
SCALE: AS NOTED

ARCADIS U.S., INC.  
DATE SEPTEMBER, 2014  
SHEET 2 OF 31  
CAD REF. NO. S00-01



CADFILE:F:\13055\_Ullrich\_Concrete\_Rehab\_Design\_BKIDRAWINGS\CAD\13055\_S00-01.dwg Plotdate: Dec 03, 14 @ 9:29 am by: isa@ Scale: 1:50



NOTES:

- FOR NEW RAMP AT RELOCATED DOOR:  
 SAWCUT SURFACE OF EXIST CONC MAX 1" DEEP AROUND PERIMETER OF NEW RAMP. CHIP BACK EXIST CONC AT SLAB UNDER RAMP TO MINIMUM DEPTH OF 1". PROVIDE CLEAN, FRACTURED AGGREGATE SURFACE. APPLY BONDING AGENT AND BUILD NEW RAMP W/POLYMER-MODIFIED CEMENTITIOUS MORTAR. FINISH RAMP SURFACE TO MATCH SURROUNDING SLAB.
- GUARDRAIL NOTES:  
 (A) TYPE II SURFACE MOUNTED GUARDRAIL. SEE DETAILS D/S-1 AND F/S-1  
 (B) REMOVE EXIST GUARDRAIL AND EMBEDS IN ACCORDANCE WITH DETAIL A/- AND INSTALL NEW TYPE II SIDE-MOUNTED GUARDRAIL PER DETAILS D/S-1 AND F/S-1.  
 (C) REMOVE EXIST GUARDRAIL AND EMBEDS AND INSTALL NEW TYPE II PERMANENTLY EMBEDDED GUARDRAIL PER DETAILS D/S-1 AND F/S-1 ALL IN ACCORDANCE WITH DETAIL A/-.  
 (D) REMOVE EXIST GUARDRAIL AND EMBEDS AND INSTALL NEW TYPE I SIDE-MOUNTED GUARDRAIL PER DETAILS A/S-1 AND C/S-1.  
 (E) REMOVE EXIST GUARDRAIL AND EMBEDS AND INSTALL NEW TYPE I PERMANENTLY EMBEDDED GUARDRAIL PER DETAIL A/S-1 IN ACCORDANCE WITH DETAIL A/-.

**SCANNED NOTES**

ALL SCREENED SCANNED DRAWING SHEETS ARE FOR LOCATION AND INFORMATION PURPOSES ONLY. THE ACCURACY TO THE CURRENT CONDITIONS IS NOT GUARANTEED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY INSTANCES WHERE DIFFERENCES OF SCANNED DRAWING WILL NEGATIVELY AFFECT ANY ELEMENT TO BE WORKED ON PRIOR TO IT BEING STARTED.

**SHEET NOTES**

- REMOVE AND REPLACE EXISTING EJ SEALANT AND BACKER ROD WITH NEW BACKER ROD AND SEALANT.
- REFER TO 7/S05-02 FOR CONCRETE REPAIR.

**RECORD DRAWING**  
 DATE: 5-19-01 BY: [Signature]  
 CAMP DRESSER & MCKEE INC.



REV. NO.	DATE	DRWN	CHKD	REMARKS
1	02/00	FILE		RECORD DRAWING

DESIGNED BY: J. HAMM  
 DRAWN BY: T. LAPP  
 SHEET CHK'D BY: G. SAGEHORN  
 CROSS CHK'D BY: J. HAMM  
 APPROVED BY: G. SAGEHORN  
 DATE: \_\_\_\_\_

**CAMP DRESSER & MCKEE INC.**  
 environmental engineers, scientists, planners, & management consultants  
**CDM**

CITY OF AUSTIN, TEXAS  
 ALBERT H. ULLRICH WATER TREATMENT PLANT  
 PLANT COMPLETION IMPROVEMENTS

ADMINISTRATION AND FILTERS  
 PLANS AND SECTIONS

PROJECT NO. 590-126  
 SHEET NO. SD-1



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REVISIONS			
NO.	BY	DATE	REMARKS
1	KH	12/03/14	ADDENDUM 2 - CONCRETE REPAIR NOTE

CITY OF AUSTIN, TEXAS  
**ULLRICH WATER TREATMENT PLANT  
 STRUCTURAL REPAIRS**

**STRUCTURAL  
 FILTER BUILDING  
 EXPANSION JOINT PLAN**  
 SCALE: AS NOTED

ARCADIS U.S., INC.  
 DATE: SEPTEMBER, 2014  
 SHEET 18 OF 31  
 CAD REF. NO. S05-01



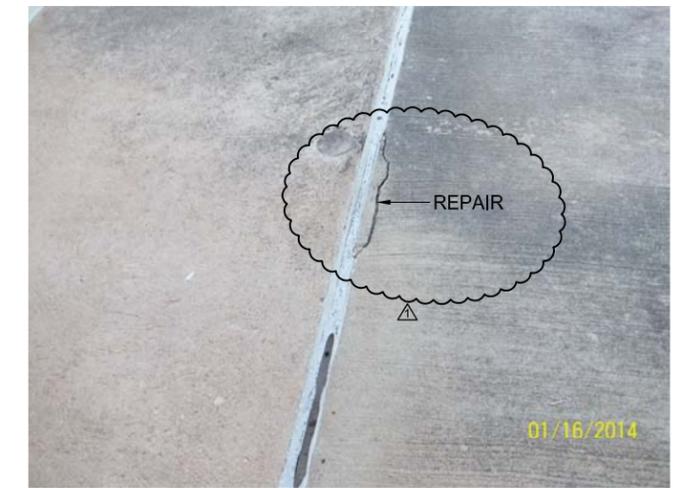
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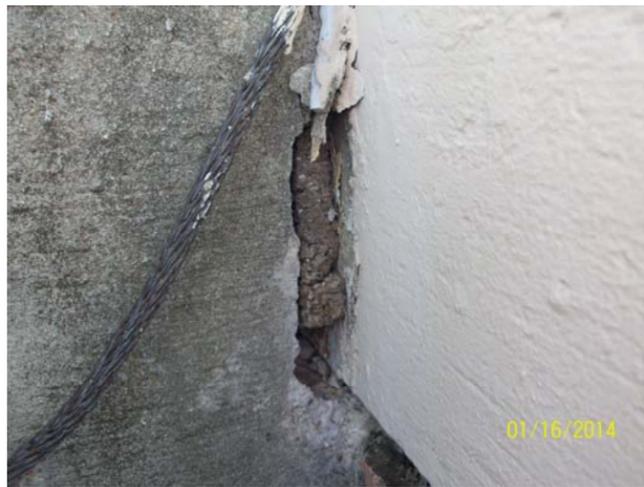
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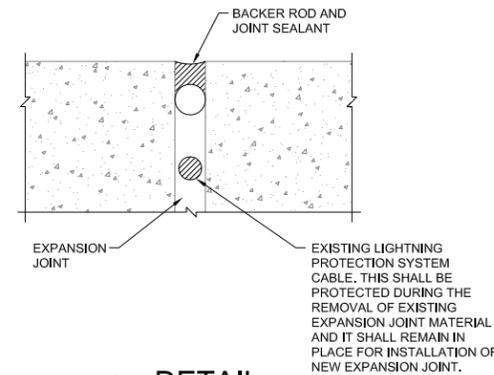
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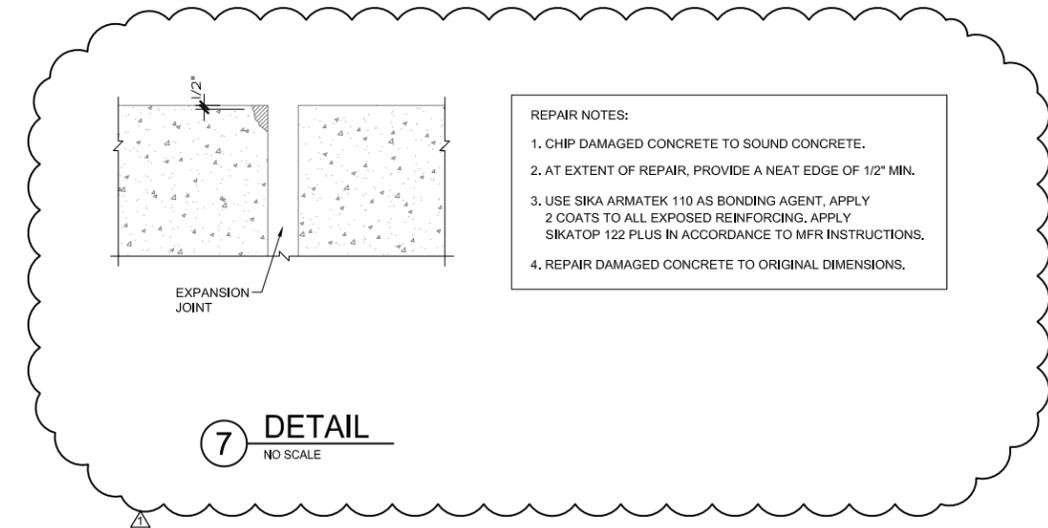
④ PHOTO DETAIL



⑤ PHOTO DETAIL



⑥ DETAIL  
NO SCALE



⑦ DETAIL  
NO SCALE

- REPAIR NOTES:
1. CHIP DAMAGED CONCRETE TO SOUND CONCRETE.
  2. AT EXTENT OF REPAIR, PROVIDE A NEAT EDGE OF 1/2" MIN.
  3. USE SIKA ARMATEK 110 AS BONDING AGENT, APPLY 2 COATS TO ALL EXPOSED REINFORCING, APPLY SIKATOP 122 PLUS IN ACCORDANCE TO MFR INSTRUCTIONS.
  4. REPAIR DAMAGED CONCRETE TO ORIGINAL DIMENSIONS.

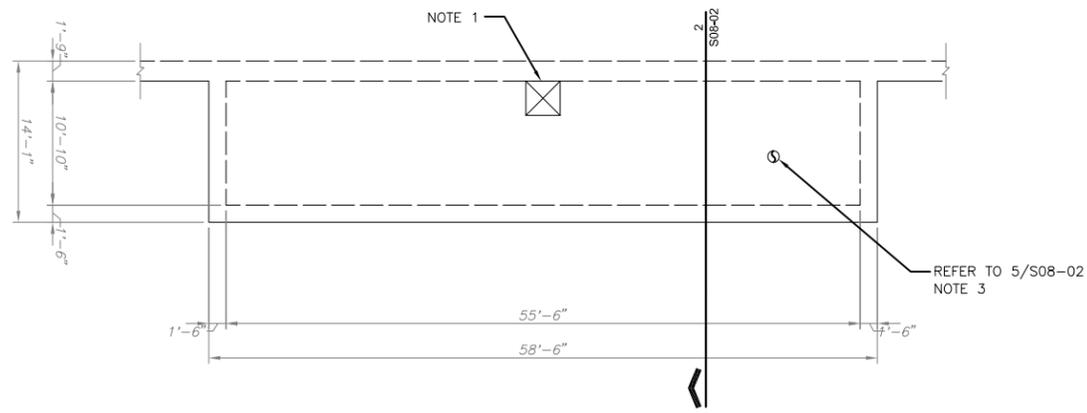
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NO.		BY	DATE	REVISIONS	REMARKS
△		KH	12/03/14	ADDENDUM 2 - CONCRETE REPAIR DETAIL	

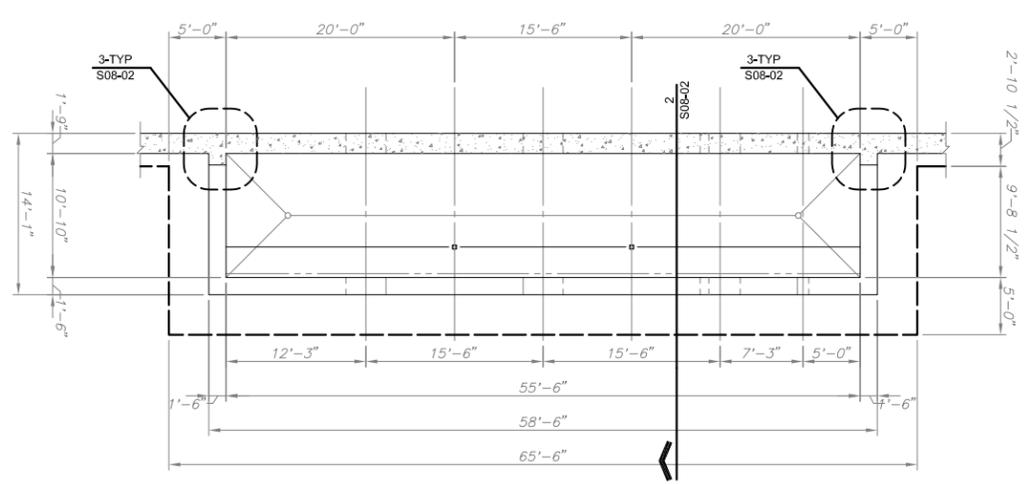
DES KH  
DWN FS  
CKD JL



CADFILE:13055\_Ullrich\_Concrete\_Rehab\_BMDRAWINGS\CAD13055\_S08-02.dwg Plotlet: Dec 03, 14 @ 9:52 am by: foalbs Scale: 1:32



**1A PARTIAL ROOF PLAN**  
1/8" = 1'-0"

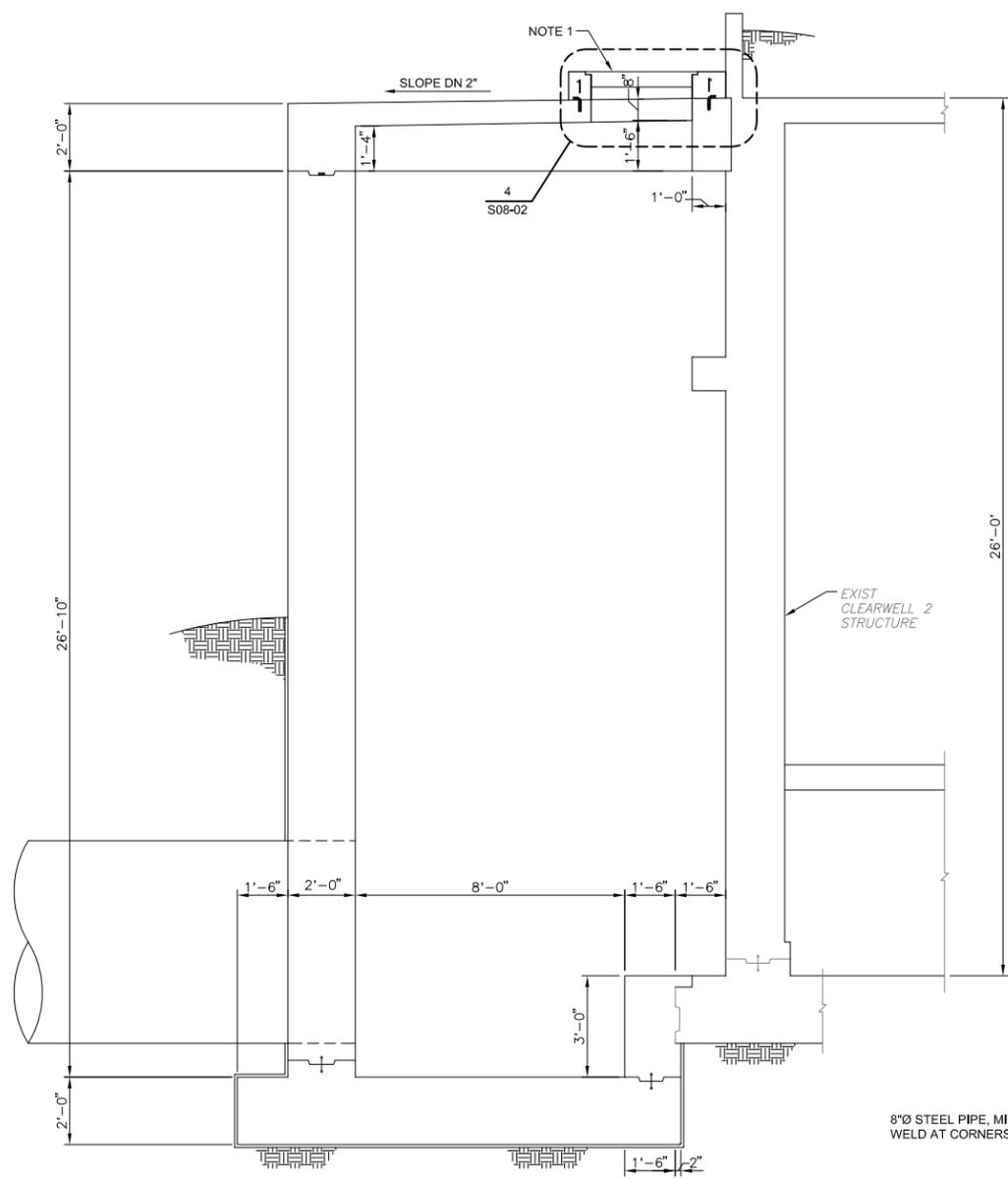


**1 PARTIAL FLOOR PLAN**  
1/8" = 1'-0"

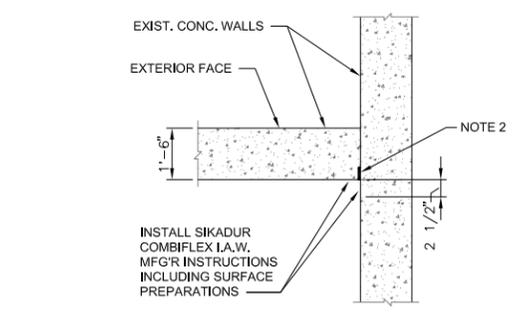
**SHEET NOTES:**

- 36"x36" BILCO SST HATCH. COORDINATE WITH OWNER FOR HATCH LOCATION.
- SAW-CUT INTO EXISTING CONSTR JOINT. PARALLEL TO ORIGINAL CLEARWELL WALL. INSTALL GREENSTREAK HYDROTITE JOINT REPAIR STYLE #RSS-0806 C.
- NEW 8"Ø PIPE VENT W/ 16 MESH 304 SS, 0.018 SCREEN. COORDINATE WITH OWNER FOR VENT LOCATION AND COLOR.
- ACCESS TO CLEARWELL NO. 2 REQUIRES CONFINED SPACE ENTRY. SEE SPECIFICATIONS FOR REQUIREMENTS.

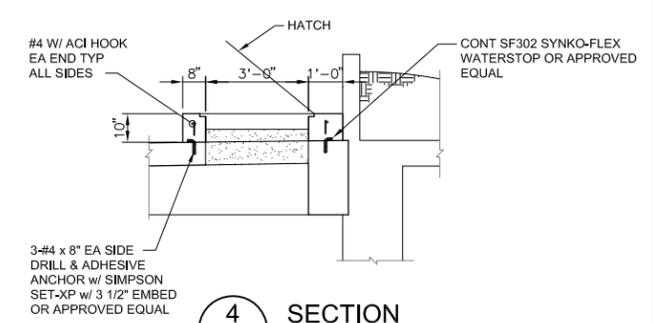
5. THE CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF FOUR WEEKS' NOTICE TO DEWATER CLEARWELL NO. 2 TO CONDUCT THE WORK. THE CITY WILL BE RESPONSIBLE FOR DE-WATERING AND RE-ESTABLISHING FLOWS TO CLEARWELL NO. 2. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ISOLATE THE WORK AREA (APPROXIMATELY 10'-10" x 55'-6" x 28'-10" HIGH AREA) FROM THE REST OF CLEARWELL NO. 2 PRIOR TO THE WORK BY PROVIDING ACCEPTABLE BULKHEAD FOR THREE 7'-6" WIDE x 3'-6" HIGH OPENINGS APPROXIMATELY THREE FEET OFF OF THE FLOOR OF THE WORK AREA, ON THE CLEARWELL SIDE AND FOR THREE 72" PIPELINES ONE FOOT OFF THE FLOOR ON THE EXTERIOR WALL. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DEWATERING AND CLEANING TO A DEPTH OF APPROXIMATELY THREE FEET BELOW THE OPENING FROM WORK AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR DISINFECTING THE WORK AREA PRIOR TO THE CITY RE-ESTABLISHING FLOWS TO CLEARWELL NO. 2. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR DISINFECTING ALL OF CLEARWELL NO. 2 IF DEBRIS ENTERS CLEARWELL NO. 2 BEYOND THE WORK AREA. THE MAXIMUM TIME THAT CLEARWELL NO. 2 WILL BE DOWN IS TWO (2) WEEKS.



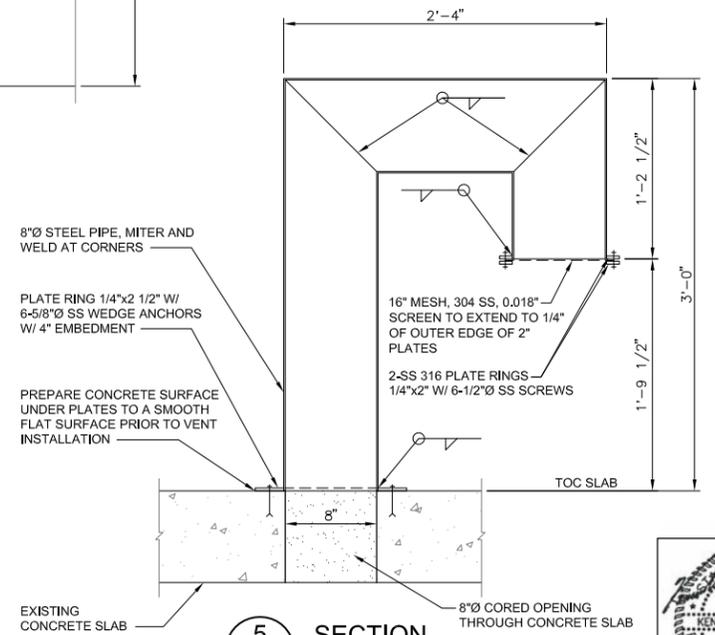
**2 SECTION**  
3/8" = 1'-0"



**3 SECTION**  
3/8" = 1'-0"



**4 SECTION**  
3/8" = 1'-0"



**5 SECTION**  
1 1/2" = 1'-0"



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TRISTE FIRM F-3

REVISIONS				
NO.	BY	DATE	REVISIONS	REMARKS
1	KH	12/03/14	ADDENDUM NO. 2 - CLARIFIED NOTE	

DES \_\_\_\_\_ KH  
DWN \_\_\_\_\_ FS  
CKD \_\_\_\_\_ JL

CITY OF AUSTIN, TEXAS  
**ULLRICH WATER TREATMENT PLANT  
STRUCTURAL REPAIRS**

STRUCTURAL  
**CLEARWELL NO. 2  
PROPOSED PLANS & SECTIONS**  
SCALE: AS NOTED

ARCADIS U.S., INC.  
DATE SEPTEMBER, 2014  
SHEET 24 OF 31  
CAD REF. NO. S08-02





1 PHOTO DETAIL



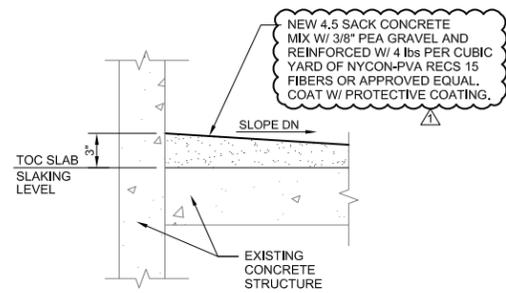
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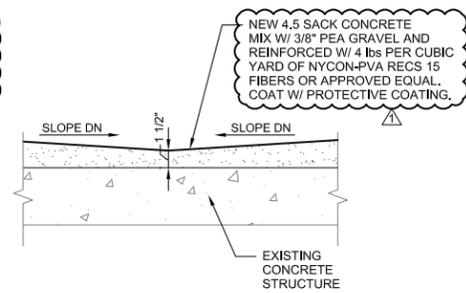
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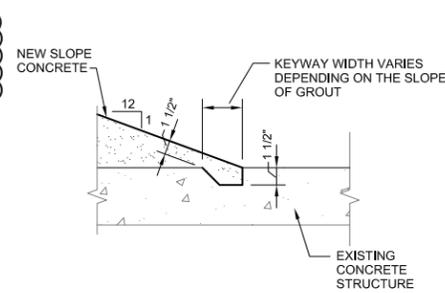
4 PHOTO DETAIL



5 DETAIL  
1 1/2" = 1'-0"



6 DETAIL  
1 1/2" = 1'-0"



7 DETAIL  
1 1/2" = 1'-0"

NOTE:  
THIS SECTION SHALL BE USED AT THE EXTENTS OF THE NEW SLOPED CONCRETE IF THE ENTIRE SLAKING LEVEL IS NOT DONE AT ONE TIME.

CADFILE:13055\_ullrich\_Concrete\_Rehab\_Design\_BIMDRAWINGS\CAD\13055\_S\10-02.dwg Plotted: Dec 03, 14 @ 9:59 am by: baalb Scale: 1:8

REVISIONS				
NO.	BY	DATE	REVISIONS	REMARKS
1	KH	12/03/14	ADDENDUM 2 - PROTECTIVE COATING	

DES	KH
DWN	FS
CKD	JL





1 PHOTO DETAIL



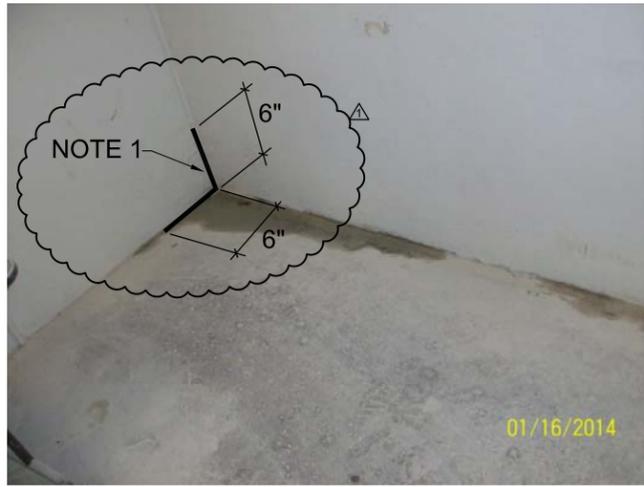
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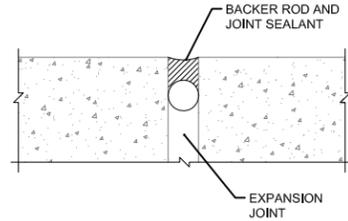
3 PHOTO DETAIL



4 PHOTO DETAIL



5 PHOTO DETAIL



6 DETAIL  
NO SCALE

SHEET NOTES:  
 1. EXTEND NEW JOINT SEALANT UP THE WALL A MIN. OF 6"  
 2. INSTALL THE SEALANT CONT. UP AND ACROSS THE CONCRETE PAD AT THE FACE OF CMU WALL.

CADFILE:13055\_ullrich\_Concrete\_Rehab\_BIMDRAWINGS\CAD\13055\_S11-02.dwg Plotter: Dec 03, 14 @ 10:01 am by: Isidoro Scales 1:12



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 TYPE FIRM F-3

REVISIONS			
NO.	BY	DATE	REMARKS
1	KH	12/03/14	ADDENDUM 2 - EXTENDED JOINT SEALANT UP THE WALL

DES KH  
 DWN FS  
 CKD JL

CITY OF AUSTIN, TEXAS  
**ULLRICH WATER TREATMENT PLANT  
 STRUCTURAL REPAIRS**

STRUCTURAL  
**CENTRIFUGE BUILDING UPPER LEVEL  
 DETAIL & PHOTOS**  
 SCALE: AS NOTED

ARCADIS U.S., INC.  
 DATE SEPTEMBER, 2014  
 SHEET 31 OF 31  
 CAD REF. NO. S11-02

