Town of Rangely

Town Council Packet

June 24, 2014 @ 7:00pm

6:00pm – Worksession
6:50pm – Foundation for Public Giving

AGENDA
FOUNDATION FOR PUBLIC GIVING
MEETING OF JUNE 24, 2014
****6:50 P.M.****
COUNCIL CHAMBERS- MUNICIPAL BUILDING

Frank Huitt, President

Ann Brady,Member	Dan Eddy, Member
Andrew Shaffer, Member	Lisa Hatch, Member
Brad Casto, Member	Joe Nielsen, Member

1. Call to Order

2. Roll Call

3. Minutes
   A. Approve Minutes of the regular meeting of March 25, 2014.

4. Changes to the Agenda

5. New Business
   A. Discussion and action on request from Giant Step Preschool $1,500.00 to replace sump pump in kitchen/dining area

6. Adjournment

MINUTES
FOUNDATION FOR PUBLIC GIVING
MEETING OF MARCH 25, 2014
****6:50 P.M.****
COUNCIL CHAMBERS- MUNICIPAL BUILDING

Frank Huitt, President

Clayton Gohr, Member	Dan Eddy, Member
Elaine Urie, Member	Lisa Hatch, Member
Brad Casto, Member	Joe Nielsen, Member

1. Call to Order - All council members present

2. Roll Call

3. Minutes
   A. Action on Minutes of the regular meeting of November 12, 2013. Dan Eddy motioned to approve the November 12, 2013 minutes, Brad Casto seconded, motion passed

4. Changes to the Agenda

5. New Business
   A. Discussion and action on request from CNCC Rodeo for the 2nd Annual Collegiate Rodeo. Request for $1,000.00 – Total Cost $13,000.00 Dan Eddy motioned to approve the request for $1,000.00 for the CNCC Rodeo, Elaine Urie seconded, motion passed.

6. Adjournment

Elaine Urie motioned to adjourn the meeting, Dan Eddy seconded, motion passed.

TOWN OF RANGELY
BALANCE SHEET
MAY 31, 2014

FNDTN FOR PUBLIC GIVING FUND

	ASSETS			
72-10100	CASH - COMBINED FUND		75,739.86	
72-10115	FNBR CD 103943		208,235.10	
72-11120	INTEREST RECEIVABLE		682.86	
	TOTAL ASSETS			284,657.82
	LIABILITIES AND EQUITY			
	FUND EQUITY			
	UNAPPROPRIATED FUND BALANCE:			
72-29800	FUND BALANCE	284,349.18		
	REVENUE OVER EXPENDITURES - YTD	308.64		
	BALANCE - CURRENT DATE		284,657.82	
	TOTAL FUND EQUITY			284,657.82
	TOTAL LIABILITIES AND EQUITY			284,657.82

TOWN OF RANGELY
REVENUES WITH COMPARISON TO BUDGET
FOR THE 5 MONTHS ENDING MAY 31, 2014

FNDTN FOR PUBLIC GIVING FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEARNED	PCNT
	REVENUES					
72-30-300	INTEREST INCOME - BANK	.00	1,308.64	5,000	3,691.36	26.17
	TOTAL REVENUES	.00	1,308.64	5,000	3,691.36	26.17
	TOTAL FUND REVENUE	.00	1,308.64	5,000	3,691.36	26.17

TOWN OF RANGELY
EXPENDITURES WITH COMPARISON TO BUDGET
FOR THE 5 MONTHS ENDING MAY 31, 2014

FNDTN FOR PUBLIC GIVING FUND

		PERIOD ACTUAL	YTD ACTUAL	BUDGET	UNEXPENDED	PCNT
	EXPENDITURES					
72-40-500	GRANTS	.00	1,000.00	5,000	4,000.00	20.00
	TOTAL OPERATING EXPENSES	.00	1,000.00	5,000	4,000.00	20.00
	TOTAL EXPENDITURES	.00	1,000.00	5,000	4,000.00	20.00
	TOTAL FUND EXPENDITURES	.00	1,000.00	5,000	4,000.00	20.00
	NET REVENUE OVER EXPENDITURES	.00	308.64	0	(308.64)	.00

Amended 3/7/00

RANGELY FOUNDATIONF FOR PUBLIC GIVING

GUIDELINES AND APPLICATION

The Rangely Foundation for Public Giving was created by the Mayor and Town Council of the Town of Rangely in the fall of 1990 from surplus funds provided by Western Fuels-Utah as the result of socio-economic impact mitigation. The purpose of the Foundation is to provide assistance and support in four areas of the emphasis: human services, education, civic and community projects, and arts and culture.

Assistance and support shall be in the form of grants and shall at no time be of an aggregate amount that shall exceed interest earnings in anyone year. Grants may be phased over more than one year. Grants shall be limited to activities, programs, and projects that are of direct benefit to the residents of the Rangely Area defined as the boundaries of School District RE-4. Assistance shall be limited to non-profit corporations or organizations whose activities, programs, and projects are consistent with the purposes of this corporation.

Grants shall not be made to political campaigns, organizations that discriminate, organizations that receive more than 40 percent of their budget from United Way, religious organizations that are denominational or sectarian in purpose, international organizations, national health agencies, or their local affiliates, tax supported public agencies, other foundations, and endowment funds. Under unusual and commanding circumstances, exceptions may be made by a two-thirds vote of the Board of Directors.

A grant shall not be considered for any eligible non-profit corporation or organization for any program or project normally sponsored or supported, or capable of being sponsored or supported by a public agency unless evidence in the form of a letter from or minutes of a meeting of such agency showing submittal to and denial of a request for funding by such agency, including convincing and specific reason for such denial, has been provided to the Foundation along with any application for a grant from the Foundation.

Application may be submitted at any time to Rangely Foundation for Public Giving, 209 East Main Street, Rangely, Colorado 81648. Applications, upon formal acceptance by the Agent, will be presented to the Board of Directors of the Foundation. Normally a decision will be rendered within sixty days.

RANGELY FOUNDATION FOR PUBLIC GIVING

APPLICATION FOR REQUEST OF GRANT

NAME OF ORGANIZATION GIANT STEP PRESCHOOL

ADDRESS 246 E. MAIN, RANGELY, CO 81648

PURPOSE OF ORGANIZATION TO PROVIDE QUALITY CHILDCARE (HUMAN SERVICE)

AMOUNT REQUEST $ 1,500.00 TOTAL COST $ _____

DESCRIBE PROGRAM/PROJECT Need to replace sump pump in kitchen/ dinning area. Estimate with discount for cost of pump + labor from Prater Plumbing is $1,600.00. Prater only detected smell, no sewer leakage, the smell at times is very strong. Prater recommends replacing.

HOW DOES THE PROGRAM/PROJECT BENEFIT LOCAL RESIDENTS?

Current sump pump emits sewer smell. New pump keeps building from smelling and keeps GIANT STEP OPERATIONAL.

HOW WILL THE ORGANIZATION FINANCE ITS SHARE OF THE PROJECT?

Self funding.

HAVE YOU APPLIED WITH OTHER GOVERNMENTAL AGENCIES, SUCH AS THE COUNTY? IF SO, PLEASE BRING DOCUMENTATION SHOWING RESULTS.

Not at this time.

1. Is your organization International, a Foundation, or Government Agency? Yes _____ No ✓

2. Will the grant be used for a Political Campaign/Purpose? Yes _____ No ✓

3. Does your organization discriminate in any way? Yes _____ No ✓

4. Is more than 40% or your budget received from United Way? Yes _____ No ✓

5. Is your organization religious and denomination/ sectarian? Yes _____ No ✓

6. Is your Organization a Nation Health Agency or Local Affiliate? Yes _____ No ✓

If any of the above answers are "Yes", please explain the unusual and commanding circumstances that justify a grant.

_____

_____

_____

SUPLEMENTAL INFORMATION REQUESTED, IF AVAILABLE:

_____ Latest financial statement

_____ Detailed budget for program/project

_____ Exhibits re: Program/projects (photos, forms, announcements etc)

_____ Any other information you wish to present

Signed by: Ingrid K. Reed

Title Director Date 6-15-14

FOR FOUNDATION USE ONLY

Amount Granted $ _____ Date Approved _____

Condition of Grant: _____

_____

Signed by _____

Title _____ Date _____

1 – Agenda

6:00pm - Worksession
6:50pm - Foundation for Public Giving

Town of Rangely

June 24, 2014 - 7:00pm

Agenda

Rangely Board of Trustees (Town Council)

FRANK HUITT, MAYOR

BRAD CASTO, MAYOR PRO TEM
LISA HATCH, TRUSTEE
ANDREW SHAFFER, TRUSTEE

DAN EDDY, TRUSTEE
JOSEPH NIELSEN, TRUSTEE
ANN BRADY, TRUSTEE

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1. **Call to Order**
2. **Roll Call**
3. **Invocation**
4. **Pledge of Allegiance**
5. **Minutes of Meeting**
    a. *Approval of the minutes of the June 10, 2014 meeting.*
6. **Petitions and Public Input**
7. **Changes to the Agenda**
8. **Public Hearings - 7:15pm**
    a. *Public Hearing Ordinance 685 (2014) Revising section 10.14 of the Rangely Municipal Code to Expand the Use of Registered Off-Highway Vehicles by Qualified Operators.*
9. **Committee/Board Meetings**
    a. *Town Council Work Session June 2, 2014 7:00 a.m. OHV Ordinance Revision*
10. **Supervisor Reports - See Attached**
    a. *Alden Vandenbrink*
    b. *Mike Englert*
11. **Reports from Officers – Town Manager Update**
12. **New Business**
    a. *Discussion and action to approve Ordinance 685 (2014) Revising section 10.14 of the Rangely Municipal Code to Expand the Use of Registered Off-Highway Vehicles by Qualified Operators.*
    b. *Discussion and action to approve services to repair weathered and penetrated areas of the Pond C Liner at the Wastewater Treatment Facility approximate repair cost will be $8,920.00*

c. *Discussion and action to approve donation to WRB Park & Rec. District of $1,000 for Fireworks and $1,000 for Septemberfest.*

d. *Discussion and action to approve SGM's Filters #3 & #4 Concrete Tank Repair Recommendations.*

13. Informational Items

a. *Conference Call June 11, 2014 discussing retaining EIS and Natural Resources Group concerning the Title V issue at the Bonanza Power Plant*

b. *2012 Resolution supporting expansion of Deserado Mine*

c. *EPA Town of Rangely Letter of Support*

14. Scheduled Announcements

a. *Rangely School District board meeting is scheduled for June 17, 2014 at 6:15pm.*

b. *Rangely District Library regular meeting June 9, 2014 at 5:00pm.*

c. *Rangely District Hospital board meeting is scheduled for June 26, 2014 at 7:00pm.*

d. *Rural Fire Protection District board meeting is scheduled for June 16, 2014 at 7:00pm.*

e. *Western Rio Blanco Park & Recreation District meeting June 16 2014 at 7:00pm.*

f. *Rio Blanco Water Conservancy District board meeting is June 25, 2014 at 6:00pm. Public Forum for the Reservoir Feasibility Study at 7:00pm.*

g. *Rangely Chamber of Commerce board meeting is scheduled for June 19, 2014 at 12:00pm.*

15. Adjournment

5 – Minutes

Town of Rangely

June 10, 2014 - 7:00pm

Minutes

Rangely Board of Trustees (Town Council)

FRANK HUITT, MAYOR

BRAD CASTO, MAYOR PRO TEM
LISA HATCH, TRUSTEE
ANDREW SHAFFER, TRUSTEE

DAN EDDY, TRUSTEE
JOSEPH NIELSEN, TRUSTEE
ANN BRADY, TRUSTEE

1. **Call to Order**
2. **Roll Call** ***Brad Casto, Dan Eddy, Lisa Hatch, Joseph Nielsen, Andrew Shaffer, Ann Brady present, Frank Huitt absent***
3. **Invocation**
4. **Pledge of Allegiance**
5. **Minutes of Meeting**
    a. *Approval of the minutes of the May 13, 2014 meeting.* ***Dan Eddy motioned to approve the May 13 2014 minutes, Andy Shaffer seconded, motion passed with two abstentions.***
6. **Petitions and Public Input** - ***Clayton Gohr came to publicly thank the Town Manager and Council for all of their efforts to assist Blue Mountain Energy and Deserado Mine with the public hearings conducted by the EPA.***
7. **Changes to the Agenda**
8. **Public Hearings - 7:15pm**
    a. *Public Hearing for considering the application to transfer ownership of the Liquor License from Mexican House to El Agave Mexican Restaurant –* ***No comments on this transfer***
9. **Committee/Board Meetings**
    a. *Town Council Work Session June 2, 2014 7:00 a.m. OHV Ordinance Revision –* ***Peter will have a draft of the new Ordinance hopefully by next week.***
10. **Supervisor Reports - See Attached**

Alden Vandenbrink gave a brief update on the sewer cleaning by Simon. Unfortunately it was discovered that 300 feet of line filled with aggregate from a manhole that evidently was open for quite some time at the Meeker Sand & Gravel Plant. Mr Conrado the owner of the property was present and did express that they did not know of the manhole or when the top was uncovered so were not aware that aggregate was going into the sewer line causing a backup. The council agreed to allow Peter to negotiate with Mr. Conrado to come to a reasonable resolution to repair and remediate the problems that we had to repair and clean.

11. Reports from Officers – Town Manager Update

Peter reviewed the Sewer cleaning deferring the main discussion to Alden. The OHV Ordinance should be ready for review at our next meeting. Peter is pursuing the performance bond or Surety agreement that is in place for Southwest Contractors. Southwest is attempting to laying blame on the engineering firm SGM. After reviewing the claim with Tami Tanu with CIRSA she recommended Josh Marks, an attorney specializing in construction law. We are meeting tomorrow morning to discuss the possibility of retaining EIS and Natural Resources Group for assisting with the EPA decision that is pending for the mine. We had all the parks surveyed in preparation for relinquishing ownership to the WRB Park & Rec District. I have had calls into Tim Webber to discuss necessary repairs and review the property lines with no response as of yet. We have 120 days from the date of the agreement to complete the task but at this point it does not look like that will get accomplished. We set paving timelines but they have had to be pushed back because of United Paving's schedule with Rio Blanco County. The Town of Rangely was awarded another grant of $335,000 for the waterline project replacement west of Town on CR102. The budget for this project is being finalized before entering into an agreement with the state. CML Annual Meeting will be in Breakenridge next week. Lisa Hatch and myself will be attending.

12. New Business

a. *Discussion and action to approve Resolution 2014-06 to approve the Yampa White River Region (SET) Stronger Economics Together plan-* ***Kaitlyn Cook, the Rio Blanco County Economic Director provided the council with a brief synopsis of the plan and how it will tie back to the county and Town of Rangely's goal to become more of a regional plan. Ann Brady motioned to approve resolution 2014-06 supporting the Yampa White River Region SET plan, Lisa Hatch seconded, motion passed***

b. *Discussion and approval of the 2013 Audited Financials and Independent Auditors Report.* ***Marlo Black with Colorado CPA Services presented and reviewed the Audited Financials with the Town Council reporting no insufficiencies. Dan Eddy motioned to accept the 2013 Audited Financials and Independent Auditors Report, Joe Nielsen seconded, motion passed***

c. *Discussion and action to approve the application to transfer ownership of the Liquor License from Mexican House to El Agave Mexican Restaurant* ***Ann Brady motioned to approve the transfer of Liquor License to new ownership of El Agave Mexican Restaurant from Mexican House, Dan Eddy seconded, motion passed***

d. *Discussion and Approval of May 2014 Check Register* ***Ann Brady motioned to approve the May 2014 Check Register, Dan Eddy seconded, motion passed***

e. *Discussion and Approval of the April 2014 Financial Recap* ***Andy Shaffer motioned to approve the April 2014 Financial Recap, Lisa Hatch seconded, motion passed***

f. *Discussion and Approval of agreement between Rangely Museum Society and the Town of Rangely for long term lease at $1.00 per year to renew for same term* ***Lisa Hatch motioned to approve the Rangely Museum Lease renewable every 25 years with approval of both parties, Joe Nielsen seconded, motion passed***

13. Informational Items

a. *Colorado Water Conservation Board Meeting July 16th and 17th at 8:00am at the CNCC Rector Building*

b. *Senior Picnic – June 18th – Elks Park 12:00pm to 2:00pm*

c. *RBC – Wagon Wheel Trails Master Plan Presentation – June 4th- 6:30pm @ WRMPRD*

d. *CML Annual Meeting – Breckenridge – June 18-20, 2014*

Lisa Hatch reminded the group that AGNC will be holding their meeting in Rangely at CNCC on April 26th, 2014

14. Scheduled Announcements

a. *Rangely School District board meeting is scheduled for June 17, 2014 at 6:15pm.*

b. *Rangely District Library regular meeting June 16, 2014 at 5:00pm.*

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f. *Rio Blanco Water Conservancy District board meeting is June 25, 2014 at 6:00pm. Public Forum for the Reservoir Feasibility Study at 7:00pm.*

g. *Rangely Chamber of Commerce board meeting is scheduled for June 19, 2014 at 12:00pm.*

15. Adjournment **Lisa Hatch motioned to adjourn the meeting, Ann Brady seconded, motion passed meeting adjourned at 8:15 pm.**

ATTEST: *RANGELY TOWN COUNCIL*

_____ _____

Lisa Piering, Clerk/Treasurer *Frank Huitt, Mayor*

12 – New Business

Ordinance 685 (2014)

AN ORDINANCE REPEALING AND REPLACING SECTIONS 10.14 OF THE RANGELY MUNICIPAL CODE TO EXPAND THE USE OF REGISTERED OFF-HIGHWAY VEHICLES BY QUALIFIED OPERATORS.

WHEREAS, the Town Board at its meeting on June ___, 2014 determined to schedule a public hearing to provide for public input concerning revisions to the current municipal code through the adoption of an ordinance providing for the operation of off-highway vehicles and the regulation of the operation thereof within the Town of Rangely; and,

WHEREAS, a public hearing was held on _____,2014, before the Town Board at its regular meeting at the Rangely Town Hall, 209 E. Main Street, of which hearing public notice was given in the Rio Blanco Herald Times newspaper, published on _____, 2014; and,

WHEREAS, the public, at such hearing, was given the opportunity to voice its opinion regarding the proposed operation of off-highway vehicles and the regulation of the operation thereof within the Town of Rangely; and,

WHEREAS, the Town Board on the basis of the evidence produced at the public hearing has made the following determination of fact:

1. The proposed adoption of an ordinance to provide for the establishment of off-highway vehicle routes to permit the operation of off-highway vehicles on Town roads, roadways and alleys and the regulation thereof is authorized pursuant to C.R.S. §33-14.5-101 *et seq.*, C.R.S. §31-15-401 and C.R.S. §31-15-702; and,

2. That the hearing before the Town Board was complete and all persons present had an opportunity to speak; and,

3. That the proposed designation of off-highway vehicle routes within the Town, the operation of off-highway vehicles and the regulation of the operation thereof is in the best interest of the public health, safety, and welfare.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN OF RANGELY, COLORADO:

Section 1. Chapter 10.14 shall be repealed and replaced in its entirety by the following provisions:

10.14.010 Definitions.
As defined in this chapter, unless the context otherwise requires, the following terms, phrases, words and their derivation shall have the meaning given herein.

1. "Off-highway vehicle" shall mean any self-propelled vehicle which is designed to travel on wheels or tracks in contact with the ground, which is designed primarily for use off of the public highways, and which is generally and commonly used to transport persons for recreational purposes. Such definition specifically includes, but is not limited to off-highway vehicles (OHV), all-terrain vehicles (ATV), utility-type vehicles (UTV), low-speed vehicles (LSV) and dirt bikes (DB). "Off-highway vehicle" shall not include the following: (a) Vehicles designed and used primarily for travel on, over, or in the water; (b) Snowmobiles; (c) Military vehicles; (d) Golf carts; (e) Vehicles designed to and used to carry disabled persons; (e) Vehicles designed and used specifically for agricultural, logging, or mining purposes; or (f) Vehicles registered pursuant to article 3 of title 42, C.R.S.

10.14.020 Designated Off-Highway Vehicle Routes

In accordance with C.R.S. §33-14.5-108(1), all Town streets, roads or alleys, except any road or roadway that is part of the state highway system within the Town, are hereby designated as off-highway vehicle routes.

10.14.030 Operation of Off-Highway Vehicles

1. No person over the age of ten (10) years and under the age of sixteen (16) years may operate an off-highway vehicle on such public street, road, or alley of the Town as designated in Section 10.14.020 above, unless the person is accompanied by and under the immediate supervision of a person who has in his possession a valid driver's license issued by the State of Colorado or another state. The phrase "under immediate supervision" shall mean that, at a minimum, the unlicensed operator is within direct visual contact of the licensed supervisor.

2. No person sixteen (16) years of age or older may operate an off-highway vehicle on such public street, road, alley of the Town as designated in Section 10.14.020 above, unless the person has in his possession a valid driver's license issued by the State of Colorado or another state.

3. No person shall operate an off-highway vehicle on a road, roadway, or alley of the Town while carrying any person or riding in any position that may interfere with the operation or control of an off-highway vehicle or the view of the operator.

4. Every person operating an off-highway vehicle shall do so in compliance with the applicable laws of the State of Colorado and the Model Traffic Code for Colorado, as adopted by the Town of Rangely, pursuant to the provisions of section 10.5.107 of this chapter.

5. The operator of an off-highway vehicle in Town who is under the age of sixteen (16) years or otherwise operating pursuant to paragraph 1 above shall not exceed a maximum speed of ten (10) miles per hour. The operator of an off-highway vehicle in the Town who is at least sixteen (16) years of age and has a valid driver's license shall not exceed a maximum speed of fifteen (15) miles per hour, except such speed shall not exceed any posted speed limit.

10.14.040 Safety Equipment1. No off-highway vehicle shall be operated upon the Town streets, roads or alleys unless it is equipped with the following:

a. At least one lighted headlamp and one lighted tail lamp which conform to the standards prescribed by regulation while being operated between the hours of sunset and sunrise.

b. Brakes and a muffler and spark arrester which conform to the standards prescribed by regulation, which shall be applicable in all cases except for off-highway vehicles being operated in organized competitive events held on private lands with the permission of the landowner, lessee, of the custodian of the land.

10.14.050 Notice of Accident

(1) The operator of an off-highway vehicle involved in an accident within the Town limits resulting in property damage, injuries or death, or some person acting for the operator, or the owner of the off-highway vehicle having knowledge of the accident shall immediately, by the quickest available means of communication, notify the office of the Town police department. If an accident occurs outside of the Town limits, the operator or some person acting for the operator shall immediately notify the Rio Blanco County Sheriff's Office.

(2) The Town Police Department upon receiving a report of accident under this section shall forward a copy thereof to the Colorado Division of Parks and Outdoor Recreation.

(3) Within forty-eight (48) hours after an accident involving an off-highway vehicle, the accident shall be reported to the Denver office of the Colorado Division of Parks and Outdoor Recreation. The report shall be made on forms furnished by such Division and shall be made by the owner or operator of the vehicle or someone acting for the owner or operator.

10.14.051 Limitation of Liability.

To the maximum extent permitted by law, nothing in this chapter shall be construed as an assumption of any duty of care by the Town with respect to, or the assumption of any liability by the Town for any injuries to persons or property which may result from the operation of an off-highway vehicle on the roads, roadways, or alleys within the Town limits

10.14.052 Enforcement, Violations and Fines.

1. Every peace officer of the Town is hereby authorized to enforce the provisions of this chapter as provided by the applicable provisions of the Model Traffic Code for Colorado Municipalities, as adopted by the Town of Rangely. Notwithstanding the provisions of the Model Traffic Code for Colorado, as adopted by the Town of Rangely, Article II Definitions, subsection (121), an "off-highway vehicle" as defined herein shall be considered a "vehicle" for purposes of the application or enforcement of the Model Traffic Code, as adopted by the Town of Rangely, except for Part 2, Equipment thereof.

2. Any person who violates the provisions of this chapter shall be guilty of a municipal ordinance offense and, upon conviction thereof shall be punished by a minimum fine of fifty ($50.00) dollars, and a maximum fine of not more than three hundred ($300.00) dollars. Pursuant to the Colorado Municipal Court Rules of Procedure, 210(b)(4), the Municipal Court may by order, which from time to time may be amended, supplemented, or repealed, designate the ordinance offenses and the penalties for which may be paid at the office of the court clerk.

Section 2. **Adoption**

a. The Town Board hereby finds, determines, and declares that this ordinance is necessary and proper to provide for the safety, preserve the health, promote the prosperity, and improve the order, comfort and convenience of the Town and the inhabitants thereof. The recitals of this ordinance are hereby adopted by the Town Board as additional findings.

b. If any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be invalid or unconstitutional, such decision shall not affect the validity or constitutionality of the remaining portions of this ordinance. The Town of Rangely hereby declares that it would have passed this ordinance, and each section, subsection, sentence, clause or phrase hereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

c. The Town Manager is hereby directed to execute this ordinance.

Section 3. Severability. If any part of this ordinance is invalidated for any reason, it shall not affect the validity of the remaining portions of this ordinance.

Section 4. Effective Date. This ordinance shall be effective thirty (30) days after publication following final passage.

Section 5. Publication of Summary. The Town Council deems it appropriate to publish the title of this ordinance, together with a summary of the ordinance and with a statement that the text is available for public inspection and acquisition in the office of the Town Clerk.

READ, APPROVED AND ORDERED PUBLISHED ON FIRST READING AT ITS REGULAR MEETING THIS _____ DAY OF _____, 2014 BY THE TOWN COUNCIL OF THE TOWN OF RANGELY, COLORADO.

_____
Frank Huitt, Mayor

Attest:

_____

Lisa Piering, Town Clerk

PASSED, APPROVED AND ADOPTED ON SECOND READING AFTER PUBLIC HEARING AT ITS REGULAR MEETING THIS _____ DAY OF _____, 2014 BY THE TOWN COUNCIL OF THE TOWN OF RANGELY, COLORADO.

_____
Frank Huitt, Mayor

Attest:

_____
Lisa Piering, Town Clerk

Preserving
Our Environment

Through
Water Conservation

Water Containment Products · Liners · Bentonite Clay

LINER QUOTATION

DATE: June 16, 2014 NO. OF PAGES: 1

TO: Town of Rangely
Attn: Al 970-675-2221 E-mail: al@rangelygovt.com

PROJECT: Pond Liner Repair
Rangely, CO

QUOTATION: We are pleased to provide the following quotation:

1. Furnish 2,640 sf of 45 mil tan RPP for liner repair……$2,320.00
2. Daily rate for 2 H&H techs……$1,650/day

CLARIFICATIONS:
1. Sales tax is not included.
2. Price includes materials and freight. Daily rate based on 8 hour working day. Any additional time will be billed @ $150/hr. Trash dumpster FBO.
3. Terms: Net 30 day
4. Price valid for 30 days from quotation date.

THANK YOU FOR THE OPPORTUNITY TO QUOTE,

Brian Kendall
Brian Kendall - PM
H&H Lining

INVOICE

Western Rio Blanco Recreation Center

INVOICE # 411
DATE: JUNE 16, 2014

611 South Stanolind, Rangely, CO 81648
Phone 970-675-8211 Fax 970-675-8011
cashier@westernrioblanco.org

TO Town of Rangely
Attn: Lisa Piering
209 East Main St
Rangely, CO 81648

SALESPERSON	JOB	PAYMENT TERMS	DUE DATE
		Due on receipt	

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
	Septemberfest Donation	1000.00	1000.00
	4th of July Donation	1000.00	1000.00
		SUBTOTAL	$2000.00
		SALES TAX	$0.00
		TOTAL	$2000.00

Make all checks payable to WRBMR&PD
THANK YOU FOR YOUR BUSINESS!

MEMORANDUM

SUBJECT: TOWN OF RANGELY – WATER TREATMENT PLANT IMPROVEMENTS PH. 1
Filters #3 & #4 Concrete Tank Leak Repair Recommendations

DATE: June 17, 2014

TO: Peter Brixius & Al Vanden Brink (Town of Rangely)

FROM: Bill Swigert, Warren Swanson, Jocelyn Mullen, Blaine Wright (SGM)

From May 12 thru May 20, Al Vanden Brink completed Test #1 thru #6 of the testing regimen as recommended in our memo of April 29, 2014. Test #7 will be completed by May 22. This memo will summarize the results of that effort, and provide repair recommendations moving forward.

For reference, the testing program consisted of the following:

1. Fill to a 35" level, about 1" below the lower construction joint. Hold for 24 hours and measure water level.
2. Fill to a 37" level, about 1" above the lower construction joint. Hold for 24 hours and measure water level.
3. Fill to a 45" level, about 1" above the middle construction joint. Hold for 24 hours and measure water level.
4. Fill to a 63" level, about 1" above the upper construction joint. Hold for 24 hours and measure water level. (Level discussed and revised after the 4/29/14 memo issued)
5. Fill to breech the weir block outs, thereby filling the backwash waste gullet, to 1" below the bottom of the old backwash waste line. Hold for 24 hours and measure water level.
6. Fill to maximum operating level, which should correlate to about 9" above the top of old backwash waste line, and below the waste line flange. Hold for 24 hours and measure water level.
7. Drain Filter. Dry out base slab. Observe joint at north wall for a 12 hour period. Observe base slab for evidence of cracks that would typically be slower to dry than the surrounding floor.

Test Results Summary:
Through Test #4, total loss recorded was 3/16", which occurred during the first three days, and total loss for the next two days of 0". Some of this loss could be due to saturation of the concrete, not leakage. During that time, moisture was observed in the following locations:

- Filter #4 at Cold Seam #1, (36" Above Finish Floor (AFF)) numerous locations, especially at the end closest to Filter #3 (west)
- Two locations on the base slab of Filter #4
- At the base of common wall between Filter #3 & #4.
- Observation Ports #1 & #2 (P1 & P2, with ports numbered from west to east, continuing along Filter #4).

Through Test #5 & Test #6, total loss recorded was 5/8". During that time, moisture was additionally observed in the following locations:

- Two locations on the base slab of Filter #4

- South face of Filter #3 Gallery Wall west end, at newly installed pipe bracket
- At base of south face of Filter #3 Gallery Wall, west of Filter #3 West Wall (i.e. south of the void between Plant 1 and Plant 2).
- At one exposed waterstop in P1.
- P3, P4, P5, and P8.
- At the new stairwell east of Filter #4

Discussion:
Cold Seam #1 appears to be leaking in numerous locations essentially along its entire length. It appears to be passing water between Filter #3 and Filter #4, depending upon which filter basin is holding water. Observation Ports 1 & 2 during much of the testing exhibited water at the Cold Seam #2 construction joint within the air gap. This is likely the source of water observed in P8. These joints have had numerous injections and at least one coating applied to it. Al has observed the coating in more than one location is spalling away from the concrete substrate, which would indicate the coating may not be competent.

There continues to be leakage concentrated in the interface between the new and old concrete construction at the southwest corner of Filter #3. Since much of the leakage in the air gap was encountered during Test #5, this may indicate that the backwash waste gullet is leaking at the west end (old/new construction interface). It could also be that previous leak locations are more active due to the increase in water head. The observation of coating failures in other areas renders the competency of the existing gullet coating suspect.

All other leak locations are much less active, and at discrete locations.

Repair Recommendations:

Basis
SGM recommends that a combination of targeted polyurethane injection of leak locations identified through the basin leak testing program described above and epoxy surface coatings be pursued as the next step. This conclusion was reached in consultation/collaboration with the repair contractor, Restruction Corporation, and the Town. This recommendation is based upon the following rationale:

- The last round of water hold tests indicated that both filter basins are relatively close to passing both the A & B tests (Filter #4 has already passed the “A” test). Furthermore, water tightness was improved through the Restruction urethane injection work. With many remaining leak locations well-identified, we anticipate that additional targeted injections will further improve water tightness.
- There is some concern that in some areas, such as along the lower western portion of the north wall of Filter #3, there may be porous concrete with disconnected cavities. This is difficult to repair with urethane injection. Thus, the application of an impervious surface coating is warranted. A surface coating should also help to seal-off leak pathways that simply cannot be identified.
- Previous attempts to seal the basins were made by the Phase 1 Contractor using cementitious mortar-type surface coatings (Aquafin and Xypex). This type of coating has not achieved success and has been observed to be failing in a number of locations. Therefore, we believe it is appropriate to apply a more water-resistant, multi-coat epoxy system with proper surface preparation.

While the recommended urethane injection work will include Cold Seam #1 (along the top of the north side of the filtered water channel), SGM does not recommend at this time that access to the enclosed filtered water channels be created to perform urethane injection or coatings application work inside from inside the channels. That effort will be particularly difficult, costly

and subject to the risk of creating new leak pathways through access ways construction. SGM recommends that the filter basins be tested for leaks following the completion of the urethane injection and coatings application work identified herein. The need for making repairs from inside the filtered water channels can be assessed after the next round of repairs.

Epoxy Coating System Options Considered
SGM considered two different moisture-tolerant, "high-build," 100% solids, two-component, NSF-61-approved epoxy coating system options:

- A 125-mil spray-on system from Warren Environmental
- A 15-mil system from Sika Corporation

In addition to all basin walls, SGM recommends that the entirety of each filter's floor, including and especially, all the lower construction joints between floor slabs and wall footings or walls themselves be coated. The goal is to achieve a fully leak-tight basin, especially below the filter underdrain system. Once the filter underdrains are installed, remediation of any leaks in the floor or lower portions of the basin walls would require removal and replacement of the underdrains.

A key consideration in selecting a coating system is compatibility with, and ease of installation of, the filter underdrain system. Bond strength between concrete substrate, coatings, and mortar (if used) need to exceed 100 PSI, per the underdrain system supplier, Xylem-Leopold. Furthermore, Xylem-Leopold has developed detailed installation instructions through decades of experience with hundreds of underdrain projects around a system that uses cement mortar in which to bed and level the underdrains.

Warren Environmental-based Coating Option
The Warren Environmental system was explored because of its ability to result in a highly robust, durable coating system via exceptional bond strength (500 to 800 psi to prepared concrete surface), high moisture tolerance (it has been applied underwater), and very high build (125 mils) achievable in a single spray-applied coat. Because of the system's very high costs, however, SGM evaluated this option based upon the following hybrid approach, which targets use of the Warren Epoxy in critical locations only:

- Surface preparation, consisting of 5,000-psi water blast, and if determined necessary to effectively remove previously-applied coatings, abrasive blasting
- Application of the Warren S-301-01 epoxy coating system over the entire floor and up to a height of 6' along the south walls of the filter boxes and 2' along the other three walls of each basin.
- Application of 15 mils of the SikaGard 62 epoxy coating system (see below) on all other filter basin surfaces below an elevation of 81.0 (1.5' below finished floor or 4" above anticipated high water level in the filters).
- Application of approximately 1.25" of Warren M-301 epoxy mastic on the floor of Filter #3 in place of leveling typical cement grout for filter underdrain setting and leveling.
- Application of Warren Magna Glass (glass bead-infused M-301) epoxy mastic between and around underdrain laterals.

Surface preparation and the application of the spray-on Warren Environmental S-301 epoxy in both filters would be performed by Warren-certified installers out of the Denver area. The Sika system in both filters would be installed by the Town's repair contractor, Restruction Corporation. The Warren-certified installers would need to work with the Town's Phase 2 Contractor during the simultaneous installation of the Warren mastic and Xylem-Leopold underdrain system in Filter #3. The Warren mastic and Xylem-Leopold underdrains in Filter #4 would be installed at some future point in time when the Town decides to equip Filter #4.

The following table summarizes the costs for the Warren Environmental-based coating system.

Warren Environmental-Based Coating System Approach:
Engineer's Opinion of Probable Construction Cost

Filter I.D.	Item	Qty.	Units	Unit Cost	Line Cost
#3	Surface prep – Sika-coated areas	800	SF	$2	$1,600
#3	SikaGard 62, applied in two coats (15 mils)	800	SF	$8	$6,400
#3	Restruction Mobilization	1	LS	$1,000	$1,000
#3	Surface prep + Warren S-301 Epoxy, app. (125 mils)	400	SF	$49.50	$19,800
#3	Warren M-301 Mastic, app. below underdrains (1.5")	200	Gal.	$100	$20,000
#3	Warren Magna Glass Mastic, app. betwn. underdrains	290	Gal.	$135	$39,150
#3	Warren Mobilization, etc.	2	Days	$3,000	$6,000
	Subtotal for Filter #3				$93,950
#4	Surface prep – Sika-coated areas	800	SF	$3	$2,400
#4	SikaGard 62, applied (15 mils)	800	SF	$7	$5,600
#4	Restruction Mobilization	1	LS	$1,000	$1,000
#4	Surface prep + S-301 Epoxy, applied (125 mils)	400	SF	$49.50	$19,800
	Subtotal for Filter #4				$28,800
	Total Coating System Cost				**$122,750**

SIKA-based Coating Option

The SIKA Corporation-based coating system evaluated by SGM includes the following:

- By Restruction Corporation (Town's repair Contractor)
  - Surface preparation using an abrasive blast - all surfaces to receive an ICRI CSP-3 to -4 profile
  - Application of one coat of SikaGard 62 epoxy at a DFT of approximately 6-8 mils - all surfaces
  - Filling of "bug holes" with SikaDur 31 paste to create a smooth surface for 2nd coat of SikaGard 62
  - Application of a second coat of SikaGard 62 epoxy at a DFT of approximately 6-8 mils - all surfaces; total SikaGard coating to be 12-15 mils DFT.
  - SikaGard 62 curing
- By Phase 2 Contractor with Guidance/Oversight by Restruction
  - Shortly before scheduled underdrain installation, the SikaGard 62 epoxy surfaces to receive mortar for underdrain installation are prepped to allow creation of a strong bond between them and the SikaDur32 bonding agent. This involves abrasion with a 50-grit sanding pad, wipe down with xylene solvent, wipe down with dry white cloth.
  - Application of SikaDur 32 bonding agent within 4 to 10 hours, depending on prevailing temperatures, prior to application of standard cementitious grout
- By Phase 2 Contractor
  - Grouting-in of underdrains using standard cementitious grout

The following table summarizes estimated costs for the SIKA-based approach.

SIKA-Based Coating System Approach: Engineer's Opinion of Probable Construction Cost					
Filter I.D.	Item	Qty.	Units	Unit Cost	Line Cost
#3	Surface prep – Sika-coated areas	1,200	SF	$2	$2,400
#3	SikaGard 62, applied in two coats (15 mils) with "bughole" filling using SikaDur 31	1,200	SF	$8	$9,600
#3	Restruction Mobilization	1	LS	$2,000	$2,000
#3	SikaGard 62 surface prep	300	SF	$2	$600
#3	SikaDur32, bonding agent, applied	300	SF	$8	$2,400
	Contingency	1	LS	$3,000	$3,000
	Subtotal for Filter #3				*$20,000*
#4	Surface prep – Sika-coated areas	1,200	SF	$2	$2,400
#4	SikaGard 62, applied in two coats (15 mils) with "bughole" filling using SikaDur 31	1,200	SF	$8	$9,600
#4	Restruction Mobilization	1	LS	$1,000	$1,000
#4	Contingency	1	LS	$2,000	$2,000
	Subtotal for Filter #4				*$15,000*
	Total Coating System Cost				**$35,000**

Coating System Recommendation

Based upon the following rationale, SGM is recommending that the Town retain Restruction Corporation to install a SIKA-based coating system in Filters #3 and #4:

- SGM held a teleconference with Xylem-Leopold and SIKA representatives where the proposed approach was discussed. The Xylem-Leopold representative agreed that the coating system, if properly installed, would meet its requirements in terms of underdrain compatibility and hold-down restraint. The SIKA representative indicated that, if the products are properly installed, the bonds between the epoxy and the concrete floors/walls, the epoxy and the bonding agent, and the bonding agent and the grout would each exceed the tensile strength of both the cementitious grout and the concrete materials.
- SGM has found through past experience that SIKA products are high-performance and the company delivers significant product applications expertise.
- The SIKA products representative has a high degree of confidence, based on numerous past experiences, in Restruction's ability to successfully prepare surfaces and apply the SIKA products according to SIKA recommendations.
- Cost. The SIKA system, as installed by Restruction, is anticipated to meet project requirements and yield a durable, long-term coating system for the basins at a competitive cost.
- The SIKA system allows for the standard cementitious grout to be used for underdrain bedding and leveling. Thus, Xylem-Leopold's history of installation knowledge and expertise remains relevant, and the risks of a failed underdrain system install are minimized.

<u>Cost Estimate for Overall Recommended Repairs</u>

The following table summarizes the estimated cost of SGM's recommended next set of repairs to Filters #3 and #, which consists of targeted polyurethane injection at identified crack/leak locations and coating of the filter bains below the 81.00' EL. mark (13.5' depth).

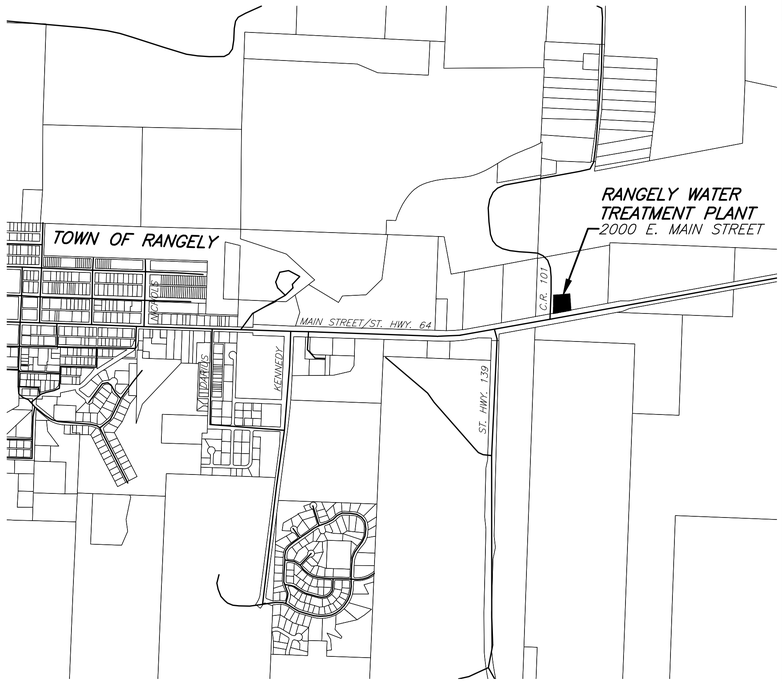
Overall Recommended Repairs Engineer's Opinion of Probable Construction Cost					
Filter I.D.	Item	Qty.	Units	Unit Cost	Line Cost
#3	SIKA-based Coating System – see prev. table	1	LS	$20,000	$20,000
#4	SIKA-based Coating System – see prev. table	1	LS	$15,000	$15,000
#3 & #4	Polyurethane Injection with Mobilization	1	LS	$30,000	$30,000
	Total Estimated Construction Contract Cost				**$65,000**
	Estimated Engineering Costs During Construction	1	LS	$15,000	$15,000
	Total Estimated Cost				**$80,000**

Attachments:
A – Polyurethane Injection Repair Plan
B – Sika Coating Information
C – Warren Environmental Coating Product Information

WBS

Town of Rangely

Water Treatment Plant Improvements - Phase 1



Vicinity Map

SCALE: 1"= 1000'

Construction Set

January 9, 2013

Plans Prepared By

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Project Engineer

Jocelyn F. Mullen, P.E. 40512
Adam M. Racette, P.E. 43341

Structural Engineer

William B. Swigert, S.E., P.E. 20602

Electrical Engineer

Russ Sasakura, P.E. 16149

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Bighorn Consulting Engineers

Mark Harrington, P.E. 39887

Plans Prepared for the
Town of Rangely

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Mayor:
Frank Huitt

Town Manager:
Peter Brixius

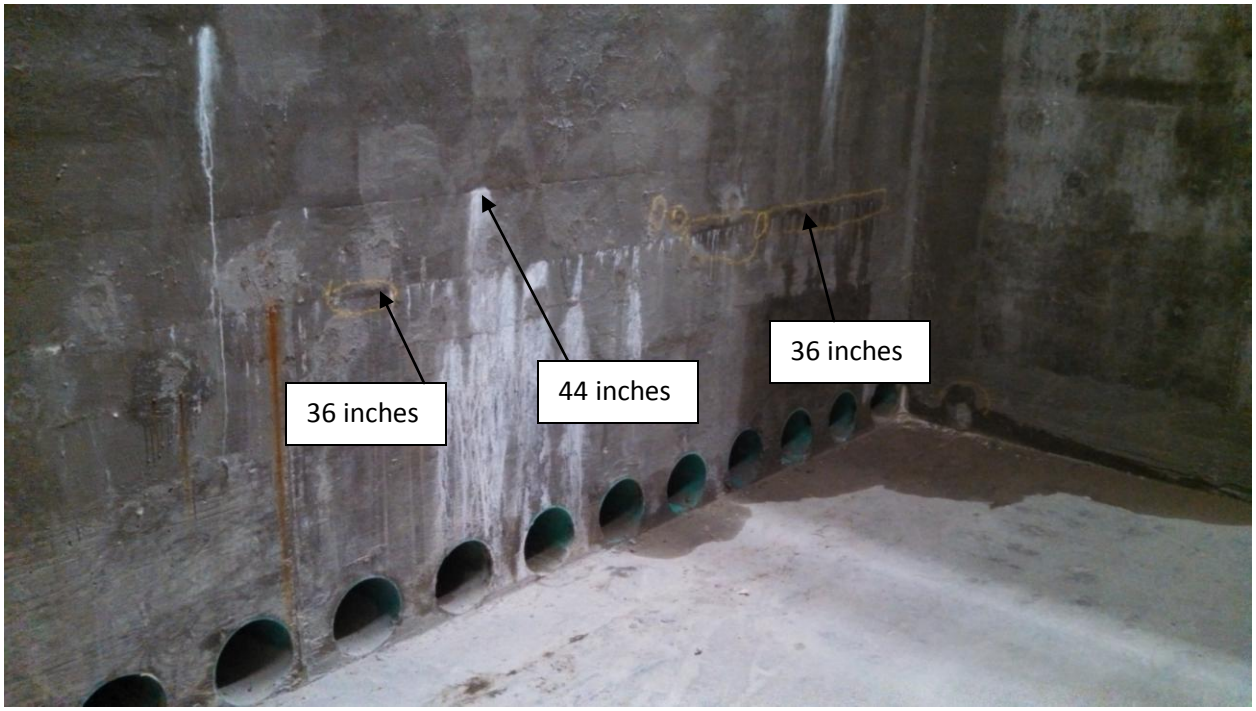
COLORADO LICENSED JOCELYN F. MULLEN 40512 PROFESSIONAL ENGINEER 1-9-13

#	Revision	Date	By
1	RELEASE FOR CONSTRUCTION	1/9/13	RM

Job #. 2005-327-002 File: RglyWTP-01-Admin

Filter #4 leak elevations measured from slab. (SE corner)

Yellow circles denote known areas of leakage. Measurements are from slab at 62.50' elevation. 36 inches is 1st cold seam, 44 inches is 2nd cold seam.



Filter#4 leak elevations measured from slab. (SW Corner)

May 16, 2014

South wall and SW corner of Filter #4. Two small yellow circles on left side is where coating is blistering.

Yellow marks at elevation 70.50

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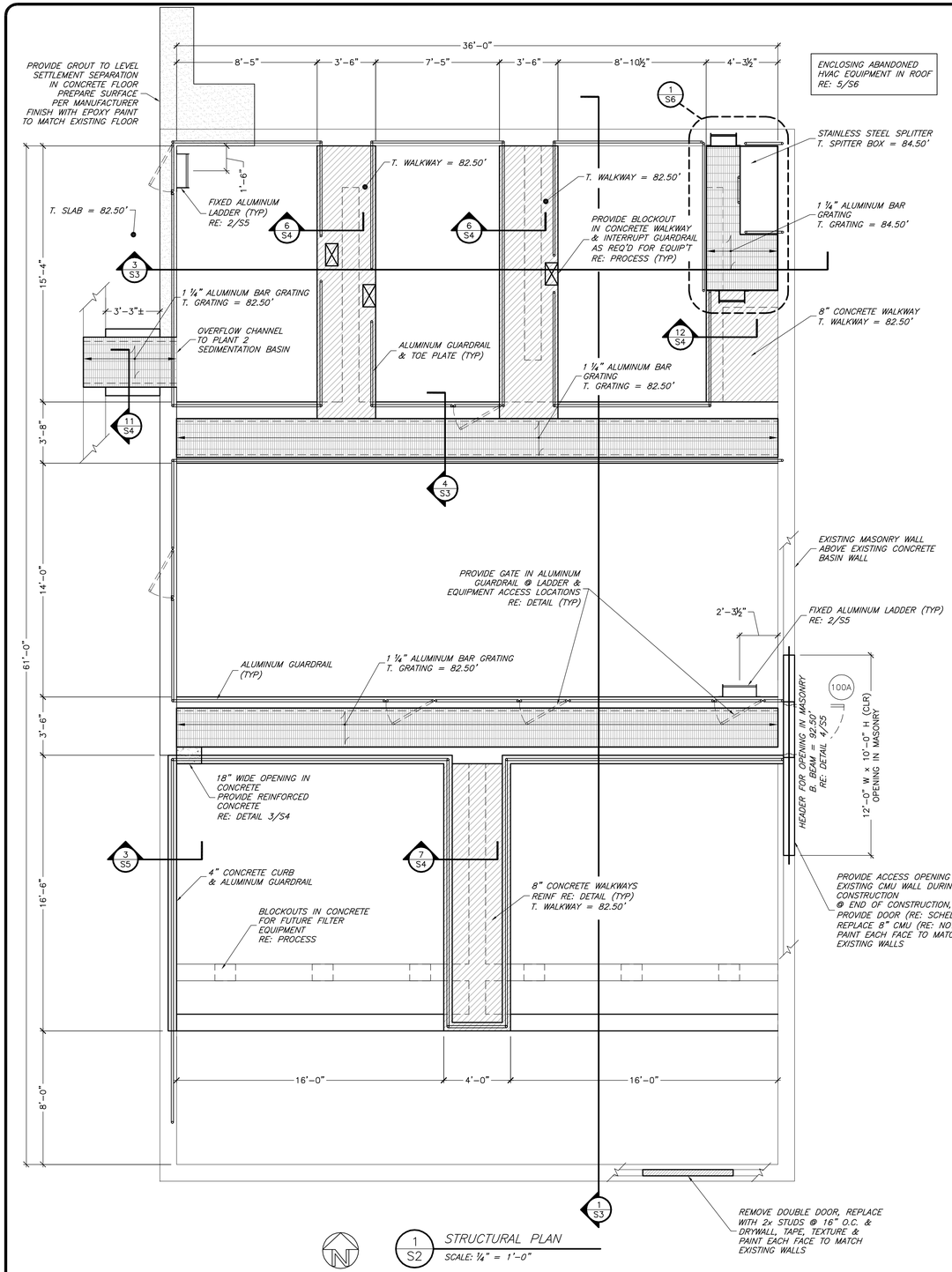

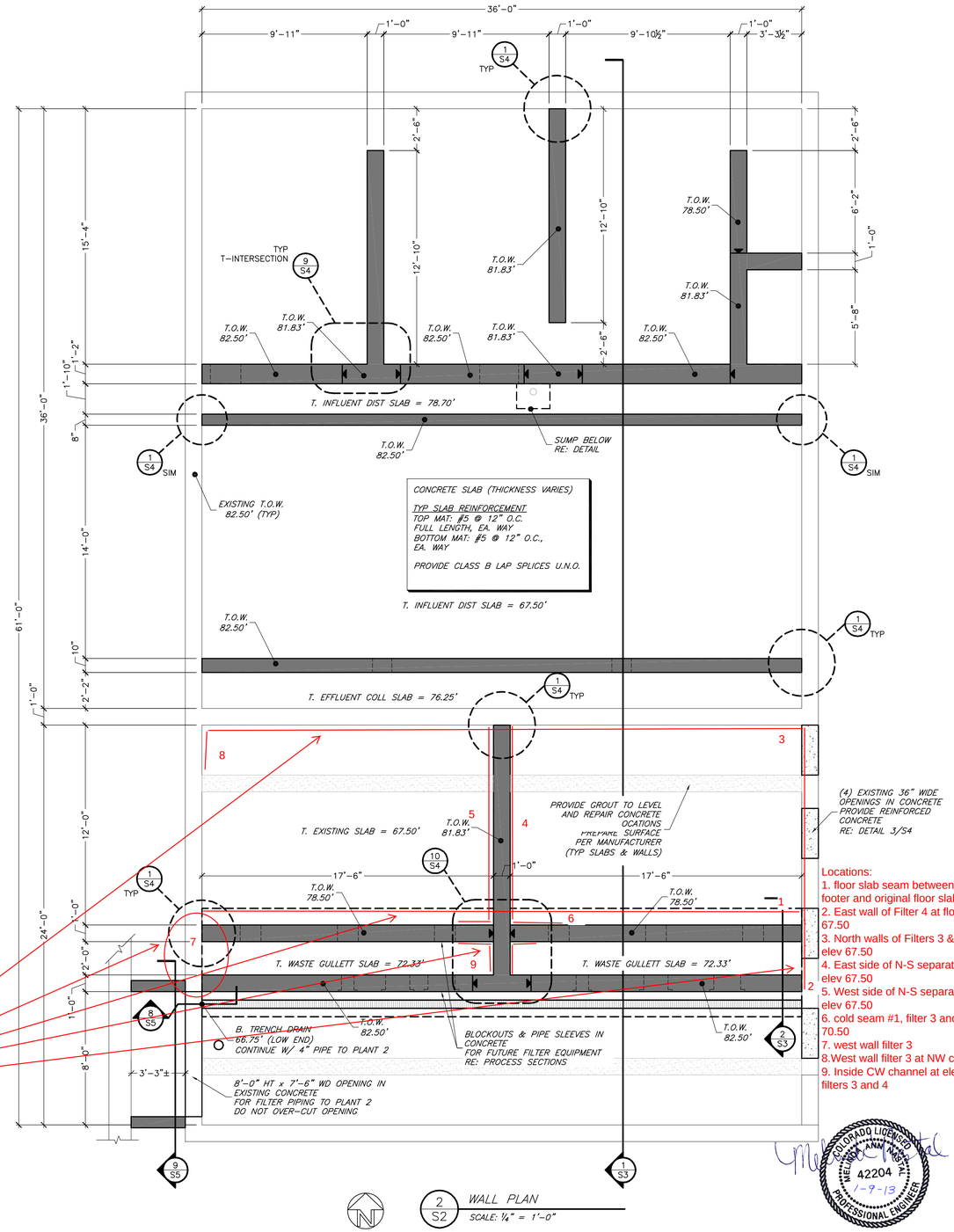

Additional Pressure injection grouting locations

Locations:
1. floor slab seam between gullet footer and original floor slab
2. East wall of Filter 4 at floor elev 67.50
3. North walls of Filters 3 & 4 at floor elev 67.50
4. East side of N-S separating wall, elev 67.50
5. West side of N-S separating wall, elev 67.50
6. cold seam #1, filter 3 and 4, elev 70.50
7. west wall filter 3
8.West wall filter 3 at NW corner
9. Inside CW channel at elev 67.50, filters 3 and 4

COLORADO LICENSED MELISSA A. MANTAL 42204 1-9-13 PROFESSIONAL ENGINEER

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Town of Rangely
WTP Improvements - Phase 1

#	Revision	Date	By
1	RELEASE FOR CONSTRUCTION	1/9/13	MAN

Structural Plans

Job No.	2005.327.005		
Drawn by:	MAN		
Date:	11/1/12		
QC: NMT	PE: MAN		
File:	RglyWTP-Ph1-Struct		

S2

Of

May 16, 2014

Filter #4 northeast corner. Corresponds to locations 2 and 3

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May 16, 2014

Filter #4 west wall and northwest corner.

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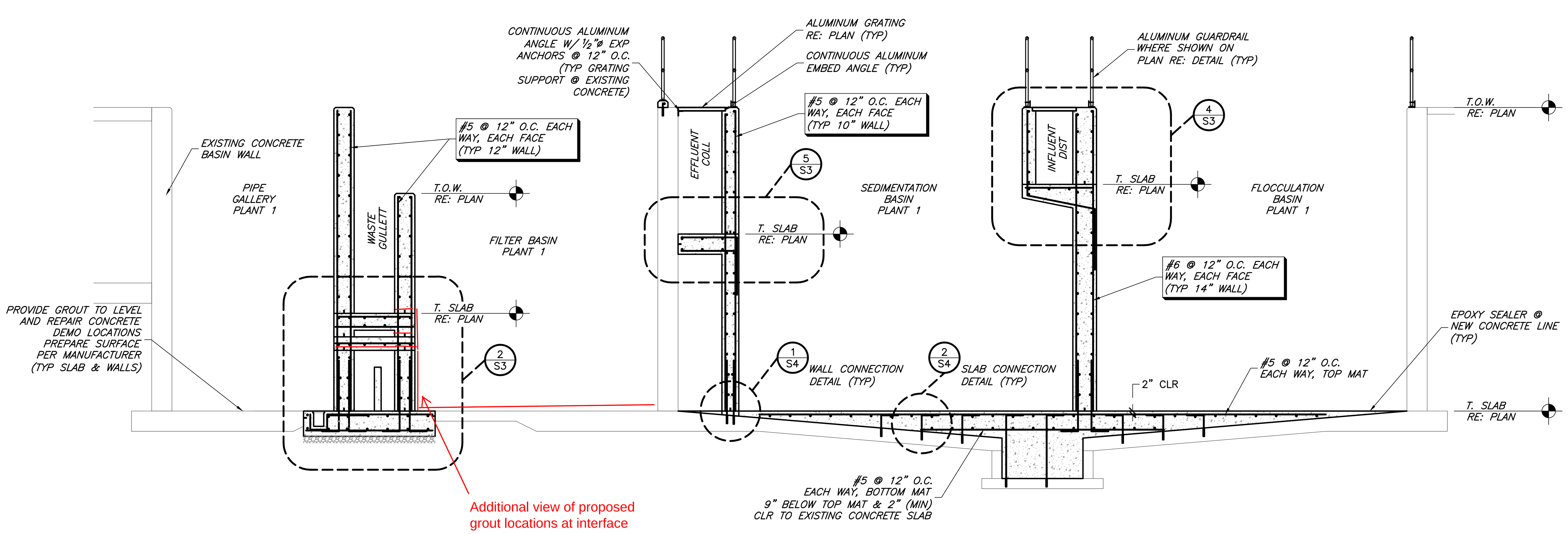
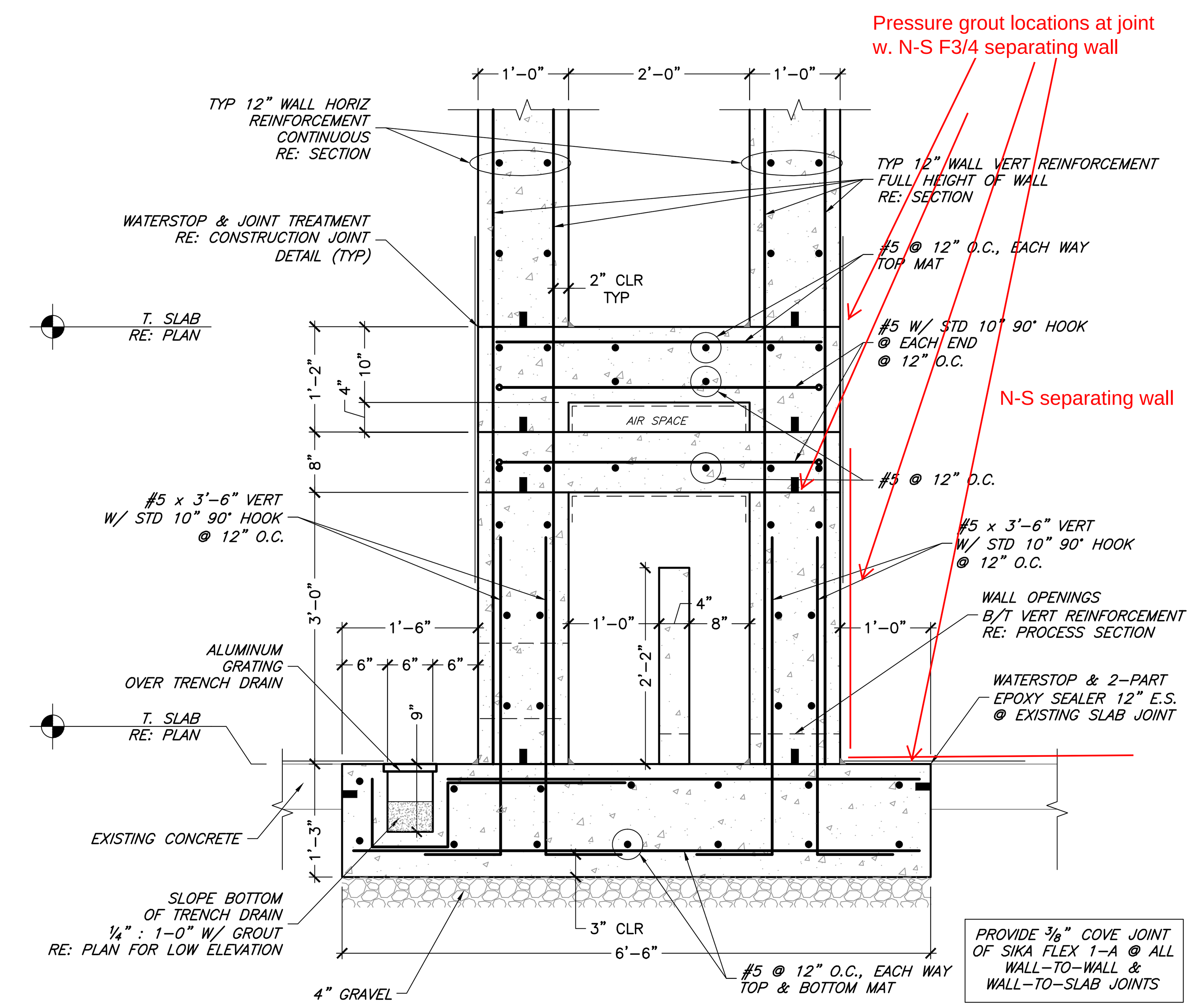
Figure 1. Pix taken by Al V 4/29/2014 w. 8 feet of water in F4. Shows influence on leaks in Cold seam # 1 of F3

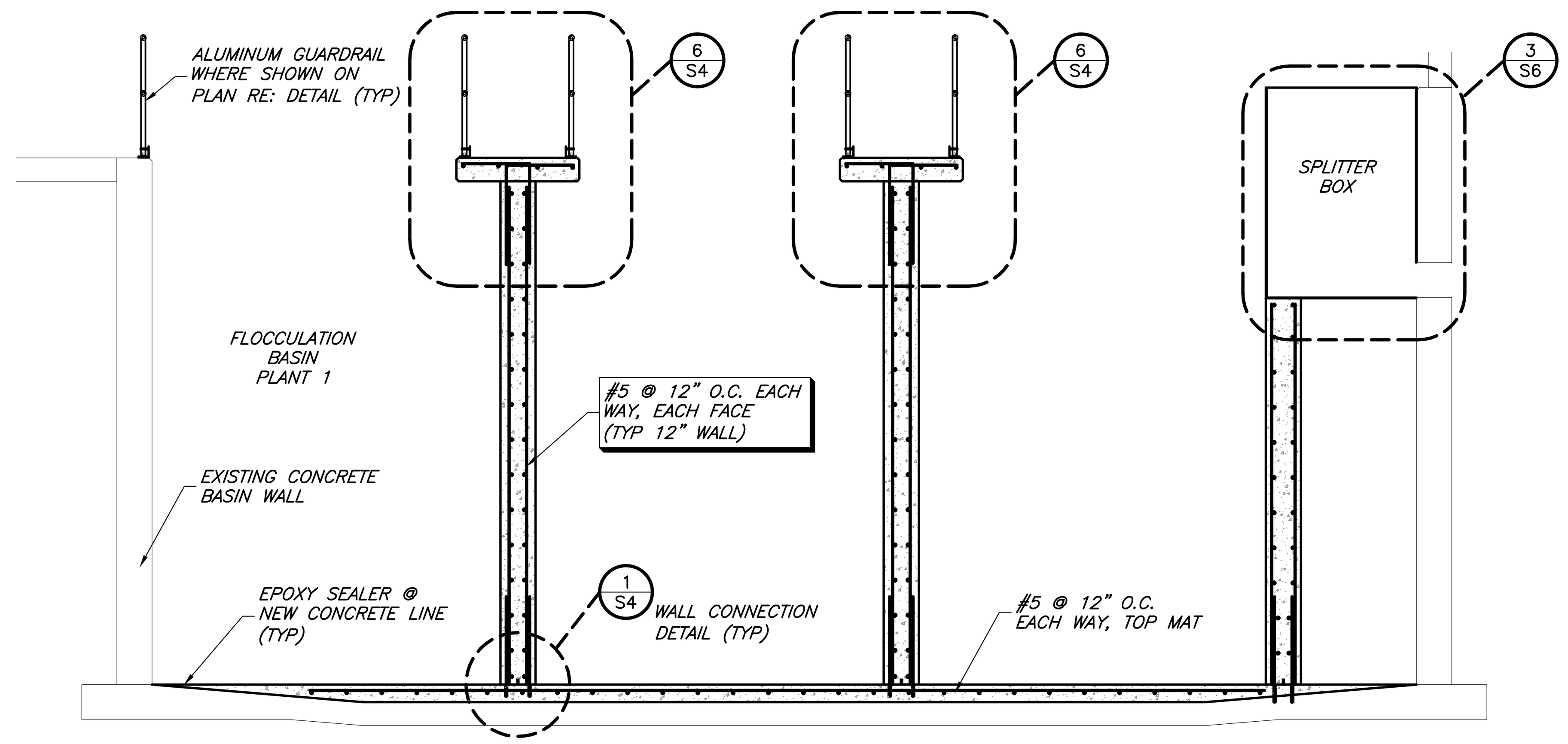
Figure 2. Pix taken by Al V 4/29/2014 w. 8 feet of water in F4. Shows influence on leaks in F3



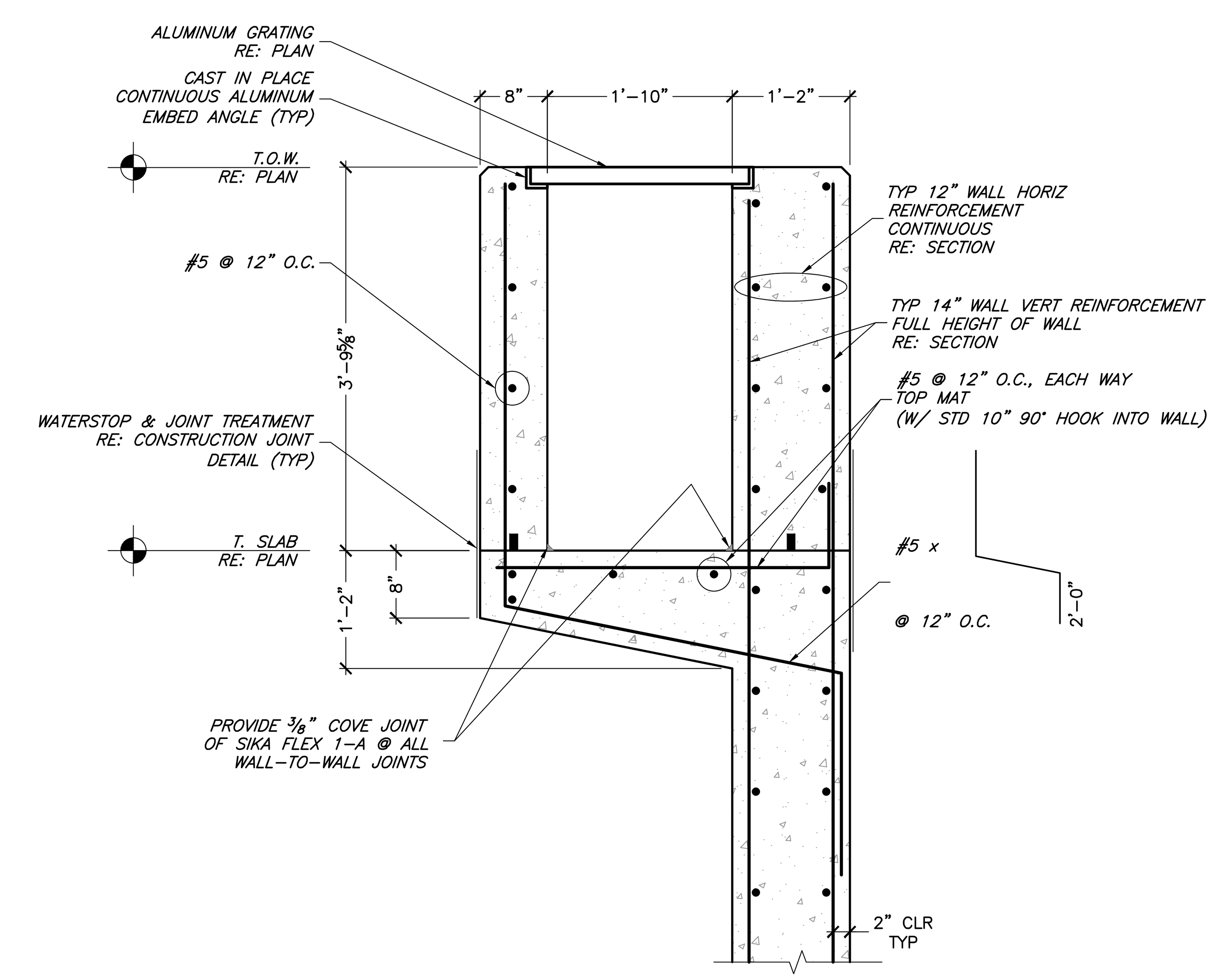
1 S3 SECTION
SCALE: ¼" = 1'-0"



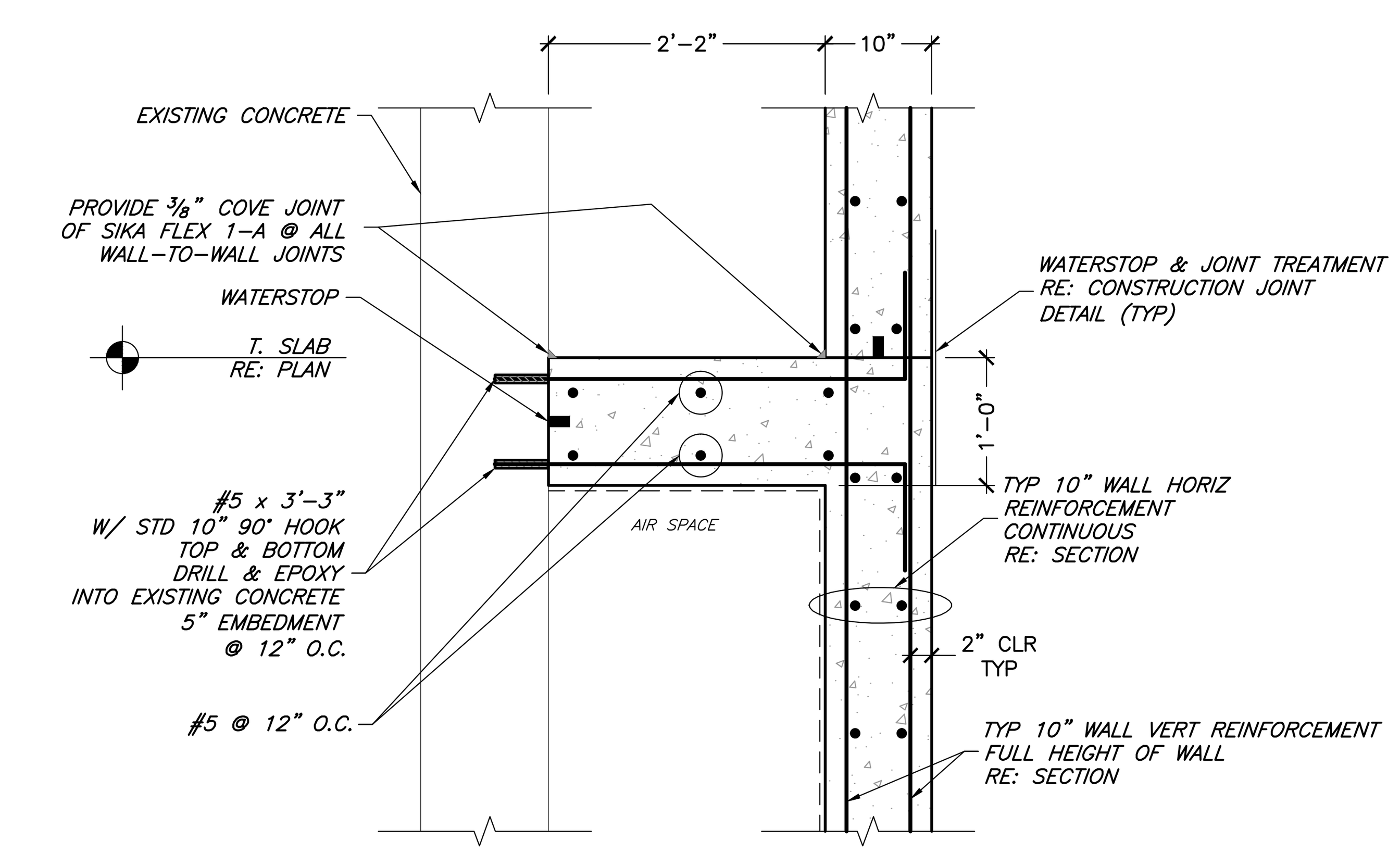
2 S3 FILTER WALLS DETAIL
SCALE: ¾" = 1'-0"



3 S3 SECTION
SCALE: ¼" = 1'-0"



4 S3 INFLUENT DISTRIBUTION CHANNEL DETAIL
SCALE: ¾" = 1'-0"



5 S3 WALL & SLAB DETAIL
SCALE: ¾" = 1'-0"

COLORADO LICENSED PROFESSIONAL ENGINEER 42204 1-9-13

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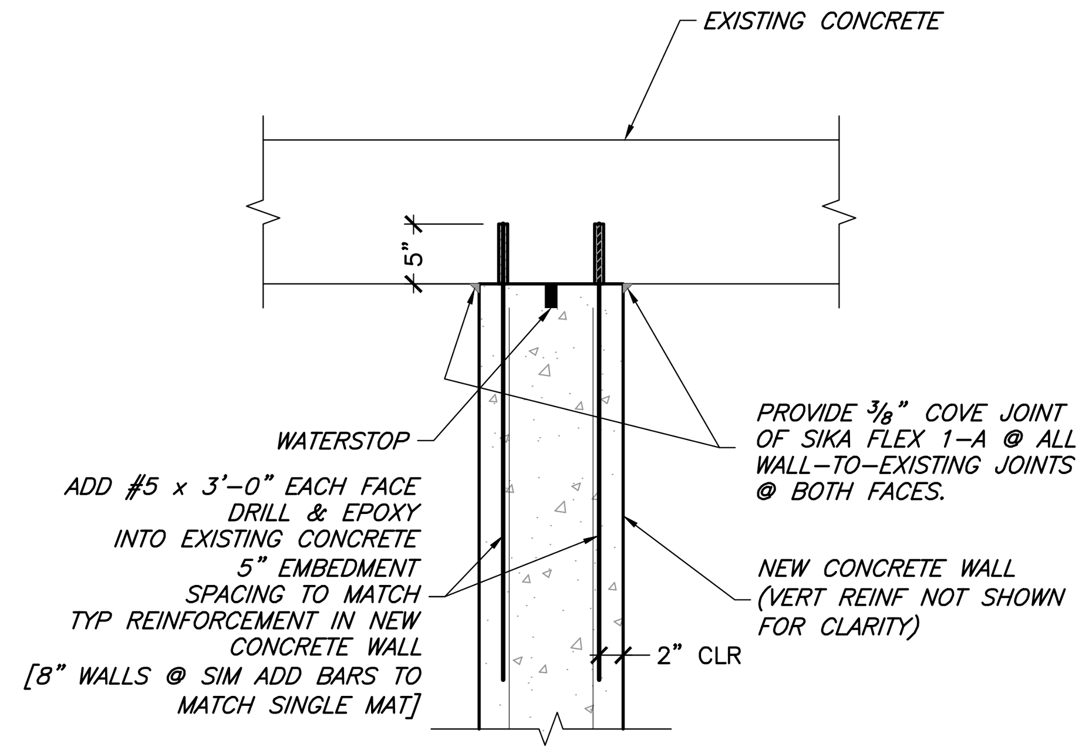
Town of Rangely
WTP Improvements - Phase 1

#	Revision	Date	By
1	RELEASE FOR CONSTRUCTION	1/9/13	MAN

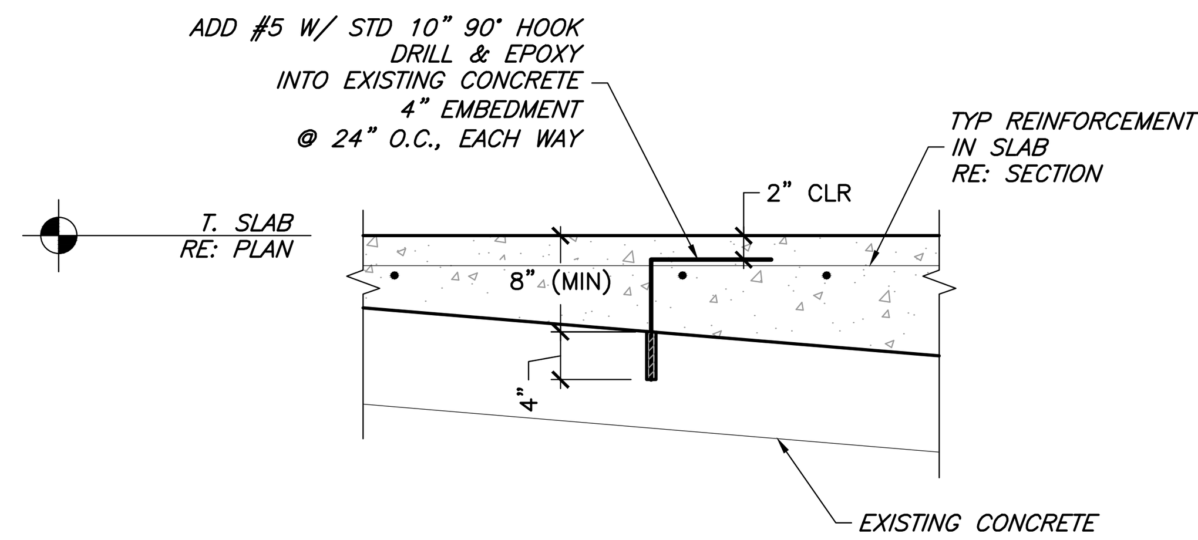
Structural
Wall Sections

Job No.	2005-327.005
Drawn by:	MAN
Date:	11/1/12
QC: NMT	PE: MAN
File:	RglyWTP-Ph1-Struct

S3
Of



1 / S4 WALL CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



2 / S4 SLAB CONNECTION DETAIL
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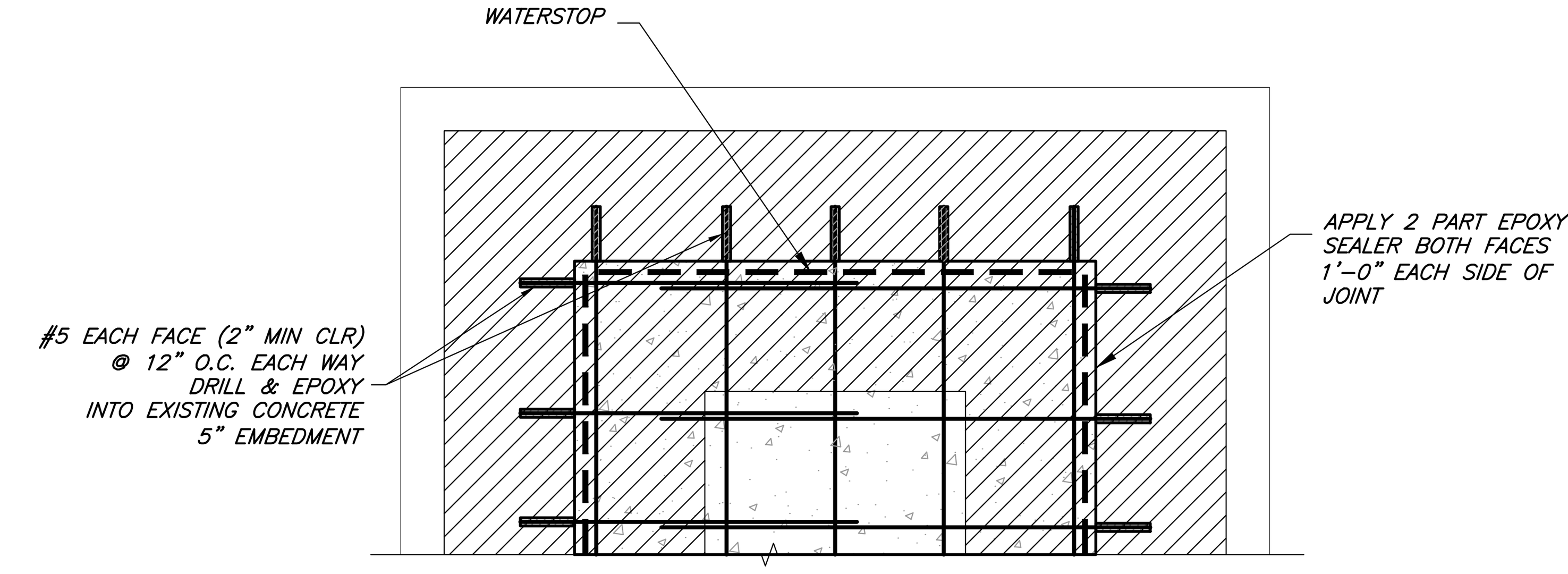

3 / S4 OPENING REPAIR DETAIL
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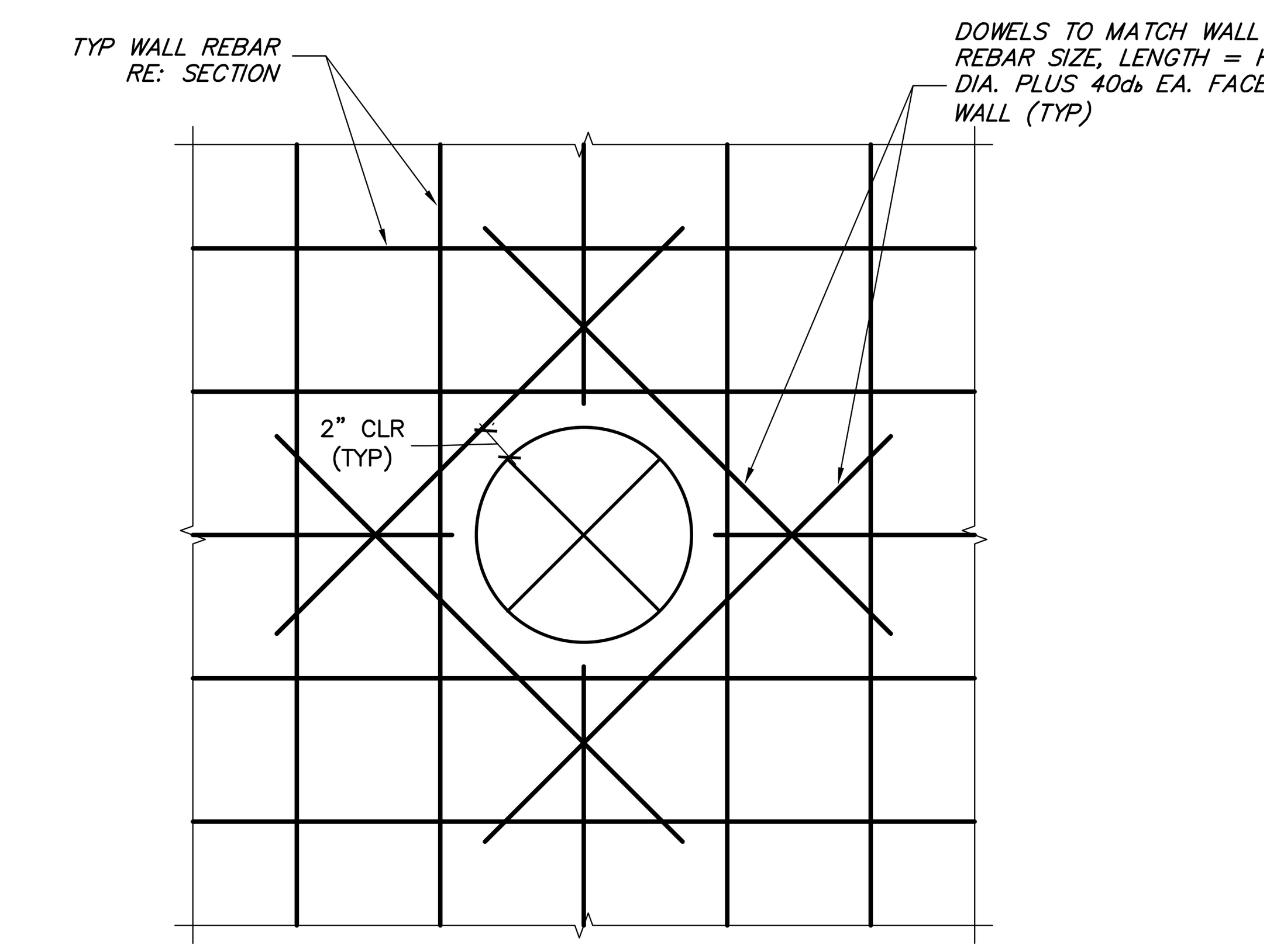
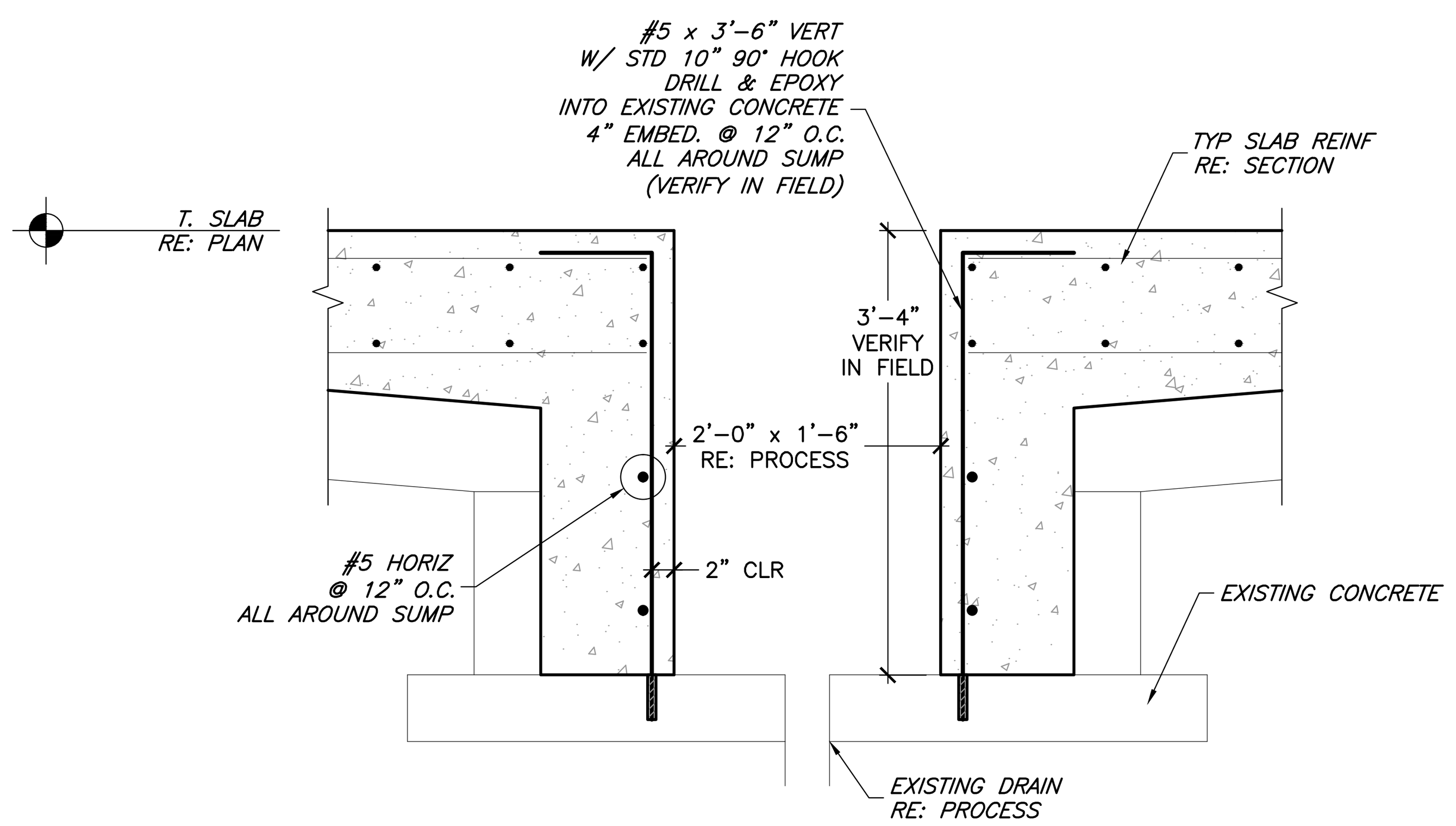


4 / S4 ALL WALL PIPE PENETRATIONS 12" OR LARGER
SCALE: 3/4" = 1'-0"



5 / S4 SUMP DETAIL
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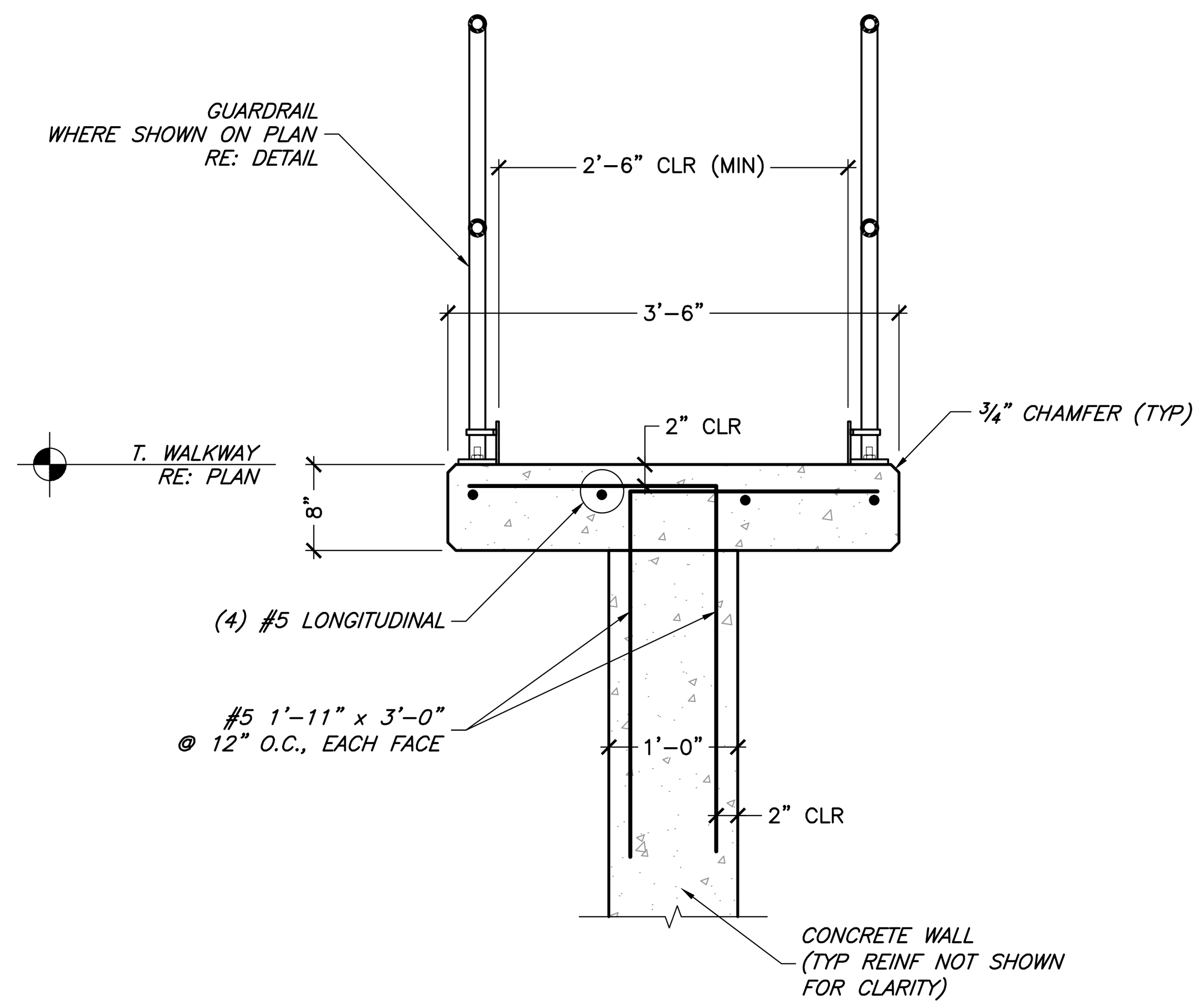
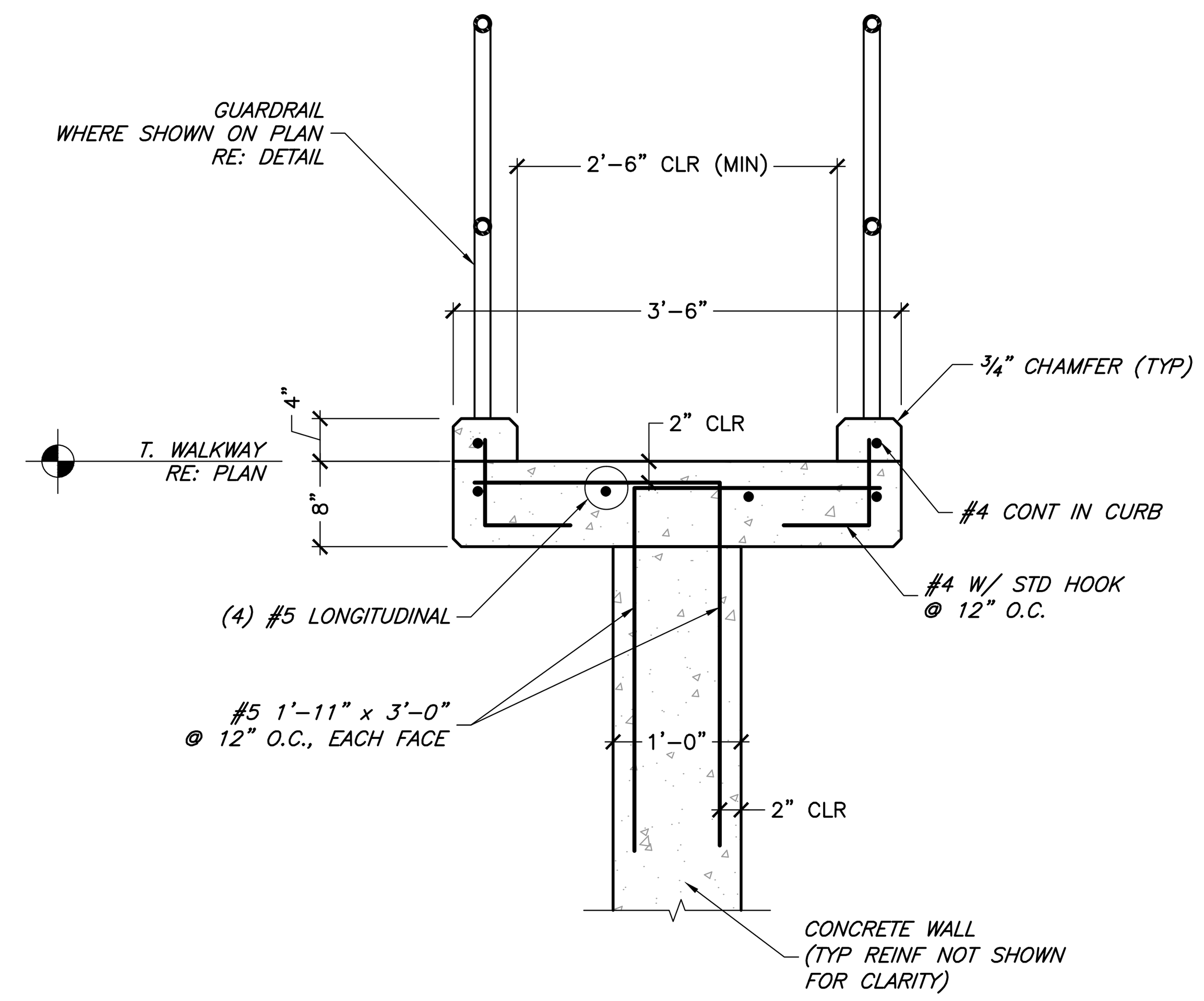
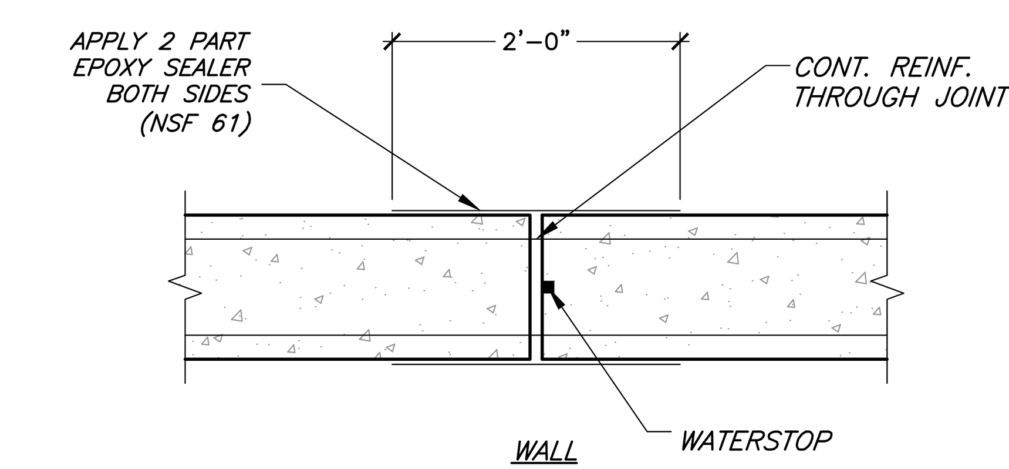


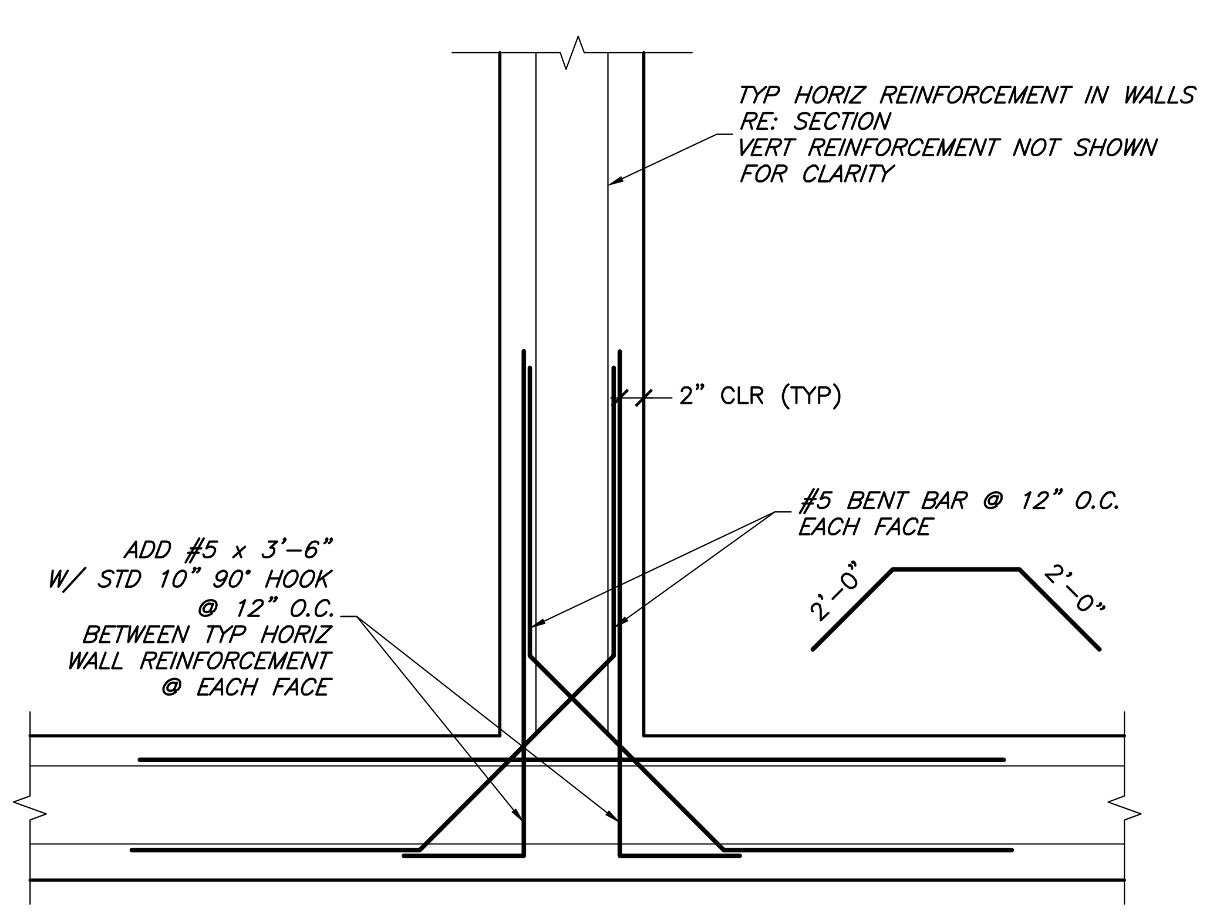
6 / S4 WALKWAY DETAIL
SCALE: 3/4" = 1'-0"



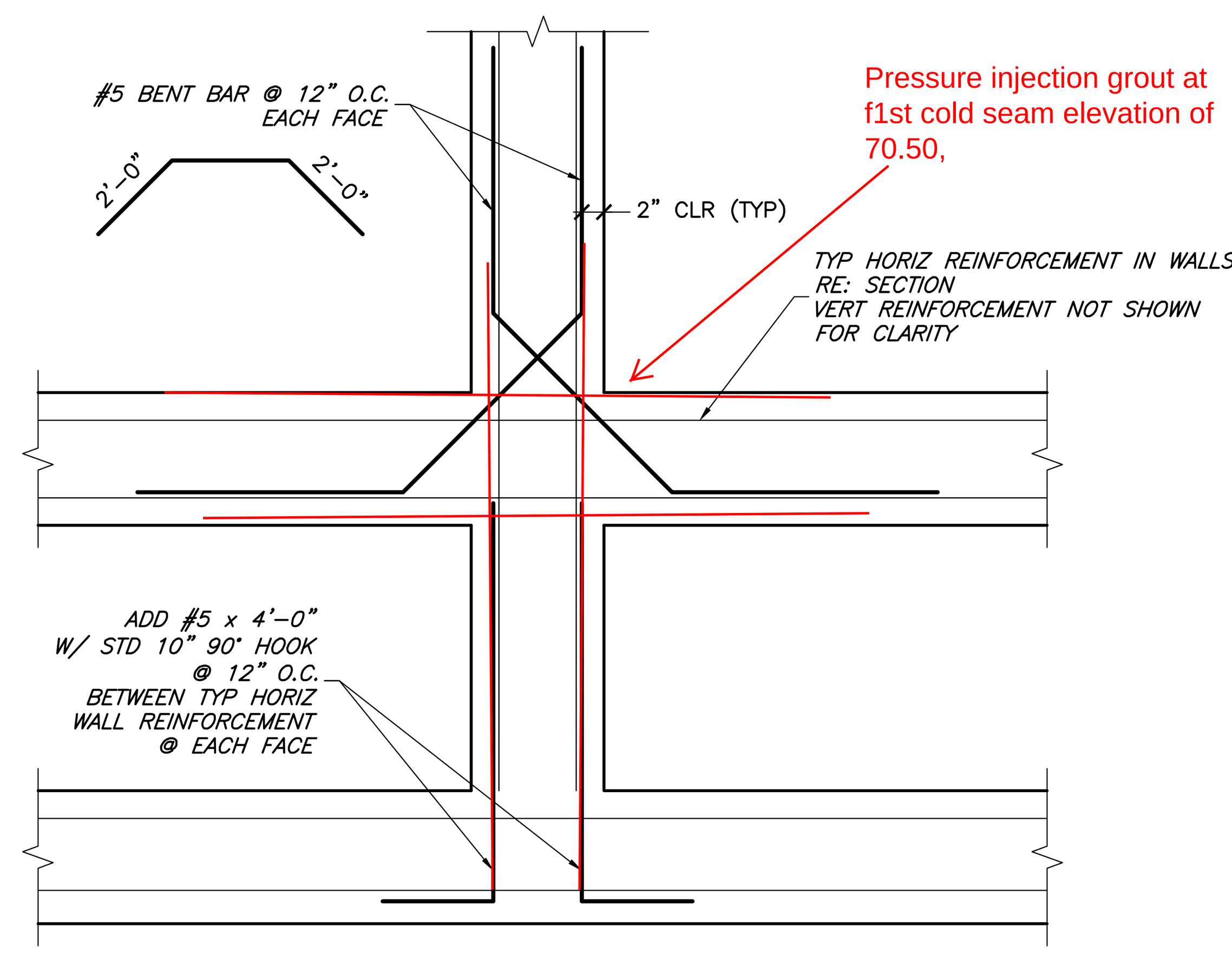
7 / S4 WALKWAY DETAIL
SCALE: 3/4" = 1'-0"



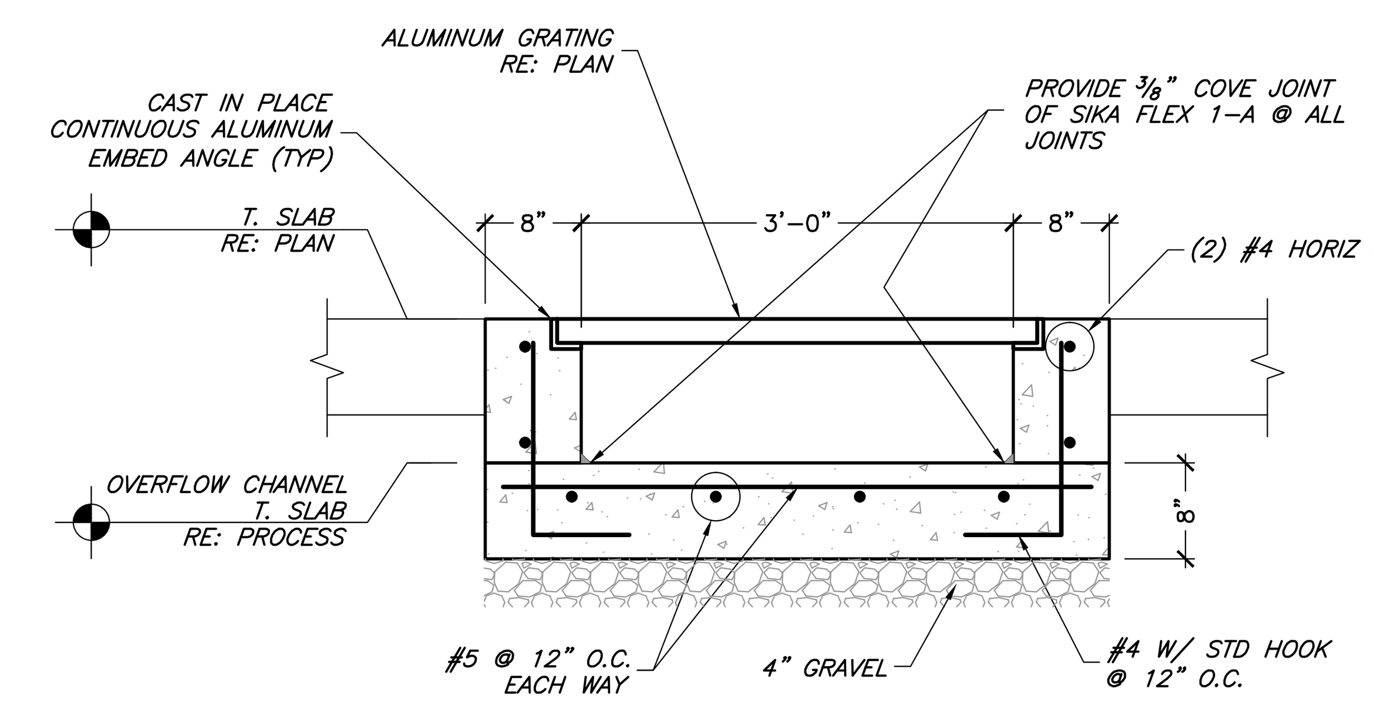
8 / S4 CONSTRUCTION JOINT IN NEW CONCRETE DETAIL
SCALE: 3/4" = 1'-0"



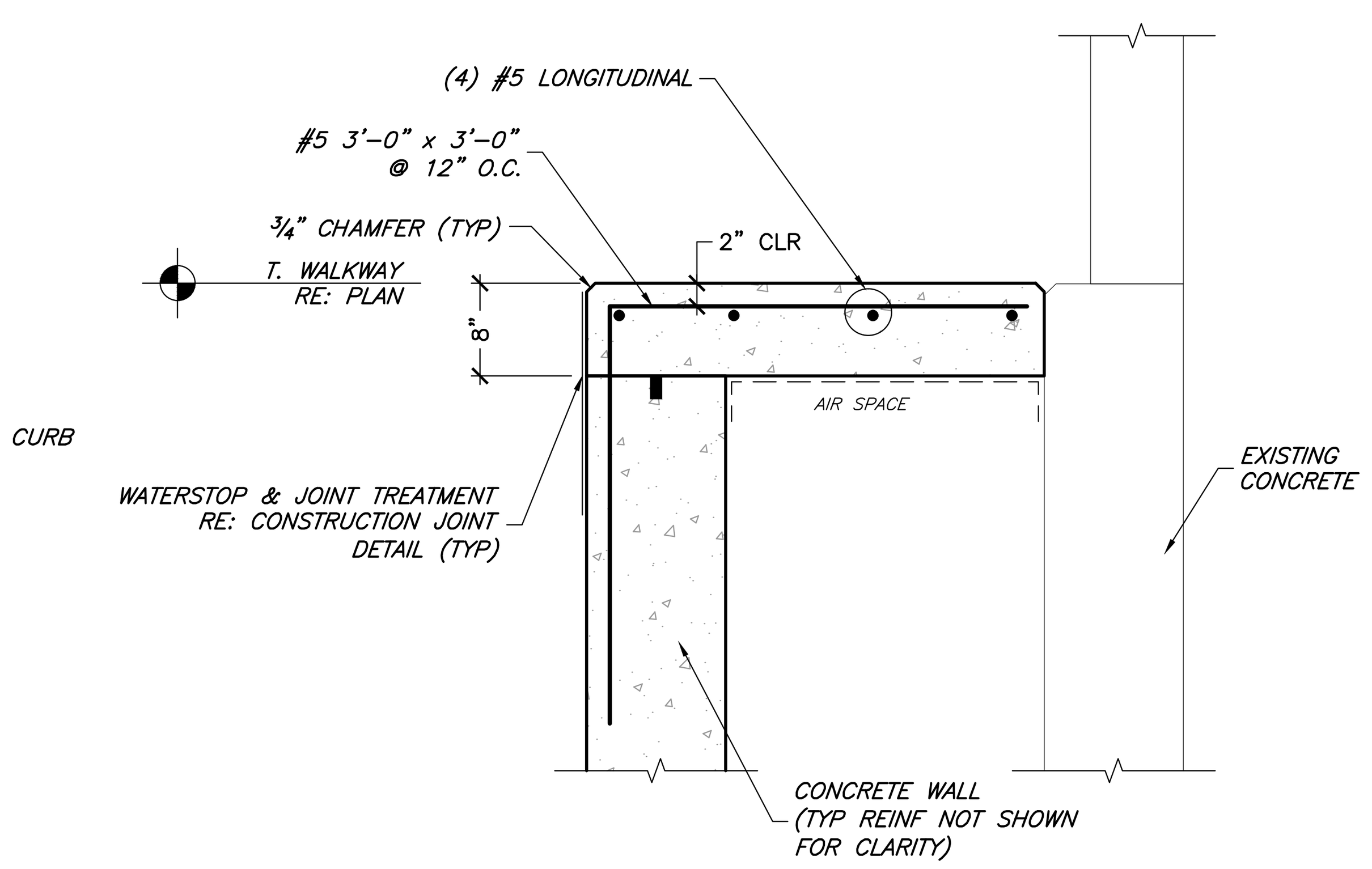
9 / S4 PLAN – ADDITIONAL HORIZ. REINF @ T-INTERSECTION
SCALE: 3/4" = 1'-0"



10 / S4 PLAN – ADDITIONAL HORIZ. REINF @ INTERSECTION
SCALE: 3/4" = 1'-0"



11 / S4 OVERFLOW CHANNEL DETAIL
SCALE: 3/4" = 1'-0"



12 / S4 WALKWAY DETAIL
SCALE: 3/4" = 1'-0"

COLORADO LICENSED PROFESSIONAL ENGINEER 42204 1-9-13

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Town of Rangely
WTP Improvements - Phase 1

#	Revision	Date	By
1	RELEASE FOR CONSTRUCTION	1/9/13	MAN

Structural Details

Job No.	2005-327.005
Drawn by:	MAN
Date:	11/1/12
QC: NMT	PE: MAN
File:	RglyWTP-Ph1-Struct

S4
Of

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Construction

Sikagard® 62

High-build, protective, solvent-free, colored epoxy coating

Description	Sikagard 62 is a 2-component, 100% solids, moisture-tolerant epoxy resin. It produces a high-build, protective, dampproofing and waterproofing vapor-barrier system.
Where to Use	Use as a high build, corrosion-resistant, protective coating, as a protective lining for secondary containment structures or as a seamless flooring system.
Advantages	■ Exceptional tensile strength. ■ Good chemical resistance for long-term protection. ■ Convenient A:B = 1:1 mixing ratio. ■ Easy, paint-like viscosity. ■ Available in 3 standard colors: gray, red, and tan. ■ Excellent bonding to all common structural substrates. ■ Super abrasion resistance for long-term wear. ■ Sikagard 62 gray, after cure, is approved for contact with potable water. ■ Material is USDA certifiable.
Coverage	Approximately 150-250 sq. ft./gal. depending on condition of substrate.
Packaging	4 gal. units; 1 qt. units, 12/case.

How to Use

Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants. **Preparation Work: Concrete** - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or equivalent mechanical means. **Steel -** Should be cleaned and prepared thoroughly by blastcleaning.
Mixing	**Pre-mix each component.** Proportion equal parts by volume of Components 'A' and 'B' into a clean mixing container. Mix with a low-speed (400-600 rpm) drill using a Sika paddle for 3 minutes, until uniform in color.
Application	Apply coating using high-quality roller, brush or spray. Two coats are recommended. Apply second coat as soon as the first coat is tack-free and the traffic of application will not damage the first coat. The

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

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years in original, unopened containers.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). **Condition material to 65°-75°F (18°-24°C) before using.**
Color	Gray, red, tan.
Mixing Ratio	Component 'A' : Component 'B'=1:1 by volume.
Viscosity (Mixed)	Approximately 3,500 cps.
Pot Life	Approximately 35 to 40 minutes. (60 gram mass).
Tack-Free Time	Approximately 4 hours.
Open Time	Light foot traffic: 5-7 hours. Rubber-wheel traffic: 8-10 hours.
Immersion and Chemical Exposure	Minimum cure: 3 days
Tensile Properties (ASTM D-638)	
14 day	Tensile Strength 5,400 psi (37.3 MPa) Elongation at Break 2.7 %
Abrasion (ASTM D-1044) (Taber Abrader)	
7 day	Weight loss, 1,000 cycles (H-22 wheel, 1,000 gm weight) 0.61 gm
Abrasion Resistance (ASTM D-968)	
14 day	Abrasion Coefficient 51 liters/mil.
Adhesion (ASTM D-3359)	
1 day	Adhesion Classification 4A
Water Absorption (ASTM D-570)	
7 day	(24 hour immersion) 0.1%

Construction

second coat, however, **must** be applied within 48 hours since a longer delay will require additional surface preparation.

Do not spray with slip resistant granules mixed into the coating. For use as a seamless flooring system, consult Technical Service.

Limitations

- Minimum substrate and ambient temperature for application 50°F (10°C).
- Do not apply over wet, glistening surface.
- Material is a vapor barrier after cure.
- Do not apply to porous surfaces exhibiting moisture-vapor transmission during the application. Consult Technical Service.
- Minimum age of concrete prior to application is 21-28 days, depending on curing and drying conditions.
- Do not apply to exterior, on-grade substrates.
- Use oven-dried aggregate only.
- Do not thin with solvents.
- Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
- On 'green or 'damp' concrete, EpoCem can be used as a pore filler to reduce vapor drive and potential osmotic blistering.

Caution

Component 'A' - Irritant; Sensitizer - Contains epoxy resin. Can cause sensitization after prolonged or repeated contact. Skin and eye irritant. Vapors may cause respiratory irritation. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of high vapor concentrations, use an appropriate NIOSH approved respirator. Remove contaminated clothing.

Component 'B' - Sensitizer - Contains amines. Contact with eyes or skin may cause severe burns. Can cause sensitization after prolonged or repeated contact. Skin and eye irritant. Vapors may cause respiratory irritation. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of high vapor concentrations, use an appropriate NIOSH approved respirator. Remove contaminated clothing.

First Aid

Eyes: Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin:** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation:** Remove person to fresh air. **Ingestion:** Do not induce vomiting.

In all cases, contact a physician immediately if symptoms persist.

Clean Up

Ventilate area. Confine spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

Chemical Resistance

Specimen: Two Coats - 10 mils Total
Cured 10 days
Substrate: asbestos cement

Chemical	Test Temp.	Storage Time and Evaluation				
		1 Day	1 Month	2 Months	6 Months	12 Months
Water	75°F (24°C) 100°F (38°C) 140°F (60°C)	A A A	A A A	A A A	A A A, D	A A A, D
Sodium Chloride Solution (Saturated)	75°F (24°F) 100°F (38°C)	A A	A A	A A	A A	A A
Sodium Hydroxide 30%	75°F (24°C)	A	A	A	A	A
Cement Water (Saturated)	75°F (24°C)	A	A	A	A	A
Detergent Solution (5% Ajax)	75°F (24°C) 140°F (60°C)	A A	A A	A A	A A, D	A A, D
Hydrochloric Acid 10%	75°F (24°C)	A	A	A	A	A
Sulfuric Acid 10%	75°F (24°C)	A	A	A	B	B
Oxalic Acid 10%	75°F (24°C)	A	A, D	A, D	A, D	A, D
Citric Acid 10%	75°F (24°C)	A	A, D	A, D	A, D	A, D
Fuel Oil (Home Heating)	75°F (24°C)	A	A	A	A	A, D
Gasoline (Unleaded)	75°F (24°C)	A	A	A	A	A, D
Iso-Octane	75°F (24°C)	A	A	A	A	A, D
Toluol	75°F (24°C)	A	A	A	A	A, D
Silage	75°F (24°C)	A	A	A, D	A, D	B, D
Synthetic Silage	75°F (24°C)	A	A	B, D	B, D	B, D
Ethyl Alcohol	75°F (24°C)	A	C	-	-	-

A: Resistant in permanent contact
B: Temporary resistance
C: Destroyed
D: Discolored

Visit our website at www.sikausa.com **1-800-933-SIKA NATIONWIDE**

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

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Construction

Sikadur® 32, Hi-Mod

High-modulus, high-strength, epoxy bonding/grouting adhesive

Description

Sikadur 32, Hi-Mod, is a multi-purpose, 2-component, 100% solids, moisture-tolerant structural epoxy adhesive. It conforms to the current ASTM C-881, Types I, II, and V, Grade-2, Class C and AASHTO M-235 specifications.

Where to Use

- Bond fresh, plastic concrete to hardened concrete and steel.
- Grout horizontal cracks in structural concrete and wood by gravity feed.
- Machinery and 'robotic' base-plate grout.
- Structural adhesive for concrete, masonry, metal, wood, etc.

Advantages

- Super-strength bonding/grouting adhesive.
- Tolerant to moisture before, during and after cure.
- Excellent adhesion to most structural materials.
- Convenient easy-to-mix ratio A:B = 1:1 by volume.
- Easy-to-use for bonding/grouting applications.
- Fast initial set; rapid gain to ultimate strengths.
- USDA-certified for use in food plants.

Coverage

Bonding Adhesive - 1 gal. covers approximately 80 sq. ft. on smooth surface.

Base Plate Grout - 1 gal. mixed with 1.5 parts oven-dried aggregate by loose volume yields approximately 420 cu. in. of grout.

Anchoring grout - 1 gal. yields 231 cu. in. of grout.

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

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life 2 years in original, unopened containers.

Storage Conditions Store dry at 40°-95°F (4°-35°C). **Condition material to 65°-75°F (18°-24°C) before using**.

Color Concrete gray

Mixing Ratio Component 'A': Component 'B' = 1:1 by volume.

Viscosity Approximately 3,000 cps.

Pot Life Approximately 30 minutes. (60 gram mass). Approximately 22 minutes. (350 gram mass, 8 oz.)

Contact Time **40°F (4°C)*:** 12 hrs. **73°F (23°C)*:** 3-4.5 hrs. **90°F (32°C)*:** 1.5-2 hrs

Compressive Modulus, psi **7 day** 2.1 X 10^5 psi (1,449 MPa)

Tensile Properties (ASTM D-638)

7 day	Tensile Strength	6,900 psi (48 MPa)
	Elongation at Break	1.9%
14 day	Modulus of Elasticity	5.4 X 10^5 psi (3,726 MPa)

Flexural Properties (ASTM D-790)

14 day	Flexural Strength (Modulus of Rupture)	7,000 psi (48.3 MPa)
	Tangent Modulus of Elasticity in Bending	6.9 X 10^5 psi (4,800 MPa)

Shear Strength (ASTM D-732) **14 day** Shear Strength 6,200 psi (43 MPa)

Water Absorption (ASTM D-570) **7 day** (24 hour immersion) 0.21%

Heat Deflection Temperature (ASTM D-648)

7 day [fiber stress loading 264 psi (1.8 MPa)] 122°F (50°C)

Bond Strength (ASTM C-882):

2 day (moist cure)	Plastic Concrete to Hardened Concrete	1,700 psi (11.7 MPa)
	Hardened Concrete to Hardened Concrete	2,000 psi (13.8 MPa)
	Hardened Concrete to Steel	1,900 psi (13.1 MPa)
14 day (moist cure)	Plastic Concrete to Hardened Concrete	2,200 psi (15.1 MPa)
	Plastic Concrete to Steel	2,000 psi (13.8 MPa)
	Hardened Concrete to Hardened Concrete	2,000 psi (13.8 MPa)

Compressive Properties (ASTM D-695)
Compressive Strength, psi (MPa)

	40°F* (4°C)	73°F* (23°C)	90°F* (32°C)
8 hour	-	140 (1.0)	1,700 (11.7)
16 hour	-	4,800 (33.1)	7,300 (50.3)
1 day	30.0 (0.2)	5,700 (39.3)	7,300 (50.3)
3 day	5,300 (36.6)	11,300 (77.9)	10,400(71.7)
7 day	9,600 (66.2)	11,800 (81.4)	10,400(71.7)
14 day	11,900 (82.1)	12,200 (84.1)	10,400(71.7)
28 day	12,600 (86.9)	12,200 (84.1)	10,500(72.4)

*Material cured and tested at the temperatures indicated.

Construction

Packaging	1, 2 and 4 gal. units.
How to Use	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust,
Surface Preparation	laitance, grease, curing compounds, impregnations, waxes and any other contaminants. **Preparation Work: Concrete** - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or other equivalent mechanical means. **Steel** - Should be cleaned and prepared thoroughly by blastcleaning.
Mixing	**Pre-mix each component.** Proportion equal parts by volume of Component 'A' and Component 'B' into clean pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400-600 rpm) drill until blend is a uniform color. Mix only that quantity that can be applied within its pot life.
Application	**To bond fresh concrete to hardened concrete -** Apply by brush, roller, broom or spray. Place fresh concrete while Sikadur 32, Hi-Mod, is still tacky. If coating becomes glossy and loses tackiness, remove any surface contaminants then recoat with additional Sikadur 32 Hi-Mod, and proceed. **To grout baseplates -** Add up to 1 1/2 parts of oven-dried aggregate to 1 part of mixed Sikadur 32, Hi-Mod, by volume. Place grout under baseplate. Avoid contact with the underside of the plate. A 1/4 to 3/8 in. (6 to 10 mm) space should remain between the top of the grout and the bottom of the plate. Maximum thickness of grout per lift is 1.5 in. (38 mm) If multiple lifts are needed, allow preceding layer to cool to touch before applying additional layer. The remaining 1/4 to 3/8 in. (6 to 10 mm) space should be filled with neat Sikadur 32 Hi-Mod. Pour a sufficient quantity of neat epoxy to allow the level to rise slightly higher than the underside of the bearing plate. **To gravity feed cracks -** Pour neat material into vee-notched crack. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.
Limitations	■ Minimum substrate and ambient temperature 40°F (4°C). ■ For spray applications, consult Technical Service at 800-933-7452. ■ Use only oven-dry aggregate. ■ Material is a vapor barrier after cure. ■ For applications on exterior, on-grade substrates, consult Technical Services at 800-933-7452. ■ Do not apply over wet, glistening surface. ■ Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
Warning	**Component 'A' - IRRITANT; SENSITIZER -** Contains epoxy resin, nonyl phenol. Can cause skin sensitization after prolonged or repeated contact. Eye irritant. May cause respiratory irritation. Harmful if swallowed. **Component 'B' - CORROSIVE; IRRITANT; SENSITIZER -** Contains amines, silica (quartz), and benzylalcohol nonyl phenol. Contact with eyes or skin causes severe burns. Can cause skin sensitization after prolonged or repeated contact. Skin/respiratory/eye irritant. Harmful if swallowed. Deliberate concentration of vapors of Component A or B for purposes of inhalation is harmful and can be fatal. Cured material, if sanded, may result in exposure to a chemical known to the state of California to cause cancer.
First Aid	**Eyes:** Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin:** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation:** Remove person to fresh air. **Ingestion:** Do not induce vomiting. **In all cases, contact a physician immediately if symptoms persist.**
Clean Up	Wear chemical resistant gloves/goggles/clothing. Ventilate area. In absence of adequate general and local exhaust ventilation, use a properly filled NIOSH respirator. Confine spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with solvent. Strictly follow manufacturer's warnings and instructions for use. Cured material can only be removed mechanically.
Handling & Storage	Avoid direct contact with skin and eyes. Wear chemical resistant gloves/goggles/clothing. Use only with adequate ventilation. In absence of adequate general and local exhaust ventilation, use a properly filled NIOSH respirator. Wash thoroughly after handling product. Launder clothing before reuse. Store in a cool dry well ventilated area.

Visit our website at www.sikausa.com **1-800-933-SIKA NATIONWIDE**

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

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Certified Applicators of Non Toxic No Dig Restoration Systems

Warren Environmental, Inc.

S-301 Epoxy Spray System
Product Code 301-01

DESCRIPTION: A two part, highly thixotropic epoxy system formulated for spraying with Warren Environmental, Inc.'s patented meter/mix spray equipment.

CHARACTERISTICS: Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength to a variety of substrates as well as its own internal strength. The high thixotropic index allows for up to a ¼" build-up on vertical surfaces without sag.

APPLICATION: Designed for use with Warren Environmental's patented meter, mix and spray equipment. The epoxy component utilizes a 2 parts base to 1 part activator mix ratio by volume. This product is sold and installed only by technicians specifically trained and licensed in our patented techniques.

ADVANTAGES:

- Long Open time for Efficient Topcoating
- Excellent Cure at Low Temperature
- Excellent Cure at High Humidity
- Zero Induction Time
- 0% VOC's
- 100% Solids
- Long Working Time Relative to Cure Time
- Ready-to-Use (No Thinning Required)
- Excellent Water and Chemical resistance with ambient cure
- Achieve high-build thicknesses without sag

CERTIFICATION:
NSF: Certified to Standard NSF-61

SPECIAL SAFETY AND HANDLING: There are no special safety or handling procedures beyond those published on the reverse and the Material Safety Data Sheets.

Typical Properties

Liquid Properties (Systems)

Viscosity	90,000-120,000 cps
Thixotropic Index	5.0-6.0
Specific Gravity	1.162
Flash Point (Closed Cup)	>235°F
Color	Varies
Geltime (200g@77°F)	27 minutes
Thin Film Set (@ 77°F)	2 hours
Thin Film Set (@ 40°F)	8 hours

Physical Properties
(1/8" Casting)

Tensile Strength (ASTM D638-86)	7000 psi
Flexural Strength (ASTM D790-86)	11,000 psi
Flexural Modulus @ 0.100" (ASTM D790-86)	500.000 psi
Compressive Strength (ASTM D695-85)	12,000 psi
Glass Transition Temperature (ASTM D3418-82)	151°F
Tensile Elongation @ Break	4.8%
Thin Film Set (@77°F)	2 hours
Shore D Hardness	83-85

Chemical Resistance
(28 Day Immersion)

Chemical	Weight Gain (%)
Toluene	0.99
Ethanol	4.68
10% Acetic Acid	3.85
70% Sulfuric Acid	0.13
50% Sodium Hydroxide	0.09
Distilled Water	1.11
Methanol	9.55
Xylene	0.69
Butyl Cellosolve	1.18
Methyl Ethyl Ketone	11.19
10% Lactic Acid	3.24
Bleach	0.93
1,1,1 Trichloroethane	0.43
10% Nitric Acid	2.05
30% Nitric Acid	4.17

Contact us at:
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MISSION STATEMENT

Warren Environmental, Inc. will provide cost-effective coatings and methodologies that lead to permanent time-sensitive solutions meeting the structural rehabilitation needs of their customers. To this end, we pledge to use environmentally friendly materials, train and certify the people installing our products, and provide our customers a worry free experience.

STORAGE & USE

TWO-PART EPOXY COATINGS: are supplied in 50 gallon steel drums. The unmixed shelf-life is one (1) year from date of purchase when stored indoors in their sealed original containers at a room temperature between 60°F and 80°F. When using this material, it is important to prevent cross contamination of the unused components. To assure proper performance, it is mandatory that the components be correctly identified and the mix ratio cited on the front of this bulletin be strictly followed.

CURED IN-PLACE PIPLINING SYSTEMS: this patented system may be provided in several different methodologies depending upon the application and field conditions. Warren Environmental, Inc. requires that these materials be installed by our licensed applicators only. These people are trained by us to address the issues unique to each situation. For more information please contact us.

SAFETY AND HANDLING

Material inadvertently applied to the skin should be washed immediately with lanolin based soap and warm water. Refer to the Material Safety Data Sheet for additional information.

GENERAL SURFACE PREPARATION GUIDELINES

Surfaces to be coated or adhered to should be cleaned of oil, grease, rust, scale, loose dirt and other contaminants that may hinder the adhesion of the epoxy coating to the substrate. In many instances cleaning the area to be coated of tuberculation and debris via scarifiers, sand blasting, or water will be sufficient. In rare instances such as oil covered metal, it may be necessary to treat the area with a solvent based cleaner. It is important to remove all traces of the solvent including fumes prior to applying the epoxy coating to ensure that no pinhole defects develop as the product cures. Concrete should be cured a minimum of 28 days prior to applying coating materials. Please contact us with specific questions regarding your application.

WARRANTY

Warren Environmental, Inc. warrants only that the product meets that quality and technical standards published in its current literature. Warren Environmental, Inc. cannot be held responsible for circumstances outside of its control including, but not limited to: product application, product handling, product storage, or any other conditions outside of our control. If within one (1) year from date of purchase, any product is proven by accepted industry standard test methods to be defective Warren Environmental, Inc. will, at its sole option, either replace or refund the purchase price of the product. These remedies shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of any other warranties, expressed, implied, or statutory and is strictly limited to its terms.

Certified Applicators of Non Toxic No Dig Restoration Systems

Warren Environmental, Inc.

M-301 Epoxy Trowel-On Mastic System
Product Code 301-04

DESCRIPTION: A two part, highly thixotropic epoxy system formulated specifically for trowel-on applications.

CHARACTERISTICS: Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength to a variety of substrates as well as its own internal strength. The high thixotropic index allows for build-ups of up to ¾" on vertical surfaces without sag..

APPLICATION: Designed to be applied to a clean surface free of standing water with a notched (toothed) trowel similar to stucco. Alternately, it may be applied using heated tanks, heated lines and Warren Environmental's patented meter, mix and spray equipment. This epoxy system utilizes a 2 parts base to 1 part activator mix ratio by volume. This product is sold and installed only by technicians specifically trained and licensed in our patented techniques.

ADVANTAGES:

- Fast Cure
- Excellent Cure at Low Temperature
- Excellent Cure at High Humidity
- Zero Induction Time
- 0% VOC's
- 100% Solids
- Ready-to-Use (No Thinning Required)
- Excellent Water and Chemical resistance with ambient cure
- Achieve high-build thicknesses without sag

CERTIFICATION:
NSF: Certified to Standard NSF-61

SPECIAL SAFETY AND HANDLING: There are no special safety or handling procedures beyond those published on the reverse and the Material Safety Data Sheets.

Typical Properties

Liquid Properties (Systems)

Viscosity	150,000-250,00 cps
Thixotropic Index	5.5-7.0
Specific Gravity	1.292
Flash Point (Closed Cup)	>235°F
Color	Varies
Geltime (200g@77°F)	40 minutes
Thin Film Set (@ 77°F)	2 hours
Thin Film Set (@ 40°F)	8 hours

Physical Properties
(1/8" Casting)

Tensile Strength (ASTM D638-86)	7000 psi
Flexural Strength (ASTM D790-86)	11,000 psi
Flexural Modulus @ 0.100" (ASTM D790-86)	500.000 psi
Compressive Strength (ASTM D695-85)	12,000 psi
Glass Transition Temperature (ASTM D3418-82)	151°F
Tensile Elongation @ Break	4.8%
Thin Film Set (@77°F)	2 hours
Shore D Hardness	83-85

Chemical Resistance
(28 Day Immersion)

Chemical	Weight Gain (%)
Toluene	0.99
Ethanol	4.68
10% Acetic Acid	3.85
70% Sulfuric Acid	0.13
50% Sodium Hydroxide	0.09
Distilled Water	1.11
Methanol	9.55
Xylene	0.69
Butyl Cellosolve	1.18
Methyl Ethyl Ketone	11.19
10% Lactic Acid	3.24
Bleach	0.93
1,1,1 Trichloroethane	0.43
10% Nitric Acid	2.05
30% Nitric Acid	4.17

Contact us at:
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www.warrenenviro.com E-mail: info@warrenenviro.com

MISSION STATEMENT

Warren Environmental, Inc. will provide cost-effective coatings and methodologies that lead to permanent time-sensitive solutions meeting the structural rehabilitation needs of their customers. To this end, we pledge to use environmentally friendly materials, train and certify the people installing our products, and provide our customers a worry free experience.

STORAGE & USE

TWO-PART EPOXY COATINGS: are supplied in 50 gallon steel drums. The unmixed shelf-life is one (1) year from date of purchase when stored indoors in their sealed original containers at a room temperature between 60°F and 80°F. When using this material, it is important to prevent cross contamination of the unused components. To assure proper performance, it is mandatory that the components be correctly identified and the mix ratio cited on the front of this bulletin be strictly followed.

CURED IN-PLACE PIPLINING SYSTEMS: this patented system may be provided in several different methodologies depending upon the application and field conditions. Warren Environmental, Inc. requires that these materials be installed by our licensed applicators only. These people are trained by us to address the issues unique to each situation. For more information please contact us.

SAFETY AND HANDLING

Material inadvertently applied to the skin should be washed immediately with lanolin based soap and warm water. Refer to the Material Safety Data Sheet for additional information.

GENERAL SURFACE PREPARATION GUIDELINES

Surfaces to be coated or adhered to should be cleaned of oil, grease, rust, scale, loose dirt and other contaminants that may hinder the adhesion of the epoxy coating to the substrate. In many instances cleaning the area to be coated of tuberculation and debris via scarifiers, sand blasting, or water will be sufficient. In rare instances such as oil covered metal, it may be necessary to treat the area with a solvent based cleaner. It is important to remove all traces of the solvent including fumes prior to applying the epoxy coating to ensure that no pinhole defects develop as the product cures. Concrete should be cured a minimum of 28 days prior to applying coating materials. Please contact us with specific questions regarding your application.

WARRANTY

Warren Environmental, Inc. warrants only that the product meets that quality and technical standards published in its current literature. Warren Environmental, Inc. cannot be held responsible for circumstances outside of its control including, but not limited to: product application, product handling, product storage, or any other conditions outside of our control. If within one (1) year from date of purchase, any product is proven by accepted industry standard test methods to be defective Warren Environmental, Inc. will, at its sole option, either replace or refund the purchase price of the product. These remedies shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of any other warranties, expressed, implied, or statutory and is strictly limited to its terms.

Certified Applicators of Non Toxic No Dig Restoration Systems

Warren Environmental, Inc.

Magna Glass Profiling Epoxy Mastic Material
Product Code 301-21

DESCRIPTION: A two part, highly thixotropic epoxy system formulated specifically for trowel-on or spray applications, utilizing the patented Warren Environmental solventless spray system.

CHARACTERISTICS: Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength to a variety of substrates as well as its own internal strength. The high thixotropic index allows for build-ups of up to 1½" on vertical surfaces without sag.

APPLICATION: Designed to be applied to a clean surface free of standing water with a notched (toothed) trowel similar to stucco. Alternately, it may be applied using heated tanks, heated lines and Warren Environmental's patented meter, mix and spray equipment. This epoxy system utilizes a 2 parts base to 1 part activator mix ratio by volume. This product is sold and installed only by technicians specifically trained and licensed in our patented techniques.

ADVANTAGES:

- Fast Cure
- Excellent Cure at Low Temperature
- Excellent Cure at High Humidity
- Zero Induction Time
- 0% VOC's
- 100% Solids
- Ready-to-Use (No Thinning Required)
- Excellent Water and Chemical resistance with ambient cure
- Achieve high-build thicknesses without sag
- 30 minute recoat

SPECIAL SAFETY AND HANDLING:
There are no special safety or handling procedures beyond those published on the reverse and the Material Safety Data Sheets.

Typical Properties

Liquid Properties (Systems)

Viscosity	150,000-250,000 cps
Thixotropic Index	5.5-7.0
Specific Gravity	1.292
Flash Point (Closed Cup)	>235°F
Color	Varies
Gel time (200g@77°F)	2 hours
Thin Film Set (@ 77°F)	8 hours
Thin Film Set (@ 40°F)	

Physical Properties (1/8" Casting)

Tensile Strength (ASTM D638-86)	1,200 psi
Flexural Strength (ASTM D790-86)	4,000 psi
Flexural Modulus @0.100" (ASTM D790-86)	250.000 psi
Compressive Strength (ASTM D695-85)	12,000 psi
Glass Transition Temperature (ASTM D3418-82)	350°F
Tensile Elongation @ Break	2.0%
Thin Film Set (@77°F)	2 hours
Shore D Hardness	70-75

Chemical Resistance (28 Day Immersion)

Chemical	Weight Gain (%)
Toluene	0.99
Ethanol	4.68
10% Acetic Acid	3.85
70% Sulfuric Acid	0.13
50% Sodium Hydroxide	0.09
Distilled Water	1.11
Methanol	9.55
Xylene	0.69
Butyl Cellosolve	1.18
Methyl Ethyl Ketone	11.19
10% Lactic Acid	3.24
Bleach	0.93
1,1,1 Trichloroethane	0.43
10% Nitric Acid	2.05
30% Nitric Acid	4.17

Contact us at:
PO Box 1206, Carver, MA 02330 Tel. (508) 947-8539 Fax (508) 947-3220
www.warrenenviro.com E-mail: info@warrenenviro.com

MISSION STATEMENT

Warren Environmental, Inc. will provide cost-effective coatings and methodologies that lead to permanent time-sensitive solutions meeting the structural rehabilitation needs of their customers. To this end, we pledge to use environmentally friendly materials, train and certify the people installing our products, and provide our customers a worry free experience.

STORAGE & USE

TWO-PART EPOXY COATINGS: are supplied in 50 gallon steel drums. The unmixed shelf-life is one (1) year from date of purchase when stored indoors in their sealed original containers at a room temperature between 60°F and 80°F. When using this material, it is important to prevent cross contamination of the unused components. To assure proper performance, it is mandatory that the components be correctly identified and the mix ratio cited on the front of this bulletin be strictly followed.

CURED IN-PLACE PIPLINING SYSTEMS: this patented system may be provided in several different methodologies depending upon the application and field conditions. Warren Environmental, Inc. requires that these materials be installed by our licensed applicators only. These people are trained by us to address the issues unique to each situation. For more information please contact us.

SAFETY AND HANDLING

Material inadvertently applied to the skin should be washed immediately with lanolin based soap and warm water. Refer to the Material Safety Data Sheet for additional information.

GENERAL SURFACE PREPARATION GUIDELINES

Surfaces to be coated or adhered to should be cleaned of oil, grease, rust, scale, loose dirt and other contaminants that may hinder the adhesion of the epoxy coating to the substrate. In many instances cleaning the area to be coated of tuberculation and debris via scarifiers, sand blasting, or water will be sufficient. In rare instances such as oil covered metal, it may be necessary to treat the area with a solvent based cleaner. It is important to remove all traces of the solvent including fumes prior to applying the epoxy coating to ensure that no pinhole defects develop as the product cures. Concrete should be cured a minimum of 28 days prior to applying coating materials. Please contact us with specific questions regarding your application.

WARRANTY

Warren Environmental, Inc. warrants only that the product meets that quality and technical standards published in its current literature. Warren Environmental, Inc. cannot be held responsible for circumstances outside of its control including, but not limited to: product application, product handling, product storage, or any other conditions outside of our control. If within one (1) year from date of purchase, any product is proven by accepted industry standard test methods to be defective Warren Environmental, Inc. will, at its sole option, either replace or refund the purchase price of the product. These remedies shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of any other warranties, expressed, implied, or statutory and is strictly limited to its terms.

13 – Informational Items

June 14, 2014

Michael B. Owens, Air Program (8P-AR),
U.S. EPA, Region 8,
1595 Wynkoop Street,
Denver, CO 80202-1129

Re: Bonanza Power Plant Title V Operating Permit

Dear Mr. Owens,

On behalf of our citizens, the Town of Rangely would like to express our strong support for the Bonanza Power Plant to be issued a Title V Operating Permit. This facility is supplied exclusively by the Deserado coal mine located near Rangely, CO, in Rio Blanco County.

As the result of yet another lawsuit by a fringe activist group, we understand that the EPA is considering the pulling of a crucial permit issued almost 15 years ago, as part of this revisitation of the Title V permit. Rescinding this permit, and imposing severe new restrictions and emission controls as a condition to re-issue would result in the plant ceasing operations – and consequently shutting down the Deserado mine in Rio Blanco County, which lacks the infrastructure to ship its product to any other user.

This scenario is entirely unacceptable. Rural Communities' services like ambulance, fire, hospitals, schools, water, library, etc., are all "Special Districts" that are funded through taxes. The Town of Rangely's operating income is about 60% from FML Distributions/Severance Tax. The Deserado mine employs 165 miners directly, and creates many more jobs indirectly, most in the Rangely area. The mine generates millions of dollars in revenue to state and local government, through royalties, Sales and Use taxes, property taxes, severance tax, reclamation tax, and others. The mine has also contributed more than $300,000 to the Rangely hospital. The elimination of this mine, these jobs, and these contributions to the local economy would be devastating for the community of Rangely and for both Rio Blanco and nearby Moffat counties. The Bonanza Power Plant employs 105.

These are not just abstract numbers. Real middle-class families will be terribly impacted by the shutdown of this plant, or of this mine; rents and mortgages will go unpaid, children's educations will not be funded, businesses will be closed – gut-wrenching financial and life decisions will need to be made as livelihoods and life savings are eliminated by the stroke of a pen. Even if the Bonanza Power Plant is only forced to upgrade, put in new controls, or change power base, the power rates could increase 40% or more, would result in absolute devastation to our town.

209 E. MAIN STREET, RANGELY, COLORADO 81648
(970) 675-8477 FAX: (970) 675-8471 E-MAIL: TOWN_OF_RANGELY@RANGELY.COM

For all of the economic devastation that a refusal to properly issue the Title V operating permit would wreak on the region, there is no justifiable, scientific basis for it. Colorado is renowned world-wide for our clean coal, which is very low in both mercury and sulfur content. The allegation that the Bonanza plant is somehow emitting tons of pollutants is demonstrably false. The Bonanza Power Plant was rated among the top 20 cleanest in 2002, and a 2013 Uintah Basin Ozone Study Prepared by researchers and air quality managers at Utah State University, University of Utah, National Oceanic and Atmospheric Administration, ENVIRON, University of Colorado, Utah Department of Environmental Quality, and your agency, stated that "The Bonanza power plant plume does not appear to contribute any significant amount of nitrogen oxides or other contaminants to the polluted boundary layer during ozone episodes." In addition,

When the PSD permit was issued for this plant some 15 years ago, no Title V permit was required. In good faith, the operators of the Bonanza Power Plant, Deseret Power, went beyond permit requirements and installed additional equipment to ensure air quality standards. Bonanza was one of the first plants in the nation to adopt Best Available Pollution Controls, ahead of many other plants which were grandfathered in. In short, the Bonanza plant is a clean facility that is not creating air quality problems that would necessitate this action on the part of the EPA.

At the time the PSD permit was issued air control equipment was designed to help operators, like Bonanza, to repay the cost of the equipment over an extended period of time; the company is not yet halfway through those payments. This action, which may well be outside any provision or regulation provided for under the Clean Air Act, could have a substantial negative impact on the economic viability of a significant region covering Northeastern Utah and Northwestern Colorado.

The Town of Rangely strongly opposes the predatory actions of extremist litigation groups that misuse legislation to pursue an assault on middle class Americans by opposing any and all responsible energy development. Time after time, we find ourselves defending our town and the people we represent against these unconscionable and agenda-driven lawsuits. We ask that the EPA, as a responsible agency of the federal government, stop being party to these egregious lawsuits that have no other effect than to hurt regular Americans, and cripple our economy.

We insist that the permit be issued to Bonanza under the same conditions for which it was applied, and that the plant not be required to submit to onerous and unreasonable new restrictions and controls that will eliminate the livelihoods an financial security of hundreds of good people.

Thank you for your consideration of our comments. If you have any questions, please feel free to contact me.

Sincerely,

Lisa Hatch

Lisa Hatch
Town Trustee

Town of Rangely

209 E Main

Rangely, CO 81648

RESOLUTION # 2012-6

RESOLUTION OF THE BOARD OF TRUSTEES OF THE TOWN OF RANGELY SUPPORTING THE EXPANSION OF THE DESERADO MINE, A WHOLLY OWNED SUBSIDIARY OF BLUE MOUNTAIN ENERGY.

WHEREAS, the Town Trustees support the application for an additional coal lease for the Deserado Mine in order to provide a continued supply of low cost power to Moon Lake Electric through 2031, and;

WHEREAS, the Town Trustees realize that unbalanced environmental activism may have an inordinate level of influence in the process of influencing the application process, and;

WHEREAS, the Town Trustees recognize the importance of the Deserado Mine employees as it relates to the social fabric of our community, which includes the many families who participate in our schools, businesses, churches and governmental entities and to the economic benefits of having this valuable industrial operation just seven miles from Rangely, and;

WHEREAS, the Town Trustees recognize that the mine employs 165 coal miners and is responsible for the payment of $6,024,918 in taxes in Colorado in 2011 supporting the State of Colorado, County of Rio Blanco and communities across the state such as the Town of Rangely who have been the beneficiaries of these revenues through Royalty, Severance and Property tax, and;

WHEREAS, the Town Trustees recognize that the Deserado Mine is responsible for $266,000 in support for the new Rangely District Hospital in the first year and $190,000 each year after, and;

WHEREAS, the Town Trustees recognize that Deseret Power, thanks in no small part to Deserado's nationally-recognized productivity and enviable safety record continues to supply low cost coal to Moon Lake Electric that allows for cost-effective transmission of electrical power to homes, churches and businesses, and is a catalyst for economic expansion, and:

WHEREAS, the Town Trustees promote participation in the upcoming public hearing with the BLM as it relates to Deseret Power's application for an additional coal lease.

PASSED, APPROVED, AND ADOPTED this 25th day of September, 2012.

ATTEST:

Lisa Piering, Town Clerk

BOARD OF TRUSTEES

Frank Huitt, Mayor