



Pinkard Construction Co
9195 W. 6th Avenue
Lakewood, CO 80215
Phone: 303-986-4555

October 14, 2016

Change Order Request # 2

Owner : City of Commerce City
7887 E. 60th Avenue
Commerce City, CO 80022

Project: 1199. / Commerce City Community Recreation Center
13505 E 112th Ave
Brighton, CO 80603

Change Order Request # : 2 CCR-02 Irrigation Pipe at 112th and Potomac

Item :	1	CCR-02 Irrigation Pipe at 112th and Potomac
CCR-02 Irrigation Pipe at 112th and Potomac		

Phase	Description	Cost Type	Mark up	Amount
012170. .	Project Engineer <i>QTO's for CCR-02.</i>	3 LAB	0.00	82.00
012190. .	Project Admin & Accountant <i>Change Order Administration for CCR-02</i>	3 LAB	0.00	96.00
326200. .	Civil Contractor <i>CCR-02 Irrigation Pipe at 112th and Potomac</i>	1 SUB	0.00	866,294.16
		Subtotal Item	1	866,472.16
		Bond	0.69%	5,978.66
		Liability Insurance	0.50%	4,318.63
		Warranty	0.15%	1,315.15
		Builders Risk Insurance	0.13%	1,167.85
		Fee	3.95%	35,529.89
		Construction Contingency	2.25%	20,238.54
		Requested Total For Item	1	935,020.88
		Total For Change Order		935,020.88

Proposal Qualifications:

- 1 This quotation is valid for ten (10) days whereafter it may be withdrawn unless stated otherwise.
- 2 We will require that a fully executed copy of this COR be returned to our office by "Approved Date" noted above to avoid construction schedule delays not accounted for in our pricing.
- 3 This quotation is also qualified in accordance with notes listed on cost breakdown summary.

Approved By: City of Commerce City

Approved By: Pinkard Construction Co

Approved By: Sink Combs Dethlefs

Signed: _____

Signed: _____

Signed: _____

Date: _____

Date: _____

Date: _____

Flatiron Constructors, Inc.
385 Interlocken Crescent, Suite 900
Broomfield, CO 80021
720-494-8000 MAIN
303-776-0072 FAX



0
CORZ

FLT-PCC-PW052014-001R1

October 10, 2016

Bryan Olesen, Project Manager
Pinkard Construction
9195 West 6th Avenue
Lakewood, CO 80215

Reference: Contract No. PW-05-2014
Second Creek Infrastructure Improvements – Package A

Reference: Change Order Request No. 002 – Irrigation Line – Revisions 1

Dear Mr. Olesen,

Upon our takeoff and review of Second Creek Infrastructure Improvements – Package A Change Order Request #02; Flatiron proposes the following change to the Lump Sum pricing:

- Original Flatiron Estimate: Package A \$10,866,000
- COR #01 Flatiron Estimate: Package A <\$823,482.29>
- Flatiron Revised Estimate: Package A \$10,042,517.71
- COR #02 Flatiron Estimate: Package A \$866,294.16
- Flatiron Revised Estimate: Package A \$10,908,811.87

<u>BID ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT MEASURE</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
1000	12" Irrigation	2,595	FT	\$86.58	\$224,675.10
2000	24" Irrigation	1,828	FT	\$205.43	\$375,526.04
3000	Laterals (4")	110	FT	\$104.43	\$11,487.30
4000	Laterals (8")	55	FT	\$192.38	\$10,580.90
5000	36" Casing	132	FT	\$635.75	\$83,919
6000	Air Valve & Vault	3	Each	\$8,987.30	\$26,961.90
7000	Flushing Hydrant	2	Each	\$11,204.55	\$22,409.10
5300	Plug & Blowoff	5	Each	\$4,281.11	\$21,405.55
					\$776,964.89

	<u>Cost Basis</u>	<u>Mark Up %</u>	<u>Markup</u>
Labor	\$102,387	10%	\$10,239
Burden	\$45,402	10%	\$4,540
Permanent Materials	\$430,346	10%	\$43,035
Construction Materials	\$46,319	10%	\$4,632
Subcontractors	\$31,501	5%	\$1,575
Equipment Op Expense	\$48,805	10%	\$4,881
Owned Equipment	\$72,197	10%	\$7,220
	\$776,957		\$76,121
Insurance @ 1% of Cost	\$7,769.57		\$7,769.57
Bond @ 0.7% of Cost	\$5,438.70		\$5,438.70
COST + MARKUP + INSURANCE + BOND =			\$866,294.16

The attached pricing was derived using the attached 100% Design, Irrigation Plan Set. Flatiron feels that a credit could be provided, in the rough amount of \$15,000, should the spoils generated be taken to Second Creek – Package B.

Please note, Flatiron has identified this work to be Critical Path, due to nature of the work and it's timing in the overall sequence of the project. Should Pinkard decide to move forward with this scope, Flatiron would add this work to the Baseline schedule, and ask to reserve the right to additional overhead, should this work increase the overall duration of the project. Similar to above, Flatiron feels with the addition of Package B to our scope, that this risk could be avoided.

As always, Flatiron appreciates its partnership with Pinkard Construction, and looks forward to a safe and successful project this year, and beyond. As a partner in the project, Flatiron will continue to evaluate the plans and specifications to produce value-engineering ideas that will be shared timely with all parties; as well as practice transparency when pricing changes.

We look forward to discussing these matters further.

Sincerely,

Justin Cooper

Digitally signed by Justin Cooper
DN: cn=Justin Cooper, o=Flatiron Constructors, Inc., email=jcooper@flatironconstructors.com, c=US
Date: 2015.10.12 13:45:58-06:00

Justin Cooper
Project Manager
Flatiron Constructors, Inc.

Cc: Stephen Cordts, Area Manager, Flatiron Constructors
Scott Stetson, Operations Manager, Flatiron Constructors
Nick Polce, Chief Estimator, Flatiron Constructors

112TH AVENUE AND POTOMAC STREET IRRIGATION WATER LINES SOUTH ADAMS COUNTY WATER & SANITATION DISTRICT

SEPTEMBER 2016

SOUTH ADAMS COUNTY WATER AND SANITATION DISTRICT

BOARD MEMBERS

PRESIDENT AARON PHILLIPS
SECRETARY B. JOANN MOSS
TREASURER JOHN W. KUCHAR
DIRECTOR MICHAEL S. CORDERO
DIRECTOR MICHAEL A. SCANLON

ADMINISTRATION

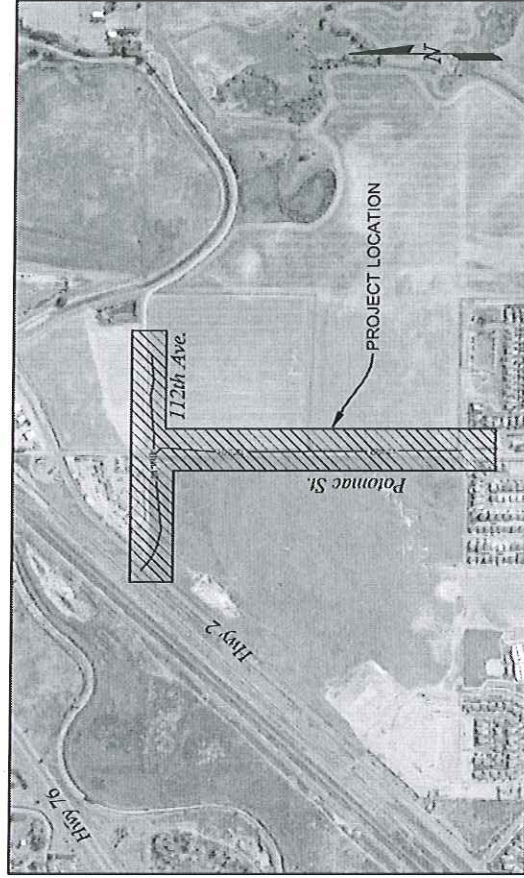
MANAGER JIM JONES
DISTRIBUTION & COLLECTION SYSTEMS MANAGER ABEL MORENO
WATER SYSTEMS MANAGER KIPP SCOTT
WASTEWATER SYSTEMS MANAGER J-M GREBENC
ADMINISTRATIVE SERVICES MANAGER BYRON JEFFERSON
ENVIRONMENTAL PROGRAMS MANAGER BLAIR CORNING

SHEET INDEX

TITLE

SHEET NO.

- | SHEET NO. | TITLE |
|-----------|---|
| 1 | COVER SHEET |
| 2 | LEGEND, GRADING PLAN POINTS AND GENERAL NOTES |
| 3 | POTOMAC STREET IRRIGATION LINE PLAN AND PROFILE - 1 |
| 4 | POTOMAC STREET IRRIGATION LINE PLAN AND PROFILE - 2 |
| 5 | POTOMAC STREET IRRIGATION LINE PLAN AND PROFILE - 3 |
| 6 | 112TH AVENUE IRRIGATION LINE PLAN AND PROFILE - 1 |
| 7 | 112TH AVENUE IRRIGATION LINE PLAN AND PROFILE - 2 |
| 8 | IRRIGATION WATER LINE DETAILS - 1 |
| 9 | IRRIGATION WATER LINE DETAILS - 2 |



VICINITY MAP
SCALE: 1" = 500'

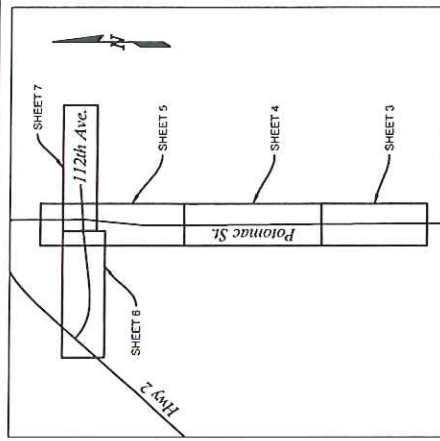
PREPARED UNDER THE SUPERVISION OF SAH DRAWN TAD CHECKED SAH	FOR CONST. PROJECT NO. 15-047 01		SHEET NO. 1 OF 10	DATE 09-14-16
	SOUTH ADAMS COUNTY WATER & SANITATION DISTRICT 6595 East 70th Avenue, P.O. Box 337 Commercial (303) 298-2946		112TH AVENUE & POTOMAC STREET IRRIGATION WATER LINES	
MULLER ENGINEERING COMPANY 775 N. WASHINGTON AVE. & 100 WASHINGTON, COLORADO 80551		COVER SHEET		

1. ALL MATERIALS AND CONSTRUCTION RELATED TO WATER AND WASTEWATER FACILITIES SHALL BE IN ACCORDANCE WITH THE DISTRICT'S RULES AND REGULATIONS AND DESIGN AND CONSTRUCTION STANDARDS. THE DISTRICT'S STANDARD DETAILS ARE INCLUDED IN SECTION 8 OF THE DESIGN AND CONSTRUCTION SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN THE SPECIFIC DESIGN INFORMATION PERTAINING TO THE CONSTRUCTION OF FACILITIES TO BE CONSTRUCTED, AND SHALL IN ALL ASPECTS BE COMPLIED WITH BY THE CONTRACTOR REGARDLESS OF WHETHER OR NOT SUCH APPLICABLE DETAILS HAVE BEEN INCLUDED ON THE PLANS.

1. ALL MATERIALS AND CONSTRUCTION RELATED TO WATER AND WASTEWATER FACILITIES SHALL BE IN ACCORDANCE WITH THE DISTRICT'S RULES AND REGULATIONS AND DESIGN AND CONSTRUCTION STANDARDS. THE DISTRICT'S STANDARD DETAILS ARE INCLUDED IN SECTION 6 OF THE DESIGN AND CONSTRUCTION STANDARDS AS A MEANS OF PROVIDING SPECIFIC, SUPPLEMENTAL INFORMATION PERTAINING TO THE CONSTRUCTION OF FACILITIES TO BE OWNED BY THE DISTRICT, AND SHALL IN ALL ASPECTS BE COMPLIED WITH BY THE CONTRACTOR REGARDLESS OF WHETHER OR NOT SUCH APPLICABLE DETAILS HAVE BEEN INCLUDED ON THE PLANS.

IRRIGATION WATER DISTRIBUTION SYSTEM NOTES:

1. TRACER WIRE SHALL BE INSTALLED ON ALL IRRIGATION WATER MAINS AND SERVICE LINES, REGARDLESS OF PIPE MATERIAL, AS PRESCRIBED BY THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS. ALL SPLICES SHALL BE MADE USING WATERPROOF GEL CAP TYPE CONSTRUCTION TO INSURE THAT THE WIRING CARRY A CONTINUOUS CURRENT BETWEEN TEST POINTS.
2. TUBES SHALL BE A MINIMUM COVER OF 95 FEET OVER ALL IRRIGATION WATER MAINS AND A MINIMUM COVER OF 55 FEET OVER ALL IRRIGATION WATER SERVICE LINES.
3. ALL IRRIGATION WATER MAINS SHALL BE COLOR MARKED PER THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS IN ACCORDANCE WITH ANWA GWSL CONNECTIONS TO EXISTING UTILITY SYSTEMS. EACH MAIN SHALL BE IDENTIFIED BY WRAPPING OR PAINTING THE MAIN AT THE END OF EACH PIPE TO PRODUCE A MINIMUM CONCENTRATION OF 100 MILLIGRAMS PER LITER. THE CHARACTERIZATION OF ANY FINISHED PIPE LINE WHERE THE TAULIT METHOD WAS USED SHALL BE TESTED AND ACCEPTED BY THE DISTRICT PRIOR TO HYDROSTATIC TESTING OF THE LINE.
4. ALL IRRIGATION WATER MAINS SHALL BE HYDROSTATICALLY TESTED FOR THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS AT A TEST PRESSURE OF 150 PSI UNLESS OTHERWISE DIRECTED BY THE DISTRICT. TESTS SHALL BE MADE UNDER FULL POLYETHYLENE WRAP AND ATTACHED WITH "U"RPLE WARNING TAPE APPLIED CONTINUALLY ALONG THE TOP OF THE PIPE FOR THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.
5. ALL IRRIGATION WATER DUCTILE IRON PIPE AND FITTINGS SHALL BE LOCATED IN PURPLE POLYETHYLENE WRAP AND ATTACHED WITH "U"RPLE WARNING TAPE APPLIED CONTINUALLY ALONG THE TOP OF THE PIPE FOR THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.
6. ALL IRRIGATION WATER PVC PIPE SHALL BE MANUFACTURED IN A PURPLE COLOR AND SHALL BE DISCLOSED ON INTERNALLY STAMPED WITH A STATIMAT THAT CLEARLY INDICATES THAT THE PIPE DOES NOT CONTAIN POTABLE WATER.
7. ALL IRRIGATION SYSTEM VALVE BOXES, METER PIT COVERS, MANHOLE COVERS AND VAULT COVERS SHALL BE FURNISHED WITH THE WORD "IRRIGATION" OR AN ACCEPTABLE ABBRVIATION, CLEARLY CAST ON THE SURFACE. IRRIGATION WATER MAIN VAULT BOXES SHALL BE IDENTIFIED BY CASTING THE WORD "IRRIGATION" ON THE SIDE OF THE COVER. ALL CAN-PIPS COVERS TO DISCLOSE IRRIGATION WATER MAINS SHALL BE USED ON POTABLE WATER MAINS.
8. A MINIMUM CURTILLINE, TO CONTRAST, HORIZONTAL SERVICE LINES, OF 15 FEET SHALL BE MAINTAINED BETWEEN IRRIGATION WATER MAINS AND POTABLE WATER MAINS, AND BETWEEN IRRIGATION SERVICE LINES AND POTABLE WATER MAINS.
9. A MINIMUM CURTILLINE OF 5 FEET SHALL BE MAINTAINED BETWEEN IRRIGATION WATER MAINS AND SANITARY SEWER MAINS, AND BETWEEN IRRIGATION SERVICE LINES AND SANITARY SEWER MAINS. HORIZONTAL SEPARATION BETWEEN IRRIGATION WATER MAINS AND SANITARY SEWER MAINS SHALL BE MAINTAINED BY THE DISTRICT'S DESIGN AND CONSTRUCTION STANDARDS.



ABBREVIATIONS

[illegible]

- | EXISTING EDGE OF ASPHALT | EXISTING IRRIGATION WATER LINE | CONTROL POINT |
|--------------------------|---------------------------------|-------------------------------|
| 12" H ₂ O | PROPOSED IRRIGATION WATER LINE | EXISTING POWER POLE |
| 36" Ø | WATER LINE STATION | EXISTING SANITARY MANHOLE |
| — | WATER LINE VALVE | EXISTING FIRE HYDRANT |
| — | FLUSHING HYDRANT ASSEMBLY | EXISTING WATER VALVE |
| — | PROPOSED KICK BLOCK | EXISTING LIGHT POLE |
| — | PROPOSED PLUG | EXISTING WATER METER |
| — | EXISTING GAS LINE | EXISTING STORM MANHOLE |
| — | EXISTING OVERHEAD ELECTRIC | PROPOSED JOINT UTILITY TRENCH |
| — | EXISTING BURIED ELECTRIC | PROPOSED GAS LINE |
| — | EXISTING SANITARY SEWER LINE | PROPOSED ELECTRIC LINE |
| — | EXISTING WATER LINE | PROPOSED LIGHT POLE |
| — | EXISTING STORM SEWER LINE | |
| — | EXISTING TELEPHONE LINE | |
| — | EXISTING FIBER OPTIC LINE | |
| — | ASPHALT REMOVAL AND REPLACEMENT | |

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	SAH				
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PROJECT NO. 15-047 01

FOR
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PROJECT NO. 16-047.01

MULLER
ENGINEERING COMPANY

MULLER
ENGINEERING COMPANY

SOUTH ADAMS COUNTY
WATER & SANITATION DISTRICT

South Adams County
Water & Sanitation District

6595 East 70th Avenue, P.O. Box 597
Commerce City, Colorado 80037-0597
(303) 288-2646

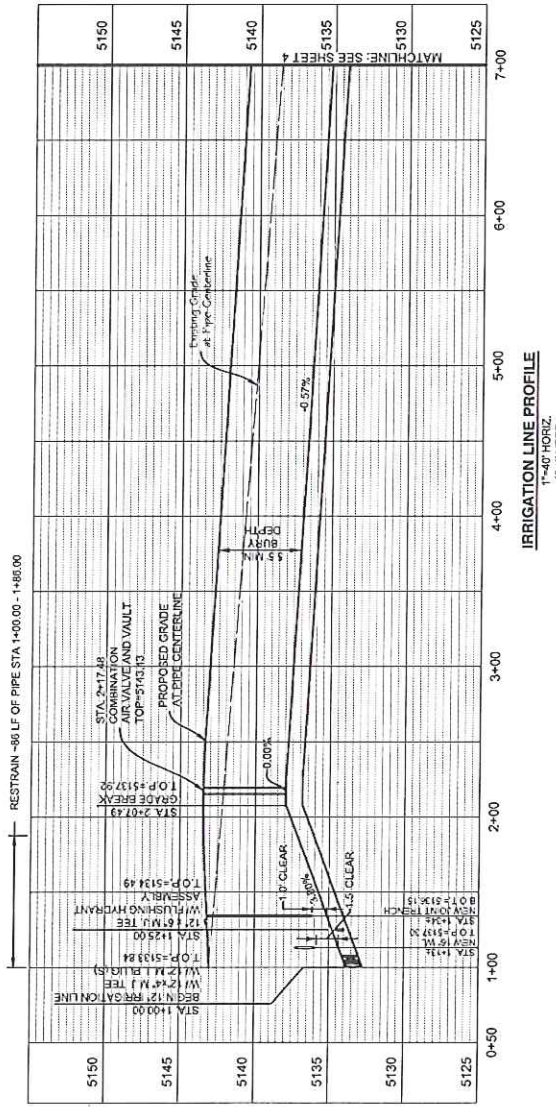
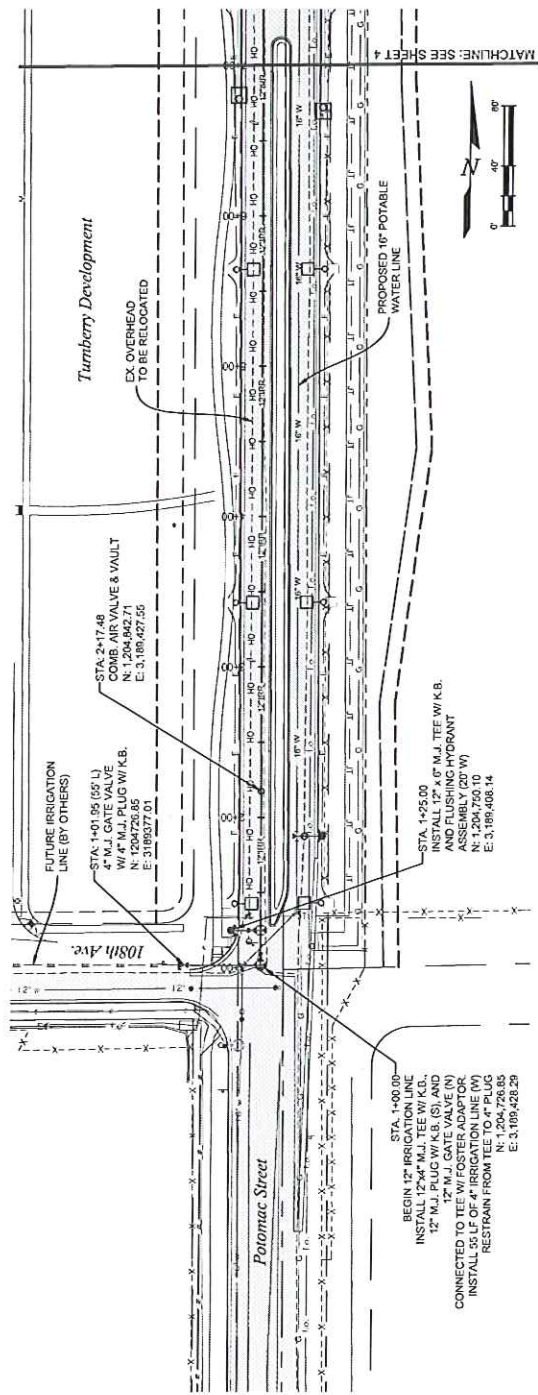
112TH AVENUE & POTOMAC STREET
IRRIGATION WATER LINES

NOTES, ABBREVIATIONS AND LEGEND

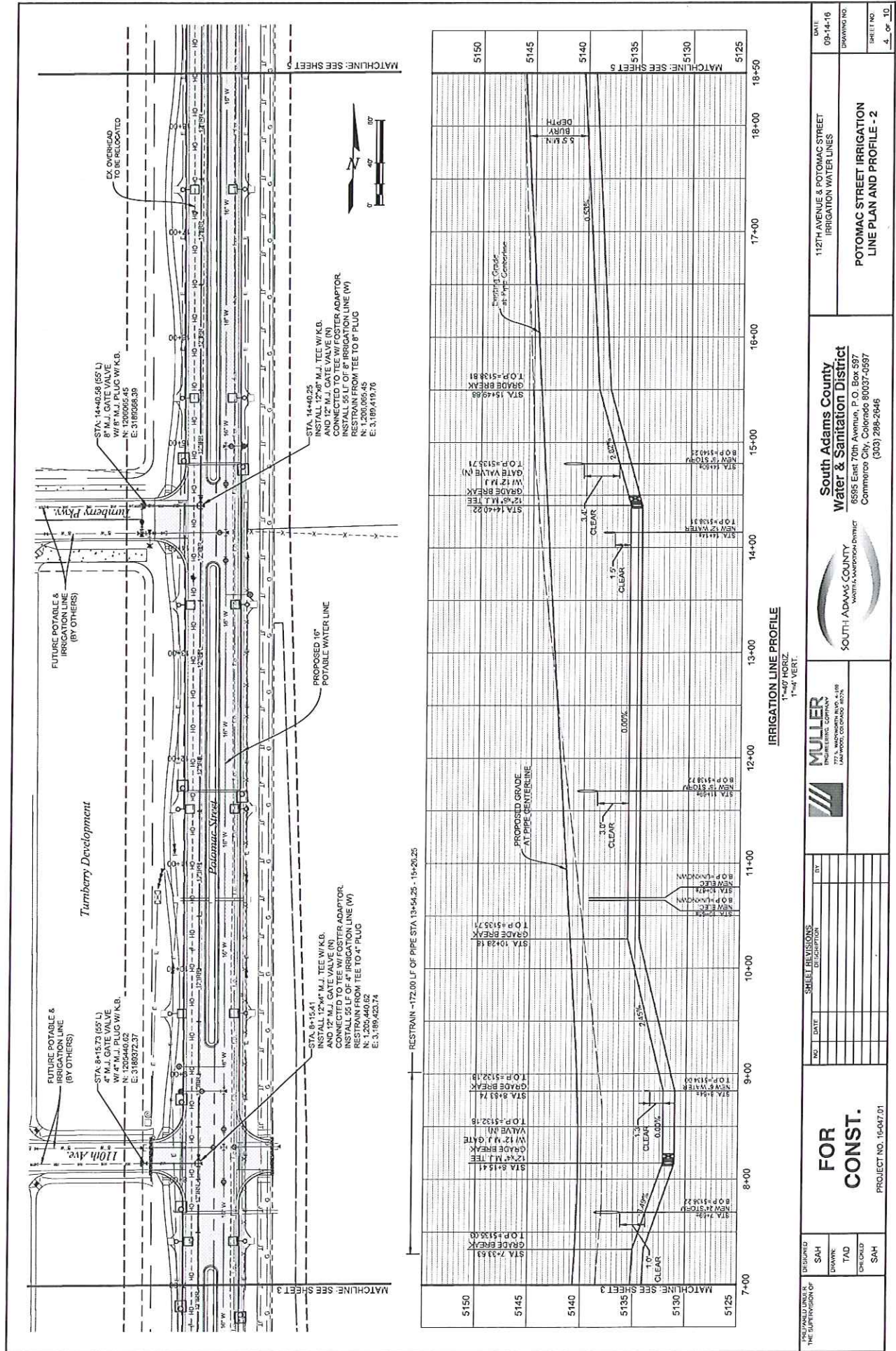
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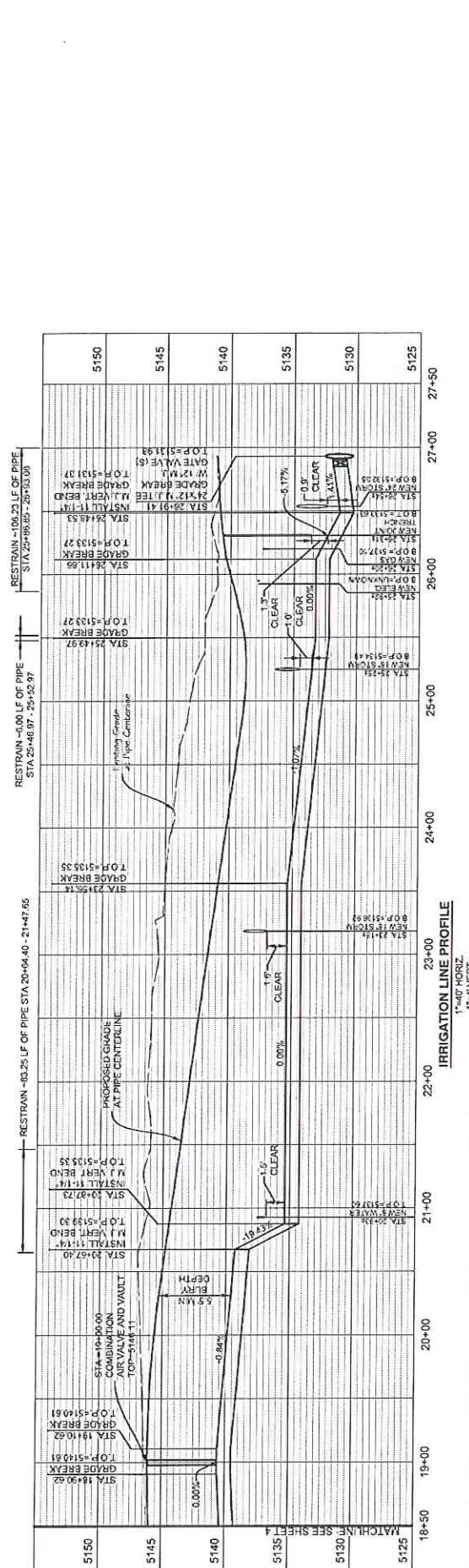
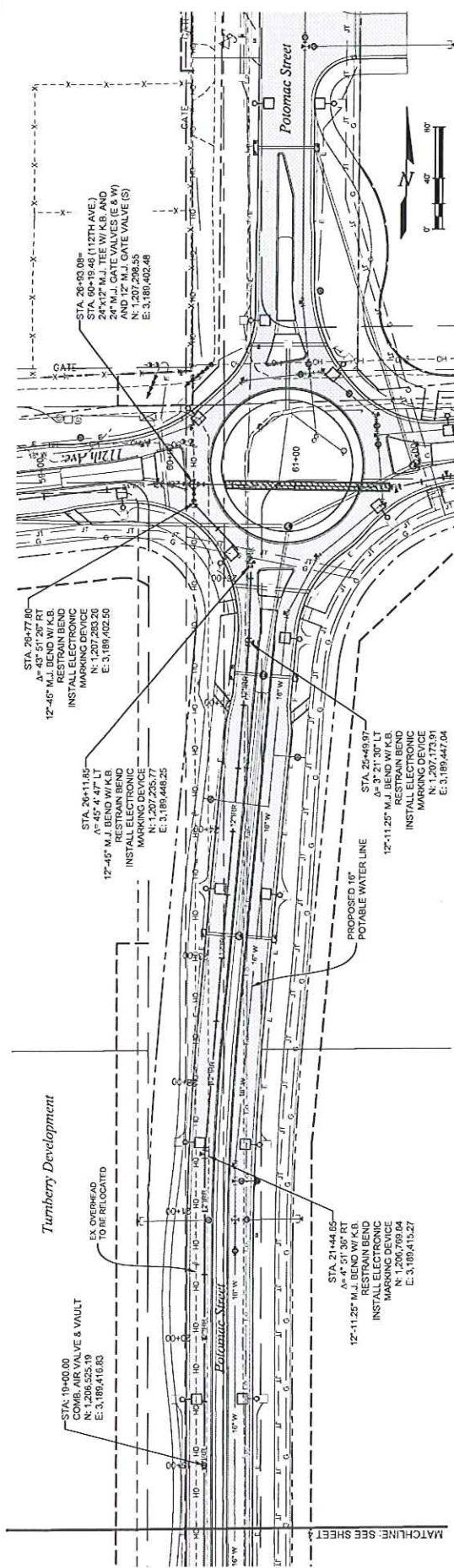
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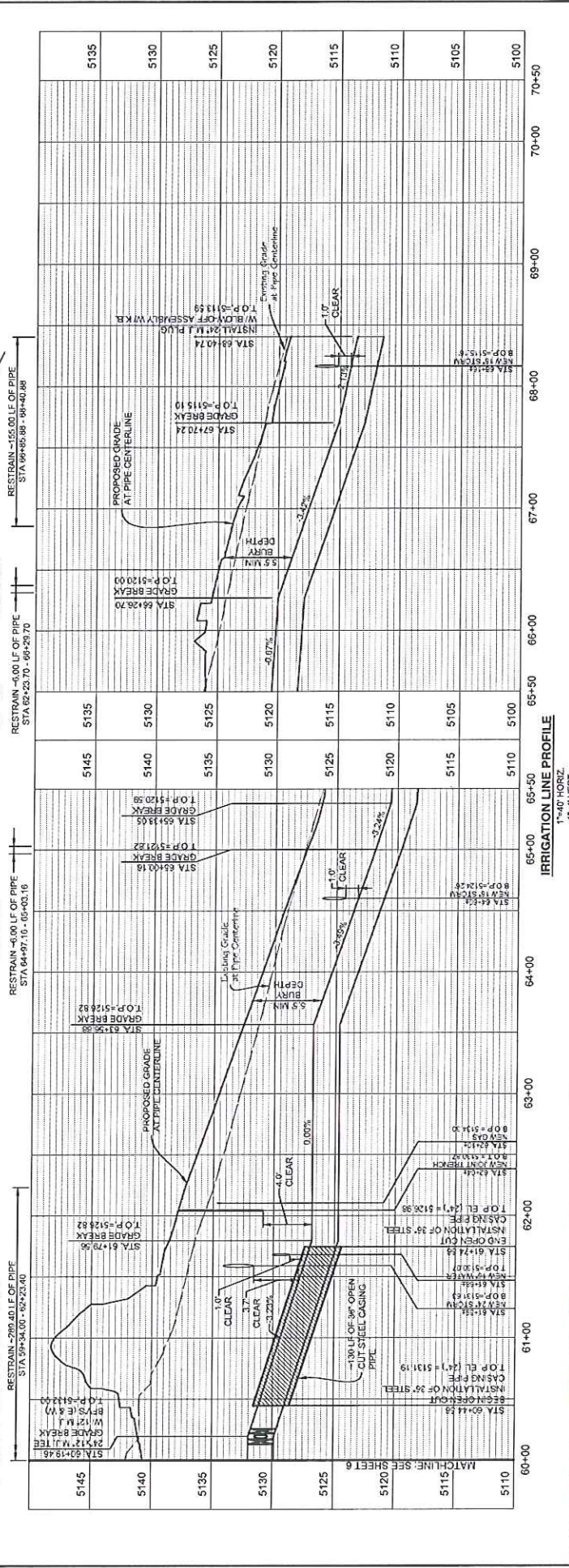
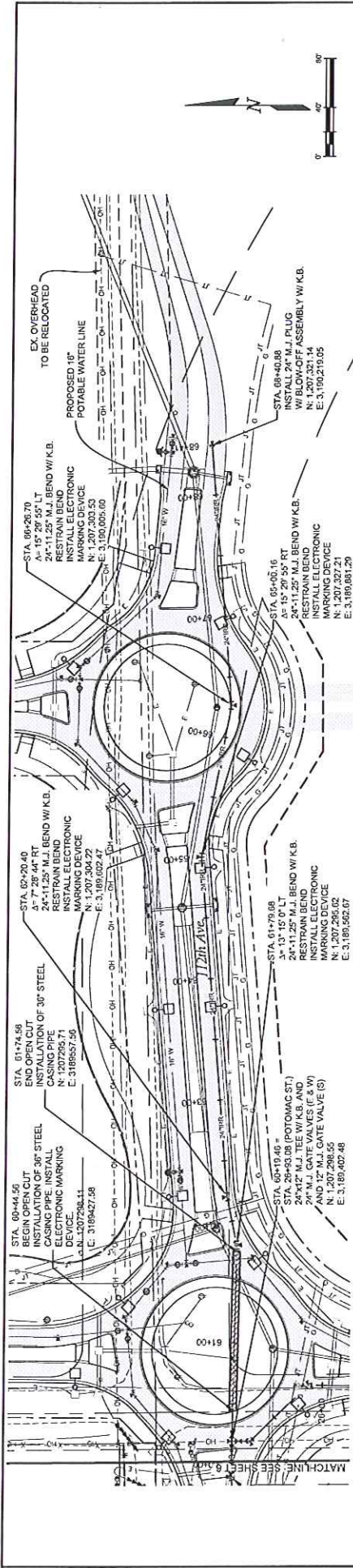


DISIGNED BY SAH		CHECKED BY TAD		DRAWING NO. 3 OF 10	
PROJECT NO. 15-047-01		SOUTH ADAMS COUNTY WATER & SANITATION DISTRICT 6595 East 70th Avenue, P.O. Box 397 Commerce City, Colorado 80037-0397 (303) 298-2846		DATE 09-14-16	
FOR CONST.		SOUTH ADAMS COUNTY WATER & SANITATION DISTRICT 6595 East 70th Avenue, P.O. Box 397 Commerce City, Colorado 80037-0397 (303) 298-2846		112TH AVENUE & POTOMAC STREET IRRIGATION WATER LINES	
THE SUPERVISOR OF		POTOMAC STREET IRRIGATION LINE PLAN AND PROFILE - 1		SHEET NO.	

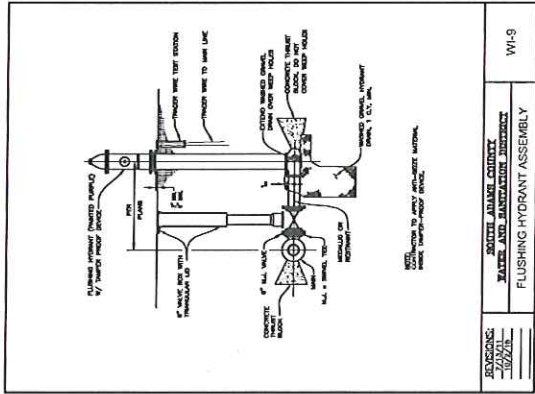
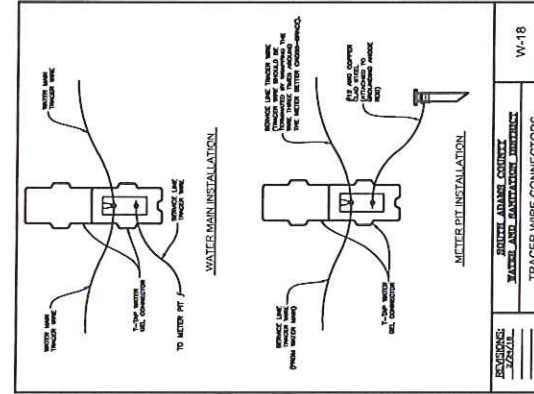
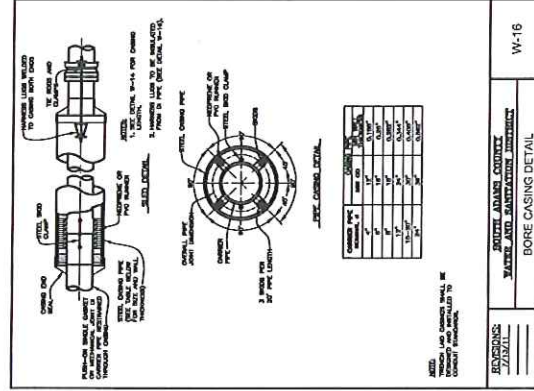
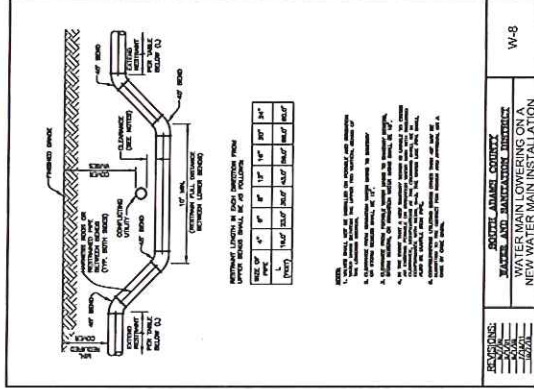
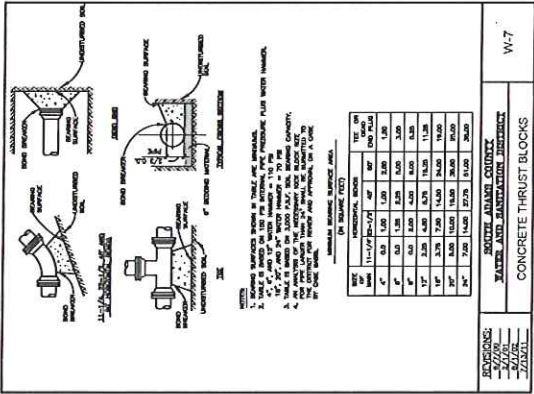




FOR CONST.		SOUTH ADAMS COUNTY		SOUTH ADAMS COUNTY		SOUTH ADAMS COUNTY	
DATE	09-14-16	DATE	09-14-16	DATE	09-14-16	DATE	09-14-16
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CHECKED	SAH	CHECKED	SAH	CHECKED	SAH	CHECKED	SAH
PROJECT NO. 19-047.01		PROJECT NO. 19-047.01		PROJECT NO. 19-047.01		PROJECT NO. 19-047.01	
SHEET NO. 10		SHEET NO. 10		SHEET NO. 10		SHEET NO. 10	
112TH AVENUE & POTOMAC STREET		112TH AVENUE & POTOMAC STREET		112TH AVENUE & POTOMAC STREET		112TH AVENUE & POTOMAC STREET	
IRRIGATION WATER LINES		IRRIGATION WATER LINES		IRRIGATION WATER LINES		IRRIGATION WATER LINES	
POTOMAC STREET IRRIGATION		POTOMAC STREET IRRIGATION		POTOMAC STREET IRRIGATION		POTOMAC STREET IRRIGATION	
LINE PLAN AND PROFILE - 3		LINE PLAN AND PROFILE - 3		LINE PLAN AND PROFILE - 3		LINE PLAN AND PROFILE - 3	



PREPARED UNDER THE SUPERVISION OF SAH DRAWN: TAD CHECKED: SAH		SHEET REVISIONS NO. DATE BY DESCRIPTION		FOR CONST. PROJECT NO. 15-07-01	
MULLER ENGINEERING COMPANY 772 S. WASHINGTON AVE. #100 DENVER, CO 80202		SOUTH ADAMS COUNTY WATER & SANITATION DISTRICT 6595 East 70th Avenue, P.O. Box 397 Commerce City, Colorado 80037-4597 (303) 288-2946		112TH AVENUE & POTOMAC STREET IRRIGATION WATER LINES 112TH AVENUE IRRIGATION LINE PLAN AND PROFILE - 2	
DATE: 09-14-16 DRAWING NO.: SHEET NO.: 2 of 10					



DESIGNED BY SAH	DATE 09-14-16	112TH AVENUE & POTOMAC STREET IRRIGATION WATER LINES	DATE 09-14-16
DRAWN BY TAQ	DRAWING NO. SAH		
CHECKED BY SAH	PROJECT NO. 15-047.01	South Adams County Water & Sanitation District 6555 East 70th Avenue, P.O. Box 397 Commerce City, Colorado 80037-0597 (303) 285-2946	SHEET NO. 9 OF 10
FOR CONST.	IRRIGATION WATER LINE DETAILS -2		