INTERAGENCY AGREEMENT

Contract 504447

THIS INTERAGENCY AGREEMENT ("Agreement") is made and entered into as of the Effective Date (as hereinafter defined) between the City and County of Denver, acting by and through its Board of Water Commissioners, a municipal corporation of the State of Colorado (the "Board"), and the City and County of Denver, a municipal corporation of the State of Colorado (the "City").

RECITALS

- 1. The Board and the City are parties to that certain Inter-Agency Agreement for City and County of Denver Projects Affecting Water Mains, Meters and Led Service Lines, Board's contract #503174, effective as of February 26, 2018, which allocates financial responsibility between the City and the Board for the relocation of the Board's facilities during City's transportation and non-transportation related projects (the "IGA").
- 2. The City is planning to contract for the design and reconstruction of the 16th Street Mall (the "Project"). The Project requires replacement of the Board's existing 12" and 24" water lines with a single 16" main line and an estimated 29 service lines, including any lead service lines, if applicable, (the "Work"). Pursuant to the IGA, the Board has agreed to reimburse the City of such Work as provided in this Agreement. The Work is described in a general way on **Exhibit A** attached hereto and incorporated into this Agreement by this reference. The total estimated cost for the Work is shown on the estimate attached hereto as **Exhibit B** and incorporated into this Agreement by this reference.
- 3. In accordance with the Colorado Constitution and the Charter of the City and County of Denver, the City and the Board are authorized to enter into agreements of this nature.

NOW, THEREFORE, the Board and the City agree as follows:

1. <u>COORDINATION AND LIAISON</u>.

- A. The Executive Director of Department of Transportation and Infrastructure ("DOTI") is the City's authorized representative for purposes of performing the City's obligations under this Agreement. The Executive Director of DOTI hereby designates the City Engineer as the Executive Director's authorized representative for purposes of directing and administering the City's activities under this Agreement. The City Engineer has designated Amy Foreman as the Project Manager (the "City Representative") to generally oversee construction and act as a liaison between the Board and the City's construction contractor and subcontractors (the "Contractor"). The City may change the City Representative at any time by providing written notice to the Board of such change.
- B. The Board's Director of Engineering is the Board's authorized representative for purposes of directing and administering the Board's activities under this Agreement. The Board may change its authorized representative at any time by providing written notice to the City of such change.

2. THE WORK.

A. If the City proceeds with the Project, subject to the terms and conditions of this Agreement, the City's Contractor will provide design and engineering services for the Work. Furthermore, the City's Contractor will complete the Work in accordance with plans and

specifications (the "Design Documents") approved by the Board and by the City prior to the commencement of construction pursuant to the terms of <u>Section 3</u> below. The Board hereby authorizes the City's Contractor to exercise the Board's rights with regard to service line replacements pursuant to the Denver Water Operating Rules.

B. Per the terms of the IGA and Chapter 12.02 of the Denver Water Operating Rules, the Board shall pay the City for the Work in accordance with the terms of Section 4 below.

3. <u>DESIGN AND CONSTRUCTION</u>.

A. <u>Board Responsibilities</u>

- (1) As requested by the City, Board representatives may attend any confidential pre-bid conference scheduled by the City, assist in the preparation of any required addenda, attend the pre-construction meeting, and attend regularly scheduled construction meetings to address issues related to the Work.
- (2) The Board will review and approve all versions of the Design Documents provided by the City or the Contractor with a 15 working day response time and participate in inspections of the construction of the Work to verify completion and acceptance.
- (3) In performing its construction-related obligations, the Board, unless otherwise directed by the City Representative, shall not direct the Contractor or any subcontractors performing the Work, but shall instead provide such direction to the City Representative.

B. City Responsibilities

(1) The City shall cause its Contractor to complete the Work in accordance with the Board's Operating Rules and Engineering Standards.

4. **REIMBURSEMENT**.

- A. The Board agrees to reimburse the City for all actual costs associated with the Work. For budgeting purposes, and not as a limit on the Board's obligation, the parties estimate the total amount to be \$5,454,776.00 as set forth on Exhibit B. The Board represents that it has budgeted funds in at least that amount, and subject to the terms and condition of this Agreement, shall reimburse the City for all costs associated with the Work.
- B. In the event the City determines that the cost of the Work will exceed the preceding cost estimate, the City shall provide notice to the Board and the City shall have no obligation to proceed further with the Work until the parties amend this Agreement to fund any additional costs of the Work; provided that no such amendment shall be required for the City to proceed with the Work under the terms of Section 4A above.
- C. The City shall invoice the Board upon completion of the Work or annually for Work completed. The invoice shall include a detailed accounting of the actual costs expended for the Work by the City. The Board shall review the invoice and, unless disputing the invoice or the Work as completed, shall pay the invoice in one lump sum payment within thirty (30) days of the receipt of the invoice.
- 5. <u>RECORDS AND AUDITS</u>. The City shall at all times maintain a system of accounting records in accordance with its normal procedures, together with supporting documentation for all Work under this Agreement, which shall be made available for audit and

reproduction by the Board at the Board's request. The parties agree that, for a period of at least three (3) years from the final scheduled payment under this Agreement, any duly authorized representative of the City or the Board, including the City Auditor or the City Auditor's designee, shall have access to and the right to examine any directly pertinent books, documents, papers, and records of the parties involving the transactions and other activities related to this Agreement.

6. <u>BEST EFFORTS</u>. The City and the Board agree to work diligently together, and in good faith, using their best efforts to resolve any unforeseen issues and disputes regarding the design, construction, completion, and acceptance of the Work.

7. <u>INSPECTION AND ACCEPTANCE</u>.

- A. The Board will be allowed to and shall undertake such inspections as it deems necessary to verify that the Work is being constructed in accordance with the accepted Work plans. If the Board observes that the Work is not being constructed in accordance with the accepted plans, then the Board shall provide timely notice of these observations to the City. If the City fails to take action on these concerns, the Board's representative may stop all work on the Board's facilities.
- **8.** OWNERSHIP AND MAINTENANCE. Upon completion, inspection, and acceptance of the Work by the Contractor, the Board shall own and operate the completed Work except as set forth in the Operating Rules with regard to service lines. The City shall ensure its contractor is responsible for all costs associated with the maintenance, repair, and replacements of the Work for a period of one year following the Board's acceptance.
- **9.** <u>LIABILITY</u>. Each party shall be liable for the errors and omissions of its agents and employees to the extent provided by the Colorado Governmental Immunity Act. This obligation shall survive termination of the Agreement.
- 10. <u>NOTICES</u>. All notices required or given under this Agreement shall be in writing and shall be deemed effective: (a) when delivered personally to the other party; or (b) seven days after posting in the United States mail, first-class postage prepaid, and properly addressed as follows; or (c) when sent by email transmission and the receipt is confirmed by return email transmission.

<u>If sent to the City</u>: Amy Foreman, City and County of Denver Dept. of Transportation and Infrastructure, Engineering Division, Capital Projects Management, 201 W. Colfax Ave., Dept. 506, Denver, Colorado 80202; Amy.Foreman@denvergov.org

With a copy to: City and County of Denver, City Attorney's Office, Municipal Operations, 201 W. Colfax Ave., Dept 1207, Denver, Colorado 80202

<u>If sent to the Board</u>: Paul Peloquin, Distribution Engineering, Denver Water, 1600 West 12th Avenue, Denver, Colorado 80204; Paul.Peloquin@denverwater.org @denverwater.org

or such other persons or addresses as the parties may have designated in writing.

11. <u>NO DISCRIMINATION IN EMPLOYMENT</u>. In connection with the performance of Work under this Agreement, the parties agree not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability. The parties further agree to insert the

foregoing or a similar provision in all contracts entered into in furtherance of this Agreement.

- **12. CONFLICT OF INTEREST**. The parties agree that no official, officer, or employee of the City or of the Board shall have any personal or beneficial interest whatsoever in the Work, related services, or property described herein.
- 13. <u>SUBJECT TO LOCAL LAWS; VENUE</u>. Each and every term, provision, or condition herein is subject to and shall be construed in accordance with the provisions of Colorado law, the Charter of the City and County of Denver, and the applicable ordinances, regulations, executive orders, or fiscal rules, enacted or promulgated pursuant thereto. The Charter and Revised Municipal Code of the City and County of Denver, as the same may be amended from time to time, are hereby expressly incorporated into this Agreement as if fully set out herein by this reference. Venue for any legal action relating to this Agreement shall lie in the District Court in and for the City and County of Denver, Colorado.
- **14. GOVERNMENTAL IMMUNITY ACT**. The parties understand and agree that the parties are relying upon and have not waived the monetary limitations and all other rights, immunities and protections provided by the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as it may be amended from time to time.
- **15. ENTIRE AGREEMENT**. This Agreement constitutes the entire agreement between the Board and the City as to the subject matter hereof, and it replaces all prior written or oral agreements and understandings. It may be altered, amended, or repealed only by a duly executed written instrument. However, the parties acknowledge that as the Project progresses aspects of the Work may arise that are not within the current scope of this Agreement (e.g., utility relocations) that will require submittal, review, approval, and licensing by the Board; such activities shall be governed by the Board's Operating Rules and Engineering Standards.
- 16. <u>NO THIRD PARTY BENEFICIARIES</u>. Enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement shall be strictly reserved to the City and the Board; nothing contained in this Agreement shall give or allow any such claim or right of action by any other person or third party.
- 17. <u>EXECUTION OF AGREEMENT</u>. This Agreement is expressly subject to, and shall not be or become effective or binding on the City and the Board until fully executed by all signatories of the Board and the City and County of Denver.
- **18.** APPROPRIATIONS. The obligations of the City under this Agreement or any renewal shall extend only to monies appropriated annually by the Denver City Council, paid into the Treasury of the City, and encumbered for the purpose of the Agreement, for the purposes of this Agreement. The Parties acknowledge that (i) they do not by this Agreement irrevocably pledge present cash reserves for payments in future fiscal years, and (ii) this Agreement is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of the Parties, beyond the scope of this Agreement.
- 19. EFFECTIVE DATE AND TERMINATION. As used herein, the term "Effective Date" shall mean and refer to the date set out on the City's signature page of this Agreement. This Agreement shall expire, unless earlier terminated or otherwise stated herein, upon completion of the Work and its acceptance and formal transfer of ownership to the Board. Either party may terminate the Agreement on thirty days' written notice for cause in the event the other party fails to comply with any term or condition contained herein.

20. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS. The Board consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature hereunder, may be signed electronically by the City in the manner specified by the City. The parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The parties agree not to object to the admissibility of the Agreement in the form of an electronic record, a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature on the grounds that it is an electronic record, an electronic signature, that it is not in its original form, or is not an original.

[SIGNATURES ON THE NEXT PAGE]

ATTESTED:

By:

DocuSigned by: James SA34Ezoethead

Secretary

DATE:

APPROVED:

By:

Robert B. Wahoney

Chief Engineering Officer

APPROVED AS TO FORM:

DocuSigned by:

By:

Office of General Counsel

CITY AND COUNTY OF DENVER, acting by and through its **BOARD OF WATER COMMISSIONERS**

By:

Gregory 40 April tin President

DocuSigned by:

REGISTERED AND COUNTERSIGNED: CITY AND COUNTY OF DENVER

DocuSigned by: By:

Timerthy WH. TO Brien, CPA

16

Auditor

Contract Control No. 504447

IN WITNESS WHEREOF, the parties have set Denver, Colorado as of:	their hands and affixed their seals at
SEAL	CITY AND COUNTY OF DENVER:
ATTEST:	By:
	-
APPROVED AS TO FORM:	REGISTERED AND COUNTERSIGNED:
Attorney for the City and County of Denver	
By:	By:
	Ву:

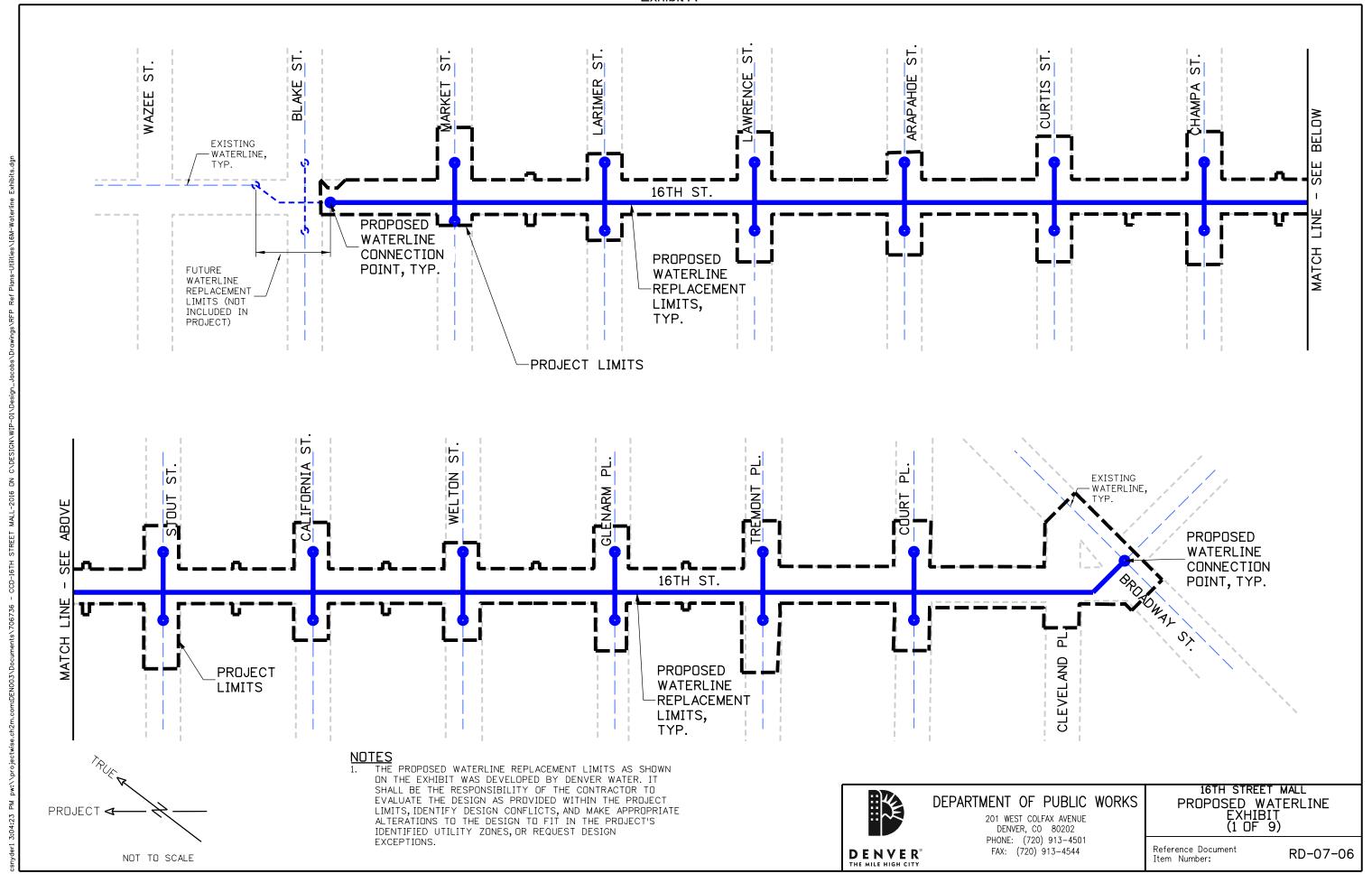
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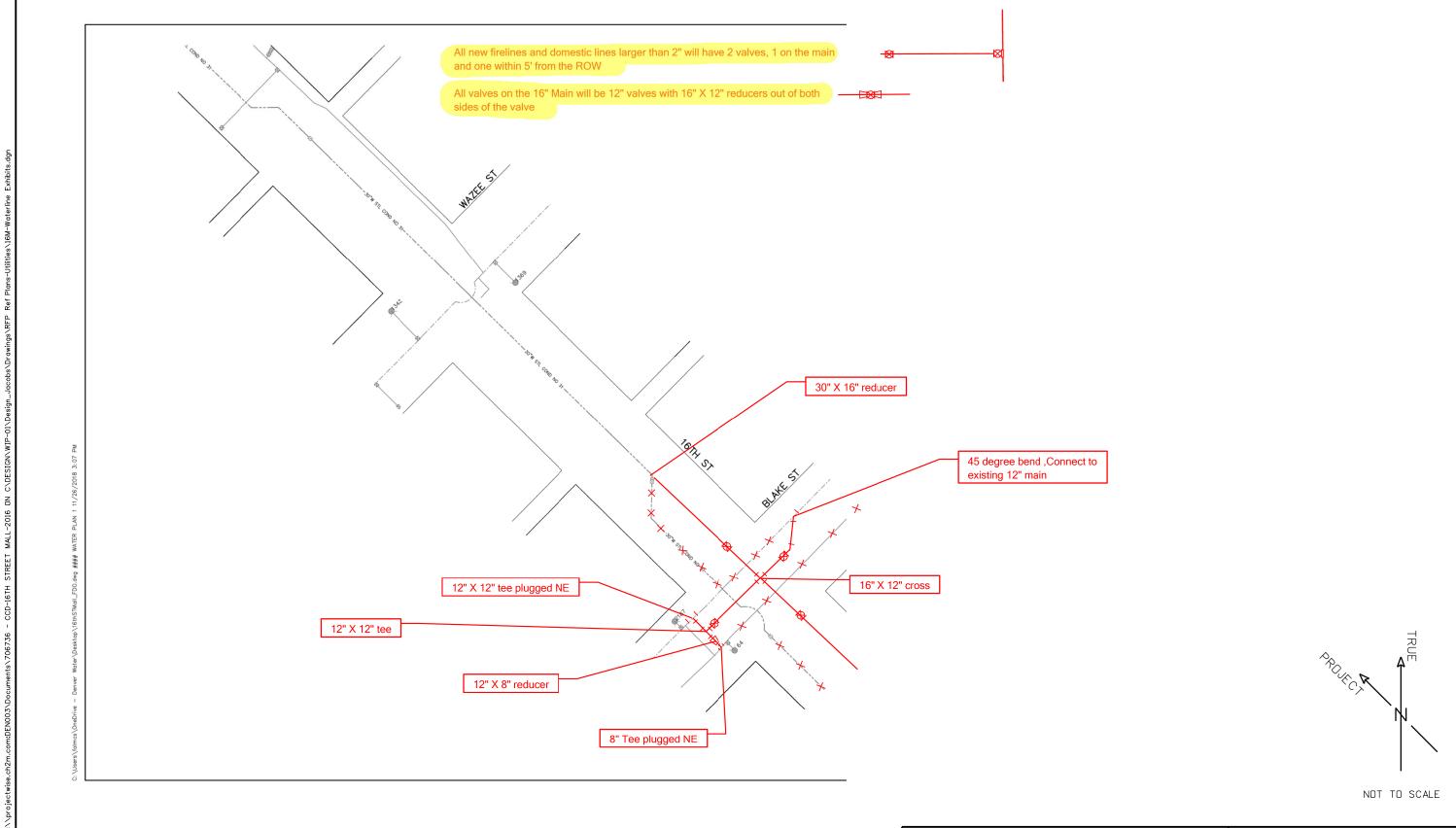
BOARD OF WATER COMMISSIONERS

Contract Control Number:

Contractor Name:

Exhibit A





NOTE:

- $\overline{1}$. The existing waterline information shown on exhibits was obtained from the denver water gis dataset.
- 2. THE PROPOSED WATERLINE REPLACEMENT LIMITS AS SHOWN ON THE EXHIBIT WAS DEVELOPED BY DENVER WATER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EVALUATE THE DESIGN AS PROVIDED WITHIN THE PROJECT LIMITS, IDENTIFY DESIGN CONFLICTS, AND MAKE APPROPRIATE ALTERATIONS TO THE DESIGN TO FIT IN THE PROJECT'S IDENTIFIED UTILITY ZONES, OR REQUEST DESIGN EXCEPTIONS.

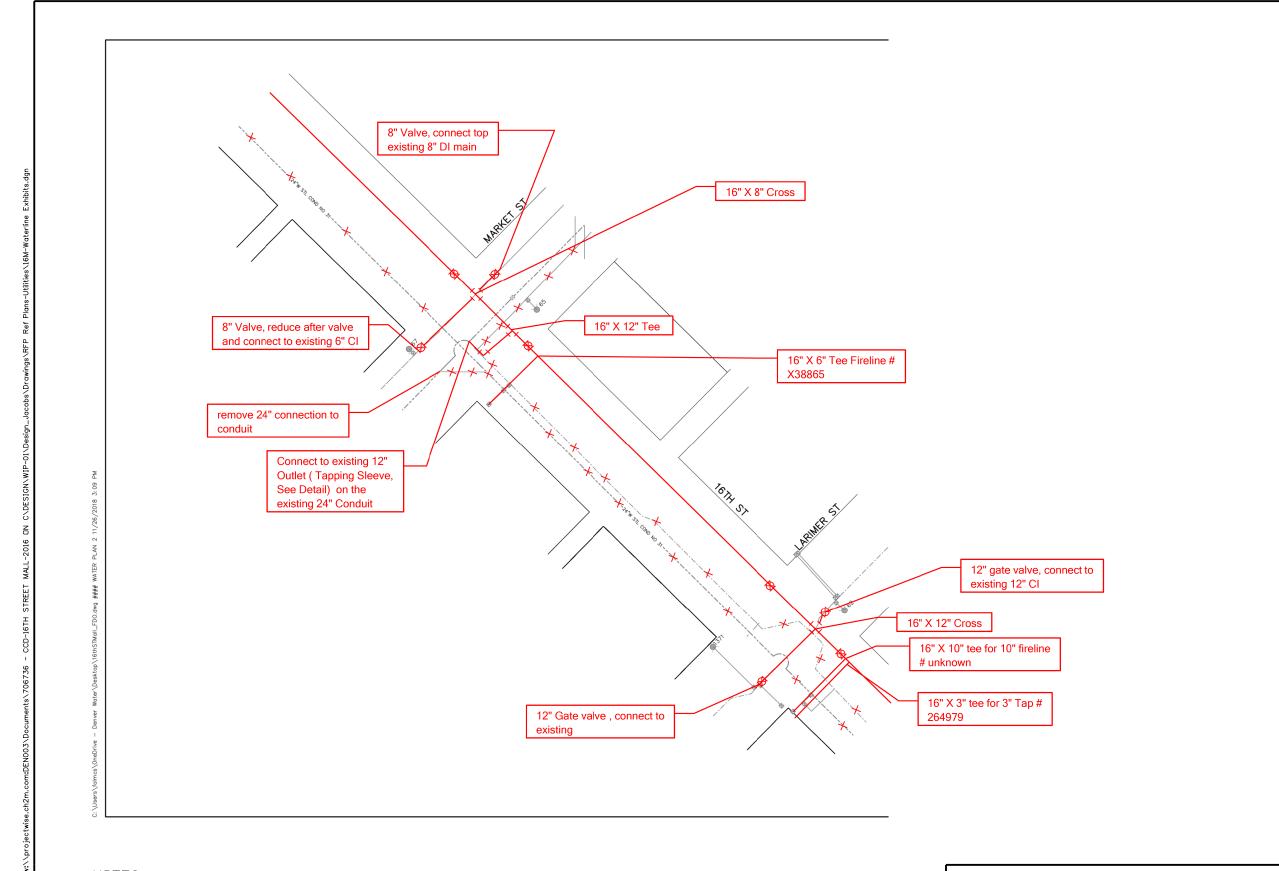


DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (2 OF 9)

Reference Document Item Number:



NOT TO SCALE

NOTE

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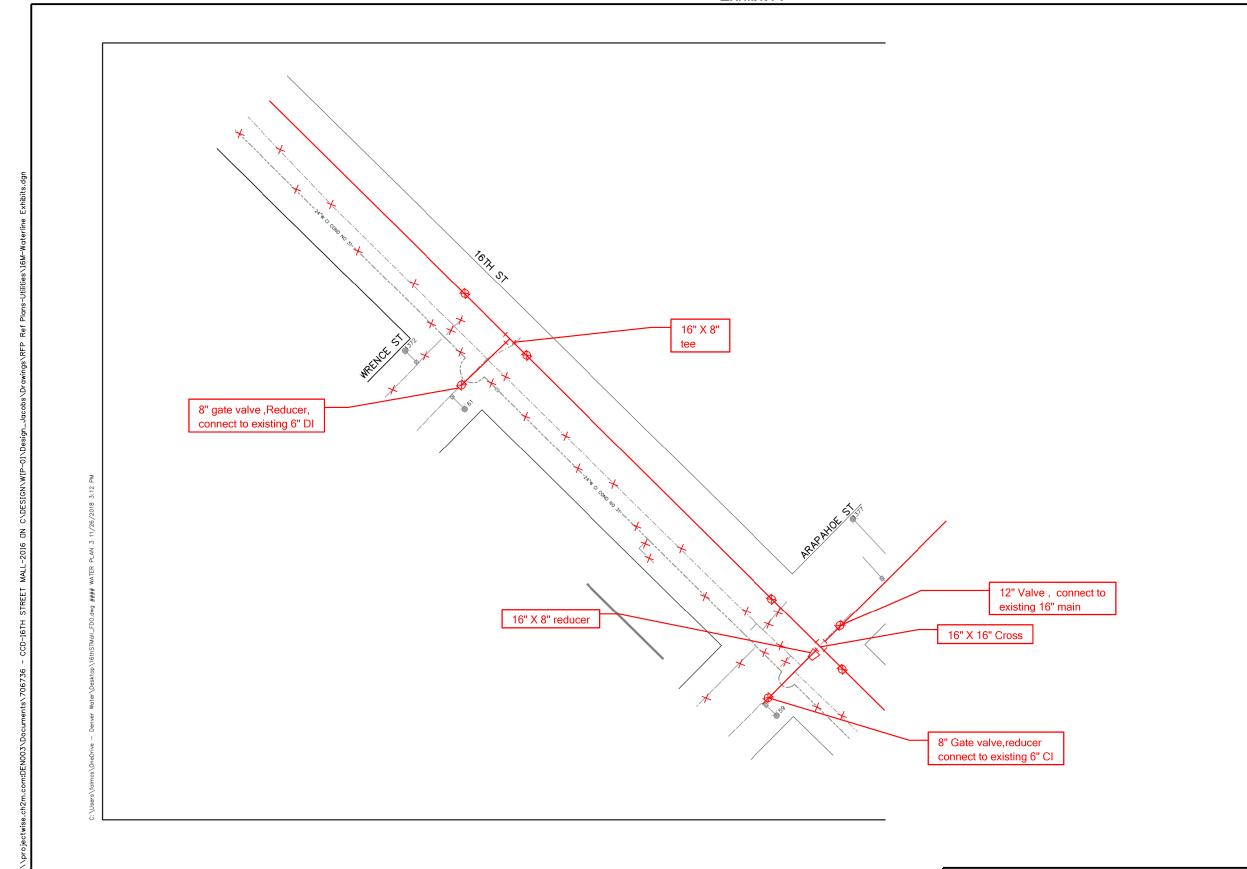


DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (3 OF 9)

Reference Document Item Number:



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NOT TO SCALE

NOTE:

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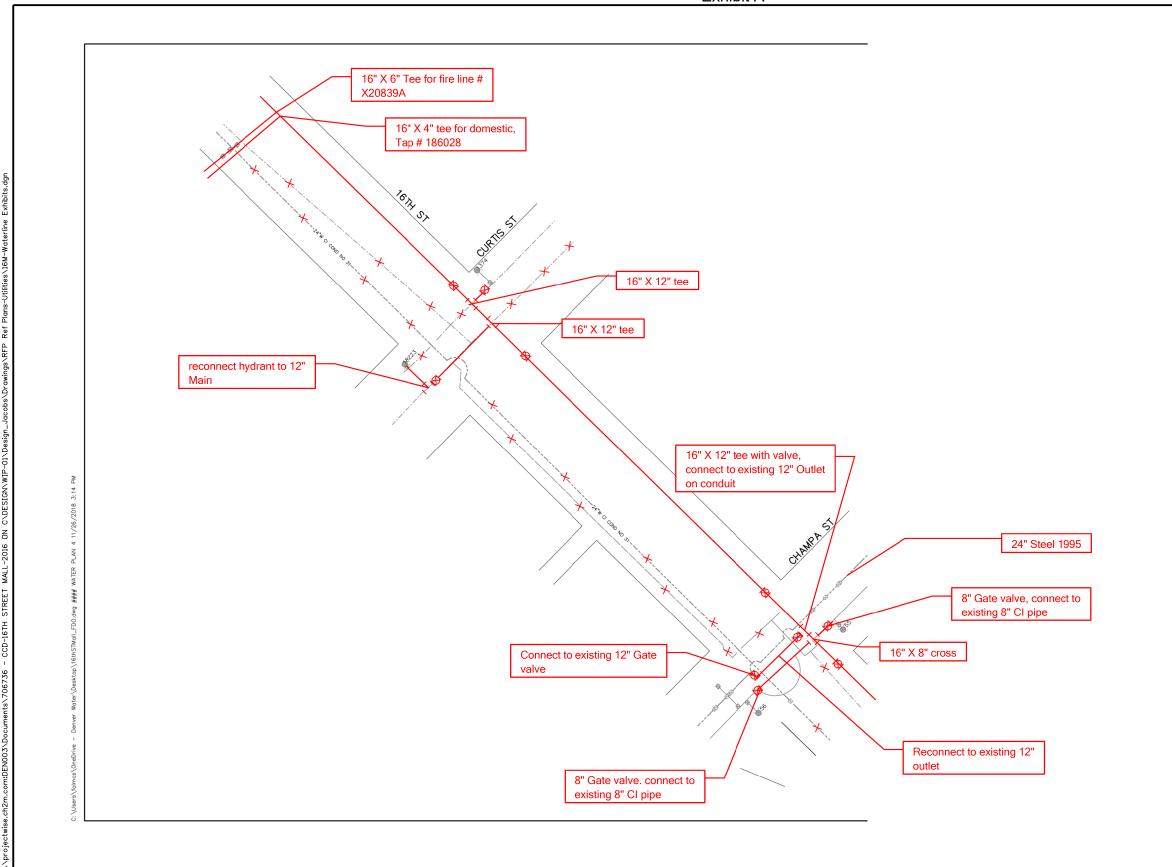


DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (4 OF 9)

Reference Document Item Number:



TRUE N

NOT TO SCALE

NOTE

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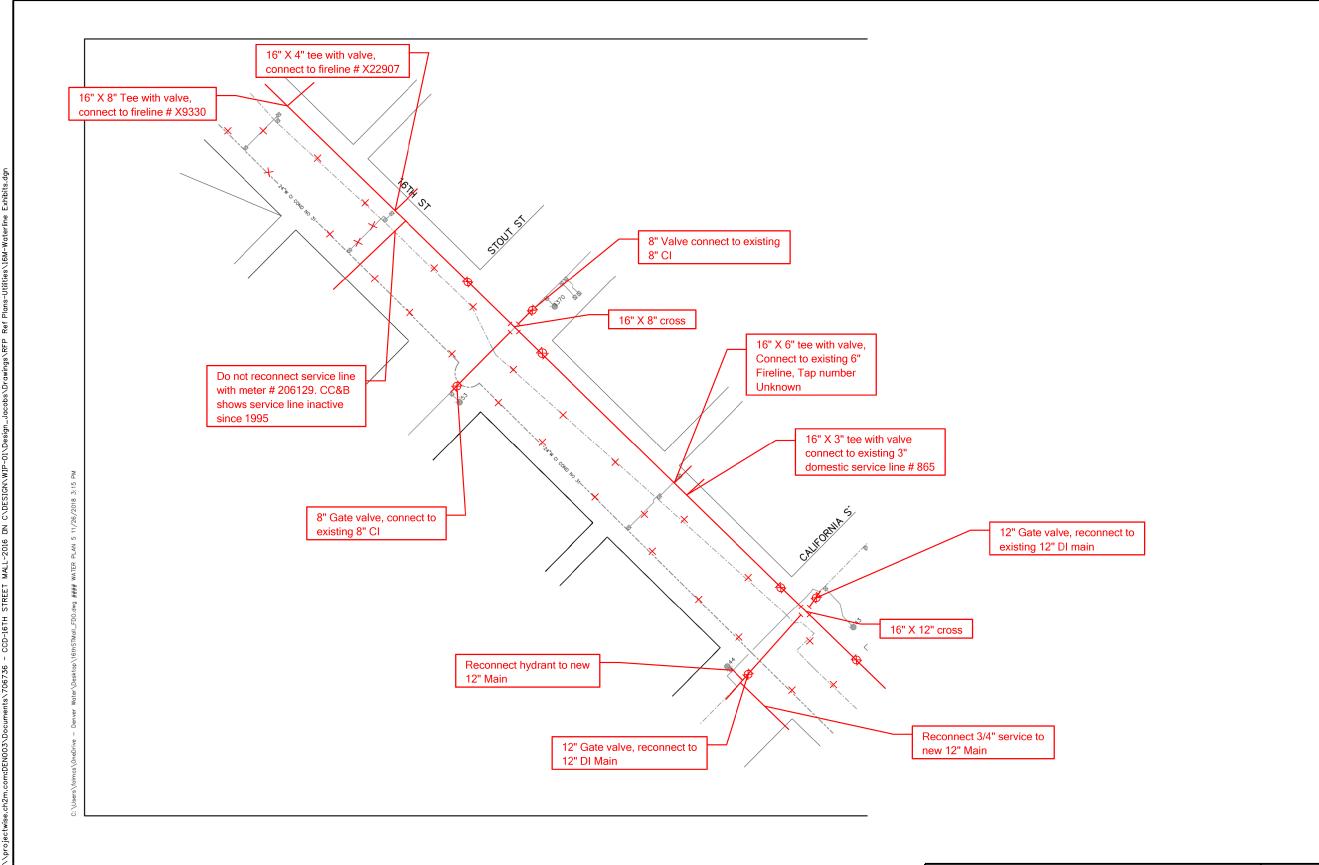
DENVER® THE MILE HIGH CITY

DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (5 OF 9)

Reference Document Item Number:



<u>NOTES</u>

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DEPARTMENT OF PUBLIC WORKS

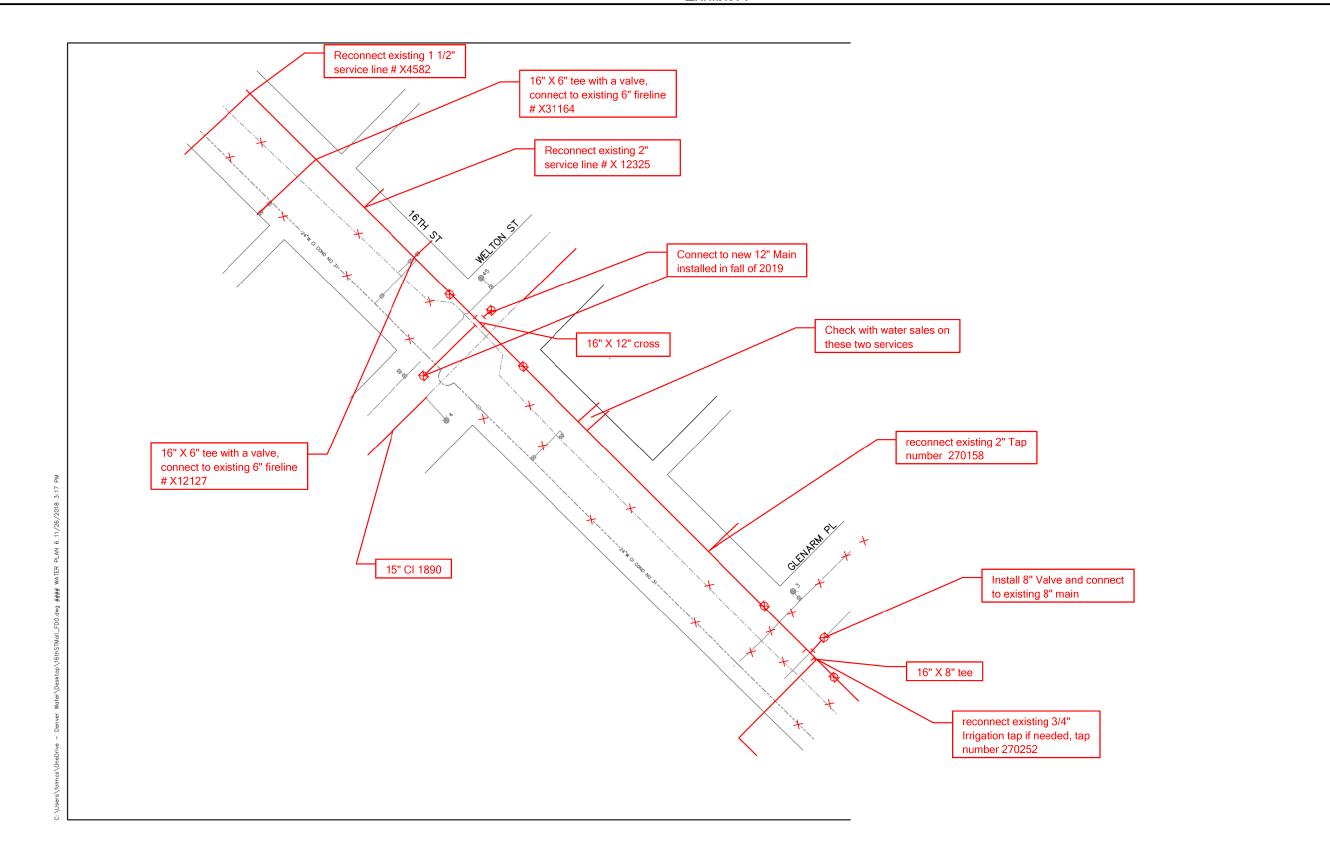
201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (6 OF 9)

Reference Document Item Number:

RD-07-06

NOT TO SCALE



NOTES

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DEPARTMENT OF PUBLIC WORKS

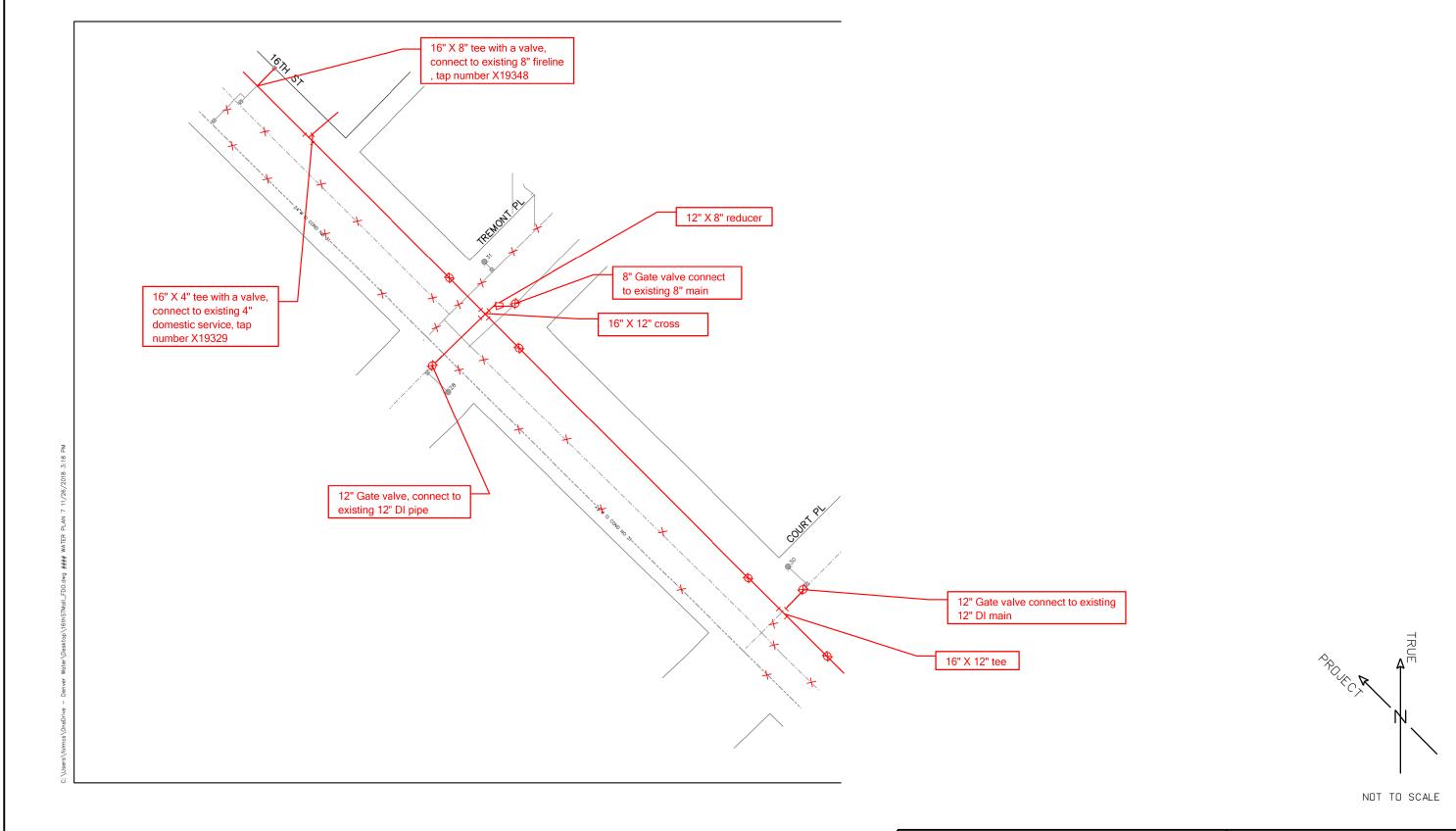
201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (7 OF 9)

Reference Document Item Number:

RD-07-06

NOT TO SCALE



NOTES

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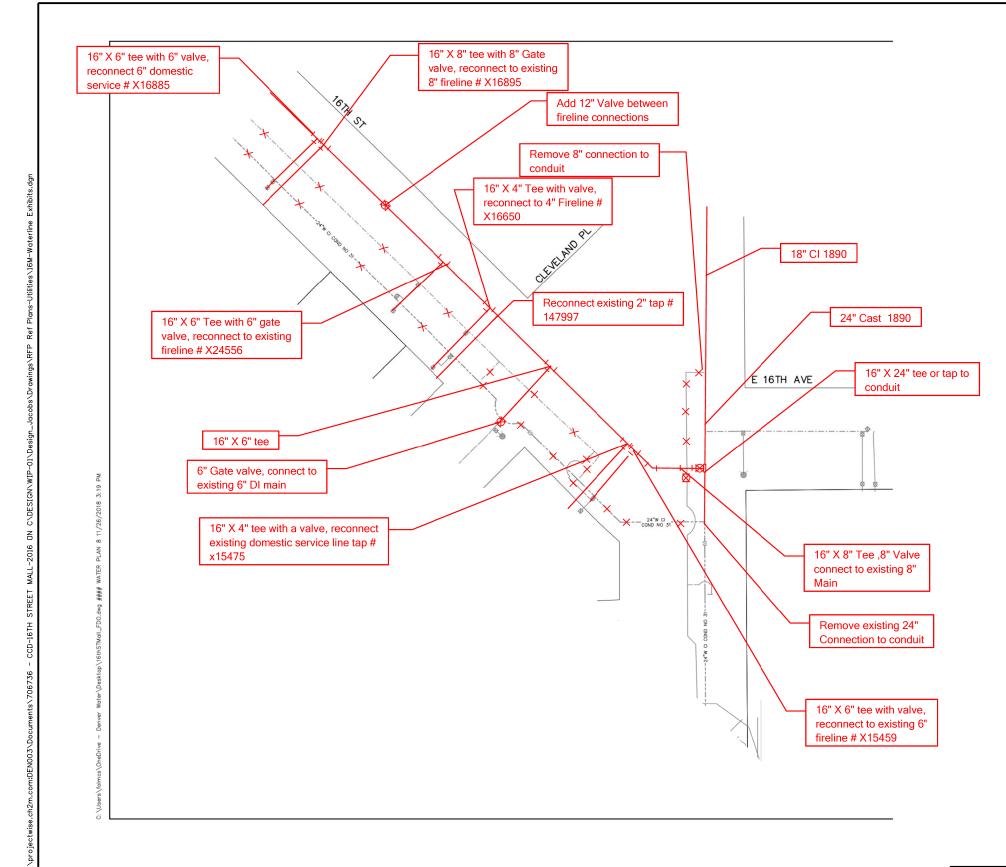


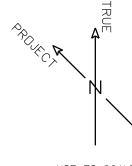
DEPARTMENT OF PUBLIC WORKS

201 WEST COLFAX AVENUE DENVER, CO 80202 PHONE: (720) 913-4501 FAX: (720) 913-4544

16TH STREET MALL PROPOSED WATERLINE EXHIBIT (8 OF 9)

Reference Document Item Number:





NOT TO SCALE

NOTE:

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DEPARTMENT OF PUBLIC WORKS

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16TH STREET MALL PROPOSED WATERLINE EXHIBIT (9 OF 9)

Reference Document Item Number:

Exhibit B

JACOBS

DENVER WATER - 16TH STREET MALL PIPE REPLACEMENT

PROJECT NO: D3292700 A.PN.OE.21.01-03

PREPARED BY: E.R.MEYER

DENVER WATER - 16TH STREET MALL PIPE REPLACEMENT

(Costs are escalated to July 2021, Estimate prepared in January 2020, ENR CCI 20 City Average = 11392)

	DESCRIPTION	INCLUDED IN ESTIMATE?	TOTAL COST
	REPLACE WATER PIPES	Yes	\$6,619,000
	SDC	Yes	\$575,557
Г	TOTAL		\$7,194,557

1/16/2020 Item 1

DENVER WATER - 16TH STREET MALL PIPE REPLACEMENT

PROJECT NO: D3292700 A.PN.OE.21.01-03

PREPARED BY: E.R.MEYER

JACOBS

DENVER WATER - 16TH STREET MALL PIPE REPLACEMENT

(Costs are escalated to July 2021, Estimate prepared in January 2020, ENR CCI 20 City Average = 11392) DESCRIPTION QUANTITY UNIT \$/UNIT TOTAL REFERENCE						
2200 1.0.1	20/11/11		(includes Material & Installation)	COST		
REPLACE WATER PIPES		1	l mstanauom			
Demolition:						
202, 24" WATERLINE DEMOLITION	4,771	LF				
Trench Excavation with Trench Box	8,781	CY	\$11.61		Based on 2020 RSM 02315-610-1362	
Remove Existing 24" DIP	4,771	LF	\$39.51 \$25.00	\$188,502 \$10,842	Based on 2020 RSM 02220-240-2960	
Haul Away Debris Dumping Fee	434 434	CY CY	\$25.00 \$75.00			
Native Fill (processed)	9,648	CY	\$15.00 \$15.00			
Native I iii (processed)	9,040		ψ13.00	ψ1 44 ,720		
202, 30" WATERLINE DEMOLITION	177	LF CY	\$11.61	£4.006	Based on 2020 RSM 02315-610-1362	
Trench Excavation with Trench Box Remove Existing 30" DIP	365 177	LF	\$52.74		Based on 2020 RSM 02313-610-1362 Based on 2020 RSM 02220-240-3000	
Haul Away Debris	23	CY	\$25.00	\$579		
Dumping Fee	23	CY	\$75.00	\$1,738		
Native Fill (processed)	411	CY	\$15.00	\$6,167		
New Pipelines:						
619, 3/4" DIP WATERLINE	159	LF	\$11.00	\$1,747		
619, 1.5" DIP WATERLINE	70	LF	\$18.94	\$1,334	2020 RSM 15107-620-2060	
619, 2" DIP WATERLINE	123	LF	\$19.43		2020 RSM 15107-620-2070	
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	352	LF	\$15.06	\$5,301		
restoration) Fitting Allowance	20%		\$5,465.26	\$1,093		
, many , morranto	20 /0					
619, 3" DUCTILE IRON WATERLINE	79	LF	\$40.75		Based on 2020 RSM 02510-730-2020	
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	79	LF	\$30.12	\$2,390		
restoration) 3" Bend	8	EA	1 \$192.38	¢1 520	Based on 2020 RSM 02510-730-8006	
16" x 3" Tee	4	EA	\$3,309.00		Based on 2020 RSM 02510-730-8000	
3" Cross	I 0	EA	\$520.00		Based on 2020 RSM 02510-730-8200	
3" Joint Restraints	4	EA	\$51.75		Based on 2020 RSM 02510-730-8710	
3" GATE VALVE (Including box)	4	EA	\$775.13	\$3,101	Based on 2020 RSM 02080-500-3810	
CAO AL DUCTU E IDON WATER INF	200	LF	\$54.33	\$11 E1E	2020 RSM 02510-730-2020	
619, 4" DUCTILE IRON WATERLINE Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	268 268	LF	\$31.04	\$8,310		
restoration)	200		ψ01.04	φο,στο		
4" Bend	26	EA	\$256.50	\$6,669	2020 RSM 02510-730-8006	
16" x 4" Tee	13	EA	\$3,309.00		Based on 2020 RSM 02510-730-8320	
4" Cross	0	EA	\$693.33		Based on 2020 RSM 02510-730-8200	
4" Joint Restraints 4" GATE VALVE (Including box)	14 13	EA EA	\$69.00 \$1,033.50		2020 RSM 02510-730-8710 2020 RSM 02080-500-3810	
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
619, 6" DUCTILE IRON WATERLINE	612	LF	\$65.67		2020 RSM 02510-730-2040	
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	612	LF	\$32.94	\$20,174		
restoration) 6" Bend	J 58	EA	\$358.50	\$20.702	2020 RSM 02510-730-8020	
16" x 6" Tee	29	EA	\$3,309.00		Based on 2020 RSM 02510-730-8320	
6" Cross	I 0	EA	\$1,001.33		Based on 2020 RSM 02510-730-8220	
6" Joint Restraints	31	EA	\$87.00		2020 RSM 02510-730-8720	
6" GATE VALVE (Including box)	29	EA	\$1,448.50	\$42,007	2020 RSM 02080-500-3814	
0.40 A L IIII		١	005.07	004440	0000 BOM 00540 700 0040	
619. Additional Service Taps (6" DUCTILE IRON WATERLINE) Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	520 520	LF LF	\$65.67 \$32.94	\$34,148 \$17,129	2020 RSM 02510-730-2040	
restoration)	320	LI	Ψ32.3 4	Ψ17,129		
16" x 6" Tee	13	EA	\$3,309.00		Based on 2020 RSM 02510-730-8320	
6" Bend	26	EA	\$358.50		2020 RSM 02510-730-8020	
6" GATE VALVE (Including box) 6" Joint Restraints	13 13	EA EA	\$1,448.50 \$82.50		2020 RSM 02080-500-3814 2019 RSM 02510-730-8720	
0 John Restraints	13	LA	\$62.50	\$1,073	2019 KSW 02510-750-6720	
619, 8" DUCTILE IRON WATERLINE	634	LF	\$71.00	\$45,006	2020 RSM 02510-730-2060	
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	634	LF	\$34.88			
restoration)		1			l	
8" Bend	60	EA	\$635.00		2020 RSM 02510-730-8040	
16" x 8" Tee 8" Cross	30 0	EA EA	\$3,309.00 \$1,469.33		Based on 2020 RSM 02510-730-8320 Based on 2020 RSM 02510-730-8240	
8" Joint Restraints	32	EA	\$1,469.33 \$115.00		2020 RSM 02510-730-8240	
8" GATE VALVE (Including box)	30	EA	\$2,323.50		2020 RSM 02080-500-3816	
619, 10" DUCTILE IRON WATERLINE**	58	LF	\$91.84		2020 RSM 02510-730-2080	
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	58	LF	\$36.88	\$2,148		
restoration) 10" Bend	0	EA	J \$938.50	! \$∩	2020 RSM 02510-730-8060	
10" Tee	0	EA	*		2020 RSM 02510-730-8060 2020 RSM 02510-730-8260	
10" Cross	0	EA	\$1,993.33	\$0	Based on 2020 RSM 02510-730-8260	
10" Joint Restraints	3	EA	\$169.00	\$507	2020 RSM 02510-730-8740	
CAO AOS DIJOTS E IDONIMATERA NIE++	242		0110 =0	POF 400	2020 BSM 02540 720 0400	
619, 12" DUCTILE IRON WATERLINE** Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	840 840	LF LF	\$113.70 \$38.94	\$95,488 \$32,703	2020 RSM 02510-730-2100	
restoration)	040	LF	φ30.94	ψ32,103		
12" Bend	5	EA	\$1,202.50	\$6,013	2020 RSM 02510-730-8080	
12" Tee	0	EA	\$2,366.00	\$0	2020 RSM 02510-730-8280	
12" Cross	0	EA	\$3,154.67		Based on 2020 RSM 02510-730-8280	
12" Joint Restraints	42	EA	\$190.00	\$7,980	2020 RSM 02510-730-8750	

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1/16/2020 Item 1

JACOBS DENVER WATER - 16TH STREET MALL PIPE REPLACEMENT PROJECT NO: D3292700 A.PN.OE.21.01-03 PREPARED BY: E.R.MEYER

DENVER WATER - 16TH STREET MALL PIPE REPLACEMENT

(Costs are escalated to July 202	QUANTITY				REFERENCE
DESCRIPTION	QUANTITY	UNIT	(includes Material &	TOTAL COST	REFERENCE
618, 16" DUCTILE IRON WATERLINE**	4,826	LF	Installation) \$144.85	000 000	2020 RSM 02510-730-2140
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	4,826	LF	\$43.22		
restoration)	4,020	"	Ψ+0.22	φ200,000	
16" Bend	5	EA	\$2,107.00	\$10.535	2020 RSM 02510-730-8120
16" Tee	0	EA			2020 RSM 02510-730-8320
16" Cross	0	EA			Based on 2020 RSM 02510-730-8320
16" Joint Restraints	242	EA	\$297.50		2020 RSM 02510-730-8770
			1		2020 11011 020 10 100 0110
619, 24" DUCTILE IRON WATERLINE**	119	LF	\$217.55	#2E 000	2020 RSM 02510-730-2180
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	119	LF	\$52.45		
, , , , , , , , , , , , , , , , , , , ,	119	LF	φυ2.40	\$0,240	
restoration) 24" Bend	-		\$5.670.50	#20.2E2	2020 RSM 02510-730-8180
24 Bend 24" Tee	5 0	EA EA			2020 RSM 02510-730-8180 2020 RSM 02510-730-8380
24" Cross	0	EA			Based on 2020 RSM 02510-730-8380
24" Joint Restraints	6		\$628.00		
24 John Reshams	О	EA	φ020.00	φ3,766 I	2020 RSM 02510-730-8790
				1	l
619, 30" DUCTILE IRON WATERLINE**	0	LF	\$271.94		Based on 2020 RSM 02510-730-2180
Pipe Trench Excavation, Bedding, and Native Backfill (excludes surface	0	LF	\$59.95	\$0	
restoration)				l	
30" Bend	0	EA			Based on 2020 RSM 02510-730-8180
30" Tee	0	EA			Based on 2020 RSM 02510-730-8380
30" Cross	0	EA			Based on 2020 RSM 02510-730-8380
30" Joint Restraints	0	EA	\$785.00	\$0	Based on 2020 RSM 02510-730-8790
				l	
619, 3" GATE VALVE (Including box)	3	EA			Based on 2020 RSM 02080-500-3810
619, 4" GATE VALVE (Including box)	9	EA			2020 RSM 02080-500-3810
619, 6" GATE VALVE (Including box)	15	EA			2020 RSM 02080-500-3814
619, 8" GATE VALVE (Including box)	17	EA	\$2,323.50	\$39,500	2020 RSM 02080-500-3816
619, 10" GATE VALVE (Including box)	1	EA	\$3,998.50	\$3,999	2020 RSM 02080-500-3818
619, 12" GATE VALVE (Including box)	39	EA	\$5,323.50	\$207,617	2020 RSM 02080-500-3820
619, 16" GATE VALVE (Including box)	1	EA	\$16,034.50	\$16,035	2020 RSM 02080-500-3824
Utility Crossings (Pipe Encasement)	852	LF	\$60.85	\$51,843	
616, CONNECT EXISTING WATERLINE (includes all fittings)	46	EACH			
010, CONNECT EXISTING WATERLINE (Includes all littings)	40	LACI	ψ5,000.00	\$130,000	
Subtotal				\$2,941,229	
Allowance for Misc Items	5%		\$2,941,229		
Allowance for Misc Rems	376		ΨΖ,341,223	\$147,001	
Subtotal				\$3,088,291	
Subiolal				ψ0,000,201	
ALLOWANCES:			1		
Sitework Allowance	1.0%		\$3,088,291	\$30,883	
I & C Allowance	0.0%		\$3,088,291	\$0	
Mechanical Allowance	0.0%		\$3,088,291	\$0	
Electrical Allowance	0.0%		\$3,088,291	\$0	
Electrical / illowarioc	0.070		ψ0,000,201	Ψ0	
Subtotal				\$3,119,173	
				ψο,ο,ο	
Allowance for Difficult Construction	0.0%		\$3,119,173	\$0	
Subtotal	0.070		ψο,ο,ο	\$3,119,173	
			1	72,110,110	
CONTRACTOR MARKUPS:				1	
Overhead	12%		\$3,119,173	\$374,301	
	1270		\$5,115,175		
Subtotal			1	\$3,493,474	
Profit	5%		\$3,493,474	\$174,674	
Subtotal				\$3,668,148	
	50/		\$3,668,148		
Mob/Bonds/Insurance	5%		φ3,000,148		
Subtotal				\$3,851,555	
Contingency	30%		\$3,851,555	\$1,155,467	
	50,0		<u> </u>	\$5,007,022	
SUBTOTAL with Markups			1	ψυ,υυ1,υ22	
			<u> </u>	<u> </u>	
Escalation	4.5%		\$5,007,022	\$225,316	
UBTOTAL Construction Cost with Escalation				\$5,232,338	
			 	70,202,000	
OBTOTAL CONSTITUCTION COST WITH Escalation					
OBTOTAL GOTSH BUTTOT GOST WITH ESCHILATION			\$3,139,403	\$0	
Tax	0%				
Tax	0%				
Tax OTAL Construction Cost with Escalation & Tax				\$5,232,338	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment	0% 100%			\$5,232,338	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment actor	100%			\$5,232,338	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment actor			\$5,232,338	\$5,232,338	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment actor larket Adjustment Factor	100%		\$5,232,338	\$5,232,338 \$523,234	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment actor larket Adjustment Factor OTAL Construction Cost with Escalation & Tax, Location Adjustment	100%		\$5,232,338	\$5,232,338	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment factor OTAL Adjustment Factor OTAL Construction Cost with Escalation & Tax, Location Adjustment factor and Market Adjustment Factor	100% 10%			\$5,232,338 \$523,234 \$5,755,572	
Tax OTAL Construction Cost with Escalation & Tax OTAL Construction Cost with Escalation & Tax, and Location Adjustment actor larket Adjustment Factor OTAL Construction Cost with Escalation & Tax, Location Adjustment	100%		\$5,232,338 \$5,755,572	\$5,232,338 \$523,234 \$5,755,572	

To: Summary Sheet