jo num: <mark>15-0845565-00 loc num: 8400 supervisor: 8410B</mark> PAGE: 01 of 08

job type: 558 specific budget: copy no: 06 on: 03/09/16 job summary: RETIRE 7595' OF LP CI AND P bad weather (y/n): Y iob desc: MAINS-LEAKAGE ELIMINATION (RET.) status: PL

cdc map num: SLAW14 system number: 80001004 HP maop: 99.0

located at: S UNION

begin street num: end street num:

> between: and:

also known as:

city: LAWRENCE zip:

originated by: U124000 on: 04/07/15 updated by: U127920 on: 03/09/16 wms related jo num: 15-0845564-00

dis related jo num:

project name: 8400 - UNION - REPL co/contract cd: B reimbursable (y/n): N income tax (y/n): N

facility type: MN facility id: function type: function id: co premise id: psid:

county name: ESSEX

taxing district: 0000402 mult tax dist (y/n): _

incorporated place: LAWRENCE

county subdivision: assess district 1: assess district 2: permits required:

committed date: 12/15/16 target date: 09/30/16 start date: total duration time: 16:00 num in crew: 1 retirement code: 06

scheduling:

REPLACE 7595' OF LP CI AND PH GAS MAIN WITH 4115' OF LP AND HP PH GAS MAIN ON S. UNION STREET AND NEIGHBORING STREETS. THE MAJORITY OF THIS PROJECT IS TAKING PLACE ON S. UNION STREET, FROM WINTHROP ST TO MARKET ST. THE DRIVER FOR THIS PROJECT IS THE PLANNED LAWRENCE WATER WORK TO TAKE PLACE ON S. UNION STREET NEXT TO DUAL LP CI MAINS. ESTIMATED DURATION OF 96 DAYS FOR 2 CREWS AND 2 POLICE WORKING THROUGHOUT. ESTIMATED NUMBER OF AFFECTED SERVICES: 93 (65 REPLACEMENTS AND 28 TIE-OVERS)

A WELDER WILL BE NEEDED.

ESTIMATED COST WITH SERVICES: \$1,490,614

operating press: HP system number: 80001004

maop: 99.0 psig

main number:
med number:
other market affected: design maop: 100.0 psig test press: 150.0 psig med number: 0031921

nlds number: other system affected: 80001016

lea number: 000000000

footage to install: 7595 ft

method of tie in: COUPLE material code: CI service lines: 00000 meter moves: 00000

> reconnects: 00000 other: 00000

jo num: 15-0845565-00 loc num: 8400 supervisor: 8410B PAGE: 02 of 08 job type: 558 job summary:RETIRE 7595' OF LP CI AND P specific budget: ******* M A I N E V A L U A T I O N D A T A S H E E T ******** material type: type of joint: system number: operating press: corrosion control: adjacent to: predom main cover: type of area: attachments: N feet of main evaluated: 0 main number: year pipe mitigated: existing main size: year installed: recommended replacement size: 0 most recent leak survey date: OPEN 0 services: grade 1: grade 2: 0 grade 3: ORDERS mains: grade 1: 0 grade 2: grade 3: dpi/mex yr located at lk prob cs clr clmp ftg ppe cr pit number gd lk sc cd cd inst exps cnd cd cd replace/repair code: 3 A. main replacement estimate (use jo num:) \$ 85000 B. estimated cost of service...replacement-num 0 at \$ 0 + reconnect -num 0 at \$ 0 0 C. estimated cost to clear leak areas main-num 0 at \$ 0 + serv-num 0 at \$ 0 D. calculated replace/repair ratio=A+B/C 99.9 E. estimated time (in years) until next leak develops on main 1 F. company replace/repair ratio 9.7

--recommendation for replacement-economic: N other/comments: Y

remarks:

MAIN BEING REPLACED DUE TO LAWRENCE WATER WORK

jo num: 15-0845565-00 loc num: 8400 supervisor: 8410B PAGE: 03 of 08 job type: 558 job summary:RETIRE 7595' OF LP CI AND P specific budget: *******DIG AND BACKFILL/REIMBURSING/CUSTOMER ADVANCE INFORMATION ******** estimated amount: date pymt recd: name & : address dig & backfill footage: 0 rate: 0.00 classification code/percent: 2 :100.00% : 0.00% materials cost: 0 subtotal: stores expense: 0.000% cost: 0 afudc: 0.245% cost: contract cost: 2379 seg&a: 26.600% cost: 1abor hours: 16 labor cost: 720 11 947 total estimated cost: 4518 321 income tax: 0.000% cost: 0 maximum crew size: 1 detail: X sketch: _ Louie DeRokas, Field Engineer 3/9 , 2016 _____, 20___ , 20 ___, 20 CERTIFICATE I CERTIFY THAT ALL COMPONENTS ON THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH THE COLUMBIA GAS DIST COMPANIES POLICY/PROCEDURE MANUAL ENGINEERING REPRESENTATIVE: __ 3/9 , 20/6

jo num: 15-0845565-00 loc num: 8400 supervisor: 8410B

job type: 558 specific budget: copy no: 06 on: 03/09/16 job summary: RETIRE 7595' OF LP CI AND P bad weather (y/n): Y job desc: MAINS-LEAKAGE ELIMINATION (RET.) status: PL

cdc map num: SLAW14 system number: 80001004 HP maop: 99.0

located at: S UNION

begin street num: end street num:

> between: and:

also known as:

city: LAWRENCE zip:

originated by: U124000 on: 04/07/15 updated by: U127920 on: 03/09/16

wms related jo num: 15-0845564-00 project id: 15-29388 dis related jo num:

project name: 8400 - UNION - REPL

co/contract cd: B reimbursable (y/n): N income tax (y/n): N facility type: MN facility id:

function type: function id: co premise id: psid:

county name: ESSEX

taxing district: 0000402 mult tax dist (y/n):

incorporated place: LAWRENCE

county subdivision: assess district 1: assess district 2: permits required:

committed date: 12/15/16 target date: 09/30/16 start date: total duration time: 16:00 num in crew: 1 retirement code: 06

scheduling:

REPLACE 7595' OF LP CI AND PH GAS MAIN WITH 4115' OF LP AND HP PH GAS MAIN ON S. UNION STREET AND NEIGHBORING STREETS. THE MAJORITY OF THIS PROJECT IS TAKING PLACE ON S. UNION STREET, FROM WINTHROP ST TO MARKET ST. THE DRIVER FOR THIS PROJECT IS THE PLANNED LAWRENCE WATER WORK TO TAKE PLACE ON S. UNION STREET NEXT TO DUAL LP CI MAINS. ESTIMATED DURATION OF 96 DAYS FOR 2 CREWS AND 2 POLICE WORKING THROUGHOUT. ESTIMATED NUMBER OF AFFECTED SERVICES: 93 (65 REPLACEMENTS AND 28 TIE-OVERS)

A WELDER WILL BE NEEDED.

ESTIMATED COST WITH SERVICES: \$1,490,614

jo num: 15-0845565-00 loc job type: 558 job summary: {**************	RETIRE 7595'	OF LP CI AND P	specific bud	aet.
remarks:		1 0 10 ********	*****	****
line markers and signs inspe	stad (w/n).			
facility failures (y/n):	dar	mages by others	(v/n).	
facility failures (y/n): _ damages to others (y/n): _	ma	p corrections	(y/n):	
***************** C H A R G 80-0384000-0384000-00080-005	E T 0 I N	FORMATIC) N ******	*****
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		%		
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**************************************	RACTIO	N REQUIR	! E D ******	* * * * * * * *
job type: job summary: remarks:				
**************************************	ATTACHM	ENTS *****	******	* * * * * * * * * * * * * * * * * * *
detail: X contract pipe exposure: X facilit	s: A mater:	lais: X execu	ite detail: X	
PIPO OXPOSUIC. X TACILIE	у. 1.6	a.r.: A	sketch: _	
I HAVE COMPLETED THIS JOB OR PROCEDURES.	DER IN COMPLIA (COMPA	ANCE WITH ALL AP ANY REPRESENTATI	PLICABLE POLIC	IES AND , 20 <u>16</u>
******************	**** M A I N	S ********	******	* * * * * * * *
operating press: HP			number: 800010	
maop: 9	9.0 psig	main	numban.	
design maop: 10 test press: 15	0.0 psig	m e d	number: 003192	1
test press: 15 nlds number:	0.0 psig	other market af	fected:	
lea number: 000		other system af	fected: 800010	16
footage to install:				
method of tie in: COU		materia	1 code: CI	
service lines: 000	0 0		moves: 00000	
reconnects: 000	0 0		other: 00000	
* * * * * * * * * * * * * * * * * * * *	* M A T E R I	A L S ******	* * * * * * * * * * * * *	* * * * * * *
stock description uom est	not ond	uantity	 	
ssn description dom est	nec ord	Cruck Inst 10s	t trans trans	to/from
		2		

jo num: 15-0845565-00 loc num: 8400 si job type: 558 job summary:RETIRE 7595' O	upervisor: 8410B PAGE: 06 of 08 F LP CI AND P specific budget:
****** C O N T R A	C T S *************
contract num: 15-6765-01 type: MA docontractor nm: FEENEY BROTHERS EXCAVATION effective date: 01/01/16 expiration date: contractor rep: company insp: final report entered:	N LL
final report entered:	control no:
item # sz mtl uom item description 52-400 040 EA BAG OFF TIE-IN	est rpt-to-dt this rpt 2 0.0
******* P R E S S U R E T E	E S T D A T A *************
recording pressure chart attached:	duration of test:
test acceptable: _	test medium:
date test removed:/_/_	test by:
time test removed::	lines purged & sealed:
test remarks::	
signature:	
****** F A C I L I T Y	R E T I R E **************
facility fac	taxing gtv gtv inst
id type sz mtl ct DESCRIPTION	district retire abandon year

jo num: 15-0845565-00 loc num: 8400 job type: 558 job summary:RETIRE 7595'	supervisor: 8410B PAGE: 07 of 08
**************************************	DAVING YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
Sunface backen by.	PAVING ************************************
surface broken by:	date proken:
surface broken: ft from:	
and: ft from:	
type broken:	
size of opening:X	
depth inches:	
surface as found:	
surface as left:	
authorized repair size: X	completed (y/n) (no f.a.r.)
authorized repair surface:	
actual repair size: X	
actual repair kind:	
repaired/completed by:	contractor name.
charge ::	:%::%
to jo#s:%	
	% %
**************************************	date broken: 2
size of opening:X	
depth inches:	
surface as found:	
surface as left:	
authorized repair size: X	completed (y/n) (no f.a.r.)
authorized repair surface:	
actual repair size:X	
actual repair kind:	
repaired/completed by:	contractor name:
charge : : : : : : : : : : : : : : : : : : :	:% :%
to jo#s : %	:
: %	;
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***** P I P E E X	POSIIPEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
located at:	
county:	
hagin street num:	map num:
begin street num:	end Street num:
between:	<u> </u>
and:	· ·
exposure type:	
material: pipe cond: corrosio	n: pits code: intrnl corr:
ctg cond: ctg type: ftg exps	d:in mtl rmv:
year installed: num existing cla	mps: pipe size code:
corr contrl type:	
num clamps installed: number and	des installed: op press:
pipe to soil reading: volts sur	face cover:

jo num: 15-0845565-00 loc num: 8400 supervisor: 8410B PAGE: 08 of 08 job type: 558 job summary:RETIRE 7595' OF LP CI AND P specific budget:

located at:
county: city: map num:
begin street num: end street num:
between:
and:
exposure type:
material: pipe cond: corrosion: pits code: intrnl corr:_
ctg cond: ctg type: ftg expsd: depth cvr:in mtl rmv:
year installed: num existing clamps: pipe size code:
corr contrl type:
num clamps installed: number anodes installed: op press:
pipe to soil reading: volts surface cover: