Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities
Docket No. DG 17-XXX
Attachment RGM-BRF-1
April 14, 2017
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Fiscal Year 2017 Cast Iron/Bare Steel Replacement Program Results Filing DG 17-XXX

April 14, 2017

Submitted to: New Hampshire Public Utilities Commission

Submitted by:

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

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INTRODUCTION

Pursuant to the settlement agreement approved by the New Hampshire Public Utilities Commission (the "Commission") as part of the National Grid plc/KeySpan Corporation merger proceeding in Docket No. DG 06-107 and the settlement agreement in Docket No. DG 11-040 (the "Settlement Agreement") approved by Order No. 25,370, Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities ("Liberty" or the "Company") submits the results of the Cast Iron Bare Steel ("CIBS") Replacement Program for fiscal year 2017 (April 1, 2016 to March 31, 2017). As required by the Settlement Agreement, the Company submits the following information in connection with this report and the prefiled Joint Testimony of Richard G. MacDonald and Brian R. Frost, and the Testimony of David Simek: (1) a report detailing the actual amount of capital investments made in accordance with implementing the CIBS program during fiscal year 2017 (Attachment RGM-BRF-2 to Joint MacDonald-Frost Testimony); (2) a calculation of the incremental revenue requirement associated with placing the capital investments into rate base above a base spending level of \$520,965 (Attachment DBS-1 to Simek Testimony); (3) a description of variances between actual results and the original plan, and (4) a request for a permanent increase in base distribution delivery rates in the amount of \$694,182 effective for usage on and after July 1, 2017. In addition, this report and Mr. Simek's Testimony will provide an update on the status of pending road degradation fee litigation between Liberty and the cities of Concord and Manchester, a discussion of Liberty's treatment of the Concord and Manchester road degradation fees in this filing, and a description of the repairs tax deduction for which CIBS projects are eligible.

SECTION 1: ACTUAL CAPITAL EXPENDITURES

Actual capital expenditures incurred during implementation of the CIBS program for fiscal

year 2017 are detailed in Attachment RGM-BRF-2 to the MacDonald-Frost Testimony. Through

a series of technical sessions that began in 2008, the Commission Staff and the Company have

agreed that the capital investment amounts to be included for recovery under CIBS may include

all prudently incurred direct and indirect¹ costs associated with: (i) replacement or abandonment²

of cast iron and bare steel mains, including replacement of existing pipe with replacement pipe of

the same size³, with recovery for the costs of "upsizing" the pipe allowed only when specifically

justified;⁴ (ii) replacement or abandonment of cast iron or bare steel service lines directly

connected to bare steel or cast iron main replacement projects; and (iii) tie over of connected

service lines not replaced or abandoned as part of a cast iron bare steel main replacement project.

Categories of costs that may not be included for recovery under CIBS include: (i)

replacement or abandonment of plastic main; (ii) replacement or abandonment of coated steel

main, regardless of vintage, unless approved by the Safety Division of the Commission; (iii)

replacement, abandonment, or reconnecting of plastic or coated steel services that were connected

to existing cast iron or bare steel main replacement projects; (iv) the differential in cost to replace

existing cast iron or bare steel mains with pipe of a diameter that is greater than the existing main

¹ Indirect costs mean overheads such as pension, OPEB's and other fringe benefits, payroll taxes, material handling costs and other general & administrative expenses that are loaded on all labor and material transactions. Categories of costs that may not be included for recovery under the plan include costs related to CIBS planning (other than

normal engineering and project planning), reporting and filing.

² For purposes of ii and iii, abandonments such as mains that are not servicing a customer via a service will not be

allowed. Other abandonments will be considered by Staff on a case by case basis.

³ 3-inch pipes, which are no longer standard size, will be routinely replaced with 4-inch pipes.

⁴ See Settlement Agreement in DG 11-040, Attachment J, section (20) n.

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and the cost to replace that main with a pipe that is larger than the existing main, unless specifically

justified; (v) relocation of customer meters from inside to outside; (vi) random cast iron or bare

steel service replacements not connected to a cast iron or bare steel main replacement project; (vii)

carryover costs in aggregate exceeding 5% of the approved estimated total expenditures under the

CIBS program for the construction year, unless approved by the Safety Division; and (viii)

replacements made under the Cast Iron Encroachment Policy are not eligible for accelerated rate

recovery in the Cast Iron/Bare Steel Program unless a special circumstance is approved by the

Safety Division.

On January 15, 2016, the Company made its proposed FY 2017 CIBS program filing with

the Commission. On April 28, 2016, the filing was reviewed with Staff for project selection and

scope. The Company also responded to several sets of discovery requests from Staff and OCA in

relation to the FY 2017 CIBS program filing.

The FY 2016 carryover costs that were captured within the FY 2017 program totaled

585,800. According to the Settlement Agreement in DG 11-040, Attachment J, section

20(d)(2.7), "carryover costs in aggregate exceeding 5% of the approved estimated total

expenditures under the CIBS program for the construction year, unless approved by the Safety

Division." The estimated total cost associated with completed FY 2016 projects is \$10,756,481,

resulting in a 5% cap of \$537,824 allowable carryover cost. Therefore, the differential amount of

\$47,976 requires approval from the Safety Division for inclusion into the rate recovery calculation.

The Company is requesting such approval as part of this filing.

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Line 54 column BB of Attachment RGM-BRF-2 shows the actual recoverable expenditures

of the FY 2016 projects, totaling \$6,461,916. After removing from the actual expenditures the

CIBS base amount of \$520,965 in accordance with the terms of the Settlement Agreement, the

total incremental expenditures to be included in rate base is \$5,940,952. Appendix A to this report

is the Condition Bare Steel Main Replacement Program – Sample Analysis Report for FY 2017.

This report contains photographs and descriptions of various pipe segments removed and

catalogued as part of the FY 2017 CIBS program.

SECTION 2: CALCULATIONS OF INCREMENTAL REVENUE REQUIREMENT

In this filing, Liberty is seeking recovery in rates of the incremental revenue requirement

associated with an additional \$5,940,952 of CIBS recoverable capital investments. As set forth in

Attachment DBS-1, page 1 to Mr. Simek's Testimony, the revenue requirement associated with

the CIBS cumulative capital expenditures is \$2,764,057 (line 35(i)) with a corresponding revenue

deficiency of \$694,182 (line 39 (i)). Consistent with prior delivery rate increases for the CIBS

program, the Company proposes to apply the increase pro rata across all customer classes.

Attachment DBS-1, page 4 to Mr. Simek's Testimony also indicates the annual bill impacts for an

average residential customer and commercial customers in rate classes G-41, G-42 and G-52.

Attachment DBS-2 is a computation of the cumulative revenue requirement associated with the

CIBS program since its inception in FY 2009.

SECTION 3: DIFFERENCES BETWEEN INITIAL ESTIMATED EXPENDITURES AND

FISCAL YEAR-END ESTIMAED EXPENDITURES

The Company's FY 2017 CIBS Plan provided for the replacement or abandonment of

10.83 miles of cast iron and bare steel pipe at an estimated cost of \$10,472,399, (excluding the

City of Manchester degradation fees). As shown on Attachment RGM-BRF-2 (line 44 column AG), the Company eliminated 10.26 miles of cast iron and bare steel at a cost of \$9,795,922 (line 43, column BI), excluding the City of Manchester degradation fees. A reconciliation of the total costs to the total recoverable costs is shown in the table below:

		Attachment RGM-BRF-2
		<u>Reference</u>
Actual Loaded Costs (excl. Manchester	\$9,795,922	line 43, column BI
degradation fees)		
FY 2016 allowable carry-over costs	\$537,824	line 52, column BB
FY 2016 remaining carry-over costs	\$47,976	line 53, column BB
Less: Expected FY 2017 carry-over costs	-\$2,301,960	line 43, column BD
Non-recoverable main costs	-\$267,495	line 43, column AX
Non-recoverable service costs	-\$1,350,350	line 43, column AY
Total Recoverable Costs	\$6,461,916	line 54, column BB

Details of the variances between estimated and actual costs by project are shown in Attachment RGM-BRF-2 columns BE through BK.

SECTION 4: STATUS OF THE PENDING LITIGATION BETWEEN LIBERTY AND THE CITIES OF CONCORD AND MANCHESTER

On June 15, 2010, National Grid filed an action in Hillsborough County Superior Court against the City of Manchester seeking an injunction against enforcement of regulations concerning street opening permit fees ("degradation fees"), as well as a request for a declaratory judgment invalidating such fees. The matter was docketed as NO 216-2010-EQ 001722. Similarly, on June 29, 2010, National Grid filed an action in Merrimack County Superior Court against the City of Concord seeking an injunction against enforcement of its degradation fee regulations, as well as a request for a declaratory judgment invalidating such fees. The matter was docketed as NO 217-2010-CV-00402. On April 6, 2011 the Company filed a motion for summary judgment

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in the Concord matter, and filed a motion for summary judgment in the Manchester matter on May

6, 2011.

On August 25, 2011, the Merrimack County Superior Court granted summary judgment to

National Grid on the basis that the degradation fees at issue are pre-empted by state law. The City

of Concord subsequently appealed that decision to the New Hampshire Supreme Court, which held

that the City ordinance is not preempted by State law. The Supreme Court concluded that there

was a factual dispute between EnergyNorth and the City regarding whether patching an excavated

paved road with new pavement diminishes or restores the road's original life expectancy. The

case was remanded to Superior Court for trial, which was completed in May 2015. The trial court

issued an order in July 2015, which struck down the penalty provisions in each ordinance for

excavating new pavement, but otherwise upheld the ordinances. Both parties appealed to the New

Hampshire Supreme Court. The parties attempted mediation in January 2016, but were

unsuccessful. In November 2016 the Supreme Court heard arguments regarding the case. The

Company expects to receive a decision regarding this case before the summer of 2017.

SECTION 5: TREATMENT OF CONCORD AND MANCHESTER DEGRADATION

FEES

Liberty agreed to pay degradation fees to the City of Concord under protest while the

litigation and appeal are pending. The City of Manchester agreed to allow Liberty to refrain from

paying the fees, subject to the issuance of bonds in sufficient amount to pay any outstanding fees.

Although Liberty has not been paying the Manchester degradation fees, it has been accruing the

costs in its books and records. The FY2017 CIBS program recoverable costs are exclusive of the

Manchester degradation fees. For the FY2018 program, Manchester degradation fees will also be excluded from the recoverable estimated and actual costs.

A summary of degradation fees included for recovery as part of the CIBS program costs is as follows:

<u>Period</u>	City of Concord	City of Manchester	<u>Total</u>
Fiscal 2011	\$19,856	\$275,035	\$294,891
Fiscal 2012	\$37,960	\$39,885	\$77,845
Fiscal 2013	\$9,747	\$382,335	\$392,082
Fiscal 2014	\$48,350	-0-	(1) \$48,350
Fiscal 2015	\$75,541	-0-	(1) \$75,541
Fiscal 2016	\$129,773	-0-	(1) \$129,773
Fiscal 2017	\$125,308	-0-	(1) \$125,308
Total	\$ <u>446,535</u>	<u>\$697,255</u>	\$ <u>1,143,790</u>

⁽¹⁾ Excludes FY 2014 through FY 2017 accrued Manchester degradation fees in the amounts of \$246,449, \$236,710, \$202,250 and \$512,650, respectively from the calculation of the revenue requirement.

Upon a successful outcome of the litigation, the Company will refund the revenue previously collected in revenue requirement calculations. Attachment DBS-3 to Mr. Simek's Testimony shows an estimated calculation of this amount. Currently, the Company would need to return approximately \$122,819 to customers as shown on Page 1, Line 32(b). This is based on the assumption that the litigation will be conclusively resolved before the filing of the FY 2018 revenue requirement. It is estimated that the Concord and Manchester degradation fees to be incurred during the FY 2018 construction season will be \$245,140 and \$1,011,640, respectively.

SECTION 6: TAX DEDUCTION FOR REPAIR EXPENSES

In 2009, the Internal Revenue Service issued guidance, under Internal Revenue Code Section 162, regarding the eligibility of certain repair and maintenance expenses for an immediate deduction for income tax purposes, but capitalized by the Company for book purposes. This tax deduction has the effect of increasing deferred taxes and lowering the revenue requirement that customers will pay under the CIBS program. Repairs resulting in the replacement of less than 20 percent of an original unit of property qualify for a repairs tax deduction. A gas company's gas subsystem is considered a "unit of property" for the purposes of the repairs tax deduction. As explained in Mr. Simek's Testimony, projects included in the CIBS program are expected to qualify as repairs; thus, when computing the revenue requirement, the Company reflects a tax deductibility of 100 percent for all CIBS jobs.

SECTION 7: CAST IRON/BARE STEEL REPLACED UNDER MUNICIPAL PROJECTS AND THE CAST IRON ENCROACHMENT POLICY

In FY 2016, the Company replaced approximately 30 feet of cast iron through the Cast Iron Encroachment Policy and approximately 15,663 feet of cast iron and bare steel through municipal projects, totaling to approximately 2.97 miles of replacement. Added to the 10.26 miles replaced under the CIBS program, this amounts to approximately 13.23 miles of cast iron and bare steel replacement in FY 2017. A yearly summary of cast iron and bare steel replacement through municipal projects and encroachments can be seen below:

	Footage of Cast Iron	/Bare Steel Replaced
Fiscal Year	Municipal Projects	Encroachments
2008-2009	10,980	171
2009-2010	19,920	28
2010-2011	11,649	62
2011-2012	17,791	40
2012-2013	12,524	53
2013-2014	19,118	55
2014-2015	10,587	169
2015-2016	12,206	248
2016-2017	15,663	30
Total Footage	130,438	856
Total Mileage	24.70	0.16

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APPENDIX A: FY 2017 CONDITION BARE STEEL MAIN REPLACEMENT PROGRAM – SAMPLE ANALYSIS

Over the course of the FY 2017 construction season, bare steel pipe and soil samples were collected from the CIBS main replacement program. Each sample was sand blasted to exposed the pipe down to the bare metal and will be provided for visual representation. Soil samples were taken as close to the pipe samples as possible in an effort to retrieve native soil. Chemical testing was conducted to determine the existing pH, chloride, sulfide and sulfate levels. Microbiological testing for Acid Producing Bacteria (APB) and Sulfate Reducing Bacteria (SRB) were performed as well. Both chemical and microbiological tests were conducted as soon as possible. The table below shows the threshold of bacteria levels based on the results of bacterial colonies per milliliter.

Number of Positive Bottles	Bacteria Colonies/ml	Reporting Value Colonies/ml	Bacteria Level
0	< 1 - 10	< 10	Low
1	10	10	Low
2	10 - 100	100	Medium
3	100 - 1000	1,000	Medium
4	1,000 - 10,000	10,000	High
5	> 10,000 - 100,000	100,000	High

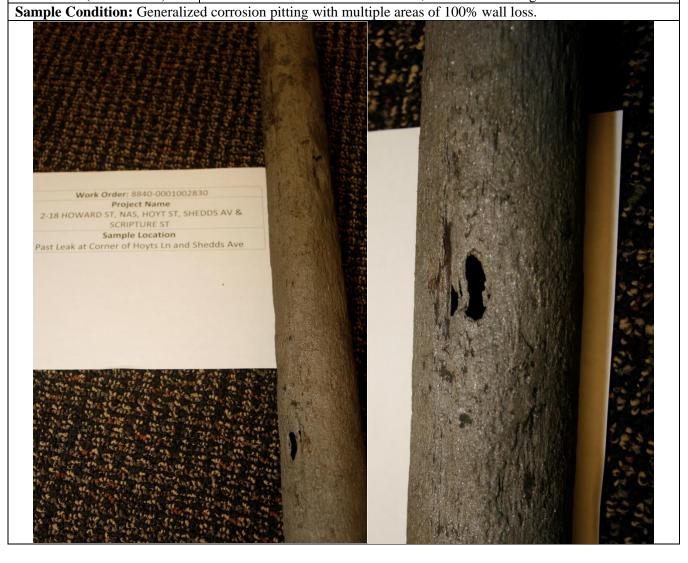
Positive APB and SRB vials with corresponding reporting values.

Details and testing results for the six pipe and soil samples collected are summarized on the following pages:

Work Order & Project:	8840-0001004986 22-50 BRIDGE ST,	NAS, E HOLLIS, HOBBS, CHASE,						
	CROWN							
Sample Location:	Near Past Leak in Front of 8-10 Hobbs	Ave						
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pres	ssure, Installed in 1904						
Soil Sample Details:	Medium Brown Sandy Soil							
Test Date:	10/25/2016	·						
	Soil Testing Results							
	Quantitative Value	Qualitative Value						
pH:	6	-						
pH: Chloride (mg/l):	6 0	- None						
1	· ·	None Not Appreciably Present						
Chloride (mg/l):	0							
Chloride (mg/l): Sulfide (mg/l):	0 < 5	Not Appreciably Present						

Work Order: 8840-00010043866
Project Name
22-50 BRIDGE 5T, NAS, E HOLIUS, HOBBS, CHASE, CROWN
Sample Location
Past Leak in Front of 8-10 Hobbs Ave

Work Order & Project:	8840-0001002830 2-18 HOWARD ST,	NAS, HOYT ST, SHEDDS AV &						
	SCRIPTURE ST							
Sample Location:	Past Leak at Corner of Hoyts Ln and Shedds Ave							
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pres	sure, Installed in 1912						
Soil Sample Details:	Medium Brown Sandy Soil							
Test Date:	6/22/2016							
	Soil Testing Results							
	Quantitative Value	Qualitative Value						
pH:	6	-						
Chloride (mg/l):	0	None						
Sulfide (mg/l):	< 5	Not Appreciably Present						
Sulfate (mg/l):	200-400	Low						
ADD T LOCAL 1 (1)	Unable to Obtain Ea	ror with Testing Kit						
APB Level (Colonies/ml):	Unable to Obtain, El	ioi with resting Kit						

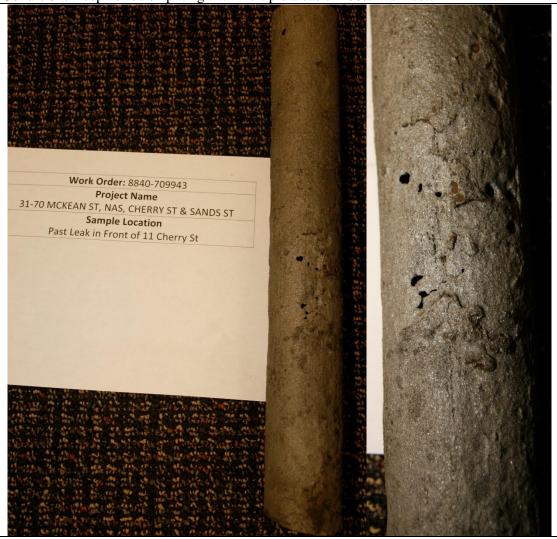


Work Order & Project:	8840-761258 2-15 COLUMBIA AV, N	IAS, WEBSTER ST & BARTLETT
	AV	
Sample Location:	Past Leak in Front of 2 Columbia Ave	
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pres	ssure, Installed in 1915
Soil Sample Details:	Medium Brown Sandy Soil	
Test Date:	2/2/2017	
	Soil Testing Results	
	Quantitative Value	Qualitative Value
pH:	6	-
pH: Chloride (mg/l):	6 0	- None
•	*	None Not Appreciably Present
Chloride (mg/l):	0	
Chloride (mg/l): Sulfide (mg/l):	0 < 5	Not Appreciably Present

Work Order 8840-761258
Project Name
2-15 COLUMBIA AV, NAS, WESTER ST & BARTLETT AV
Sample Gescion
Past Ceak in Front of 2 Columbia Ave

Work Order & Project:	8840-709943 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST						
Sample Location:	Past Leak in Front of 11 Cherry St						
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pressure, Installed in 1923						
Soil Sample Details:	Light Brown Sandy Soil						
Test Date:							
	Soil Testing Results						
	Quantitative Value	Qualitative Value					
pH:	6	-					
Chloride (mg/l):	0	None					
Sulfide (mg/l):	< 5	Not Appreciably Present					
Sulfate (mg/l):	400	Low-Medium					
APB Level (Colonies/ml):	100,000	High					
SRB Level (Colonies/ml):	1,000	Medium					

Sample Condition: Deep corrosion pitting with multiple areas of 100% wall loss.



Work Order & Project:	8840-0001004987 5-18 EDWIN ST, N	VAS				
Sample Location:	Past Leak Between Houses 6 and 14 on Edwin St					
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pre-	essure, Installed in 1961				
Soil Sample Details:	Medium Brown Sandy Soil					
Test Date:	8/12/2016					
	Soil Testing Results					
	Quantitative Value	Qualitative Value				
pH:	6	-				
Chloride (mg/l):	0	None				
Sulfide (mg/l):	< 5	Not Appreciably Present				
Sulfate (mg/l):	400	Low-Medium				
APB Level (Colonies/ml):	1000	Medium				
SRB Level (Colonies/ml):	< 10	Low				

Sample Condition: Deep corrosion pitting with one area of 100% wall loss.



Work Order & Project:	8840-0001006605 2-16 STEVENS ST	T, NAS				
Sample Location:	Past Leak at Intersection of Stevens St and Morton St					
Pipe Sample Details:	2" Bare Steel, Standard Wall, Low Pressure, Installed in					
Soil Sample Details:	Light Brown Sandy Soil					
Test Date:	2/17/2017					
	Soil Testing Results					
	Quantitative Value	Qualitative Value				
pH:	7	-				
Chloride (mg/l):	0	None				
Sulfide (mg/l):	< 5	Not Appreciably Present				
Sulfate (mg/l):	< 200	Low				
APB Level (Colonies/ml):	100,000	High				
SRB Level (Colonies/ml):	100 000	High				

Sample Condition: Widespread generalized corrosion with large areas of 100% wall loss.



Conclusions/Recommendations:

- (1) Bare steel cutouts locations should continue to be identified on designs and reference dimensions to leak repair locations. This is to ensure a piece of poor condition bare steel pipe is collected.
- (2) A representative should be on site to verify that the pipe sample is acceptable and that the soil taken is valid for analysis. The soil sample should be tested as soon as possible. Testing the soil when it is "fresh" will provide more accurate results as it relates to the existing chemical and microbiological conditions at each location.
- (3) The criteria used for the segment selection process should continue to include references to deep pitting and/or poor condition. This data has proven to be useful and indicative of pipe that is in need of replacement.
- (4) Special attention should be paid to locations where bare steel segments are to remain in service and the pH is highly acidic or highly alkaline.
- (5) Special attention should be paid to locations where bare steel segments are to remain in service and high levels of bacteria are recorded.
- (6) MSES Consultants, Inc. Corrosion Products Division recommended incorporating results from sulfide and sulfate levels as it relates to the aggressiveness of potential corrosion. Special attention should be paid to locations where bare steel segments are to remain in service and high levels sulfide and/or sulfate are recorded.

A B	_	D	F	F	-	н	,		, v	1 1 1	4 N	0 0		_ n	S T	- 11	W	14/	V	Y 7	Page 1 of 3
	С	U	E	F	G	н	I		J K	L N	M N	O P	Q	R	S T	U	V	W	X	Y Z	AA
iority Work Order#	Town Code	Street	From	То	Materia		Exst Diam G) (Inches		YOI Relay Diameter	Bare Steel Coated Services Serv	d Steel Plastic Services		New Main Footage	Aband Footage	tal Footage Cost Estimate (Direct)	Cost Estimate (Loaded)	Estimated Degradation Fee	Total Cost Estimate (Direct)	Total Cost Estimate (Loaded)	Loading % (Loaded)	Comments
										NORTHERN DIVISIO	N										
8840-0001004983	CCD	298-365 S MAIN ST, CCD, HOLLY ST & WILFRED AV	WIGGIN ST	WATSON CT	CI	LP	4 & 6	6 18	99/1954/195 8 6" LP PL IN S MAIN ST, 4" LP PL IN HOLLY ST & WILFRED AV	17	3 14	34 2,600			2,600 \$344,302	\$447,984	\$21,250	\$365,552	\$469,234		City paving 2017, could see reduction in final restoration cost. 3 Broken Mains and so Leaks in relay footage.
8840-0001001272	CCD	12-29 ROCKLAND RD, CCD	AUBURN ST	EOM AT #12	BS	LP	2		1963 4" LP PL	4	2	6 525			525 \$55,096	\$71,356	\$0	\$55,096	\$71,356	30% \$135.92	City paving and water main replacement Spring 2016. Service record indicates main condition.
8840-0001005153	CCD	7-31 NORWICH ST, CCD, TRINITY ST & ADAMS ST	SPRINGFIELD ST	CONANT ST	CI	LP	6	1	1959/1968/ 1970 6" LP PL IN NORWICH & ADAMS, 4" LP PL IN TRINITY	7 1	1 11	19 2,050			2,050 \$255,079	\$328,939	\$22,000	\$277,079	\$350,939	27% \$160.46	2 Joint Leaks and 2 grade 2 active leaks within relay footage. Feed from a nearby LP & having problems with water in the main.
8840-642348	CCD	2-12 COURT ST, CCD, PITMAN ST & MONTGOMERY ST	N MAIN ST	N STATE ST	CI	LP	3	:	1892/1893 2" HP PL IN COURT ST, ABANDON MAINS IN MONTGOMERY & PITMAN	3	7	10 550		660	1,210 \$109,990	\$141,683	\$5,500	\$115,490	\$147,183		2 Joint Leaks on relay footage. Poor pressure area. 2 Water Main breaks in front of # CI main encroached. City may reclaim road and see reduction in final restoration. Als service requests for State buildings that can't be supported on LP main.
5 8840-925933	CCD	121-199 DUNBARTON RD, CCD	#121	EOM AT #199	CI	LP to 60	4		1900 2" & 4" HP PL	1	14	15 1,840			1,840 \$120,548	\$159,228	\$0	\$120,548	\$159,228	32% \$86.54	Poor pressure problems due water intrusion. St. Paul's School installing new sewer ar
8840-0001004985	CCD	2-19 MOORELAND AV, CCD, MIDLAND, MADISON & MEADOW	SOUTH ST	EOM AT #19	CI	LP	4 & 6		1955/1961/ 1962/1969	11 8	3 12	31 2,400			2,400 \$314,868	\$409,837	\$27,500	\$342,368	\$437,337	28% \$170.77	Todu. 2 Broken Mains, several Joint Leaks and grade 2 & 3 active leak with in relay footage. Mechanical bell joints. Main in bad shape and graphitization noted.
7 8840-0001004984	CCD	2-38 HIGHLAND ST, CCD, BRADLEY, ALBIN, MARTIN & JACKSON	RUMFORD ST	CHURCH ST	CI	LP to 60	2 & 4	4 19	27/1934/195 5/1982 2" HP PL	26 1	1 19	46 2,505			2,505 \$366,722	\$481,446	\$30,000	\$396,722	\$511,446	29% \$192.19	3 Broken Mains and several Joint Leaks with in relay footage. Deep pitting noted.
8 8840-0001005085	CCD	1-40 RUMFORD ST, CCD	SCHOOL ST	PLEASANT ST	CI	LP	4		1899 4" LP PL	9	10	19 1,225			1,225 \$188,093	\$243,593	\$14,500	\$202,593	\$258,093	27% \$198.85	1 Broken Main and several Joint Leaks with in relay footage. School nearby.
9 8840-0001005086	CCD	1-31 BROAD AV, CCD & BOW ST	BROADWAY	BOW ST	CI	LP	4		1931 4" LP PL	7	14	21 1,240			1,240 \$167,705	\$216,185	\$13,500	\$181,205	\$229,685	27% \$174.34	Incremental project. 2 Broken Mains within relay footage.
		FOREST ST, CCD	AUBURN ST	VALLEY ST	CI	LP	4		1924/1950 4" LP PL	6 1		12 810			810 \$120,532	\$159,530	\$8,980	\$129,512	\$168,510	30% \$196.95	Incremental project 1 Broken Main and 2 Joint Leaks Bossibly affected by 2017 see
		N MAIN ST. CCD	BOUTON ST	HORSESHOE POND	CI CI	LP	-		1893 6" LP PL	6		11 665				\$139,330				30% \$217.28	replacement.
		.,					4	_			5					, ,	\$8,250	\$117,528	\$152,739		Incremental project. Low pressure issues experienced by the customers on Wheater
12 8840-0001007306	CCD	WHEATON AV, CCD	DOWNING ST	EOM	BS	LP to 60	1.25	5	1900 2" HP PL	4		4 220		-	220 \$31,659	\$42,239	\$2,200	\$33,859	\$44,439	31% \$192.00	
hern Division Totals										101 1	4 113	228 16,630 Mileage 3.15	0.00		17,290 \$2,183,872 3.27	\$2,846,510	\$153,680	\$2,337,552	\$3,000,190	28% \$180.41	
										CENTRAL DIVISION											
8840-925692	MNC	197-368 SILVER ST, MNC, BEECH ST & SOMERVILLE ST	UNION ST	#368	CI	LP	4 & 6	6	1913/1914/ 1918 4" LP PL	25 6	5 10	41 2,200		T	2,200 \$337,930	\$431,644	\$81,000	\$418,930	\$512,644		City paving 2016, could see reduction in final restoration cost. 5 Broken Mains in rel and several Joint Leaks. Poor condition noted.
2 8840-0001005060	MNC	683-853 HALL ST, MNC, ORANGE, BELMONT, MEAD & RESERVOIR	BRIDGE ST	MYRTLE ST	CI	LP	4		95/1896/191 6/1925 4" LP PL	22 3	3 29	54 2,800			2,800 \$411,948	\$524,287	\$100,000	\$511,948	\$624,287	22% \$222.96	4 Broken Mains and several Joint leaks within relay footage. School nearby.
3 8840-0001005056	MNC	509-672 LAKE AV, MNC & KENNEY ST	BEACON ST	TARRYTOWN RD	CI	LP	4	1	1895/1915/ A" I D DI	22 6	5 27	55 2,550			2,550 \$409,744	\$524,803	\$80,000	\$489,744	\$604,803	23% \$237.18	4 Broken Mains and several Joint leaks within relay footage. Deep pitting noted.
4 8840-925724	MNC	400-429 WILSON ST, MNC & CEDAR ST	AUBURN ST	SPRUCE ST	CI	LP	4 & 6	6	1933	12 1	1 4	17 1,050			1,050 \$178,121	\$228,568	\$40,650	\$218,771	\$269,218	23% \$256.40	City paving 2016, could see reduction in final restoration cost. 1 Broken Main and 6 J
		660-789 HARVARD ST, MNC & HALL ST	SILVER ST	TAYLOR ST	CI	LP to 60	4 4 4 4		1914/1923 2" HP PL	8 1	7	16 850		600	1,450 \$153,314	\$196,992	\$35,500	\$188,814	\$232,492		within relay footage. School nearby. City paving 2016, could see reduction in final restoration cost. 1 Broken Main and 2 within relay footage. Deep pitting noted. Church nearby.
					-		-				. ,			000							3 Broken Mains and 2 Joint leaks within relay footage. Main should be replaced not
		3-116 FOREST ST, MNC & BABEL ST	SYLVESTER ST	BISMARK ST	CI	LP	4		1927 4" LP PL	10	4	14 950			950 \$140,524	\$181,708	\$34,500	\$175,024	\$216,208		2 Broken Mains within relay factors. Door pitting noted
7 8840-925633	MNC	111-153 RUSSELL ST, MNC	HARRISON ST	BLODGET ST	CI	LP	4		1898 4" LP PL	3 2	2 3	8 525			525 \$75,384	\$97,796	\$18,000	\$93,384	\$115,796	24% \$220.56	
8 8840-0001005059	MNC	217-274 BLODGET ST, MNC, MAPLE ST & LODGE ST	ASH ST	OAK ST	CI	LP	4 & 6	6 1	1899/1914/ 1917 4" LP PL IN BLODGET ST & LODGE ST, 6" LP PL IN MAPLE ST	10	1 12	26 1,475			1,475 \$238,582	\$303,600	\$52,000	\$290,582	\$355,600	22% \$241.08	City paving 2017, could see reduction in final restoration cost. 3 Broken Mains and so leaks within relay footage. Poor condition and deep pitting noted.
9 8840-642286	MNC	462-610 SPRUCE ST, MNC, CANTON	BEACON ST	TARRYTOWN RD	CI	LP	4		00/1925/192 6" LP PL Spruce St (Beacon to Canton), 4" LP PL Spruce St (Canton to EOM) & 4"	'LP PL 19 5	5 21	45 2,360			2,360 \$380,121	\$482,762	\$84,900	\$465,021	\$567,662	22% \$240.53	Incremental project. 2 Broken Mains & 7Joint leaks within relay footage. Deep pittin
	+	508-559 CENTRAL ST, MNC	CASS ST	BEACON ST	CI	LP	4		4/1904 Canton St 1898 4" LP PL	5 1	1 9	15 680			680 \$105,490	\$139,752	\$26,750	\$132,240	\$166,502		comments. Incremental project.
7							_							coo			,	, , , ,			
ntral Division Totals			CA3331							136 2	9 126	291 15,440	0	600	16,040 \$1,945,547	\$2,489,398	\$553,300	\$2,984,459	\$3,665,213	23% \$237.38	
ral Division Totals			CA3331									291 15,440 Mileage 2.92	0.00		16,040 \$1,945,547 3.04	\$2,489,398	\$553,300	\$2,984,459	\$3,665,213	1	
				WATCONCT	20.8.0	100000	2.25.41	190	02/1926/194	SOUTHERN DIVISION	N	Mileage 2.92		0.11	3.04		\$553,300			23% \$237.38	
1 8840-0001004988	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO	HARDY ST	WATSON ST	BS & C				02/1926/194 7/1956 2" HP PL	SOUTHERN DIVISION	N 1 25	Mileage 2.92 57 3,700		1,160	3.04 4,860 \$621,105	\$817,294	\$553,300	\$621,105	\$817,294	23% \$237.38 32% \$220.89	City paving 2016, could see reduction in final restoration cost. Several corrosion leak noted in really bad shape.
1 8840-0001004988 2 8840-0001004986	NAS :	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN	HARDY ST TEMPLE ST	FERRY ST	CI & BS	LP to 60	2, 4 & (6 1	02/1926/194 7/1956 1901/1904/ 1924/1970	21 1 26 2	N 1 25 0 17	Mileage 2.92 57 3,700 63 3,170		1,160	3.04 4,860 \$621,105 6,855 \$640,078	\$817,294	\$553,300	\$621,105 \$640,078	\$817,294 \$824,978	23% \$237.38 32% \$220.89 29% \$260.25	City paving 2016, could see reduction in final restoration cost. Several corrosion leak noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone d
1 8840-0001004988 2 8840-0001004986	NAS :	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO	HARDY ST		CI & BS	LP to 60		6 1	02/1926/194 7/1956 1901/1904/ 19124/1970 1918/1934 4" LP PL 1918/1934	SOUTHERN DIVISION	N 1 25 0 17	Mileage 2.92 57 3,700		1,160	3.04 4,860 \$621,105	\$817,294	\$553,300	\$621,105	\$817,294	23% \$237.38 32% \$220.89 29% \$260.25 32% \$239.52	City paving 2016, could see reduction in final restoration cost. Several corrosion leak noted in really bad shape. 3 Broken Mains in relay flootage and several joint leaks. 1 Grade 3 leak. Telephone di City paving 2017, could see reduction in final restoration cost. Corrosion leak and sev leaks within the relay footage.
1 8840-0001004988 2 8840-0001004986	NAS :	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN	HARDY ST TEMPLE ST	FERRY ST	CI & BS	LP to 60	2, 4 & (4 1	02/1926/194 7/1956 1901/1904/ 1924/1907 1910/1913/ 1910/1913/ 1910/1913/	21 1 26 2	N 1 25 0 17	Mileage 2.92 57 3,700 63 3,170		1,160	3.04 4,860 \$621,105 6,855 \$640,078	\$817,294	\$553,300	\$621,105 \$640,078	\$817,294 \$824,978	23% \$237.38 32% \$220.89 29% \$260.25 32% \$239.52	City paving 2016, could see reduction in final restoration cost. Several corrosion leaks noted in really bad shape. 3 Broken Mains in relayl botage and several joint leaks. 1 Grade 3 leak. Telephone du City paving 2017, cayl does reduction in final restoration cost. Corrosion leak and sev leaks within the relay footage. BS main noted poor condition in Shedds Av. 2016 sewer and water main replacement
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065	NAS :	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS	HARDY ST TEMPLE ST PINE ST	FERRY ST WOODWARD AV	CI & BS / CI & BS BS & C	LP to 60	2, 4 & (4 1	02/1926/194 7/1956 1901/1904/ 1924/1907 1910/1913/ 1918/1934	21 1 26 2 32 5	N 1 25 0 17 5 7 16	Mileage 2.92 57 3,700 63 3,170 44 2,500		1,160	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219	\$817,294 \$824,978 \$598,807	\$553,300	\$621,105 \$640,078 \$455,219	\$817,294 \$824,978 \$598,807	32% \$220.89 29% \$260.25 32% \$239.52 33% \$246.69 32% \$226.96	City paving 2016, could see reduction in final restoration cost. Several corrosion leak noted in really bad shape. 3 Broken Mains in relay flootage and several joint leaks. 1 Grade 3 leak. Telephone d City paving 2017, could see reduction in final restoration cost. Corrosion leak and see leaks within the relay footage. 85 main noted poor condition in Shedds Av. 2016 sewer and water main replacemen 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in none condition on the Church pearby.
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST	FERRY ST WOODWARD AV GORMAN AV	CI & BS / CI & BS BS & C	LP to 60 LP LP to 60	2, 4 & 0	4 1	02/1926/194 7/1956 1901/1904/ 1902/1907 1910/1913/ 1910/1913/ 1912/1924/ 1912/1924/ 2* HP PL	21 1 26 2 32 5	N 1 25 0 17 5 7 16 3 7	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925		1,160	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264	\$817,294 \$824,978 \$598,807 \$394,027	\$553,300	\$621,105 \$640,078 \$455,219 \$297,264	\$817,294 \$824,978 \$598,807 \$394,027	32% \$220.89 29% \$260.25 32% \$239.52 33% \$204.69 32% \$226.96	City paving 2016, could see reduction in final restoration cost. Several corrosion leal noted in really bad shape. 3 Broken Mains in relay flootage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay flootage. BS main noted poor condition in shedds Av. 2016 sewer and water main replacement of the condition of the country of t
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 1 8840-0001002830 5 8840-761258 5 8840-0001005054	NAS NAS NAS NAS NAS NAS	120-165 AMMERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST	CI & BS / CI & BS BS & C	LP to 60 LP LP to 60 LP to 60 LP to 60 LP to 60	2, 4 & (2, 3 & (2 & 4 2 & 4	4 1 1 4 6 1 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	02/1926/194 2* HP PL 7/1956 1901/1904 1924/1970 1918/1934 1918/1934 1918/1934 2* HP PL 1918/1934 2* HP PL 1918/1934 1918/1934 2* HP PL 1918/1934 2* HP PL 1918/1934 3* HP PL 1918/1934 3* HP PL	21	N 1 25 0 17 5 7 16 3 7 3 10	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325		1,160	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187	\$553,300	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716	32% \$220.89 29% \$260.25 32% \$239.52 33% \$204.69 32% \$226.96	City paving 2016, could see reduction in final restoration cost. Several corrosion leal noted in really bad shape. 3 Broken Mains in relay flootage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replacement of the condition noted. Church nearby. 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra
1 8840-0001004988 2 8840-0001004986 3 8840-0001005055 4 8840-0001002830 5 8840-761258 6 8840-0001005054	NAS NAS NAS NAS NAS NAS NAS NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST	CI & BS / CI & BS BS & C T BS	LP to 60 LP	2, 4 & 0 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4	1 1 2 4 1 1 4 4 4 4 1 1 1 1 1 1 1 1 1 1	02/1926/194 7/1956 1901/1904/ 1924/1907 1910/1913/ 1918/1934 1913/1924/ 1912/1924/ 1913/1925 2" HP PL 1913/1925 6" LP PL in Orange & Lock, 4" LP PL in Granite	21 1 26 2 26 26 8 15 15 15 15 15 15 15	N 1 25 0 17 5 7 16 3 7 3 10 3 12	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660		1,160	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848	\$553,300	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848	32% \$220.89 29% \$260.25 32% \$239.52 33% \$204.69 32% \$226.96	City paving 2016, could see reduction in final restoration cost. Several corrosion leal noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay footage. BS main noted poor condition in Shedds Av. 2016 sewer and water main replacement of the corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition in leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted.
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 6 8840-0001005054 7 8840-709943 8 8840-0001004987	NAS NAS NAS NAS NAS NAS NAS NAS NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST	CI & BS / CI & BS BS & C T BS CI BS & C	LP to 60 LP	2, 4 & 0 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2* HP PL 1901/1904 1 1901/1904 2* HP PL 1902/1904 2* HP PL 1902/1903 2* HP PL 1912/1912 2* HP PL 1913 2* HP PL 1913 2* HP PL 1915 6* LP PL in Orange & Lock, 4* LP PL in Granite 198/1902/190 4* LP PL 1965 2* HP PL	21	N 1 25 0 17 5 7 16 3 7 3 10 3 12 2	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465	0.00	1,160	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166	\$553,300	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166	32% \$237.38 32% \$220.89 29% \$260.25 32% \$239.52 33% \$204.69 32% \$225.96 31% \$249.91 32% \$223.89 32% \$224.33	City paving 2016, could see reduction in final restoration cost. Several corrosion leal noted in really bad shape. 3 Broken Mains in relay flootage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay flootage. B8 main noted poor condition in sheds Av. 2016 sewer and water main replacement 5 corrosion leaks and 2 grade 2 active leaks within relay flootage. Deep pitting on mimalin in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay flootage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. 2 Corrosion leaks within relay flootage. Main noted in poor condition. School nearby.
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-001002830 5 8840-761258 6 8840-0001005054 7 8840-709943 8 8840-0001004987 9 8840-0001001270	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST	C1 & B5 & C	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	21	N 1 25 0 17 5 7 16 3 7 3 10 3 12 2 14 7	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465	0.00	1,160 3,685 690	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419	\$553,300	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419	32% \$220.89 29% \$260.25 32% \$239.25 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$223.89	City paving 2016, could see reduction in final restoration cost. Several corrosion leal noted in really bad shape. 3 Broken wing 2017, rosyl footage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, rosyl footage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, rosyl footage and several joint leaks within the relay footage. BS main noted poor condition in shedds Av. 2016 sewer and water main replacement of the control of
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 5 8840-0001005054 7 8840-709943 3 8840-0001004987 9 8840-0001001270 0 8840-0001006605	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST	C1 & B5 & C	6 LP to 60	2, 4 & 1 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2* HP PL 1901/1904 1 1901/1904 2* HP PL 1902/1904 2* HP PL 1902/1903 2* HP PL 1912/1912 2* HP PL 1913 2* HP PL 1913 2* HP PL 1915 6* LP PL in Orange & Lock, 4* LP PL in Granite 198/1902/190 4* LP PL 1965 2* HP PL	21	N 1 25 0 17 5 7 16 3 7 3 10 3 12 2 2 1 7 5 5 5	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435	35	1,160 3,685	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812	\$553,300	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419	32% \$237.38 29% \$220.89 29% \$260.25 32% \$239.52 33% \$204.69 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone is 3 Broken Mains in relay footage. 8 Smain noted poor condition in Shedds Av. 2016 sewer and water main replaceme is corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School nearb
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8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 5 8840-7001005054 7 8840-709943 3 8840-0001004987 9 8840-0001001270 0 8840-0001001270	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST	C1 & B5 & C	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 0 17 5 7 16 3 7 3 10 3 12 2 2 1 7 5 5 5	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47	35 35 0.01	1,160 3,685 690 5,535 1.05	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767		\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone City paving 2017, could see reduction in final restoration cost. Corrosion leak and s leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replacemed corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition in telas, within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extronolition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School neart. 1 Corrosion leak repair noted in poor condition. Indicated bare steel main is rested and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".
8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 5 8840-7001005054 7 8840-709943 3 8840-0001004987 9 8840-0001001270 0 8840-0001001270	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST	C1 & B5 & C	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 57,215 \$7,450,673	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767		\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone City paving 2017, could see reduction in final restoration cost. Corrosion leak and s leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replacement in poor condition noted. Church nearby. 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in ext condition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School neart 1 Corrosion leak repair noted in poor condition. Indicated bare steel main is rested and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".
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8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 5 8840-7001005054 7 8840-709943 8 8840-0001004987 9 8840-0001004987 10 8840-0001004987 11 8840-0001004987 12 CIBS Program Totals	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST	C1 & B5 / C1 & B5 B5 & C1 B5 & C1 B5 & C1 B5 & C1 B5 & C1	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 57,215 \$7,450,673	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767		\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone City paving 2017, could see reduction in final restoration cost. Corrosion leak and s leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replacemed corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition in telas, within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extronolition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School neart. 1 Corrosion leak repair noted in poor condition. Indicated bare steel main is rested and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".
8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 5 8840-7001005054 7 8840-709943 8 8840-0001004987 9 8840-0001004987 10 8840-0001004987 11 CIBS Program Totals 12 CIBS Program Totals	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9,54	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 \$77,215 \$7,450,673	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675	\$706,980	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replaceme 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School nearth 1 Corrosion leak repair noted in poor condition. Indicated bare steel main is rested and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 6 8840-0001005054 7 8840-709943 3 8840-000100297 0 8840-0001001270 0 8840-0001001270 17 CIBS Program Totals 17 CIBS Program Totals	NAS NAS NAS NAS NAS NAS CCCD CCCD CCCD	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST MAIN ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV WASHINGTON ST	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9.54	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 57,215 \$7,450,673 10.84 2,950 49,555 3,130 36,598	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675	\$706,980 \$36,100 \$12,500	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254 \$8,643,265 \$49,098	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone is 3 Broken Mains in relay footage. 8 Smain noted poor condition in Shedds Av. 2016 sewer and water main replaceme is corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School nearb
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 6 8840-761258 6 8840-7001005054 7 8840-709943 8 8840-0001001270 0 8840-0001001270 10 8840-0001001270 117 CIBS Program Totals **Totals** **Totals**	NAS NAS NAS NAS NAS CCCD CCCD CCCD CCCD	120-165 AMMERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST W HOLLIS ST MAIN ST SCHOOL ST WILSON ST NORWICH ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV WASHINGTON ST MOORELAND AV WILSON ST	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9,54 2,950 3,130 5,240 5,240	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 57,215 \$7,450,673 10.84 2,950 49,555 3,130 36,598 5,240 88,826	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675 \$64,422 \$47,577 \$115,473	\$706,980 \$36,100 \$12,500 \$52,450	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254 \$8,643,265 \$49,098 \$141,276	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699 \$100,522 \$60,077 \$167,923	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replaceme 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on m main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. Corrosion leaks within relay footage. Main noted in poor condition. School nearb
8840-0001004988 2 8840-0001004986 3 8840-0001005065 1 8840-0001002830 5 8840-761258 5 8840-761258 6 8840-0001005054 7 8840-709943 8 8840-000100270 0 8840-000100270 10 8840-000100605 hern Division Totals 17 CIBS Program Totals 14 EMS Program Totals 18 8840-0001002868 8840-0001002868 8840-0001002868 8840-0001002868	NAS NAS NAS NAS NAS NAS CCCD CCCD CCCD CCCD	120-165 AMMERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST WHOLLIS ST MAIN ST SCHOOL ST WILSON ST NORWICH ST PIERCE ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV WASHINGTON ST MOORELAND AV WILSON ST S STATE ST	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9,54 2,950 3,130 5,240 2,270	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 57,215 \$7,450,673 10.84 2,950 49,555 3,130 36,598 5,240 88,826 2,270 84,045	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675 \$44,575,77 \$115,473 \$109,258	\$36,100 \$12,500 \$52,450	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254 \$8,643,265 \$49,098 \$141,276 \$111,045	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699 \$100,522 \$60,077 \$167,923 \$136,258	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replaceme 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School nearth 1 Corrosion leak repair noted in poor condition. Indicated bare steel main is rested and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".
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1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 6 8840-0001005054 7 8840-709943 8 8840-0001001270 10 8840-0001001270 10 8840-0001001270 10 8840-0001002665 thern Division Totals 117 CIBS Program Totals 1217 CIBS Program Totals 124 8840-0001002867 8840-0001002868 8840-0001002668 8840-00010026615 8840-0001002615	NAS NAS NAS NAS NAS NAS CCCD CCCD CCCD CCCD	120-165 AMMERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST WHOLLIS ST MAIN ST SCHOOL ST WILSON ST NORWICH ST PIERCE ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV WASHINGTON ST MOORELAND AV WILSON ST S STATE ST	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9,54 2,950 3,130 5,240 2,270	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4.52 57,215 \$7,450,673 10.84 2,950 49,555 3,130 36,598 5,240 88,826 2,270 84,045	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675 \$44,575,77 \$115,473 \$109,258	\$706,980 \$36,100 \$12,500 \$27,000 \$82,820	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254 \$8,643,265 \$49,098 \$141,276 \$111,045	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699 \$100,522 \$60,077 \$167,923 \$136,258	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion lea noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone of City paving 2017, could see reduction in final restoration cost. Corrosion leak and se leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replaceme 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on m main in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. Corrosion leaks within relay footage. Main noted in poor condition. School nearb
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 6 8840-0001005054 7 8840-709943 8 8840-0001001270 0 8840-0001001270 10 8840-0001001270 117 CIBS Program Totals 117 CIBS Program Totals 118 8840-0001002867 8840-0001002867 8840-0001002868 8840-00010026615 8840-0001002615 8840-0001002615	NAS NAS NAS NAS NAS NAS CCCD CCCD CCCD CCCD	120-165 AMMERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST WHOLLIS ST MAIN ST SCHOOL ST WILSON ST NORWICH ST PIERCE ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV WASHINGTON ST MOORELAND AV WILSON ST S STATE ST	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9,54 2,950 3,130 5,240 2,270	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4,52 \$7,215 \$7,450,673 10.84 2,950 49,555 3,130 36,598 5,240 88,826 2,270 84,045 4,100 \$99,191	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675 \$44,887,77 \$115,473 \$109,258 \$128,948	\$706,980 \$36,100 \$12,500 \$27,000 \$82,820	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254 \$8,643,265 \$49,098 \$141,276 \$111,045 \$182,011	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699 \$100,522 \$60,077 \$167,923 \$136,258	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion leak noted in really bad shape. 3 Broken Mains in relay footage and several joint leaks. 1 Grade 3 leak. Telephone d City paving 2017, could see reduction in final restoration cost. Corrosion leak and see leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replacemer 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on mimain in poor condition noted. Church nearby. 5 Broken Mains and several Joint leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extra condition noted. 2 Corrosion leaks within relay footage. Main noted in poor condition. School nearby. 1 Corrosion teak repair noted in poor condition. Indicated bare steel main is rested o and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".
1 8840-0001004988 2 8840-0001004986 3 8840-0001005065 4 8840-0001002830 5 8840-761258 6 8840-761258 6 8840-709943 8 8840-709943 8 8840-709943 8 8840-0001001270 10 8840-0001001270 10 8840-0001001270 10 8840-0001002605 them Division Totals 017 CIBS Program Totals mated FY2016 Carry Over Co 8840-0001002867 8840-0011002868 8840-641993 8840-641993 8840-0001002615	NAS NAS NAS NAS NAS NAS CCCD CCCD CCCD CCCD	120-165 AMMERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN 4-146 GILMAN ST, NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST 5-18 EDWIN ST, NAS 2-15 BADGER ST, NAS 2-16 STEVENS ST, NAS 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST	HARDY ST TEMPLE ST PINE ST TEMPLE ST CONCORD ST WHITNEY ST ARLINGTON ST BLANCHARD ST WHOLLIS ST MAIN ST SCHOOL ST WILSON ST NORWICH ST PIERCE ST	FERRY ST WOODWARD AV GORMAN AV WELLINGTON ST CONCORD ST NEWBURY ST FAIRVIEW ST KINSLEY ST LAWNDALE AV WASHINGTON ST MOORELAND AV WILSON ST S STATE ST	C1 & B5	6 LP to 60	2, 4 & 4 2, 3 & 4 2 & 4 2 & 4 4 & 6 2 & 4 2	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/1926/194 2" HP PL 7/1956 1901/1904/ 1924/1907 1910/19134 4" LP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913/19134 2" HP PL 1913 2" HP PL 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 6" LP PL in Orange & Lock, 4" LP PL in Granite 1901/1905 2" HP PL 1909 4" LP PL 1909 4" LP PL	SOUTHERN DIVISION	N 1 25 25 0 17 5 7 16 3 7 3 10 3 12 2 1 7 5 5 1 106	Mileage 2.92 57 3,700 63 3,170 44 2,500 42 1,925 18 1,325 28 1,660 34 1,600 5 465 14 535 22 1,435 327 18,315 Mileage 3,47 846 50,385 Total Mileage 9,54 2,950 3,130 5,240 2,270	35 35 0.01	1,160 3,685 690 5,535 1.05 6,795	3.04 4,860 \$621,105 6,855 \$640,078 2,500 \$455,219 1,925 \$297,264 2,015 \$227,821 1,660 \$316,406 1,600 \$271,906 500 \$91,585 535 \$122,071 1,435 \$277,799 23,885 \$3,321,254 4,52 \$7,215 \$7,450,673 10.84 2,950 49,555 3,130 36,598 5,240 88,826 2,270 84,045 4,100 \$99,191	\$817,294 \$824,978 \$598,807 \$394,027 \$329,187 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,388,767 \$9,724,675 \$44,887,77 \$115,473 \$109,258 \$128,948	\$706,980 \$36,100 \$12,500 \$27,000 \$82,820	\$621,105 \$640,078 \$455,219 \$297,264 \$227,821 \$316,406 \$271,906 \$91,585 \$122,071 \$277,799 \$3,321,254 \$8,643,265 \$49,098 \$141,276 \$111,045 \$182,011	\$817,294 \$824,978 \$598,807 \$394,027 \$300,716 \$414,848 \$358,228 \$121,166 \$159,419 \$370,812 \$4,360,297 \$11,025,699 \$100,522 \$60,077 \$167,923 \$136,258	32% \$220.89 29% \$260.25 32% \$239.52 33% \$240.69 32% \$226.96 31% \$249.91 32% \$223.89 32% \$223.89 32% \$242.33 31% \$297.98 33% \$258.41 31% \$237.62	City paving 2016, could see reduction in final restoration cost. Several corrosion leak noted in really bad shape. 3 Broken Mains in relay flortage and several joint leaks. 1 Grade 3 leak. Telephone d City paving 2017, could see reduction in final restoration cost. Corrosion leak and see leaks within the relay footage. 8S main noted poor condition in Shedds Av. 2016 sewer and water main replacemen 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on mamain in poor condition noted. Church nearby. 5 corrosion leaks and 2 grade 2 active leaks within relay footage. Deep pitting on mamain in poor condition leaks within relay footage. Main in poor condition severely graphitized noted. Telephone ducts. 2016 water main replacement in McKean Av. Deep pitting on main and main in extre condition noted. 2 corrosion leaks within relay footage. Main noted in poor condition. School nearby 1 Corrosion leak repair noted in poor condition. Indicated bare steel main is rested o and should be replaced asap. Incremental project. Several corrosion leaks. "Main in horrible shape".

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	Α	В	C D	AB	AC	AD	AE	AF	AG	AH AI	AJ AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
								4			Actual Actual																	
Prior	ority Wo		Town Street	Actual Completion	Status	Actual Footage	CS & PL Relay & New Main	Upsized	Total CIBS Eliminated (AE+R-	Actual Actual R- Service Service	Service Service			Actual	Actual	egradation Fees*	Actual Main Cost - Direct		- Actual Total Cost Direct (AQ	Actual Main Cost Loaded (CCD	Actual Service Cost -	Actual Total Cost Loaded		Main Costs to be Removed (Non-	Service Cost to be Removed (Non-	Recoverable Main Cost	Recoverable Service Cost	Total Recoverable Co
			Code	Date		Installed	Footage	Footage	AF)	Relays BS Inserts B:	Relays CS Inserts C	5 Transfer	Aband BS	service New	Service Total		(CCD DEGRADATION INCL)	Direct	+ AR)	DEGRADATION INCL)	Loaded	(AT + AU)		recoverable)	Recoverable)	(AT - AX)	(AU - AY)	(AZ + BA)
1																												
2	1 9940.	0001004982	NORTHERN DIVISION CCD 298-365 S MAIN ST, CCD, HOLLY ST & WILFRED AV	8/29/2016	CASPILIT	2,736	20	T	2,716	15	6	11		1	33	\$22,610	\$273,338	\$91,203	\$364,541	\$334,500	\$112,993	\$447,493	23%	\$2,445	\$62,273	\$332,055	\$50,720	\$382,775
3 1				1				+			0			1														
4 2		0001001272		9/2/2016		575	100	+	475	3		3			6	\$410	\$32,258	\$13,432	\$45,690	\$44,817	\$14,813	\$59,630	31%	\$7,794	\$4,569	\$37,023	\$10,244	\$47,266
5 3	3 8840-	0001005153	CCD 7-31 NORWICH ST, CCD, TRINITY ST & ADAMS ST	8/5/2016	CASBUILT	2,050		+	2,050	6	3	9			18	\$25,205	\$170,840	\$45,101	\$215,941	\$220,402	\$47,508	\$267,910	24%	\$0	\$32,807	\$220,402	\$14,701	\$235,103
4	4 884	40-642348	CCD 2-12 COURT ST, CCD, PITMAN ST & MONTGOMERY ST	6/27/2016	CASBUILT	558	I		1,218	2	2 1	1			6	\$1,035	\$58,894	\$28,356	\$87,250	\$66,360	\$28,854	\$95,214	9%	\$0	\$20,842	\$66,360	\$8,012	\$74,372
6					<u> </u>																			·				
7 5	5 884	40-925933	CCD 121-199 DUNBARTON RD, CCD	5/4/2016	CASBUILT	1,935	100		1,835	1	11				12	\$0	\$131,429	\$31,122	\$162,552	\$137,827	\$37,989	\$175,816	8%	\$7,123	\$34,228	\$130,704	\$3,761	\$134,465
6	5 8840-	0001004985	CCD 2-19 MOORELAND AV, CCD, MIDLAND, MADISON & MEADOW	6/9/2016	CASBUILT	2,454	Ī		2,454	11	14	7			32	\$1,095	\$159,674	\$81,631	\$241,305	\$170,718	\$98,766	\$269,484	12%	\$0	\$65,675	\$170,718	\$33,091	\$203,809
8				.,.,				++								. ,	,	,	, , , , ,	, ,	, ,	,,		''		, ,		,,
9 7	7 8840-	0001004984	CCD 2-38 HIGHLAND ST, CCD, BRADLEY, ALBIN, MARTIN & JACKSON	10/25/2016	CASBUILT	2,579	225		2,354	25	13 6			2	46	\$32,270	\$170,997	\$120,632	\$291,629	\$218,361	\$127,266	\$345,627	19%	\$19,050	\$62,616	\$199,310	\$64,649	\$263,960
10 8	8840-	0001005085	CCD 1-40 RUMFORD ST, CCD	11/21/2016	COMP	1,255	35		1,220	7	3	7			17	\$16,825	\$145,788	\$47,630	\$193,418	\$166,304	\$51,813	\$218,117	13%	\$4,638	\$32,861	\$161,666	\$18,951	\$180,618
11 9	9 8840-	0001005086	CCD 1-31 BROAD AV, CCD & BOW ST	11/28/2016	CASBUILT	1,247	35	/	1,212	5	3	11			19	\$12,130	\$149,996	\$43,473	\$193,468	\$146,449	\$47,004	\$193,453	0%	\$4,110	\$35,645	\$142,338	\$11,359	\$153,697
12 10	0 8840-	0001006596	CCD FOREST ST, CCD	12/6/2016	COMP	830			830	6	3	4		1	14	\$13,430	\$140,114	\$44,075	\$184,189	\$132,949	\$46,575	\$179,524	-3%	\$0	\$25,217	\$132,949	\$21,358	\$154,307
13 11	1 8840-	0001006603	CCD N MAIN ST, CCD	12/20/2016	CASBUILT	704		704	704	7	1	3			11	\$0	\$73,229	\$46,441	\$119,670	\$68,557	\$49,884	\$118,441	-1%	\$7,744	\$15,904	\$60,813	\$33,980	\$94,794
14 12	2 8840-	0001007306	CCD WHEATON AV, CCD	1/6/2017	CASBUILT	203			203	4					4	\$298	\$20,335	\$6,789	\$27,124	\$22,456	\$7,663	\$30,119	11%	\$0	\$0	\$22,456	\$7,663	\$30,119
27	ern Division	<u> </u>				17,126	515	704	17,271	92 0	48 18	56	0	4	218	\$125,308	\$1,526,892	\$599,885	\$2,126,777	\$1,729,700	\$671,128	\$2,400,828	13%	\$52,905	\$392,638	\$1,676,795	\$278,490	\$1,955,285
16					Total Miles		0.10	0.13	3.27																			
17			CENTRAL DIVISION			\vdash		\bot		\bot																		
18 1	1 884	40-925692	MNC 197-368 SILVER ST, MNC, BEECH ST & SOMERVILLE ST	8/15/2016	CASBUILT	2,275	70	$\perp \perp \perp$	2,205	21	9	6			36	\$81,000	\$280,374	\$106,572	\$386,946	\$345,844	\$113,367	\$459,211	19%	\$10,641	\$47,898	\$335,203	\$65,469	\$400,672
19 2	2 8840-	0001005060	MNC 683-853 HALL ST, MNC, ORANGE, BELMONT, MEAD & RESERVOIR	11/29/2016	CASBUILT	2,880	30		2,850	19	8	23			50	\$100,000	\$179,061	\$126,319	\$305,380	\$190,125	\$126,706	\$316,831	4%	\$1,980	\$78,132	\$188,144	\$48,574	\$236,719
20 3	8840-	0001005056	MNC 509-672 LAKE AV, MNC & KENNEY ST	9/30/2016	CASBUILT	2,516			2,516	22	16	17		1	56	\$80,000	\$224,468	\$169,633	\$394,101	\$272,341	\$178,790	\$451,131	14%	\$0	\$108,195	\$272,341	\$70,595	\$342,935
21 4	4 884	40-925724	MNC 400-429 WILSON ST, MNC & CEDAR ST												0													
21				s (0.0 (0.0 s		500									-10	405 500	4107.105	470.000	4004.440	4405.040	400.405	4004004	100	40	440.000	4405.040	445.000	4404.540
22	8840-	0001005058	MNC 660-789 HARVARD ST, MNC & HALL ST	6/28/2016	CASBUILT	699			1,299	9	9				18	\$35,500	\$127,496	\$73,622	\$201,118	\$136,219	\$88,106	\$224,324	12%	\$0	\$42,806	\$136,219	\$45,300	\$181,519
23 6	6 884	40-919916	MNC 3-116 FOREST ST, MNC & BABEL ST	12/8/2016	CASBUILT	1,033	I		1,033	8		4			12	\$34,500	\$66,779	\$33,897	\$100,676	\$84,870	\$44,268	\$129,137	28%	\$0	\$17,518	\$84,870	\$26,749	\$111,619
24 7	7 884	40-925633	MNC 111-153 RUSSELL ST, MNC	7/11/2016	CASBUILT	520	Ī		520	3	2	3			8	\$18,000	\$74,771	\$23,068	\$97,839	\$83,669	\$29,773	\$113,442	16%	\$0	\$17,431	\$83,669	\$12,342	\$96,011
8	9940	0001005050	MNC 217-274 BLODGET ST, MNC, MAPLE ST & LODGE ST	12/23/2016	FCOMP	1,495	15	4	1,480	8	5	12			25	\$52,000	\$170,719	\$56,630	\$227,349	\$154,098	\$55,206	\$209,304	-8%	\$1,546	\$36,753	\$152,551	\$18,454	\$171,005
25	3 0040-	0001003033	WINC 217-274 BEODGET ST, WINC, WAR LE ST & CODGE ST	12/23/2010	TCOIVIT	1,455	<u> </u>		1,400		,	12			23	332,000	\$170,715	230,030	3227,343	\$154,056	333,200	3203,304	-070	31,540	330,733	3132,331	310,434	\$171,003
26 9	9 884	40-642286	MNC 462-610 SPRUCE ST, MNC, CANTON	12/15/2016	CASBUILT	2,470	150	1,129	2,320	10	5	27		3	45	\$84,900	\$219,586	\$109,597	\$329,183	\$237,138	\$139,834	\$376,971	15%	\$26,820	\$106,283	\$210,318	\$33,551	\$243,869
27			MNC 508-559 CENTRAL ST, MNC	12/23/2016	CASBUILT	717			717	5	2	10		1	18	\$26,750	\$85,835	\$37,736	\$123,571	\$108,011	\$50,443	\$158,454	28%	\$0	\$38,567	\$108,011	\$11,875	\$119,886
28 Centr	ral Division	Totals				14,605	265	1,129	14940	105 0	56 0	102	0	5	268	\$512,650	\$1,429,089	\$737,073	\$2,166,162	\$1,612,313	\$826,492	\$2,438,805	13%	\$40,988	\$493,582	\$1,571,325	\$332,910	\$1,904,235
30			SOUTHERN DIVISION		Total Miles	2.77	0.05	0.21	2.83	+																		
21 1	1 8840-	0001004988	NAS 120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO	12/20/2016	COMP	3,915	175		4,900	14 6	6 15	17	2	1	61		\$248,118	\$144,303	\$392,421	\$334,456	\$151,892	\$486,348	24%	\$14,950	\$90,988	\$319,506	\$60,904	\$380,410
31 2	2 8840-	0001004986	NAS 22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN	11/22/2016	CASBUILT	2.679	575	+	5,789	20 5	24 9	5			63		\$405,837	\$226,082	\$631,919	\$418,001	\$228,762	\$646,763	2%	\$89,717	\$135,373	\$328,285	\$93,388	\$421,673
32 2			NAS 4-146 GILMAN ST, NAS	11/18/2016		2,778	270	+++	2,508	29	4	9		1	43		\$168.087	\$102,091	\$270,178	\$182,935	\$104,729	\$287,664	6%	\$17,780	\$32,091	\$165,155	\$72,638	\$237,793
33			· · · · · · · · · · · · · · · · · · ·	1				+++				,		1			,,											
34 4			NAS 2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST	6/22/2016		1,917	150	+	1,767	21 2	7 9				39		\$149,562	\$114,720	\$264,281	\$143,984	\$131,775	\$275,758	4%	\$11,266	\$41,664	\$132,717	\$90,111	\$222,828
35 5			NAS 2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV	1/31/2017		1,355	240	+	1,805	8 2	4 2	7			23		\$135,801	\$58,055	\$193,856	\$147,843	\$66,981	\$214,824	11%	\$26,186	\$34,819	\$121,657	\$32,162	\$153,819
36 6	8840-	0001005054	NAS 20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST	11/14/2016	COMP	1,795	65	220	1,730	15	6	7			28		\$151,911	\$79,918	\$231,829	\$182,791	\$84,656	\$267,446	15%	\$9,039	\$35,551	\$173,752	\$49,104	\$222,856
37 7	7 884	40-709943	NAS 31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST	1/21/2017	COMP	1,485			1,485	13	9	11			33		\$113,350	\$73,723	\$187,074	\$109,925	\$75,686	\$185,610	-1%	\$0	\$45,039	\$109,925	\$30,646	\$140,571
38 8	8840-	0001004987	NAS 5-18 EDWIN ST, NAS	7/21/2016	CASBUILT	486	16		470	4	1 1			1	7	-	\$57,304	\$16,425	\$73,729	\$79,050	\$15,585	\$94,634	28%	\$2,602	\$6,247	\$76,447	\$9,338	\$85,785
39 9	8840-	0001001270	NAS 2-15 BADGER ST, NAS	11/10/2016	COMP	580	10		570	3	5	6			14		\$38,636	\$33,463	\$72,099	\$40,119	\$35,816	\$75,935	5%	\$692	\$28,121	\$39,428	\$7,695	\$47,122
40 10	0 8840-	0001006605	NAS 2-16 STEVENS ST, NAS	2/15/2017	FCOMP	960	15		945	6	3	4			13		\$94,544	\$26,652	\$121,196	\$87,629	\$31,717	\$119,346	-2%	\$1,369	\$14,237	\$86,260	\$17,480	\$103,740
41 South	hern Divisio						1,516	220	21,969	133 15	69 36	66	2	3	324		\$1,563,149	\$875,433	\$2,438,582	\$1,726,733	\$927,596	\$2,654,329	9%	\$173,602	\$464,131	\$1,553,131	\$463,466	\$2,016,596
41		n Totals				17,950	2,520		4.16																			
42		n Totals			Total Miles		0.29	0.04	4.16												\$2,425,216	\$7,493,962	11%	\$267,495	\$1,350,350	\$4,801,251	\$1,074,866	\$5,876,117
42		n Totals gram Totals				3.40 49,681	0.29 2,296	2,053	54,180	330 15	173 54	224	2	12	810	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	\$2,425,210		_					1
42					Total Miles Total Miles	3.40 49,681	0.29			330 15	173 54	224	2	12	810	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	ŲL)4LSJEIO							
42 43 FY201 44	17 CIBS Prog		sits			3.40 49,681	0.29 2,296	2,053	54,180	330 15	173 54	224	2	12	810	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	Ų Į Į Į Į Į							
42 43 FY201 44	17 CIBS Prog	gram Totals 6 Carry Over Cos	sts CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST			3.40 49,681	0.29 2,296	2,053	54,180	330 15	173 54	224	2	12	0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	¥2,425,220	\$101,704						\$101,704
42 43 FY201 44	nated FY201	6 Carry Over Cos				3.40 49,681	0.29 2,296	2,053	54,180	330 15	173 54	1	2	12		\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	YL,				\$8,617			\$101,704 \$100,762
42 43 FY201 44	17 CIBS Prog	6 Carry Over Cos 0001002867	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST			3.40 49,681 9.41	0.29 2,296	2,053	54,180 10.26	1			2	12	0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	V 2,723,230	\$101,704			\$8,617			
42 43 FY201 44	17 CIBS Prog	6 Carry Over Cos 0001002867 0001002868 40-641993	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST			3.40 49,681 9.41	0.29 2,296	2,053	54,180 10.26	1			2	12	0 4 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	<i>\$2,4-2,1-2</i>	\$101,704 \$109,380 \$127,655			\$8,617			\$100,762 \$127,655
42 43 FY201 44	17 CIBS Prog	6 Carry Over Cos 0001002867 0001002868 40-641993 0001002615	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST			3.40 49,681 9.41	0.29 2,296	2,053	54,180 10.26	1			2	12	0 4 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	<i>\$6,4-3,6-10</i>	\$101,704 \$109,380 \$127,655 \$157,775			\$8,617			\$100,762 \$127,655 \$157,775
42 43 FY201 44 45 Estim 46 47 48 49	17 CIBS Prop	G Carry Over Cos 0001002867 0001002868 40-641993 0001002615 40-925627	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST			3.40 49,681 9.41	0.29 2,296 0.43	2,053	54,180 10.26 156	1	2	1			0 4 0 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	<i>\$</i> 1,10,100	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903						\$100,762 \$127,655 \$157,775 \$97,903
42 43 FY201 44 45 Estim 46 47 48 49 50	17 CIBS Prog	G Carry Over Cos 0001002867 0001002868 40-641993 0001002615 40-925627	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST		Total Miles	3.40 49,681 9.41 156	0.29 2,296 0.43	2,053 0.39	10.26 10.26 156	1 0			0	0	0 4 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y a y ta y ta y	\$101,704 \$109,380 \$127,655 \$157,775		%5 of Fetimated	\$8,617	6 Completed De-	ects in column V	\$100,762 \$127,655 \$157,775 \$97,903 \$585,800
42 43 FY201 44 45 Estim 46 47 48 49 50	17 CIBS Prop	G Carry Over Cos 0001002867 0001002868 40-641993 0001002615 40-925627	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST			3.40 49,681 9.41 156	0.29 2,296 0.43	2,053	54,180 10.26 156	1	2	1			0 4 0 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y a y a y a y a y	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903		%5 of Estimated C			ects in column X g Carryover Cost	\$100,762 \$127,655 \$157,775 \$97,903 \$585,800 \$537,824
42 43 FY201 44 45 Estim 46 47 48 49 50	17 CIBS Programmed FY201 8840- 8840- 8840- 8840- 8840- 88416 Carry Ovi	G Carry Over Cos 0001002867 0001002868 40-641993 0001002615 40-925627	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST		Total Miles	3.40 49,681 9.41 156 156 0.03 49,837	0.29 2,296 0.43	2,053 0.39 0.39	156 156 156 0.03	1 0	2	1			0 4 0 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y services and the services are the services and the services and the services and the services and the services are the services and the services and the services are the services are the services are the services are the services and the services are the serv	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903		%5 of Estimated C \$267,495	\$8,617			\$100,762 \$127,655 \$157,775 \$97,903 \$585,800 \$537,824
42 43 FY201 44 45 Estim 46 47 48 49 50 51 FY201 52 53 54 Grand	17 CIBS Prog	gram Totals 6 Carry Over Cos 0001002867 0001002868 10-641993 0001002615 10-925627 er Totals	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST		Total Miles Total Miles Total Miles	3.40 49,681 9.41 156 156 0.03 49,837 9.44	0.29 2,296 0.43	0 0.00 0.00 2,053	156 156 156 156 156 156 0.03 54,336 10.29	1 0 1 0 331 15	2 0	1 1 225	0	0	0 4 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y services and the services are the services and the services are the serv	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903 \$594,417			\$8,617 Costs for the FY2015-1			\$100,762 \$127,655 \$157,775 \$97,903 \$585,800 \$537,824 \$47,976
42 43 FY201 44 45 Estim 46 47 48 49 50 51 FY201 52 53 54 Grand	17 CIBS Prog	gram Totals 6 Carry Over Cos 0001002867 0001002868 10-641993 0001002615 10-925627 er Totals	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST MNC 401-803 RIVER RD, MNC, THAYER ST & EVERETT ST		Total Miles Total Miles Total Miles	3.40 49,681 9.41 156 156 0.03 49,837 9.44	0.29 2,296 0.43	0 0.00 0.00 2,053	156 156 156 156 156 156 0.03 54,336 10.29	1 0 1 0 331 15	2 0	1 1 225	0	0	0 4 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y services and services are services and services are services are services and services are services are services and services are ser	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903 \$594,417		\$267,495	\$8,617 Costs for the FY2015-1 \$1,358,968 Fotal Estimated FY201	Remainin 7 Costs Including N	g Carryover Cost	\$100,762 \$127,655 \$157,775 \$97,903 \$585,800 \$537,824 \$41,976 \$6,461,916
42 44 44 45 Estim 46 47 48 49 50 51 FY201 52 53 53 54 Grand	17 CIBS Prog	gram Totals 6 Carry Over Cos 0001002867 0001002868 10-641993 0001002615 10-925627 er Totals	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST MNC 401-803 RIVER RD, MNC, THAYER ST & EVERETT ST		Total Miles Total Miles Total Miles	3.40 49,681 9.41 156 156 0.03 49,837 9.44	0.29 2,296 0.43	0 0.00 0.00 2,053	156 156 156 156 156 156 0.03 54,336 10.29	1 0 1 0 331 15	2 0	1 1 225	0	0	0 4 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y services and services are services and services are services are services and services are services are services are services and services are ser	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903 \$594,417		\$267,495	\$8,617 Costs for the FY2015-1 \$1,358,968 Total Estimated FY201 Total Recoverable M	7 Costs Including Inus Handy Whitm	MNC Degradation an Adjusted Base acement in Miles	\$100,762 \$127,655 \$157,775 \$97,903 \$585,800 \$537,824 \$47,976 \$6,461,916
42 44 44 45 Estim 46 47 48 49 50 51 FY201 52 53 53 54 Grand	17 CIBS Prog	gram Totals 6 Carry Over Cos 0001002867 0001002868 10-641993 0001002615 10-925627 er Totals	CCD 47-90 N SPRING RD, CCD, RUMFORD ST & CAMBRIDGE ST CCD 203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV CCD 167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST CCD 19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST MNC 401-803 RIVER RD, MNC, THAYER ST & EVERETT ST		Total Miles Total Miles Total Miles	3.40 49,681 9.41 156 156 0.03 49,837 9.44	0.29 2,296 0.43	0 0.00 0.00 2,053	156 156 156 156 156 156 0.03 54,336 10.29	1 0 1 0 331 15	2 0	1 1 225	0	0	0 4 0 0	\$637,958	\$4,519,130	\$2,212,392	\$6,731,522	\$5,068,746	y a y tay a sa	\$101,704 \$109,380 \$127,655 \$157,775 \$97,903 \$594,417		\$267,495	\$8,617 Costs for the FY2015-1 \$1,358,968 Fotal Estimated FY2017 Total Recoverable M.	7 Costs Including Inus Handy Whitm	MNC Degradation an Adjusted Base acement in Miles Degradation Fee	\$100,762 \$127,655 \$157,775 \$97,903 \$585,800 \$537,824 \$47,976 \$6,461,916 \$10,756,481 \$5,940,952 10.83 \$10,472,399

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	Α	В	С	D	BC	BD	BE	BF	BG	ВН	BI	BJ	BK
	Priority	Work Order#	Town Code	Street	MNC DEGRADATION	Costs - Loaded (EXCL MNC DEGRADATION	Estimated Direct Cost (EXCL MNC DEGRADATION FEES)	Actual Cost Direct (EXCL MNC DEGRADATION FEES, INCL CARRYOVER)	Direct Variance	Estimated Loaded Cost (EXCL MNC DEGRADATION FEES)	Actual Loaded Cost (EXCL MNC DEGRADATION FEES, INCL CARRYOVER)	Loaded Cost Variance %	Variance Comments
1					FEES)	FEES)							
2				NORTHERN DIVISION			1				T		On hudget
3	1	8840-0001004983	CCD	298-365 S MAIN ST, CCD, HOLLY ST & WILFRED AV	\$9,687	\$12,593	\$365,552	\$374,228	2%	\$469,234	\$460,086	-270	On budget.
4	2	8840-0001001272	CCD	12-29 ROCKLAND RD, CCD	\$12,423	\$16,150	\$55,096	\$58,113	5%	\$71,356	\$75,780	070	On budget.
5	3	8840-0001005153	CCD	7-31 NORWICH ST, CCD, TRINITY ST & ADAMS ST	\$52,422	\$68,148	\$277,079	\$268,363	-3%	\$350,939	\$336,059	-4%	On budget.
6	4	8840-642348	CCD	2-12 COURT ST, CCD, PITMAN ST & MONTGOMERY ST	\$5,884	\$7,649	\$115,490	\$93,134	-19%	\$147,183	\$102,863	-30%	Under budget. City replaced water main and paved street after gas main work. Limited temporary pavement and no final restoration required resulting in significant cost savings.
7	5	8840-925933	CCD	121-199 DUNBARTON RD, CCD			\$120,548	\$162,552	35%	\$159,228	\$175,816	10%	On budget. Higher than expected restoration cost.
8	6	8840-0001004985	CCD	2-19 MOORELAND AV, CCD, MIDLAND, MADISON & MEADOW	\$67,124	\$87,261	\$342,368	\$308,429	-10%	\$437,337	\$356,745	-18%	Under budget. Main installed off pavement in Midland Stand Madison St resulting in cost savings.
9	7	8840-0001004984	CCD	2-38 HIGHLAND ST, CCD, BRADLEY, ALBIN, MARTIN & JACKSON	\$70,298	\$91,387	\$396,722	\$361,926	-9%	\$511,446	\$437,013	-15%	Under budget. Estimated 2 foot cutback for final restoration. City allowing mill & overlay for final restoration resulting in cost savings.
10	8	8840-0001005085	CCD	1-40 RUMFORD ST, CCD	\$42,580	\$55,354	\$202,593	\$235,999	16%	\$258,093	\$273,471	6%	On budget.
11	9	8840-0001005086	CCD	1-31 BROAD AV, CCD & BOW ST	\$30,931	\$40,210	\$181,205	\$224,399	24%	\$229,685	\$233,663	2%	On budget.
12	10	8840-0001006596	CCD	FOREST ST, CCD	\$21,899	\$28,469	\$129,512	\$206,088	59%	\$168,510	\$207,993	23%	Over budget. Ledge/rock removal not anticipated in estimate.
12	11	8840-0001006603	CCD	N MAIN ST, CCD	\$17,843	\$23,196	\$117,528	\$137,513	17%	\$152,739	\$141,637	-7%	On budget. City holding degradation fees due to possible drainage project.
14	12	8840-0001007306	CCD	WHEATON AV, CCD			\$33,859	\$27,124	-20%	\$44,439	\$30,119	-32%	Under budget. Wheaton Ave is a private road. Estimate included 2 foot cutback and
15 N	othern D	vision Totals		1	\$331,090	\$430,417	\$2,337,552	\$2,457,868	5%	\$3,000,190	\$2,831,245	-6%	degradation fees which were not required.
16								Avg Loaded	Cost/Foot North	\$180	\$165		
17	. 1			CENTRAL DIVISION						*	4		On budget.
18	1	8840-925692		197-368 SILVER ST, MNC, BEECH ST & SOMERVILLE ST			\$337,930	\$386,946	15%	\$431,644	\$459,211	6%	Under budget. Loadings were less than estimated.
19	2	8840-0001005060	MNC	683-853 HALL ST, MNC, ORANGE, BELMONT, MEAD & RESERVOIR	\$75,883	\$98,648	\$411,948	\$381,263	-7%	\$524,287	\$415,479	-21%	
20	3	8840-0001005056	MNC	509-672 LAKE AV, MNC & KENNEY ST			\$409,744	\$394,101	-4%	\$524,803	\$451,131	-14%	Slightly under budget. City to pave section of Lake Ave resulting in cost savings.
21	4	8840-925724	MNC	400-429 WILSON ST, MNC & CEDAR ST									Deferred to FY 2018 Program. Project near school and needs to be completed before school begins in Fall.
22	5	8840-0001005058	MNC	660-789 HARVARD ST, MNC & HALL ST			\$153,314	\$201,118	31%	\$196,992	\$224,324	14%	Slightly over budget. Final restoration cost was more than estimated due to the thickness of asphalt.
23	6	8840-919916	MNC	3-116 FOREST ST, MNC & BABEL ST	\$38,507	\$50,058	\$140,524	\$139,182	-1%	\$181,708	\$179,196	-1%	On budget.
24	7	8840-925633	MNC	111-153 RUSSELL ST, MNC			\$75,384	\$97,839	30%	\$97,796	\$113,442	10%	Over budget. Restoration cost aprx \$10k more than estimated.
25	8	8840-0001005059	MNC	217-274 BLODGET ST, MNC, MAPLE ST & LODGE ST	\$61,860	\$80,418	\$238,582	\$289,209	21%	\$303,600	\$289,722	-5%	On budget.
26	9	8840-642286	MNC	462-610 SPRUCE ST, MNC, CANTON	\$124,582	\$161,956	\$380,121	\$453,765	19%	\$482,762	\$538,927	12%	Slightly over budget. More ledge removal than anticipated in estimate.
27	10	8840-0001006947	MNC	508-559 CENTRAL ST, MNC	\$28,615	\$37,199	\$105,490	\$152,186	44%	\$139,752	\$195,653	4070	Over budget. Ledge removal not anticipated in estimate.
28	entral Div	ision Totals			\$329,446	\$428,280	\$2,253,038	\$2,495,608 Avg Loaded (11% Cost/Foot Central	\$2,883,345 \$200	\$2,867,085 \$196	-1%	
30		1		SOUTHERN DIVISION									
31	1	8840-0001004988	NAS	120-165 AMHERST ST, NAS, BERKSHIRE, NORFOLK, PASADENA & SACRAMENTO	\$286,639	\$372,631	\$621,105	\$679,060	9%	\$817,294	\$858,979	5%	On budget.
32	2	8840-0001004986	NAS	22-50 BRIDGE ST, NAS, E HOLLIS, HOBBS, CHASE, CROWN	\$105,354	\$136,960	\$640,078	\$737,272	15%	\$824,978	\$783,722	-370	On budget. Less install footage than estimated offset by thicker asphalt restoration cost.
33	3	8840-0001005065	NAS	4-146 GILMAN ST, NAS	\$206,394	\$268,312	\$455,219	\$476,572	5%	\$598,807	\$555,976	-7%	On budget. Possible reduction in estimated carryover cost due to partnering final restoration with Pennichuck Water and/or City paving.
34	4	8840-0001002830	NAS	2-18 HOWARD ST, NAS, HOYT ST, SHEDDS AV & SCRIPTURE ST	\$24,809	\$32,252	\$297,264	\$289,090	-3%	\$394,027	\$308,010	-22%	Under budget. Partnered with Pennichuck Water for final restoration resulting in cost savings.
35	5	8840-761258	NAS	2-15 COLUMBIA AV, NAS, WEBSTER ST & BARTLETT AV	\$97,088	\$126,214	\$227,821	\$290,944	28%	\$300,716	\$341,039	13%	Slightly over budget. Additional \$25k due to ledge/rock removal.
36	6	8840-0001005054	NAS	20-45 ORANGE ST, NAS, LOCK ST & GRANITE ST	\$134,078	\$174,302	\$316,406	\$365,907	16%	\$414,848	\$441,748	6%	On budget.
37	7	8840-709943	NAS	31-70 MCKEAN ST, NAS, CHERRY ST & SANDS ST	\$110,208	\$143,270	\$271,906	\$297,282	9%	\$358,228	\$328,881	-8%	On budget.
38	8	8840-0001004987	NAS	5-18 EDWIN ST, NAS			\$91,585	\$73,729	-19%	\$121,166	\$94,634		Under budget. Main installed on edge of pavement. Cut back was required only on one side resulting in significant cost savings.
39	9	8840-0001001270	NAS	2-15 BADGER ST, NAS	\$59,532	\$77,392	\$122,071	\$131,631	8%	\$159,419	\$153,327		On budget.
40	10	8840-0001006605	NAS	2-16 STEVENS ST, NAS	\$86,100	\$111,930	\$277,799	\$207,296	-25%	\$370,812	\$231,276	-38%	Under budget. Project partially completed in 2016 Program. Remaining CI in Steven St & BS in Evergreen will be completed on separate work order in 2017.
41 S	outhern C	ivision Totals			\$1,110,202	\$1,443,263	\$3,321,254	\$3,548,784	7%	\$4,360,297	\$4,097,591	-6%	
42					44 === ===	40.004.000	4=		Cost/Foot South		\$228		
43	Y2017 CIE	S Program Totals			\$1,770,739	\$2,301,960	\$7,911,844	\$8,502,260 Avg Loade	7% d Cost/Foot Total	\$10,243,831 \$208	\$9,795,922 \$197	-4%	
										7-11	7-2-		
45 E:		FY2016 Carry Over C								4400 500	4404 804	***	Final restoration cost came in on budget.
46		8840-0001002867					1			\$100,522	\$101,704	1%	Final carryover cost came in over than estimate. Includes 156' of CI relay completed
47		8840-0001002868	CCD	203-274 SOUTH ST, CCD, JORDAN AV & JOHNSON AV						\$60,077	\$109,380	82%	in FY17. Sunset Ave was mislabeled as PL main in GIS. Final restoration cost came in under than estimate.
18		8840-641993	CCD	167-203 SOUTH ST, CCD, CONANT DR & RUNDLETT ST						\$167,923	\$127,655	-24%	Final restoration cost came in over than estimate.
19		8840-0001002615	CCD	19-50 PERLEY ST, CCD, GROVE ST & THORNDIKE ST			1	-		\$136,258	\$157,775	16%	Final restoration cost came in over than estimate.
50		8840-925627	MNC	401-803 RIVER RD, MNC, THAYER ST & EVERETT ST						\$128,948	\$97,903	-24%	i moi rescoradori cost came in under than esumate.
51 F	Y2016 Ca	ry Over Totals								\$593,729	\$594,417	0%	
53													
	rand Tota									\$10,837,560	\$10,390,339	-4%	
56	Informatio	onal purposes only. (Concord	degradation fees are included in the main costs. Not all Manchester degradation fee	s have been invoiced to	the Company and include	estimated costs as well as	actuals. Manchester degrada	tion fees are not in	ncluded in any of the cost re	ecovery calculations.		
57 58													
58 59 60													
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Michael J. Sheehan, Esq. Senior Counsel Phone: 603-216-3635 Email: Michael.Sheehan@libertyutilities.com

December 30, 2016

Via Electronic Mail

Randall S. Knepper, Director, Safety Division New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, New Hampshire 03301-2429

Re: 2016 Marketing Report

Dear Mr. Knepper:

I write with the marketing report required by the most recent CIBS order: "Liberty [shall] provide Staff with a report by the end of 201[6] documenting the results of its market research conducted during the 2017 CIBS year and its plan for marketing to new customers going forward." Order No. 25,918 at 7 (July 1, 2016). Following is the responsive information.

For the 2016 CIBS campaign, Liberty sent letters to all of the 948 homes along the CIBS routes. The letters were sent to both current and potential customers. Of the 948 homeowners who received the letters, 891 were already natural gas customers, so only 67 homeowners along the 2016 CIBS routes were not customers. Thus, these routes already had a saturation rate of 93%.

Out of the 67 letters that were sent to non-customers, we received 17 responses. We installed gas service to 13 out of those 17 homeowners. One of those meters has been turned on. The other 12 services should have meters installed in 2017. With these new customers, the saturation rate along these CIBS routes will rise to 95%.

Liberty also conducted the following marketing efforts in 2016:

- 1) Sent 5,774 direct mail pieces to potential customers located adjacent to existing gas mains in our distribution system;
- 2) Sent 13,274 direct mail pieces to potential customers located in areas that could be served by constructing gas main extension projects.
- 3) Placed newspaper ads in local NH papers for the commercial market;
- 4) Produced promotional items for both commercial and residential sales representatives including door hangers, brochures, and other handouts;

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities Docket No. DG 17-XXX Attachment RGM-BRF-3

April 14, 2017

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Randall S. Knepper December 30, 2016 Page 2

5) Sent personalized letters to homeowners whose streets were scheduled to be repaved.

The overall sales and marketing efforts yielded impressive results. Liberty added 1,637 new customers in 2016 (after adding about 1,200 customers in 2014 and 1,817 new customers in 2015). By comparison, the predecessor company averaged about 600 new customers each year. The 2016 growth required about seven miles of new main and 809 new services.

The Company plans to conduct a similar marketing effort for the coming year. Please let me know if you need any other information.

Sincerely,

Michael J. Sheehan

Millian

Cc: Alexander F. Speidel, Esq.



«Date»

«Customer_First_Name_» «Customer_Last_Name_»
Or Current Resident
«House__» «Street_Name_» «Suffix_» «Unit_Type» «Unit_»
«Town_», «State» 0«Zip_»

Este é um aviso importante. Queira mandá-lo traduzir. Este es un aviso importante. Sírvase mandarlo traducir. Avis important. Veuillez traduire immediatement.

Page 1 of 1

Questa è un' informazione importante, si prega di tradurla.

ĐÂY LÀ MỘT BẢN THÔNG CÁO QUAN TRONG XIN VUI LÒNG CHO DỊCH LẠI THÔNG CÁO ÂÝ

Это очень важное сообщение. Пожалуйста, попросите чтобы вам его перевели.

Dear «Customer_First_Name_»,

This is an important notice to inform you that Liberty Utilities will be working in your neighborhood to maintain and/or extend the integrity and reliability of our natural gas distribution system. The work will take place on «Work_Location_» and will begin in «Work_Begin_DateMonthSeason». Work will generally take place from 7:00 a.m. – 5:00 p.m. Monday through Saturday. We apologize in advance for any inconvenience, but this project is part of our commitment to provide continuous improvements and keep the natural gas delivery system safe and reliable.

- Liberty Utilities and/or a qualified contractor will perform the work. A police detail will be provided, if necessary. The road will be open to the public and parking may be limited. A construction foreman, with appropriate identification, will be on site to address your parking needs throughout the duration of the construction.
- There may be a lag between temporary and permanent restoration of the street and sidewalk, depending on weather and ground conditions.

If you have any questions about the project, please call «Construction_Employee_Name_» at «Construction_Employee_Phone_Number_». For general inquiries, Customer Service can be reached between the hours of 7:00 a.m. and 5:00 p.m. Monday through Friday at 1-800-833-4200.

Not a Liberty Utilities natural gas customer?

If you do not currently have natural gas, now is the best time to make the switch. Once your street is repaved, it will be **multiple years** before Liberty Utilities will be able to connect your residence to gas. For further information about converting to natural gas, call **1-800-833-4200** and press **option 5**. When calling, please reference Code: **«Code_»**

Sincerely,

Liberty Utilities

chment RGM-BRF-5 April 14, 2017 Page 1 of 1



«Date»

Dear «Customer First Name »,

I am the Residential Sales Supervisor with Liberty Utilities, and I am contacting you to make you aware that Liberty Utilities will be working in your neighborhood to maintain the integrity and reliability of our natural gas distribution system. After researching your property, it looks like you are not currently using natural gas.

Once all work in your neighborhood has been completed, the road will be repaved and there will be a restriction put in place that will prevent us from bringing natural gas to your home/business for a minimum of 5 years. Upon receipt of this letter, it is imperative you contact us right away. I have included some information about natural gas that will help you make an informed decision. The Residential Account Managers and I welcome the opportunity to discuss your needs, and help you determine if natural gas is the right choice for you.

Sincerely,

Suzanne Pacheco, Residential Sales Supervisor «Liberty_Employee_Phone_Number_» «Liberty_Employee_Email»

Kindly reference **«Lead_Source_»** when you contact me