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CITY OF MEDFORD.

THE
MAYOR'S ADDRESS
TO
THE CITY COUNCIL,
JANUARY 6, 1896.

THE
CITY GOVERNMENT,
THE
FINANCIAL STATEMENTS,
AND THE
ANNUAL REPORTS,
For the year ending January 31, 1896.

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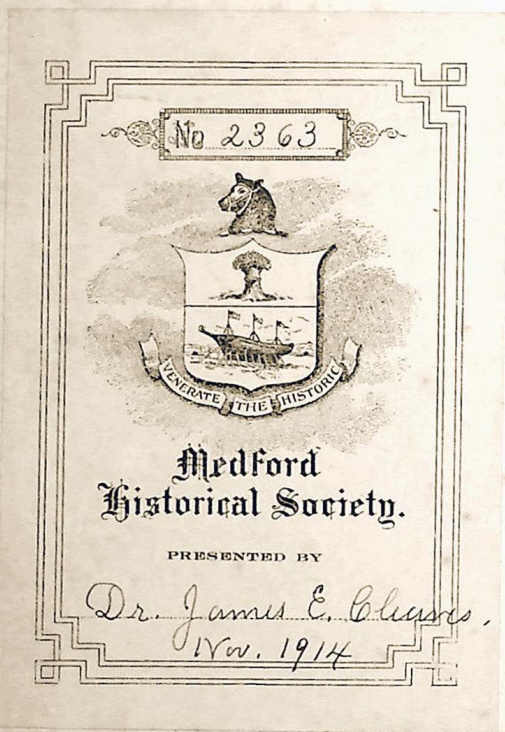
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PUBLISHED UNDER THE DIRECTION OF THE CITY AUDITOR.

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ADDRESS
OF
HON. BAXTER E. PERRY,
MAYOR OF MEDFORD,
DELIVERED JANUARY 6, 1896.

Gentlemen of the City Council:

The legislative life of Medford's City Government for 1895 this day ends. The end of a life is not the usual subject-matter of congratulation; but the life itself that has come to an end is often and wisely the subject of grateful remembrance and commendation. And in behalf of the citizens so largely interested, and in my own behalf, I cannot let the occasion pass without saying, that from such a life as has just ended come prosperity and safety to any city. No year's life for our city has been, or ever will be, in fair likelihood, more burdened with perplexing cares. No year will ever require, until our present is very largely outgrown, so much money, nor the decision of more vital questions, or any larger amount of anxious legislation. And with it all there has been manifest no selfishness, no partisanship, no jealousies, no personal or general friction. The quietude of the work has concealed the merits of the workers. What has been done has fulfilled its purpose with so little jar that the difficulties overcome have not been seen. Not that all have thought alike. This ended life has known disagreements, but it has discovered also the sweet secrets of self sacrifice; and whatever differences of opinion have existed or still exist, I am sure that no critic, however hostile, no observer, however close, can fail to unite with me in the belief that there has been no difference in the wish and pur-

pose to serve the city of Medford unselfishly and for its true interests. I can use no stronger language of commendation than to say, from such an official life we all part with *pain* but with *pride*.

"The King is dead — long live the King!" For the new legislative life of 1896 this day begins, and in behalf of the citizens, and in my own behalf, I bid it a glad welcome. It comes to undertake the trusteeship of a whole city, and it assumes no very dark or doubtful chances. It can be congratulated that all its possibilities and probabilities are for reasonable success, for it has now been practically proven that the resources of Medford, wisely administered, can furnish all needful services for the city without adding to any very large extent, for the present at least, to our tax or debt rate. You come to your work, gentlemen of the City Council, with this reasonable assurance in advance, and it will be, I doubt not, your purpose and will to maintain it, and make, if possible, assurance sure. Pride, ambition, and love of our city are all invoked. Office or official life is short. We are but briefly here, and then are gone, and, as individuals, forgotten. But the marks we can leave in this short time need not be brief or perishable, and may remain for the good and perhaps the proud remembrance of the city while it endures.

For a year, if health and life are spared us, we shall have to think, and reason, and act together. At times, all will be plain and we can agree. At times our convictions may be in opposition and we can agree to disagree. At other times the matter may be dark with doubt, and sometimes we may be called on to act when, in our individual minds, we really do not know what is best. Now, in these latter cases what shall we do? You will all be assigned, pretty soon, to committees, and in committee all these things are first to be discussed. Doubts and individual differences at once arise. Now, what is best? *Certainly not procrastination*. There may be a hope that if the matter is put over, meeting after

meeting, time will clear the doubts or differences. But this, you will find, is generally error. After reasonable thought and discussion, there is no usual gain in withholding action. And action is what is needed; not only in committees but in your boards. Let us live up to our own belief in the government of majorities. To action there can always be adaption in the other departments, and even errors in action are oftentimes better and more manageable than no action at all. I say this to you early in the belief that it will be for the good of us all. A prompt and humble judgment in your best knowledge and wisdom should be your motto and purpose as you now turn to the trials and duties to which you have been called, and to which you so auspiciously have come. May your success exceed even the hopes of the city!

And now to the administrative officers and departments of the city I desire to express my grateful acknowledgments for their faithfulness and, I can properly say, devoted services to me and the city, so far in this year of their work. It requires close contact and close observation to enable one to realize what these officers and departments have done and are doing. Our citizens do not and cannot realize it; and therefore they do not feel the obligations they are under as I wish they might. Those of you, gentlemen, who have been members of the government in the past, have a better realizing sense. Many of these officers have no compensation, in any proper sense, and yet are furnishing brains, and labor, and time that could hardly be got in the market at any price. Our Sewer Commissioners, Water Commissioners, and the Board of Health are laying the city under obligations which it can never discharge. And many of our salaried officers are doing a work for which their salaries are but poor compensation. This I think is especially true in our Auditing, Assessing, Treasurer's and Collecting departments. But it is largely true also in the City Clerk's office, as well as in the Inspecting, Law, and Street Commissioner's departments. Almost everywhere the work multiplies and

becomes more and more exacting, year by year. Sewers, water, and the new High and Hillside school buildings, and so forth, have required a large amount of money and work this year which will prove exceptional, and so the labors in some of these departments, we may hope, will be lightened somewhat in the immediate future; while in others the work will increase. But the duties which will ever belong to these officers, while faithfully discharged, will ever impose obligations on our city, and ever call for appreciation and acknowledgment on the part of the city's executive.

Some of the salaries of which I have spoken have been raised somewhat for the time to come, under my recommendations and the action of the government, though not raised quite as much in some cases as I could have wished. My recommendations in reference to these salaries have been thoughtfully, conscientiously, and, as I believe, wisely made. But the action has been subjected to some criticism. The question has been asked, "Are you not burdening the treasury by this increase?" My answer is, "I think not very sensibly, as I study its probable liabilities and assets." But, even should my calculations prove wrong, my final answer and my own sense of justification lies in this: better burden the treasury somewhat than the faithful servants of the city. There can be no more increased salaries paid during my administration, though if my own sense of what is right and reasonable could obtain, there would be some additions made to still other salaries; not because our salary list is lower than that of other cities, but because I feel that we have not yet done quite justice to all of our workers.

Coming now to the general condition of municipal affairs, I desire to touch, briefly as I must, on what has been done during the year past, and what is now being done by the city.

The Hillside schoolhouse has been finished, and is largely occupied, and all within the appropriation made for it, and

it should be, and I doubt not is, a pride to its architects and to its builders, as it certainly is to us.

The new high school building is not quite complete, delay having been caused, mainly, by strikes in outside departments on which our own contractors had to depend; but it is substantially done and substantially paid for, and I am happy to say that this also is likely to be wholly paid for out of the appropriations originally made for it, notwithstanding the foundation cost some four thousand dollars more than estimated, on account of the site having once been the location of a very old brick yard, and, notwithstanding certain changes and improvements not originally contemplated, more and more I think our citizens will rejoice in the effect or influence on our municipality of that grand building and the grander institution it is to harbor and develop.

The new police station is occupied, complete in every detail for useful and comfortable working. In effect, three new patrolmen have been added to the force. Some of the salaries have been increased, and, so far as I can see, the police department is now fairly ample and fairly equipped to care for our city for many years to come, though I could have wished, and still wish, as I recommended, that we had one more patrolman and that a little more change had been made in the salaries. The department is working very harmoniously and well, and earning both public and private praise.

The changes that have been made in the city hall have been found to meet all reasonable hopes and expectations. The improvement is in fact very great. The offices have been separated, securing proper isolation, so that confusion and loss of time is thus overcome and work is done more easily, and the whole floor has been made more light and cheerful. It was an anxious thing to undertake these changes and cost very serious doubts. The building is very old, its probable life is limited, and good authority believed it was not sanitary and could not be made so. But the government

was under the necessity of having fire-proof vaults somewhere. The statutes enjoined that. Some of the offices could no longer get along. No movable safes could meet the need. We were losing in the wear and tear of books and records beyond bearing, and fire risks were very great. This decided the doubts, for it was hoped and believed that by cleaning the old police station and everything else offensive and dangerous out of the building, and connecting with the common sewer, it could be made cleanly and fairly healthful. Very strong, convenient and commodious vaults have been built, from the ground up to the ceiling of the street floor. Fire risk has been destroyed. All municipal records and plans for every department, of almost untold value, have found room and safety. Legally, and in comfort, if the building is sanitary and fire spares it, we can now wait our own time for a new city hall. For the annexes we are and must remain dependent upon General Lawrence until something new crowds out the old.

Great changes and improvements have been made in our Assessing Department during the year, entailing a great amount of study and labor, but resulting in simplicity of records, convenience to the citizens in examinations, and conforming to the best methods used in modern cities. I think our citizens and strangers will be agreeably surprised in these improvements, as well as greatly accommodated in having the Assessors' office open at all business hours; it being now connected with the Collector's office, who, being one of the Assessors, is, by himself or clerks, always in attendance. But not merely in methods but in results has this department most successfully achieved. I said in my inaugural address last year that: "We have good reason to hope, though the hope may not be quite realized, that within the limits of the time allowed by our charter we may raise our necessary revenue on the tax rate that will then be obligatory," to wit, \$12.00 on a thousand, January 1, 1897. But this \$12.00 is exclusive of our County and State tax.

That is, Medford's expenditures alone must then be met by a \$12.00 rate. The tax bills have shown that in this one year we have not only got down to the limit, but below, viz.: \$11.42 on a thousand. Of course this result comes largely from our increase in valuation, but very much of it is due to the labor, exhaustless searching, and the judgment of our Assessors. And in this they have been greatly aided by the unexpectedly large progress made by our City Engineer in his preparation of a set of maps made for the Assessing Department, or what we may generally call the "city map." Hardly any language can give an adequate idea of the value of what is thus contemplated, and so encouragingly under way, at a comparatively inconsiderable cost. The years to come will show larger gains from it, if completed, than what have been made this year. I think we shall all feel that the Assessors are well deserving of the little increase that has been made in their compensation.

Our Inspecting Department has also been a very busy and hard worked department during the year. Besides attending to the buildings already in hand from last year's permits, new permits for buildings and changes have been granted during the year to the number of 318, of an estimated cost of \$735,639, and the value of this department is already clearly seen in the better character of the buildings being constructed. They are stronger, safer, more sanitary, and so more permanent and creditable to the city. But this building is going on almost all over our wide territory, and some of it has been of unusual importance, and the amount of it has been, for us, very large. Sewers or sewer connections have added and will add to the burdens of the department, especially the plumbing part of it. There has been manifested a desire to run the department in the most economical manner possible, and this has added to its burdens and subjected it to the fatiguing drudgery and loss of time resulting from too much walking. Our Building Inspector, to help this, has used his own horse during the year, the city

paying for its keeping only. But this only partially helps the difficulty, and in view of the amount of building likely to be done during the coming year, I think a horse, or horse hire, should be provided, more especially for the use of the Plumbing Inspector, and, therefore, that a larger appropriation should be made for this department, and that we should see that it is helped in every way in its very important work. We have somewhat increased the salary of the Building Inspector, and with this desired provision for the plumbing branch, this department will have been properly cared for, and can be left for some years without farther provision.

And this, it seems to me, is the proper way for the city to do: Take one department after another and make reasonably satisfactory and permanent provision for it, and not be continually making lesser and only partial provisions. This is what I have recommended in the Assessing, Police, and Inspecting Departments, and during the coming year I may make similar recommendations in reference to the Fire Department and possibly some others.

I wish also to say that the City Clerk, with all his multifarious duties, has made a large beginning, on our small appropriation, in copying, indexing, binding, and preserving the records of births, marriages, and deaths of the old town and of the city — one of the most important and necessary works for the city. It is complying with a law openly defied by us for years. It is providing for the convenience of constant searchers, and laying a safe basis for genealogical and historical purposes for all time to come. After long examinations, consultations, and comparisons, he has established his own system of card indexing, thoroughly approved by the State Commissioner of Public Records, and believed to be the best in the Commonwealth. About ten thousand entries have been already indexed. For the purpose of verification and the supplying of omissions and correction of errors, he has made copies of the inscriptions on all the grave and tomb stones in the Salem Street and Cross Street

cemeteries, in number exceeding sixteen hundred. He has obtained the names, date of birth, and names of parents of some twenty-two hundred scholars in our public schools, born between the years 1878 and 1890, and has found that about eight hundred of these were born in Medford, and that the births of about one hundred and twenty-five had never been recorded. He has obtained, through the kindness of the Rev. Henry C. DeLong, the records of the first parish of Medford, containing the account of the baptisms, marriages, and deaths to a great extent, from the earlier times up to about the year 1830, and has acquired the use of a very valuable memoranda book from Miss Martha Cushing. In these and in all ways he is striving to fill up the incompleteness of our old records, and correct the errors in them, and his success shows that this work has been too long neglected. Larger appropriations should therefore be made for this work, that it may be hastened while our present clerk can do it, whose ability and special aptitude for it have been so clearly shown. He believes that the indexes when completed to this date will contain from fifty to sixty thousand cards.

The Water Commissioners have very nearly finished their work of "water construction." High service is practically completed, and it is believed that but few more new iron mains will have to replace the old mains, save as these gradually give way. And the commission, after a comparatively short time more, will exist only for "water maintenance and supply." From gloom and doubt, and in some minds almost despair, we have emerged on to a plane of absolute confidence and assured success. We have now no sense of haste or anxiety of any kind as to what the commissioners on the Metropolitan water supply may or may not do within the next five or even ten years. The longer we can be independent, the better off we shall be, and the nearer our water debt will be paid.

There is yet no definite information that I can impart in

regard to this Metropolitan water supply. The matter of time, the matter of cost to us, the amount of what we are to receive for what we furnish, are yet considerably uncertain. We shall sometime be assessed so much a year for this foreign supply, but, as I understand it, no assessment will reach us until 1898, and the assessments will then be small until such time in the future as we have "reached the safe capacity of our own sources of supply in a dry year as determined by said board"; after that they will be larger, and whatever they are, and whenever made, we shall have to pay them out of water income, diminishing, of course, by so much, what we should otherwise have been able to pay into our sinking fund.

But we should all be glad that this foreign water supply has been provided, for some time certainly, if we grow on, we should have suffered and perhaps perished without it. And now our anxieties are all allayed for all time. Our own Water-Commissioners are ever to remain in charge of the department just as heretofore. You will notice in the financial statement that the funded water debt for the old and new bonds is stated at \$458,000, showing that the present commissioners have accomplished their work for \$42,000 less than the amount of bonds we were authorized to issue for their use, viz. : \$300,000. It is, however, probable that some portion of this \$42,000 may yet be required for the purchase of land to protect our water supply, so that our entire water debt can hardly yet be considered definitely fixed. But, in any event, it does not seem likely to ever become burdensome, although it will not be paid as soon or as easily as it would have been if our own water supply could have continually provided for us. But, after paying whatever annual charges may be made against us, there will still be balances for our sinking fund that will pay this debt within the twenty-three years' limit of its existence, to say nothing of what we may receive from the Metropolitan Commissioners for property rights that they may take from us,

and remembering that there is now nearly \$45,000 in the sinking fund, with more than \$10,000 to be immediately added, and with only \$4,000 of bonds to pay until the year 1900.

I wish the members of the government and our citizens generally would visit the pumping station and the lands of the city around about it, and see what has been accomplished in the way of model works and almost park development. We cannot overstate our congratulations or acknowledgements to our Water Board.

The Sewer Commissioners have now, in all, put in some twenty-eight miles of sewers. The assessments have been largely made therefor, and connections have been made with some three hundred and fifty of our buildings. This work is very great, even unexpectedly great, and will require some time yet to finish; and it involves very large expenditures, and subjects our streets to hard trial, and our estates, to some extent, to temporary inconvenience and injury, while it puts some of our citizens to an expense, in connection with their homes, which they are poorly able to bear. But the Commissioners are doing all in their power to make these burdens as light as possible. The Board of Health is aiding in the matter and acting in accord with the Commissioners, so that, while health and safety may be secured, no unbending rules shall be enforced, or any hardships imposed that can be avoided with safety.

For this great and ever-increasing system of sewerage we were authorized to raise \$350,000 by the issue and sale of bonds. The City Council has already appropriated (including \$15,000 for brooks and streams and \$15,000 for sewer pipe, etc.) \$319,000. This leaves \$31,000 for future construction, and there is an unexpended balance of former appropriations of about \$25,000. Now, if the City Council will re-appropriate all moneys received from sewer assessments for sewer construction, which we think and are legally advised it has full right to do, and provided that the number

of our streets does not increase too rapidly, it is possible, by the work being carried on rather more slowly, or being extended over more time, that we may not have to go to the Legislature for authority to issue more bonds. The commission finds that the cost per mile is falling under the original estimate, and this increases our hope in this direction, though perhaps we cannot tell yet with absolute certainty just what the amount of this loan will ultimately be. But I am clear that we can feel assured that, if this present commission is spared to complete the work, this debt will be kept within the above limits if possibly consistent with good, permanent work.

And yet this sewer construction and maintenance will necessarily be the heaviest burden our city has got to bear. There will be no income from it coming to us. The requirements of the sinking fund and for interest, and for our part of the cost of the Metropolitan sewer, will have to be met solely by taxation. And in addition there will be a heavy annual charge for maintenance, for the Metropolitan Sewer Commission is to charge the entire expense of pumping the sewerage into the ocean to the several cities and towns that empty into the Metropolitan sewer, on a basis having relation to population. This charge is likely to be quite large and ever constant, to say nothing of the cost of flushing and maintaining our own local sewers. But we have the fact that we have borrowed this sewerage loan on long times, so that the sinking fund requirements will not demand very heavy annual taxation. The balance of our comfort must come from the sense of the improved condition of our city in a safe and sanitary point of view for all time, and from the large saving our householders will make in having no cess-pools to clean out and pay for, which saving will equal or exceed all sewer cost to a large portion of them. And so I trust that we can go cheerfully and bravely under whatever our burden may be, this being the only one that can really cost the treasury much anxiety.

The Street Department of our city has, to my mind, achieved very satisfactory results so far during the year, in view of its means and the difficulties it has had to meet. No department of our city is so thoroughly tried and handi-capped; no department is so little understood or unreasonably criticised.

In the first place, our streets are kept in a bad and, in some cases, wretched condition, owing to the fact that our surface drainage has never been properly cared for. In many places no attempt has ever been made to provide for it, and where attempts have been made in the past, the conduits or pipes to carry it off have been made too small. No proper care has been taken as to the outlets or discharge of these pipes. They have been turned anywhere where there was a possible chance, and oftentimes where they had no right to be turned, and, therefore, at any time are stopped up with impunity. And then in the frequent digging of our streets these conduits or pipes have been often and largely broken or stopped up, so that the results have been, and still are, that many of our streets and sidewalks are continually washed and made in every way vile and subject to complaints. More than once there have been reasonable calls, at nearly the same time, for work on such badly washed and inundated streets and walks that would cost three times as much money to remedy as our Street Commissioner is allowed for his whole year's expenditure. It seems clear that our city will yet have to spend \$100,000 alone for the care of this surface drainage. All is being done that can be done, and as fast as possible, but it will take years to accomplish the work faithfully and well; and the patience that comes from clear understanding will have to be exercised. And next to this great difficulty comes the difficulty that has resulted from gas, sewer, and water digging and connections, not only in the streets actually dug, but by the anticipation of such digging in other streets, for money cannot be spent on a street soon to be dug up any more than a street already under that

affliction. There has been a radical defect in all our legislation and in our methods heretofore in reference to this street work. Gas, water, and sewer mains have gone in independently of each other, and connections have been made independently, thus keeping our streets in a condition that forbade any permanent work on them. All can see that until all digging between gutters or edgestones is substantially ended, no streets can be perfected, and all work on them, beyond keeping them barely passable, is prohibited by economy and good business. The evils we have suffered might have been prevented by the appointment of a board of public works, or by giving the full control of the streets to a Street Commissioner. But it is too late to talk about what might have been. Our hope and comfort now lies in the fact that our water and gas mains are substantially in, and the greater number of our more important streets are now sewered, so that the trouble hereafter can mainly come from water, gas, and sewer connections. And the question is, whether the City Council should not provide by ordinance that whenever a water, sewer, or gas main should hereafter be laid, there should not also be made the beginnings of the connections from the mains to the gutters or edgestones in every place that connections in the future can be reasonably anticipated, the expense of this partial connection with the sewers to be charged to and paid by the abuttor at once, the balance to be paid when the connections are completed, gas and water connections not being chargeable to owners. Difficulties may arise in doing this, but I can see no other way in which to save our streets or relieve our Street Commissioner. And, meanwhile, let us be careful in charging to a department what is only chargeable to a condition. In theory and in fact, where there is no board of public works, a Street Commissioner should have absolute control of established streets and of all there is in them or from them. Then make him responsible for them. Digging between sidewalks would then all be done practically at the same time or in close se-

quence. Results thus achieved might be slower, but the other gains would pay for the loss.

But in the condition in which we are and have been, let criticism be thoughtful and modest. Streets are the pride of every true street commissioner. He will nurse them almost as children, doing for them all that can be done with the means for them. He alone is responsible for the appropriations made for him. Better than anyone else, he knows *where* and *when* and *how* each dollar allowed him should be expended to produce the best results. The needs are many and great, and the means for meeting them are yet limited. To do all that is important and all that is asked for is absolutely impossible. But we are gaining, after all, in the general condition of our streets. Where they have been undisturbed, or perfected, and the surface drainage cared for, they will compare favorably with those of any similar city that has appropriated no more money; and with patience for a few years, we shall have streets to our reasonable satisfaction and to the pride of a street commissioner.

Having now looked at the main things that have been going on the past year, let us anticipate some things that will probably require more or less of our attention and our appropriations during the year to come. It is well to speak of these things early, that we may have the more time for reflection and the study of finances, before any required action.

The matter of a new or additional building in connection with our almshouse will probably require our attention. On account of our money needs this has been put off for many years, though we have been lately in constant danger of an influx of inmates for which it would be impossible for us to provide. Those we now have are crowded, and it is very difficult to care for them, and some have, even now, to be boarded out. The Overseers of the Poor will explain these matters to us later and say whether they can get along as they are, or whether they must have relief.

Our Fire Department will also require some thought and

possibly action. It is doubtful whether it is sufficiently equipped so that we may feel safe for a few years to come. With the great additional water pressure which we have now, we might feel tolerably safe with the one steam fire engine we possess, if we knew that no breakdown would occur to it at the precise moment of need. But it does become a question whether this is not a liability which we ought not to assume. No new company need be organized, the thought only being whether an extra engine should be provided, as we have a place where it might be kept. It may also be a question for our consideration whether the hose house on Salem Street should not be rebuilt, or the lot sold and a new building erected on cheaper land. Any examination of the old building will assuredly condemn it. It is unfit for our firemen. When we can afford a new one is another question for our consideration. I think also that the salaries in this department should demand, once and for all, our attention and best judgment.

The Trustees of the Public Library are suffering for an addition to the library building, on land for the purchase of which we appropriated money last year. How long suffering they can be I do not know, but we can rest assured that the interests of Medford will be carefully considered in any action or request of such a board.

Some time it will doubtless be best to build a stable on the ground and for the use of the new police station. The ambulance or patrol wagon is often wanted in the quickest possible time, and the boarding of the horse or the hiring of a stable or the place for the ambulance are not always matters that can be controlled in our favor. Absolute independence may be the safer course as well as the cheapest in the end.

A permanent lady clerk will have to be provided for the Assessors' Department, who must have all the office knowledge of the Assessors themselves, and be able to furnish assistance to all seekers and answer all questions pertaining to the department.

The subject of an armory for our military company may also require study and action. Our present armory is wholly insufficient, and has been condemned by the State, which refuses to reimburse us one dollar of the rent which we have to pay for it. The matter has been up for years, and there is danger of statute liability, which says that we shall provide a suitable armory. But so many questions arise concerning it, and our relations to the State are so peculiar, and so many queries may be suggested, that I do not yet see my way clear to recommending action, yet the government during the year can hardly avoid the subject.

Our School Committee have long ago recommended the purchase of a tract of land bounded by Central, Sheridan and Farragut Avenues, containing some 38,762 and $\frac{9}{100}$ square feet, for the purpose of securing it for a schoolhouse lot, in anticipation of the need of a new schoolhouse in that section in the near future. I was then, and am still, impressed with the prudence of the suggestion and the wisdom of the selection. But other money demands during the past year have seemed more absolutely imperative, and no action has been taken. This year the matter will probably have to be acted upon if the land should still remain available at a price that we can afford.

The question of the city owning its own lighting plant will be more or less discussed during the year. But no money will be wanted, as the matter has first to be subjected to a vote of the citizens. Some initiatory action has already been taken by the outgoing government, and a report will doubtless be made in the course of the year as to the probable cost, gain, etc., which we may all study and thus become ready for action. We may all become convinced that economy and wisdom lie in that direction, on the principle that the people are meant to and can take care of themselves. Fortunately this is a matter for the citizens and not for us, in the first instance.

Before the year is out I presume that there may be an as-

assessment upon us for parks and parkways or boulevards. I cannot give as yet any information as to the exact amount of such assessment, should it come, nor of the after assessments as the years go on. But they cannot be large, for the statutes limit the original cost of parks to each city to a small percentage of the valuation of the city, and the cost of maintenance of the parks is simply sinking fund requirements. The cost of construction and maintenance of the parkways is paid one-half by the Commonwealth and the other half by the cities and towns in the Metropolitan Parks District, thirty-seven in number, I believe. Therefore I cannot see how these parks or parkways can be very burdensome to us, and I long to see them completed. They will yield a great revenue of pleasure and satisfaction, as well as of practical benefit, for they will invite residents from abroad, being, as they are and ever must be, a standing invitation to persons of taste, and very desirable lands will be opened for development by them.

It does not follow, from this brief anticipatory look, that there may not be other matters that will require new appropriations during the year, but I have named substantially all that seem to be in sight.

Let us see now how our finances have stood the year past and what they seem able to bear for the years to come. Tabulated in the same form and order as last year, they appear as follows :

Our permanent debt, representing trust funds, is \$31,431 92

The funded debt is \$1,018,000, and consists of

Medford Water Bonds :

Dated July 1, 1890, payable in 1900,	\$75,000	
Dated July 1, 1890, payable in 1910,	125,000	
		————— 200,000 00

City of Medford Water Fund Bonds :

Dated Jan. 1, 1894, and payable \$4,000 each year from 1899 to 1923 in- clusive	\$100,000	
Also bonds dated Oct. 1, 1894, and payable \$25,000 in 1914 and \$25,- 000 in 1919	50,000	
Also bonds dated Dec. 1, 1894, and payable in 1922	45,000	
Also bonds dated July 1, 1895, and payable between 1916 and 1923	63,000	
	<u>258,000</u>	00

Medford Public Building Loan Bonds :

Dated July 1, 1893, and payable in 1913	\$45,000	
Dated Nov. 1, 1894, and payable in 1914	56,000	
Dated July 1, 1895, and payable be- tween 1899 and 1915	149,000	
	<u>250,000</u>	00

City of Medford Public Playground Loan :

Dated July 2, 1894, and payable in 1904	\$7,000	
Dated Dec. 1, 1894, and payable in 1914	14,000	
	<u>21,000</u>	00

Medford Sewerage Loan :

Dated July 2, 1894, and payable in 1905	\$20,000	
Dated July 2, 1894, and payable in 1906	12,000	
Dated July 2, 1894, and payable in 1907	12,000	

Dated July 2, 1894, and payable in 1915	\$10,000
Dated July 2, 1894, and payable in 1924	10,000
Dated Oct. 1, 1894, and payable in 1905	10,000
Dated Oct. 1, 1894, and payable in 1906	10,000
Dated Oct. 1, 1894, and payable in 1915	10,000
Dated Oct. 1, 1894, and payable in 1924	10,000
Dated Aug. 1, 1895, and payable a part each year from 1916 to 1923	185,000
	<u>\$289,000 00</u>
The unfunded debt, consisting of long notes, is	96,500 00
	<u>96,500 00</u>
The total debt of the city is	\$1,145,931 92
The sinking funds amount to	72,287 94
	<u>72,287 94</u>
The net debt Jan. 1, 1896, is	\$1,073,643 98
The net debt Jan. 1, 1895, was	653,441 92
	<u>653,441 92</u>
The increase to Jan. 1, 1896, is	\$420,202 06
The Assessors' valuation, May 1, 1895, was as follows:	
Real estate, buildings	\$6,975,975 00
land	7,731,425 00
	<u>7,731,425 00</u>
Total	\$14,707,400 00
Personal estate	2,271,900 00
	<u>2,271,900 00</u>
Total valuation	\$16,979,300 00

The debt exclusive of the funded debt is $\frac{7.6}{100}$ of one per cent of the total valuation.

The first thing you will notice in this statement is that our funded or bonded debt has become very large, and, as we have seen heretofore, the amount of this class of indebtedness is not yet quite reached. The water loan may be somewhat increased, the public building loan is fixed, the playground loan is not fixed, but is not likely to largely increase, while the sewerage loan will increase \$31,000, with bare possibilities, beyond. We therefore are in a position to see pretty nearly what our obligations *here* are likely to be, and we can calculate our burdens and quicken our caution in view of about what is apparent. And we must remember that we have no positive assurance that our valuation will keep on increasing as it has done. There are several possibilities which might happen which would diminish our tax income on personal estate. But our real estate valuation must increase rather than diminish, for real estate cannot leave the city, and those best posted seem to agree that there are larger indications for building and the development of new land than there has ever been before. These are the things that we must constantly keep in mind and strike the average probabilities as wisely and well as we can, in view of demands on the treasury. Our regular annual appropriations will have to be larger this year than they were last, but our debts for the past year on such appropriations are substantially paid, and we are likely to have money in the treasury at the end of the fiscal year, so that I have great faith that these larger appropriations can be paid for out of tax receipts. But it is a narrow view of finances to confine our view to the year directly before us. Coming administrations will have to provide for more public buildings for the city. I believe it to be poor policy to provide for or anticipate any more funded loans. What may be required should, in my opinion, be provided for by taxation. But, if borrowing in substantial amounts should become a necessity, it is of infinite consequence that any then existing unfunded indebtedness should be small, the smaller the better, and better still

if none. We therefore, and our successors, should strive to keep down our debt limit to the lowest possible point. You will see, however, that, unfortunately, our unfunded debt has increased this last year from \$68,000 to \$96,500, and so, of course, our debt limit has risen from $\frac{6}{100}$ of one per cent of our valuation to $\frac{7.5}{100}$ of it. But this has been caused wholly by two things. First, we have had to pay the judgment of Mr. White, a matter that came over to us from the long ago, and, secondly, we have had to borrow temporarily the money to build the Hillside schoolhouse. Taking these amounts out our debt would not be as large as last year, showing only that what should be called ordinary expenditures have not exceeded ordinary receipts. We have spent more money, but our valuation is larger by \$1,689,950. Our problem this year is to not let this unfunded debt increase, if it can possibly be avoided. Not so much for the coming year's effect upon the treasury as for the possibilities of a more distant future. Our charter fixes our tax rate. For this I am sorry. I believe it to be mistaken policy, at least for such a city as ours, but the law fixing it was already in existence. Our charter committee, however, succeeded, by strong effort, in getting an exemption from the law for some four years, which was fortunate for us. I wish the time had been much longer, or, indeed, never fixed. The city has but two ways of raising money, one by borrowing and the other by taxation, and it does not take a very profound financier to see that money should not be borrowed that ought to be raised by taxation, and with a given amount to be raised, the lower the tax rate, the larger must be the borrowed debt. We should less feel a dollar or two on our tax rate than the long burden of an unfunded debt.

The debt rate or limit should at all events be fixed as it is at two and one-half per cent of total average valuation for three years. Our showing in this regard is very favorable. There is certainly but one other city in the Commonwealth, if there is any, that near equals it. But we have no ambi-

tion to follow other cities in such a matter as that of indebtedness. There is a tendency, greatly to be deprecated, in this direction all over our country. Our ambition should be to do all that we reasonably can for our city, making it what it ought to be in a wise and even fairly liberal sense, and still keep our debt so down that our credit will ever remain unbounded, and anxiety ever be kept from the treasury. I wish, as I have stated, that our tax rate was not fixed, but being so fixed our attention can be wholly devoted to watching our unfunded debt, which, as the thermometer indicates the temperature, will ever indicate our exact financial condition. All can now see that we have good ground for congratulation and hope, but we must not diminish our caution or lose the edge of the finest mathematical calculations, while we still keep broad views and hold to a policy which the years will justify.

I need add but a word in conclusion, to an address already too long. Our whole duty lies in two things, striving for safe finances and good government. It does not require long study or wide experience to enable us to see just what those words mean. Let us strive to achieve their full meaning with all our brains and hearts, ever remembering, after we have done our best, that "except the Lord keep the city, the watchman waketh in vain."

MEDFORD HISTORICAL SOCIETY.
ac. 2363.

GOVERNMENT
OF THE
CITY OF MEDFORD,
1896.

Mayor.

HON. BAXTER E. PERRY,
Hillside Avenue.

Mayor's Clerk, EDWARD B. DENNISON.

Board of Aldermen.

(ELECTED AT LARGE.)

President.

WALTER F. CUSHING.

* WALTER F. CUSHING	6 Magoun avenue.
* EDWARD F. KAKAS	26 Brooks street.
* EDMUND H. PENNELL	27 Otis street.
† CHARLES H. BENNER	237 Main street.
† HENRY S. BRIDGE	19 Allston street.
† HERMAN L. BUSS	9 Royal street.

Clerk.

ALLSTON P. JOYCE 70 Garfield avenue.

(Who is also the City Clerk.)

* Term expires first Monday in January, 1897.

† Term expires first Monday in January, 1898.

Common Council.*President.*

EBEN F. ROBERTS.

WARD ONE.

Charles H. Bird	. . .	6 Fifth street.
John Oldfield	. . .	11 Cushing street.
George H. Perry	. . .	105 Otis street.

WARD TWO.

Thomas J. Bryant	. . .	85 Park street.
Elisha B. Curtis	. . .	22 Pleasant street.
George A. Holland	. . .	144 Park Street.

WARD THREE.

George W. Crockett	. . .	13 Water street.
Gilbert Hodges	. . .	Grand View avenue.
Eben F. Roberts	. . .	7 Salem street.

WARD FOUR.

George O. Foster	. . .	7 Walnut street.
John H. Hemphill	. . .	19 South street.
Oliver Whyte	. . .	7 South street.

WARD FIVE.

Elmer E. Bailey	. . .	Emery street.
George S. T. Fuller	. . .	1 Alfred street.
Gilbert F. Young	. . .	294 Main street.

WARD SIX.

Nason B. Cunningham	. . .	29 Warren street.
John H. Gerrish	. . .	14 Warren street.
Barker B. Howard	. . .	12 Cottage street.

Clerk.

EVERARD I. LANGELL . . . 46 Brooks street.

Clerk of Committees.

IRVIN E. PEAK . . . 21 Fulton street.

School Committee.*Elected at Large.*

Rosewell B. Lawrence, <i>Chairman</i>	Term exp. 1897.
Charles N. Jones, <i>Secretary</i>	Term exp. 1899.
William Cushing Wait	Term exp. 1898.

Elected by Wards.

<i>Ward 1</i> — Mrs. Amanda H. Plummer	Term exp. 1898.
<i>Ward 2</i> — Caleb K. Sullivan	Term exp. 1897.
<i>Ward 3</i> — Sidney Gleason	Term exp. 1899.
<i>Ward 4</i> — Gustavus F. Guild	Term exp. 1897.
<i>Ward 5</i> — William H. Hodgman	Term exp. 1899.
<i>Ward 6</i> — Mrs. Augusta R. Crosby	Term exp. 1898.
Charles H. Morss	Superintendent.

City Officers and Boards.

<i>City Clerk</i>	ALLSTON P. JOYCE.
<i>City Treasurer</i>	PARKER R. LITCHFIELD.
<i>City Collector</i>	EDWARD W. HAYES.
<i>City Auditor</i>	GEORGE D. CUMMINGS.
<i>City Solicitor</i>	BENJAMIN F. HAYES.
<i>City Engineer</i>	T. HOWARD BARNES.
<i>City Physician</i>	JOHN B. MAHONEY, M.D.
<i>City Messenger</i>	JAMES B. SIMPSON.
<i>Street Commissioner</i>	ANDREW W. BRYNE.
<i>Inspector of Buildings</i>	CALVIN H. CLARK.
<i>Inspector of Plumbing</i>	GUSTAVUS F. ANDREWS.
<i>Scaler of Weights and Measures</i>	HENRY F. MOORE.
<i>Inspector of Milk and Vinegar</i>	HENRY F. MOORE.
<i>Inspector of Animals and Provisions</i>	HENRY F. MOORE.

Board of Assessors.

Henry Withington, <i>Chairman</i>	Term exp. 1898.
Edward S. Randall	Term exp. 1899.
Edward W. Hayes	Term exp. 1897.

Board of Health.

Walter L. Hall, M.D., <i>Chairman</i>	.	.	Term exp. 1900.
James E. Cleaves, M.D.	.	.	Term exp. 1899.
William P. Clark	.	.	Term exp. 1898.
J. Walter Bean, M.D.	.	.	Term exp. 1897.
Alvin R. Reed, <i>Clerk.</i>			

Overseers of the Poor.

Calvin H. Clark, <i>Chairman</i>	.	.	Term exp. 1899.
William C. Craig	.	.	Term exp. 1898.
William A. Thompson	.	.	Term exp. 1897.
Edward W. Hayes, <i>Clerk.</i>			

Park Commissioners.

J. Henry Norcross, <i>Chairman</i>	.	.	Term exp. 1898.
Benjamin C. Leonard	.	.	Term exp. 1897.
John D. Street	.	.	Term exp. 1896.
Benjamin F. Morrison	.	.	Term exp. 1900.
Rosewell B. Lawrence, <i>Secretary</i>	.	.	Term exp. 1899.
(Term expires the first Monday in May.)			

Commissioners of Sinking Funds.

Samuel C. Lawrence, <i>Chairman</i>	.	.	Term exp. 1899.
Benjamin C. Leonard	.	.	Term exp. 1899.
William Cushing Wait	.	.	Term exp. 1897.
Daniel W. Lawrence, <i>Treasurer</i>	.	.	Term exp. 1897.
J. Henry Norcross	.	.	Term exp. 1898.
J. Gilman Waite	.	.	Term exp. 1898.

Sewer Commissioners.

Charles H. Parker, <i>Chairman</i>	.	.	Term exp. 1898.
John William Rockwell	.	.	Term exp. 1897.
James L. Work	.	.	Term exp. 1899.

Water Commissioners.

Frank E. Chandler, <i>Chairman</i>	. . .	Term exp. 1898.
Allston H. Evans	. . .	Term exp. 1897.
Eli Ayers	. . .	Term exp. 1899.
Fred L. Cushing, <i>Water Registrar.</i>		
Frederick W. Gow, <i>Superintendent.</i>		

Trustees of Oak Grove Cemetery.

Charles W. Jacobs, <i>Chairman</i>	. . .	Term exp. 1901.
Robert H. Grace	. . .	Term exp. 1897.
John Hutchins	. . .	Term exp. 1898.
Asa Law	. . .	Term exp. 1899.
Edward S. Randall	. . .	Term exp. 1900.
Allston P. Joyce, <i>Clerk.</i>		

Trustees of Public Library.

Samuel C. Lawrence, <i>Chairman</i>	. . .	Term exp. 1899.
Rev. Henry C. DeLong	. . .	Term exp. 1897.
James A. Hervey	. . .	Term exp. 1898.

License Commissioners.

Albert F. Sise, <i>Chairman</i>	. . .	Term exp. 1900.
William H. Warren	. . .	Term exp. 1898.
Daniel G. Mansfield	. . .	Term exp. 1896.

Registrars of Voters.

Henry B. Nottage, <i>Chairman,</i>	Term exp. May 1, 1898.
Horace D. Hadley	Term exp. May 1, 1896.
Thomas Crockwell	Term exp. May 1, 1897.
Allston P. Joyce, <i>City Clerk, ex-officio.</i>	

Engineers of Fire Department.

Charles E. Bacon, <i>Chief.</i>
Jude C. Clark, <i>1st Assistant.</i>
Frank O. Waterman, <i>2d Assistant.</i>

Police.

Emery D. Holmes, <i>Chief.</i>	William G. Ewell, <i>Sergeant.</i>
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Meetings.

Board of Aldermen. Alternate Tuesdays at 7.30 o'clock P.M., beginning January 14.

Common Council. Alternate Mondays at 8 o'clock P.M., beginning January 6.

School Committee. First and third Mondays of each month at 7.30 o'clock P.M., at Small's Block, No. 20 High street.

Water Commissioners. Second and last Mondays of each month at 7.30 o'clock P.M., at room 2, No. 11 High street.

Trustees of Oak Grove Cemetery. Second and fourth Mondays of each month at 8 o'clock P.M., at room 5, No. 11 High street.

Overseers of the Poor. Second and last Tuesdays of each month, at 7.30 o'clock P.M., at room 9, No. 11 High street.

Board of Health. Last Monday of each month at 8 o'clock P.M., at room 6, No. 11 High street.

Park Commissioners. Last Thursday of each month at 7.30 o'clock P.M., at room 5, No. 11 High street.

Sewer Commissioners. Every Monday at 7.30 o'clock P.M., at No. 7 High street.

SALARIES OF CITY OFFICERS,

AS ESTABLISHED BY ORDINANCE.

Mayor	\$1,000
Clerk of the Mayor	1,000
City Treasurer	1,650
City Clerk	1,200
City Auditor	1,200
City Solicitor	800
City Collector	1,200
City Physician	300
Assessors, each	650
Clerk of Assessors	400
City Messenger and Janitor of City Hall	1,000
Clerk of Committees	450
Clerk of Common Council	250
Registrars of Voters, each	100
Clerk of Registrars	125
Treasurer of Water Loan Sinking Fund	50
Inspector of Animals and Provisions	300
Public Weigher	25
Pound Keeper	25
Fish Committee, each	10
Inspector of Buildings	700
Inspector of Plumbing	1,000
Inspector of Milk and Vinegar	150
City Engineer, \$800 from appropriation for salaries, \$1,600 from department served	2,400
Overseers of the Poor, each	50
Chairman of Overseers of Poor	500
Secretary of Overseers of Poor	150
Water Commissioners, each	50

Sewer Commissioners, each	\$50
Trustees of Oak Grove Cemetery, each	25
License Commissioners, each	50
Chief of Police and Superintendent of Street Lights,	1,200
Sergeant of Police	1,000
Patrolman, each	900
Street Commissioner	1,600
School Committee, each	50
Secretary of School Committee	200
Board of Health, each	50
Chief Engineer and Superintendent of Fire Alarm,	900
Assistant Engineers, each	100
Drivers, each	800
Engineer steam fire engine and Assistant Super- intendent	900
Engineer and Driver of chemical engine	850
Firemen, each	50
Clerk of Engineers	50

CITY OF MEDFORD.

REPORT

OF THE

SCHOOL COMMITTEE

FOR THE YEAR ENDING JANUARY 31, 1896.

SCHOOL COMMITTEE.

1896.

ROSEWELL B. LAWRENCE, <i>Chairman</i>	15 Salem street.
CHARLES N. JONES, <i>Clerk</i>	150 Salem street.
WILLIAM C. WAIT	58 Forest street.
SIDNEY GLEASON	131 High street.
AUGUSTA R. CROSBY	242 High street.
AMANDA H. PLUMMER	14 Lawrence street.
GUSTAVUS F. GUILD	11 College avenue.
WILLIAM H. HODGMAN	25 Wareham street.
CALEB K. SULLIVAN	1 Central avenue.

CHARLES H. MORSS, *Superintendent*, 139 High street.

OFFICE HOURS: 4 to 5 P.M. Mondays and Tuesdays, 12 to 1 P.M. Thursdays and Fridays,
School Committee Rooms, Small's Block, High street. Telephone at residence. Call, Medford.

SUB-COMMITTEES.

High School	Mr. Lawrence.
Washington and Curtis	Mr. Jones.
Brooks and Gleason	Mr. Gleason.
Cradock	Mr. Guild.
Lincoln and Tufts	Mr. Hodgman.
Osgood and James	Mrs. Plummer.
Everett and Swan	Mr. Sullivan.
Cummings and Hillside	Mr. Wait.
Hall and Hervey	Mrs. Crosby.

STANDING COMMITTEES.

Appropriations	Mr. Lawrence, Mr. Jones, Mr. Gleason, Mr. Wait.
Rules and Regulations	Mr. Lawrence, Mr. Jones, Mr. Wait.
Course of Study	M. Lawrence, Mr. Guild.
Fuel and Accounts	Mr. Jones, Mr. Sullivan.
Text-Books and Supplies	Mr. Lawrence, Mr. Jones.
Evening School	Mr. Jones, Mrs. Plummer, Mr. Sullivan.
Music	Mr. Wait, Mr. Gleason, Mrs. Crosby.
Drawing	Mr. Gleason, Mr. Hodgman.
Penmanship	Mr. Hodgman, Mr. Sullivan.
Kindergarten	Mr. Guild, Mrs. Crosby, Mr. Hodgman.
Manual Training	Mr. Lawrence, Mr. Guild, Mrs. Plummer.
Sewing and Cooking	Mrs. Crosby, Mrs. Plummer.
New High School	Mr. Lawrence, Mr. Jones, Mr. Wait.

The Superintendent is a member of all standing committees.

DISTRICT COMMITTEES.

High School	Mr. Lawrence, Mr. Wait.
East District	Mr. Jones, Mr. Sullivan, Mrs. Plummer.
West District	Mr. Gleason, Mrs. Crosby.
South District	Mr. Guild, Mr. Wait, Mr. Hodgman.



HIGH SCHOOL BUILDING.

REPORT
OF THE
SCHOOL COMMITTEE.

CITY OF MEDFORD, January 20, 1896.

To His Honor, Baxter E. Perry, Mayor:

The rapid growth of our city in population presents difficult problems for solution and renders necessary a large annual increase in expenditures. The gain in pupils the past year has been 253, and it is likely to be 300 the coming year; and as one teacher cannot do justice to forty pupils, it follows that the total amount of salaries must be large. The completion of the new high school building the coming spring will enable the Committee to solve this problem, temporarily, at least, provided the salary appropriation shall be sufficient to give the school children the teachers they need. Having thirteen schools with fifty or more pupils, we engaged, January 1, under an appropriation granted in December, five assistants in the grammar and primary grades. This affords only partial relief, for, in addition to more teachers, better ventilation is needed. The Committee has already voted to place the ninth grade in the new high school building, to remain there until in some future year the high school grades shall need the whole building. The ninth grade scholars will be placed upon the first floor. To make this change we shall need two new teachers for grade nine, in addition to three of the present force who will be transferred. A new assistant will be needed for the high school grades, partly on account of increase of pupils and partly to relieve the present teachers, who are now doing extra work under the double session system. We hope that these three new teachers,

together with the teachers now under contract, will enable us to spread out our thirteen grades so that no schoolroom will be crowded.

Our new high school building is nearing completion. It is a fine structure in every way and a great credit to the city, and we expect that it will prove an incalculable blessing to our needy school system, in relief from crowding, in better ventilation and sanitation, and in facilities for improved methods of instruction. The strike of the steam fitters in September and October has prevented the main contractor from completing the building by February 1, the date fixed in the contract, but we hope to have the building in April, and have planned accordingly.

After the last annual report was prepared the Committee recommended the erection of a four-room wooden schoolhouse for primary use at the Hillside; an appropriation of \$16,000 was made by the City Council, the building was erected, and the schools took possession September 12. Wales & Holt were the architects; Ham & Hopkins the builders; Page & Curtin the plumbers; and Isaac Coffin & Co. the heating and ventilating contractors. All the work has been thoroughly done and the Hillside school is indeed a model. The State Inspectors were highly pleased when they examined the building and found that their tests showed thirty-nine cubic feet of fresh warmed air per minute for each pupil. Three rooms have been furnished instead of two, as provided in the estimate. Nevertheless, there is an unexpended balance of \$330.09, which should be reappropriated, as it will be needed to build a fence, fix the sidewalks and eventually furnish the fourth room.

Out of the original appropriation for the Lincoln school building the fifth and sixth rooms have been furnished, though these were not included in the original estimate. There still remains unexpended the sum of \$425.70, which should be reappropriated, as it can be well spent in minor ways.

The evening school is in a very prosperous condition, and

is undoubtedly doing much good. The average attendance is greater than in any previous year, but it is nevertheless to be regretted that more of our young citizens do not avail themselves of the opportunities offered. For further information reference is made to the report of the Superintendent.

The manual training work has been carried on very successfully during the past year. As will be seen in the Superintendent's report, one teacher has not time for all the boys. An assistant is much needed, not only because the boys increase in number, but because there is elementary work which could profitably be done. We therefore include in our estimate for salaries, \$600 for such an assistant.

The kindergartens at South and West Medford have been well patronized, and the intelligent and sympathetic kindergartners are doing valuable work in directing the development of the little children. A natural consequence of this success is an urgent demand for kindergartens in all other parts of the city. The School Committee are in sympathy with this movement, and earnestly recommend that funds be provided which will enable the Committee to establish kindergartens in Wards 4, 1 and 2. For this purpose, the sum of \$1,776 has been included in the appropriation for salaries.

The wish of the School Committee to introduce cooking has failed for want of appropriation. A third time we make the attempt, and include \$500 for that purpose. We believe in teaching cooking, not merely for practical results, but for the sake of mental development. Now seems to be a particularly opportune time to introduce this branch of work, as our worthy citizen, Mr. James W. Tufts, has generously offered the city the use of a very fine outfit for a cooking school.

The regular appropriations for the School Department have been made under twelve different heads. We find this inconvenient, and we see no good reason why all salaries should not be included in one appropriation. Such is the custom in other cities, and thus the number of different ap-

appropriations is made less. Boston provides for its school department in six different appropriations, Cambridge seven, Malden seven, Somerville five, Newton four. We respectfully recommend that the number of our appropriations be reduced from twelve to eight.

The occupation of the new high school building will largely increase the expenses for fuel, water and stewardship. The estimate for the fuel appropriation has been increased by the amount which the engineer who laid out the heating plant has estimated will be necessary. We have carefully considered the quality and amount of labor necessary to run the heating and ventilating plant and take good care of the building and grounds. We have already elected an engineer and fixed his salary at \$900. We must have a first-class janitor, and it will be a part of his work to take care of the general school supplies and the military equipment. It is evident that one man cannot do all the work without employing considerable assistance in sweeping, cleaning, shoveling snow and cutting grass, but he should be made responsible for the whole.

We have tried to economize in expenses for text-books and supplies by having two scholars use one book, but there are many disadvantages in this, besides the fact that the books wear out faster. We were obliged to ask for an extra appropriation on account of text-books and supplies the past year, and the increase for the coming year will be greater. We now have unpaid bills in this appropriation amounting to \$192. The occupation of new buildings unavoidably causes an increase in this direction.

The completion of the sewerage system in our city brings before us the question of sanitary improvements. No work can be conveniently done until summer, but meanwhile careful consideration will be given to the subject.

Attention is called to the recommendation last spring for the purchase of land on Central avenue.

Until this year Medford has shared with Winchester the



HIGH SCHOOL BUILDING.

time of a school Superintendent, Dr. Ephraim Hunt, a man of unusual ability and one to whom our city is much indebted. The appropriation last February enabled the Board to command the full time of a Superintendent, and on June 24 Mr. Charles H. Morss was elected. Mr. Morss is a graduate of Harvard in the class of '80; he has had valuable experience as a teacher in both grammar and high schools, and as a superintendent in Middleboro, Portsmouth and Milton. He came to us very highly recommended, and after five months of work has proved himself, to the satisfaction of the entire Committee, to be the right man in the right place. The City of Medford should be congratulated upon securing him as its Superintendent of Schools.

Appended is the list of estimates for the School Department for 1896. Respectfully submitted,

ROSEWELL B. LAWRENCE.
CHARLES N. JONES.
WILLIAM C. WAIT.
SIDNEY GLEASON.
AUGUSTA R. CROSBY.
AMANDA H. PLUMMER.
GUSTAVUS F. GUILD.
WILLIAM H. HODGMAN.
CALEB K. SULLIVAN.

ESTIMATED APPROPRIATIONS FOR 1896.

Salaries	\$56,786 00
Stewardship	6,114 00
Fuel	6,500 00
Water	700 00
Text-books and supplies	6,000 00
Contingent	4,500 00
Evening Schools	1,200 00
Transportation	600 00
Total	<hr/> \$82,400 00
Reappropriation, evening schools	\$137 97

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of the City of Medford:

Ladies and Gentlemen,—The following report is respectfully submitted :

I. POPULATION.

1895, State census	14,474
Number of pupils, May census, 1895, 5 to 15 years of age	2,201
Number of pupils, May census, 1894, 5 to 15 years of age	2,112
Increase	89

II. SCHOOLS.

High school	1
Grammar schools, Grades IV.-IX.	30
Primary, Grades I.-III.	19
Kindergartens	2
Total	52

III. SCHOOLHOUSES.

High	1
Grammar	3
Grammar and primary	8
Primary	4
	16

IV. TEACHERS.

Number of teachers in high school (male, 4, female 6)	10
Grammar schools (masters, 4), assistants, VI. to IX. (17)	21

Grades IV. and V.	12
Grades I., II. and III.	22
Kindergarten	4
	<hr/>
Total regular teachers	69
Increase of 14.	
Special teachers: music, 1; drawing, 1; sewing, 2; manual training, 1; military instructor, 1	6
Evening schools	6
	<hr/>
Total	81

V. PUPILS.

Number enrolled, 1895	3,241
Number enrolled, 1894	2,913
Increase enrollment	328
Average number belonging, 1895	2,556.3
Average number belonging, 1894	2,389.3
Increase, 1895	167
Average daily attendance, 1895	2,391.1
Average daily attendance, 1894	2,248.2
Increase	142.9
Number half days' truancy, 1895	207
Number half days' truancy, 1894	171
Number different truants, 1895	79
Number different truants, 1894	82
Number habitual truants, 1895	3

ATTENDANCE.

The regularity of the attendance has not been seriously affected by contagious diseases except at South Medford. The prevalence of diphtheria among the children attending the Tufts school made it advisable to close this building for two weeks the last of November. The disease has continued to appear at intervals through the fall and winter months, but

since January first there has been a great improvement in the attendance at this school. Whooping cough is at the present time causing some irregularity at West Medford in the primary grades. These causes have interrupted the continuity of the work in these districts, but the rest of the city has had very few interruptions from any cause.

In the report of last year, my predecessor, Dr. Hunt, called attention to the urgent necessity of taking some active measures with regard to truancy and the appointment and duties of officers. These matters still need consideration, and the need for action grows greater each year, and it seems that some measures ought now to be taken to increase the efficiency of this work, and to prevent the evils that must come from a class of children, who, if not now criminal, are in great danger of becoming so in the near future.

CHANGES.

Resignations.

Marion Nottage,	HIGH,	April 1.
Fannie G. Huntington,	Sewing,	June 30.
Ellen R. Sampson,	Lincoln,	June 30.
Inez E. MacCallum,	Lincoln,	December 1.
Mary L. Howard,	Hillside,	September 20.
Lucy H. Maxwell,	Gleason,	December 31.

Leave of Absence.

Ellen M. Lane,	Hall,	Sept. 1895—Sept. 1896.
Mary L. Cotton,	Cradock,	Nov. 1895—Sept. 1896.

Transfers.

Alice G. Hosmer,	Tufts to Lincoln,	September 9.
Anna G. Welch,	Brooks to Hillside,	September 9.
Elizabeth R. Carty,	Cummings to Hillside,	October 1.
Jennie M. Kempton,	Swan to Washington,	September 21.

Appointments.

Annie E. Boardman,	High,	April 1.
Marion N. Wilcox,	High,	April 1.
Anna G. Welch,	Brooks,	April 1.
Dora I. Gay,	Kindergarten, Harvard av.,	April 1.
Cora L. Russell,	Sewing,	May 1.
Carolyn P. Swett,	High,	September 9.
Sarah C. L. Evans,	Sewing,	September 9.
Inez E. MacCallum,	Lincoln,	September 9.
Caroline Lowe,	Hall,	September 9.
Inez H. Libbey,	Tufts,	September 9.
Alice G. Davenport,	Swan,	September 9.
Mary W. Smith,	Tufts,	September 9.
Alice L. Bryan,	Kindergarten, Harvard av.,	September 9.
Lucy H. Maxwell,	Gleason,	October 15.
Bertha M. Lawrence,	Hillside,	November 4.
Cara M. Johnson,	Cradock,	December 2.
Mary B. Carleton,	Lincoln,	December 2.
Helen L. Burr,	Washington,	January 2, '96.
Mary C. Adams,	Brooks,	January 2, '96.
Alice E. Wheelock,	Osgood,	January 2, '96.
Madge Johnson,	Swan,	January 2, '96.
Jane M. Barnard,	Gleason,	January 2, '96.

The greatest obstacle that confronts us in the work of the schools is that arising from numbers, which has necessitated assigning to each teacher a larger number of pupils than can profitably be instructed by one person. Including our kindergartens, there are fifty-two schools in the city, and, in all but seventeen of these, there are more pupils to a teacher than can be successfully handled. The smallest school in the city numbers thirty-five, and the largest fifty-seven. For a few weeks in September there were sixty-four in one room of the Everett, but the number was reduced to forty-eight by transferring those living on Fulton street to the Curtis school, on Paris street. Similar transfers were made

between many of the schools in order to equalize the numbers, and to prevent that overcrowding that is injurious both to health and to educational progress.

It is an accepted fact that a kindergarten cannot be successfully taught by one teacher if the numbers exceed twenty-five, and twenty-five is the limit placed by long experience as the largest number that a teacher in the high school can properly teach. But between these two extremes of our educational system the numbers have been allowed to run up to whatever limit the walls of the room would admit. It might not be such a difficult or impossible task to teach fifty pupils at once, provided they were all equally brilliant, equally regular in attendance, and equally ready to work; but these are far from being the conditions under which we labor. There must be absences, the dull pupil must receive special drill, and the lazy one must be specially urged. With fifty pupils in a room there can be very little time during the day for the teacher to devote to these special cases, and she must of necessity do class work only, and cannot, in any satisfactory manner, do individual work or give special attention to those that need such care. She must suit her instruction to the average of the class, and those that fall below must stumble on as best they may, and the mentally active must be kept below their capabilities, because of the large numbers the teacher must handle. The results are too obvious to need elaboration. The slow pupil becomes discouraged with groping in the dark, trying to understand work the initial stages of which have been passed over too rapidly for his slow comprehension, while the bright pupil, accomplishing so easily and readily all that is required of the rest of his class, forms lazy mental habits. To both of these classes of children the overcrowding of the rooms works irreparable injury. With such overcrowding it is no wonder that the product of our educational system is not excellent or scarcely above mediocrity.

No primary teacher can teach properly and with profit to

the children if the numbers much exceed thirty-five. In grammar grades, when the pupils are more self reliant and can follow verbal directions better than the little ones, the numbers may be allowed to increase to forty, but it would be the wiser policy to refuse to admit more than these numbers to any one room.

The completion of the new high school building, and the removal thither of the ninth grades will give us much relief, but even then there will be many primary schools with numbers greater than ought to be in charge of one teacher. The only remedy for this will be to place assistants in the larger rooms to aid the grade teacher. There will be sufficient work in any primary school of forty or more pupils to employ fully the time of two women. The plan of saving expense by giving large numbers of pupils to one teacher leads to extravagance in another direction. We save money for the taxpayer, but are prodigal of the time of the child, and defer the time by two or three years when he can begin to work at lucrative employment, in addition to the danger to which we expose him of forming idle habits which will remain with him through life. It is a matter of common observation to those familiar with schools that children in small schools often accomplish in one year as much work as it takes two and even three years to do in the large schools. It is to be hoped that the size of the schools may be gradually reduced, and that the time may come when forty pupils to a teacher will be considered the limit beyond which it will be impossible to go.

MANUAL TRAINING.

This work has been established so long that we can unhesitatingly call it a success. It is now well organized for the boys of the seventh, eighth and ninth grades, and with this better organization the attendance and the quality of the work done are constantly improving. The girls of the seventh and eighth grades take sewing during the time that

the boys are at the shop. Unfortunately we have not been able to provide any form of hand work for the girls of the ninth grades while the boys were at their manual training. They cannot go to the shop, for the manual training teacher has his hands more than full with the classes of boys; and even by giving him a greater number of classes than one man ought to be expected to teach, there is one class of seventh grade boys for whom no time can be found. The most profitable study for the girls at the age of our ninth grade is that of domestic economy, the proper selection, preparation, and cooking of the most essential articles of food, together with a study of the science of nutrition.

There is plenty of time in the curriculum of studies for this work; the time when the boys receive their instruction in sloyd. No girl should be considered as worthy a diploma from a grammar school unless she knows and can practice the fundamental principles of domestic science. It is a subject that at some time or other all girls must be familiar with. A few may get this training in their homes, but it is a well known fact that the majority will not, and if this instruction is to be gained at all, it must be incorporated in the school course. It gives great opportunity for ethical training, and can be an agent for accomplishing a great good in the homes. Any subject of such a practical nature which furnishes such good material for moral development, should be made much of in our school work.

These forms of study do not overload the course of study, for the relaxation from the strain of book work, and the more confining subjects that such studies afford, is such a relief that more concentrated attention can be given these other subjects, so that, instead of that time being lost to other intellectual pursuits, there is actually a gain.

There are breaks in the continuity of our manual training course that ought to be filled as soon as possible. The hand work of the kindergarten, consisting of clay modelling, paper cutting, folding, weaving, etc., may profitably be further

developed in the first three grades of the primary schools. In the fourth grade the girls begin their sewing, but there is no form of hand work for the boys for three years more, or until they reach the seventh grade. In these three years much might be accomplished if we had the necessary equipment of tools and teachers. Some forms of knife work and clay modelling with more difficult problems than in the primary grades could be used here with profit.

EQUIPMENT.

In addition to the special needs of additional teaching force, and of the manual training department already mentioned, nearly all the schools need an enlargement of their equipment for teaching several of the leading subjects. The reading material should receive many additions to enable us to suit our instruction to the needs of the children. Most of the grades are furnished with some books for supplementary reading in connection with the history and geography; but we must recognize the fact that the vocabulary of any special subject is limited, and that there is a great similarity in the phrasology. If this constitutes all their reading, the pupils do not become familiar with the language of general literature. This subject of language is the most important one in the curriculum, and at the same time it is the most practical, for many of the misunderstandings of every day occurrence are due to the misinterpretation of our mother tongue. The most practical instruction is the one that gives us the greatest command of English, the ability to discriminate shades of meaning. This can only be brought about by a broad study of literature. Technical grammar without a previous experience with the language as used by our best authors to express the highest thoughts cannot give this understanding. So as the most important subject in the curriculum, and one that should receive extensive additions to enable us to carry on the work satisfactorily, must be placed *language*.

Much should also be added to the equipment for teaching geography. Many of our maps and globes are of such ancient date and so thoroughly worn out as to be useless; and besides these we have none of the modern aids for illustrating this branch. These should gradually be acquired as the finances of the department will allow.

TEACHERS AND PARENTS.

Schools are vastly increased in efficiency when the home and the school work hand in hand. Parents and teachers have similar tasks, and their aims should coincide in order to secure the best results. Kindergartners have always recognized this, and it is one of the strong features of the institution they represent, that the teacher and the parent know each other and work together for the development of the child. But too often, in the grades above, the parent and teacher never meet unless the latter has a complaint to make; then the meeting is under circumstances not conducive to the most cordial understanding. Unless the teacher knows the homes, she cannot know the difficulties and the temptations of the child, neither can she know how much the home is cooperating with her in the work of education. In order to estimate rightly the effort a child is putting forth in his work in school, we must know what influences surround him when outside the schoolroom. So the conclusion is forced upon me that those teachers who do not make a special effort to know the parents of the children they teach are neglecting one very important and essential part of their duty.

In a few towns teachers, drawing their inspiration from the mothers' meetings of the kindergartners, have held similar meetings, and, through these, have endeavored to become acquainted with the parents, and, at the same time, give the parents opportunity to learn just what the school is trying to do for the welfare of their children; to show them that it is not the sole work of the school to train to facility

in reading, writing and arithmetic only, but to develop those virtues of self-control, of thoughtfulness for others, and all those duties to each other and to the community that shall make them honorable, intelligent members of society, and loyal citizens of these United States.

Respectfully submitted,

CHARLES H. MORSS,
Superintendent of Schools.

Medford, Jan. 20, 1896.

NAMES OF TEACHERS AND THEIR GRADES,
FEBRUARY 1, 1896.

Schools.	Teachers.	Grades.
High :	Lorin L. Dame, S.D. (Tufts),	Principal.
	Leonard J. Manning, A.M. (Harvard),	Sub-Master.
	Caroline E. Swift.	
	Josephine E. Bruce.	
	P. T. Campbell, A.B. (Harvard).	
	Walter H. Cushing, A.B. (Harvard).	
	Sara A. Clapp.	
	Annie E. Boardman, A.B. (Boston University).	
	Marion A. Wilcox, A.B. (Wellesley).	
	Carolyn P. Swett, A.B. (Smith).	
Washington :	Benjamin F. Morrison, A.B. (Bowdoin),	Principal, IX.
	Emma F. Gill.	IX.
	Winifred L. Evans.	VIII.
	E. Alice Sills.	VIII.

	Martha E. Hayes.	VII.
	Annie E. Durgin.	VII.
	Jennie M. Kempton.	VI.
	Helen L. Burr, A.B. (Wellesley).	VI.
Brooks :	Lewis F. Hobbs, Principal.	IX.
	Gertrude S. Light.	VIII.
	Harriet E. Brooks.	VII.
	Mabel L. Thayer.	VI.
	Mary C. Adams, A.B. (Wellesley), Assistant.	
Lincoln :	Henry B. Doland, Prin.	IX. and VIII.
	Mary B. Carleton.	VIII. and VII.
	Laura M. Dunsmoor.	VII. and VI.
	Helen M. Johnson.	VI. and V.
	Flora I. Towle.	V. and IV.
	Alice G. Hosmer.	IV. and III.
Cradock :	George W. Parsons, A.M. (Bowdoin), Principal.	IX. and VIII.
	Mary E. Crowley.	VII. and VI.
	Cara M. Johnson.	V. and IV.
	Isabelle A. Nauss.	III. and II.
	Jennie W. Waterman.	I.
Osgood :	Louise W. Laselle, Prin.	VI., V., IV.
	Emma A. Davis.	III., II., I.
	Alice E. Wheelock, Assist.	
Swan :	Rose A. Plunkett, Prin.	V.
	Alice G. Davenport.	IV. and III.
	Alice C. Reed.	II.
	Jennie S. Archibald.	I.
	Madge Johnson, Assist.	
Hall :	Ella L. Alden, Prin.	V. and IV.
	Caroline Lowe.	IV. and III.

Everett :	Ida L. Hartshorn, Prin.	V.
	Jessie M. Dinsmore.	IV.
	Adelaide S. Herriott.	III. and II.
	C. May Holland.	I.
James :	Ella A. Leighton, Prin.	V. and IV.
	Marietta T. Fernald.	III. and II.
	Hetty F. Wait.	I.
Cummings :	Katherine J. FitzGibbon.	II. and I.
Gleason :	Alice F. Wilbur, Prin.	V. and IV.
	Catharina W. Billings.	III. II. and I.
	Jane M. Barnard, Assist.	
Curtis :	Amy W. Jones, Prin.	III. and II.
	Laura W. Davenport.	I.
Hervey :	Elizabeth A. Lufkin, Prin.	III. and II.
	Helen G. Frye.	I.
Tufts :	May E. Parkhurst, Prin.	III. and II.
	Inez H. Libbey.	II. and I.
	Emma F. Whitney.	I.
	Helen L. Arnold.	Kindergarten.
	Mary W. Smith, Assist.	
Kindergarten, West Medford :	Dora I. Gay, Principal.	
	Alice L. Bryan, Assistant.	

SPECIAL TEACHERS.

Music	Elizabeth H. Dunham.
Drawing	Louise MacLeod.
Sewing	Cora L. Russell.
	Sarah C. L. Evans.
Manual training	Joseph T. Whitney.
Military instructor	Lieut. Col. J. H. Whitney.

STATISTICS.—PUBLIC DAY SCHOOLS.

Whole number of different pupils enrolled during the year :
1602 boys, 1639 girls ; total, 3241.

SCHOOLS.	Average membership.	Average attendance.	No. of cases of tardiness.	No. of dismissions.	No. of half days of truancy.
High	281.9	270.2	114	377	0
Washington	322.1	303.6	97	695	15
Brooks	201.4	186.	243	410	76
Lincoln	239.7	223.8	238	339	23
Cradock	212.2	198.6	230	278	24
Osgood	78.	68.5	164	121	16
Swan	193.7	182.9	111	140	1
Cummings	66.5	61.1	57	85	12
Curtis	83.7	77.9	61	30	1
Everett	188.7	173.8	63	108	6
Gleason	95.1	86.5	70	63	0
Hall	76.5	69.4	159	109	7
Hervey	75.7	66.9	119	78	2
James	130.5	124.6	145	83	10
Tufts	176.7	161.6	280	74	9
West Medford) Kindergarten)	33.4	28.9			
Hillside	100.5	106.8	134	49	5
Totals	2,556.3	2,391.1	2,305	3,039	207

Per cent of attendance, 93.5+.

TABLES II. AND III.
NUMBER BY AGES AND NUMBER BY GRADES.

Grades	PRIMARY.			GRAMMAR.						HIGH.										Totals.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Kindergarten.							
September . . . 1889	298	176	185	212	203	193	193	138	89	57	32	30	16	7								1,829
September . . . 1890	284	204	215	192	207	188	184	173	148	49	37	45	25	3								1,944
September . . . 1891	270	207	227	238	191	179	180	175	156	107	36	42	18	4								2,030
September . . . 1892	341	206	247	247	191	188	206	184	150	103	66	28	26	1								2,184
September . . . 1893	311	217	219	271	216	191	169	206	177	116	70	48	8	4								2,223
September . . . 1894	344	250	202	280	266	207	180	187	207	126	81	68	21	7								2,461
September . . . 1895	418	277	254	239	285	214	200	195	160	150	90	56	24	6								2,673

Ages	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Years.	Totals.	
September . . . 1889	117	159	177	179	189	175	179	167	162	130	93	61	27	11	3				3 to 5	1,829	
September . . . 1890	105	160	182	170	185	187	166	167	160	165	134	80	58	15	3				1	1,944	
September . . . 1891	105	174	178	192	212	201	183	157	159	149	141	88	55	27	5					2,030	
September . . . 1892	131	180	149	163	252	215	220	225	187	157	123	83	63	23	13					2,184	
September . . . 1893	134	181	206	207	206	179	198	210	208	170	155	105	50	14						2,223	
September . . . 1894	156	231	205	209	195	219	203	211	198	209	152	113	68	37	16					35	2,461
September . . . 1895	162	266	258	208	228	212	207	230	215	185	159	118	73	34	6					105	2,673

Ages are taken from half year to half year; i. e., 6 years 6 months to 7 years 6 months are called 7.

TABLE I.
NUMBER OF PUPILS BY GRADE AND AGE, SEPTEMBER, 1895.

<i>Years</i>	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Totals
Grade I.	158	171	68	12	6	2	1												418
" II.	4	92	113	46	16	4	2												277
" III.		3	71	99	52	20	4	4		1									254
" IV.			6	44	90	55	18	19	6	1									239
" V.				7	55	98	60	37	18	7	2	1							285
" VI.					8	27	81	45	33	19	1								214
" VII.					1	5	30	74	53	27	10								200
" VIII.						1	11	37	71	40	28	7							195
" IX.								14	29	50	39	25	3						160
" X.									4	33	59	38	13	3					150
" XI.									1	7	15	35	28	4					90
" XII. } High School .											5	11	23	12	3	1		1	56
" XIII. }													5	13	2	2	1		24
" XIV. }													1	2	1	2			6
Totals	162	266	258	208	228	212	207	230	215	185	159	118	73	34	6	5	1	1	2,568
Kindergarten																			105
Grand total																			2,673

EVENING SCHOOL.

OCTOBER 23 — FEBRUARY 1, 1895.

ENROLLMENT.

Whole number of pupils enrolled	341
Whole number of males enrolled	232
Whole number of females enrolled	109

ATTENDANCE.

Number of evenings school was in session	41
Average attendance for October	162.7
" " November	143.5
" " December	103.3
" " January	84.5
Largest attendance	186
Average attendance for term	116.7

February 3, 85 pupils were present, and the school will probably continue until March 1.

MEDFORD HISTORICAL SOCIETY.

REPORT OF THE TRUSTEES OF THE PUBLIC LIBRARY.

Hon. Baxter E. Perry, Mayor of City of Medford:

Sir,—The Trustees of the Public Library submit the following report:

It will be seen by the statement of the Librarian that 52,985 books have been circulated during the year. In addition to these is the very general use of the Reference Library by our citizens, especially by pupils in the higher grades of the public schools. The library now contains 17,184 volumes.

The increase of circulation and the systematic management of the library required further assistance, and in the judgment of the trustees it was deemed best to add a trained assistant conversant with library methods, and we were fortunate in engaging Miss Abby L. Sargent, whose special education and experience fitted her for the work. We take this opportunity to recognize the faithfulness and devotion of all the assistants and to congratulate both ourselves and the public that we are enabled to retain the valuable services of Miss Mary E. Sargent as Librarian, under whose direction our library holds a place among the best libraries of the Commonwealth.

We called attention last year to the pressing need for increased accommodation, to the crowded state of the present building in the reading, waiting and book rooms, recommending the purchase of additional land in the rear of the present lot. Our recommendation met with the favor of the City Government and provision is now made, not merely for immediate need, but for future growth of the library.

The time has arrived when it is our imperative duty to ask for an increase of the present building. This is required, first, to furnish reading rooms which will accommodate those who use them, secondly, larger waiting room for takers of books, and thirdly, a more capacious book room. The reading and waiting rooms are altogether inadequate, and in the busiest hours of the day are filled to repletion; and the book room is so crowded that books have to be placed in alcoves where they do not belong, or piled on the floor wherever vacant space can be found. In consequence of this congested condition we are unable to complete the system of classification which we have begun, and cannot make the books as useful as they should become. Further, there is needed a workroom for the covering and repair of books, generous in size, so that the work can be done conveniently, having good light and ventilation; and a Librarian's room where she can be consulted by persons seeking information, and discharge the duties of her office free from the disturbance to which now she is subject.

It is our purpose to make a specific recommendation to meet these urgent needs at the earliest possible date, and to enable us to do this we respectfully ask for a special appropriation of \$300 to procure the plans of an architect and estimates of cost of building.

REPORT OF THE LIBRARIAN.

To the Trustees of the Public Library:

I have the pleasure of submitting the annual report for the year closing January 31, 1896:

Notwithstanding the necessary application of a large proportion of the annual appropriation to expenses outside of the purchase of books and periodicals, the increased use of the material we have been able to add indicates how much more good might be effected with more means and conveniences at command. The past year has been one of steady growth and activity, shown not so much by a large excess of

books loaned over that of the year before, as by the increased use that has been made of the reference department, and in the work with the schools. The work with the schools should be regarded as of the greatest importance, as its object is to lay the foundation for a taste for good reading among those who are to be our future men and women. This end may be attained, as all educators admit, not by proscribing certain books as unfit for children, but by placing a better article within easy reach. On this principle we have furnished to six of the schools a carefully selected collection of books, which are retained for the use of such scholars as may desire them for home reading. They are given into the hands of one of the pupils who thus acts as librarian, keeping a record of the number of times the books go out, together with the names of the borrowers. Each month the books are returned to the library and a new set sent in their place. Under this system we find there is a greater call for books of the better class among the young people; often one child recommends to another a book he has taken from the schools; this one applies for it after it has been returned to the library; thus, unconsciously, the missionary work is carried on. In all this which we aim to accomplish, our work is made easy by the hearty co-operation of the Superintendent of Schools and by the teachers. With the high school, besides the books furnished the teachers for collateral reading, we have set aside in the library books on special subjects for the use of certain classes; with more space in the building for such a purpose, it will be seen how much more valuable the library may be made to the public.

The new charging system is in every way very satisfactory; the date stamped in the back of each book taken out, showing when the book is due, can but serve as a reminder to the patrons, and one that cannot be disputed. It obviates the necessity of sending out postals for overdue books, thus saving much of the assistants' time for more important work.

Moreover, by this system, overdue books can be more easily traced and accounted for.

The service in the library is cheerfully and willingly performed; but our present restricted quarters entail unavoidable delays. Although our patrons are very patient and long-suffering, it seems but just to all, patrons and employees alike, to present very forcibly to the general public the difficulties under which we and they labor. None but those who have suffered from the present crowded condition of the library can have the faintest idea of the need of space and better accommodation in order to give efficient service. A reading room, administration room and stock room which satisfied the wants of the community twenty years ago, can hardly be adequate for the needs and demands of the present day of progress. The reading room, once a parlor in an ordinary sized house, with no means of ventilation but by the windows, when furnished with shelves for reference books, racks for periodicals, and desk for attendant has very little space or comfort left to offer the numerous readers and students who wish to make use of it. A room which will accommodate with comfort ten, with discomfort fifteen persons, is often obliged to do duty for thirty or more. The delivery room can seat only twenty at the most, and were access to the shelves not permitted, as is the case in the majority of libraries, it would be utterly impossible to furnish even standing room for those waiting for books. This room has also to serve as a children's reading room.

Our only place for work is in the alcoves of the stack room. The space is limited in any case, and if a book is wanted from one of these alcoves, either the table with all its contents (books to be repaired, paste, ink, etc.), must be moved out, in order to reach the book, or the attendant must get under the table and grope about in semi-obscurity until the volume is found. Even with such an arrangement the stack room is so overcrowded that many books cannot be placed upright on the shelves, but must be piled one on top of an-

other to gain space; some sets of volumes we have been obliged to put into a back room, little more than a wood-shed, not heated, and in which no book can be found after twilight.

The need for more rooms, better ventilation and better sanitary conditions is urgent, not only for better service to the patrons, but also for the well-being of the books and the attendants. The progressive libraries of the present day have quiet rooms for study, administration rooms, a room for children's books and periodicals, and a hall for lectures on educational subjects. As the usefulness of the library is much facilitated by the material aid furnished by those charged with supplying the city's needs, it would only seem proper to bring to their notice the existing condition of affairs.

During the recent Cotton States Exposition at Atlanta, a Librarian's Congress was formed at the south with the idea of obtaining some missionary help from the north, there being no free public libraries south of Washington. Among five or six others, it was my privilege to be invited to tell what the library movement in the north means, and more especially to give some account of the connection of the libraries and the schools. As these papers are to be published by the Bureau of Education and sent out as tracts throughout the south, it is to be hoped that the enthusiasm of the chairman of the Congress, who is also librarian of the Young Men's Library at Atlanta, joined with the progressive spirit of her northern allies and co-workers may accomplish much for the library cause.

Some of the more expensive and valuable additions to the library the past year are as follows; viz.—

Sargent's North American Sylva, vols. 3-6, Sargent's Flora of Japan, Johnson's New Encyclopedia, Century Cyclopaedia of Names, Rockstro's History of Music, Maspero's Dawn of Civilization, Jameson's Dictionary of United States History, Jacob and Henley's Jeypore enamels, Low's Prince Bismarck, 2 vols., People's Cyclopaedia, 6 vols., St. Nicholas (20 vols. for reference), Larned's Ready Reference, vols. 4-5, Farrow's

Military Cyclopaedia, Jusserand's Literary History of the English People, Winsor's Struggle in America between England and France, Tower's Marquis de Lafayette, 2 vols., Vapereau's Dictionnaire des Contemporains, Hodgkin's Italy and her invaders, vols. 5-6, Hare's Story of two noble lives, Gray's Anatomy, Hamerton's Fine Arts in France, Ansted's The Riviera, Mitchell's Ancient Sculpture, Schliemann's Tiryns, Moore's American Congress, Buddhist Birth Stories, vol. 1.

Bi-monthly classified bulletins of new books were issued from May to September, but lack of funds necessitated a discontinuance of them; we propose now to have a monthly record posted in the library, issuing only a yearly finding list as before.

The following committees from the Medford Women's Club have been glad to make use of the upper reference room during the past season: Committees on Ethics, Domestic Economy, Political Economy and Art. We would be very glad to welcome all educational clubs to our rooms.

We have received by exchange of duplicates seventy volumes. Respectfully submitted,

MARY E. SARGENT,
Librarian.

The following statistics are presented, showing the accessions made to the library during the past year, the circulation, etc.:

Number of books in the library January 1, 1895,	16,347
" books purchased in 1895	742
" bound periodicals from reading room,	124
" books donated	102
	<hr/>
	17,315
" books worn out	131
	<hr/>
Number of books in the library January 1, 1896,	17,184
Number of books issued during the year	52,985

GIFTS TO THE LIBRARY.

	Books.	Pamphlets.	Magazines.	
			Vols.	Nos.
Balch, E. S.	2	4	2	2
Beekman, W. S.		1		
Benton, J. H., Jr.		1		
Blanchard, Miss S. J.			4	24
Blinn, H. C.		1		
Bowdoin College		1		
Bradlee, Rev. C. D.		1		
Brookline Public Library		1		
Bronson Library		2		
Builders' Iron Foundry, Prov., R.I.,		2		
Chandler, W. H.	15			
Chicago Civic Federation		1		
Chicago Public Library		1		
Cincinnati Public Library		1		
Cushing, L. F. W.	1			
Dover (N.H.) Public Library		2		
Fitz Public Library, Chelsea, Mass.,		1		
Fitzgerald, D.	1			
Friend	11			
Green, Dr. C. M.		1		
Harlow, Mrs. T. S.		1		
Harvard College		1		
Hervey, James A.	3			
Homans, Mrs. A. M.	1			
Illinois State Library		1		
Iowa Library Society		2		
Johnson, C. B.	1			
Lancaster Town Library		1		
Lawrence Free Public Library		1		
Leffingwell, Dr. A.		3		
Lincoln, Miss Agnes W.		7		
Lodge, Hon. H. C.	5			
Lynn Public Library		1		

	Books.	Pamphlets.	Magazines. Vols. Nos.
McCall, Hon. S. W.	1		
Macullar, Parker & Co.	1		
Maguire, Hon. James G.		1	
Malden Public Library		1	
Manchester (N.H.) City Library		1	
Mass. Charitable Mech's Ass'n	1	1	
Mass. Institute of Technology		1	
Mass. Sec. of the Commonwealth	13		
Melrose Public Library		1	
Middlesex Mech's Association	3		
Moore, H. O.	1		
Murray, William	1		
New Bedford Public Library		8	
New Haven Free Public Library		5	
North Adams Public Library		1	
Peabody Institute		1	
Philadelphia City Institute		1	
Peck, G. G.	1		
Pierce, F. P.	1		
Perkins, John B.	29		58
Porter, George J.			2 1
Providence High School		1	
Reynolds Library		1	
Rose, Mrs. A. J.	1		
St. Joseph, Mo., Public Library		1	
Salem Public Library		1	
Somerville Public Library		1	
Springfield City Library Association,		2	
Swift, Miss C. E.			6
Trustees of Public Reservation		1	
U. S. Civil Service Commission	1		
U. S. Commission of Education	2		
U. S. Com. of Fish and Fisheries	2		
U. S. Commission of Labor	1	2	
U. S. Department of Agriculture		1	

	Books.	Pamphlets.	Magazines. Vols. Nos.
U. S. Department of Interior	1		
U. S. Department of State		1	
U. S. Interstate Commerce Com.	1		
U. S. Smithsonian Institution	1		
University of Tennessee		1	
Usher, E. P.	1		
Waltham Public Library		2	
Watertown Public Library		2	
Werner Co., Chicago		1	
Wilde, Miss			2 60
Wisconsin State Historical Society,		1	
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 102	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 76	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 8 149

We submit the financial statement for the year:

RECEIPTS.

Appropriation for the library	\$3,700 00
Money received from the dog tax of 1894	1,364 70
Income of the Tufts fund	30 00
Income of the Osgood fund	120 57
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> \$5,215 27

EXPENDITURES.

Books	\$1,272 79
Rebinding books	447 53
Librarian's salary	1,000 00
Salaries of four assistants	1,167 50
Extra help	93 03
Janitor and care of grounds	258 92
Gas, \$122.55; electricity, \$180.63	303 18
Coal, 193.82; ice, \$8	201 82
Water, \$8.67; street watering, \$3.20	11 87
Furniture, \$29.50; repairs, \$51.44	80 94
Printing cards, lists, postals, etc.	192 12

Expressage, \$18.45; stationery, etc., \$35.48	\$53 93
Delivery of books at West Medford and Wellington,	131 00
	<hr/>
	\$5,214 63
Balance unexpended February 1, 1896	64
	<hr/>
	\$5,215 27

The Librarian has received the following sums :

Cash unexpended February 1, 1895	\$2 44
Cash for duplicates	38 20
Cash for catalogues	3 00
Cash for fines	109 57
	<hr/>
	\$153 21

The expenditures have been as follows :

Cleaning, \$14.44; messenger, \$12.35; postage, \$12.36; expressage, \$13.73; books, \$21.25; extra help, \$38.61; gas bill, \$21.92; inci- dentals, \$16.78	151 44
	<hr/>
Balance unexpended	\$1 77

The Trustees recommend an appropriation of \$4,300 to meet the expenses of the library the ensuing year.

Respectfully submitted,

SAMUEL C. LAWRENCE,
HENRY C. DeLONG,
JAMES A. HERVEY,

Trustees.

Medford, February 5, 1895.

REPORT
OF THE
COMMISSIONERS OF SINKING FUNDS.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—The Commissioners of Sinking Funds submit the following statements of their accounts for the last year:

WATER LOAN SINKING FUND.

RECEIPTS.

Balance deposited in the Howard National Bank, as per report of 1895	\$15,916 00
P. R. Litchfield, City Treasurer, city appropriation for 1895	1,962 85
P. R. Litchfield, City Treasurer, premium on \$91,000 bonds sold	3,939 39
Fitchburg Railroad Company, for one year's interest on \$8,000 of its bonds, at 5 per cent, to Sept. 1, 1895	400 00
City of Quincy, for one year's interest on \$2,000 of its bonds, at 4 per cent, to Dec. 1, 1895	80 00
City of Haverhill, for one year's interest on \$5,000 of its bonds, at 4 per cent, to Oct. 1, 1895	200 00
City of Medford, for one year's interest on \$15,000 of its bonds, at 4 per cent, to Jan. 1, 1896	600 00
Portland & Ogdensburg Railroad Company, for one year's interest on \$8,000 of its bonds, at 6 per cent, to Jan. 1, 1896	480 00
	\$23,578 24
<i>Carried forward</i>	

<i>Brought forward</i>	\$23,578 24
City of Brockton, for one year's interest on \$4,000 of its bonds, at 4 per cent, to Jan. 1, 1896	160 00
Howard National Bank, for interest on deposit,	75 31
P. R. Litchfield, City Treasurer, surplus for twelve months ending Jan. 31, 1896	19,218 72
Total received	<u>\$43,032 27</u>

DISBURSEMENTS.

Brewster, Cobb & Estabrook, for \$15,000 Town of Medford 4 per cent water bonds, due July 1, 1900, at 101.70	\$15,255 00
2 months 13 days' accrued interest on above bonds,	121 67
Brewster, Cobb & Estabrook, for \$8,000 Town of Medford 4 per cent water bonds, due July 1, 1900, at 101.65	8,132 00
21 days' accrued interest on above bonds	18 67
Balance deposited in the Howard National Bank,	19,504 93
Total disbursed	<u>\$43,032 27</u>

The Water Loan Sinking Fund consists of the following property:

Town of Medford 4 per cent bonds, due July 1, 1900	\$23,000 00
Portland & Ogdensburg Railroad Company, 6 per cent bonds, due July 1, 1900	8,000 00
City of Brockton 4 per cent bonds, due July 1, 1900,	4,000 00
City of Quincy 4 per cent bonds, due Dec. 1, 1900,	2,000 00
City of Haverhill 4 per cent bonds, due Oct. 1, 1899,	5,000 00
Fitchburg Railroad Company 5 per cent bonds, due March 1, 1899	8,000 00
Cash deposited in the Howard National Bank, at 2½ per cent interest	19,504 93
Total	<u>\$69,504 93</u>

PUBLIC BUILDING LOAN SINKING FUND.

RECEIPTS.

Balance deposited in the Howard National Bank, as per report of 1895	\$644 08
P. R. Litchfield, City Treasurer, city appropri- ation for 1895	3,535 00
P. R. Litchfield, City Treasurer, premium on \$149,000 bonds sold	6,280 35
City of Medford, for one year's interest on \$3,000 of its bonds, at 4 per cent, to Jan. 1, 1896 .	120 00
City of Medford, for six months' interest on \$6,000 of its bonds, at 4 per cent, to Jan. 1, 1896 .	120 00
City of Somerville, for one year's interest on \$1,000 of its bonds, at 4 per cent, to Jan. 1, 1896 .	40 00
Howard National Bank, for interest on deposit .	16 48
	<hr/>
Total received	\$10,755 91

DISBURSEMENTS.

N. W. Harris & Co., for \$6,000 Medford public building loan bonds, 4 per cent, due July 1, 1908, at 104 $\frac{3}{4}$	\$6,285 00
3 months' accrued interest on above bonds .	60 00
Foote & French, for \$4,000 Fitchburg Railroad Co. 5 per cent bonds, due March 1, 1899, at 102.80	4,112 00
4 months 24 days' accrued interest on above bonds,	80 00
Balance, deposited in the Howard National Bank,	218 91
	<hr/>
Total disbursed	\$10,755 91

The Public Building Loan Sinking Fund consists of the following property :

City of Medford 4 per cent bonds, due July 1, 1913	\$3,000 00
City of Medford 4 per cent bonds, due July 1, 1908	6,000 00
City of Somerville 4 per cent bond, due July 1, 1913	1,000 00
Fitchburg Railroad Co. 5 per cent bonds, due March 1, 1899	4,000 00
Cash deposited in the Howard National Bank at 2½ per cent interest	218 91
Total	<u>\$14,218 91</u>

SEWERAGE LOAN SINKING FUNDS.

RECEIPTS.

Balance deposited in the Medford Savings Bank, as per report of 1895	\$1,030 06
P. R. Litchfield, City Treasurer, city appropriation for 1895	4,540 00
P. R. Litchfield, City Treasurer, premium on \$185,000 bonds sold	13,116 50
City of Medford, for one year's interest on \$2,000 of its bonds, at 4 per cent, to Jan. 1, 1896	80 00
Town of Stoughton, for one year's interest on \$1,000 of its bonds, at 4 per cent, to Dec. 1, 1895	40 00
City of Medford, for six months' interest on \$12,000 of its bonds, at 4 per cent, to Jan. 1, 1896	240 00
Medford Savings Bank, dividends	41 56
Total received	<u>\$19,088 12</u>

DISBURSEMENTS.

N. W. Harris & Co., for \$12,000 City of Medford public building loan bonds, 4 per cent, due July 1, 1908, at 104 $\frac{3}{4}$	\$12,570 00
3 months' accrued interest on above bonds	120 00
R. L. Day & Co., for \$1,000 City of Woburn 4 per cent bond, due April 1, 1905, at 103 $\frac{1}{2}$	1,031 25
3 months 16 days' accrued interest on above bond	11 78
N. W. Harris & Co., for \$1,850 City of Malden 4 per cent bond, due June 1, 1905, at 103.15	1,908 28
1 month 22 days' accrued interest on above bond	10 69
N. W. Harris & Co., for \$1,750 City of Malden 4 per cent bond, due July 1, 1905, at 103.17	1,805 48
22 days' accrued interest on above bond	4 27
Balance, deposited in the Medford Savings Bank,	1,626 37
	<hr/>
Total disbursed	\$19,088 12

The Sewerage Loan Sinking Fund consists of the following property :

City of Medford 4 per cent bonds, due July 1, 1905,	\$2,000 00
Town of Stoughton 4 per cent bond, due June 1, 1905	1,000 00
City of Medford 4 per cent bonds, due July 1, 1908	12,000 00
City of Woburn 4 per cent bond, due April 1, 1905	1,000 00
City of Malden 4 per cent bond, due June 1, 1905	1,850 00
City of Malden 4 per cent bond, due July 1, 1905	1,750 00
Cash deposited in the Medford Savings Bank	1,626 37
	<hr/>
Total	\$21,226 37

PUBLIC PLAYGROUND LOAN SINKING FUND.

RECEIPTS.

Balance deposited in the Medford Savings Bank, as per report of 1895	\$1,104 75
P. R. Litchfield, City Treasurer, city appropri- ation for 1895	1,120 00
Medford Savings Bank, dividends	35 73
	<hr/>
Total received	\$2,260 48

DISBURSEMENTS.

N. W. Harris & Co., for \$1,750 City of Malden 4 per cent bond, due July 1, 1904, at 102 $\frac{1}{2}$	\$1,800 31
26 days' accrued interest on above bond	5 06
Balance, deposited in the Medford Savings Bank,	455 11
	<hr/>
Total disbursed	\$2,260 48

The Public Playground Loan Sinking Fund consists of the following property :

City of Malden 4 per cent bond, due July 1, 1904, \$1,750 00	
Cash deposited in the Medford Savings Bank	455 11
	<hr/>
Total	\$2,205 11

In compliance with the provisions of section 9 of chapter 29 of the Public Statutes, and section 8 of chapter 6 of the City Ordinances, the Commissioners find the amounts to be raised the coming year for the sinking fund are as follows :

Medford Water Bonds.

Ten per cent of \$75,000, issued July 1, 1890, and payable July 1, 1900	\$7,500 00
	<hr/>
<i>Carried forward</i>	\$7,500 00

<i>Brought forward</i> . . .	\$7,500 00	
Four per cent of \$125,000, issued July 1, 1890, and payable July 1, 1910	5,000 00	
<i>City of Medford Water Fund Bonds.</i>		
Ten per cent of \$24,000, issued Jan. 1, 1894, and payable \$4,000 each year from Jan. 1, 1899, to Jan. 1, 1904	2,400 00	
Four per cent of \$76,000, issued Jan. 1, 1894, and payable \$4,000 each year from Jan. 1, 1905, to Jan. 1, 1923	3,040 00	
Four per cent of \$25,000, issued Oct. 1, 1894, and payable Oct. 1, 1914; and \$25,000 issued Oct. 1, 1894, and payable Oct. 1, 1919	2,000 00	
Four per cent of \$63,000, issued July 1, 1895, and payable between July 1, 1916, and July 1, 1923	2,520 00	
Three per cent of \$45,000, issued Dec. 1, 1894, and payable Dec. 1, 1922	1,350 00	
	<hr/>	\$23,810 00
Deducting the surplus earnings of the water works for 12 months ending Jan. 31, 1896		19,218 72
		<hr/>
		\$4,591 28

Medford Public Building Loan Bonds.

Four per cent of \$45,000, issued July 1, 1893, and payable July 1, 1913; and \$56,000, issued Nov. 1, 1894, and payable Nov. 1, 1914	\$4,040 00	
	<hr/>	
<i>Carried forward</i>	\$4,040 00	\$4,591 28

<i>Brought forward</i>	\$4,040 00	\$4,591 28
Eight per cent of \$28,000, issued July 1, 1895, and payable between July 1, 1899, and July 1, 1904	2,240 00	
Five and one-half per cent of \$103,000, issued July 1, 1895, and payable between July 1, 1907, and July 1, 1912	5,665 00	
Four per cent of \$18,000, issued July 1, 1895, and payable July 1, 1915	720 00	
	<hr/>	12,665 00
<i>Medford Sewerage Loan Bonds.</i>		
Eight per cent of \$10,000, issued Oct. 1, 1894, and payable Oct. 1, 1905	\$800 00	
Three and one-half per cent of \$54,000, issued July 2, 1894, and payable, \$20,000 July 1, 1905, \$12,000 July 1, 1906, \$12,000 July 1, 1907, and \$10,000 July 1, 1915,	1,890 00	
Two and one-half per cent of \$10,000, issued July 2, 1894, and payable July 1, 1924, and \$10,000 issued Oct. 1, 1894, and payable Oct. 1, 1924	500 00	
Three and one-half per cent of \$20,000, issued Oct. 1, 1894, and payable, \$10,000 Oct. 1, 1906, and \$10,000 Oct. 1, 1915	700 00	
Two and one-half per cent of \$185,000, issued Aug. 1, 1895, and payable between Aug. 1, 1916, and Aug. 1, 1923	4,625 00	
	<hr/>	\$8,515 00
<i>Carried forward</i>		\$25,771 28

Brought forward \$25,771 28

Public Playground Loan Bonds.

Eight per cent of \$7,000, issued July 2, 1894, and payable July 1, 1904	\$560 00	
Four per cent of \$14,000, issued Dec. 1, 1894, and payable Dec. 1, 1914	560 00	
	<hr/>	1,120 00
Total		\$26,891 28

And the Commissioners have certified to the City Auditor that this amount of \$26,891.28 is required to be raised by taxation for the sinking funds, and is to be put into the yearly appropriations for the ensuing year.

Respectfully submitted,

SAMUEL C. LAWRENCE,
B. C. LEONARD,
DANIEL W. LAWRENCE,
J. GILMAN WAITE,
WILLIAM CUSHING WAIT,
J. HENRY NORCROSS,

Commissioners of the Sinking Funds.

Medford, February 19, 1896.

CITY OF MEDFORD.

ANNUAL REPORT

OF THE

STREET COMMISSIONER

FOR THE

YEAR ENDING JANUARY 31, 1896.

MEDFORD HISTORICAL SOCIETY.

ac. 2363.

REPORT OF THE STREET COMMISSIONER.

STREET COMMISSIONER'S OFFICE,
CITY HALL ANNEX,

MEDFORD, Feb. 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—In compliance with the requirements of the city charter, I respectfully submit to you my annual report of the Highway Department for the year 1895. In connection with this report is attached a tabulated statement of work performed on streets, sewers, drains, catch-basins, curbing, sidewalks, crossings, paving, culverts, stone-crusher, bridges, collection of house offal, ashes, etc.

Good roads and how to make and how to maintain them, this is a question that is steadily pressing to the front as one of the important concerns of the Highway Department. During the last three years miles of streets have been dug up by the Water and Sewer Department for the purpose of laying pipes, which is likely to be continued for the next two years; then comes the house connections to contend with, so that it will be almost impossible to improve the road-ways any more than to keep them in a safe passable condition until the house connections for water and sewerage are completed. I would recommend in future that all house connections be put into the property line during the construction of the sewers. The practice of tunnelling under paved driveways, sidewalks and streets, where the tunnel or bore is more than six inches in diameter, ought never to be allowed; and where borings are made for pipes, the bore

ought to be made as small as will allow the pipe to be got into place. From my extensive experience I think it may be safely said that it is practically impossible to refill a tunnel by horizontal filling and ramming so that settlement will not result; and where settlement takes place, the pavement over the trench, even where a good concrete foundation is used, is sure sooner or later to settle and require repairs.

STREET OPENINGS.

Some improvement has been made in the replacing of the materials of street openings.

Proper workmanship can only be secured by requiring contractors and other parties who have a right to make excavations in the streets to properly ram and puddle the back filling; the use of water in conjunction with rammers in sandy soil is a useful adjunct; but in heavy soils no water should be used and the number of rammers should be double the number of shovellers. There has been 17 miles of sewer pipe laid, about 40,000 feet of water pipe and about 2 miles of gas pipe. From Feb. 1, 1895, to Feb. 1, 1896, the police have reported 413 defects, which have been repaired.

WIDE TIRES.

Gen. Roy Stone, of the U. S. Department of Agriculture, says he regards it of special importance, in the maintenance of public highways, that the vehicle used on them shall have tires of greater width than are now in general use.

A number of states have made laws respecting the width of tire to be used on vehicles, some of which offer a rebate of a portion of the highway tax on wagons with rims or tires not less than three and a half inches wide. Ohio makes it unlawful to transport over macadamized gravel or stone roads, in any vehicle having a tire less than three inches in width, a load of more than 2,000 pounds.

Indiana has a law against hauling, on wet gravel road, a load if over 2,000 pounds on a narrow-tired wagon or 2,800

pounds on a broad-tired wagon. Kentucky makes a distinction in favor of broad-tired wagons in fixing toll rates.

In France every freighting cart is said to be a road maker: their tires are from three to ten inches in width, usually from four to six.

The German law prescribes that wagons for heavy loads, such as coal, brick, earth and stone, must have a width of tire at least four inches.

Switzerland requires wagons to be provided with wheels having tires of a width proportioned to the largest loads admissible.

In making repairs and constructing new carts and wagons, we put 5-inch tires on the rear wheels of the four-wheeled carts, and on the fore wheels 4-inch; the front axle is shortened 8 inches so that the wheels of one vehicle may not track those of another. The two-wheeled carts we put 4-inch tires on, and the same on the offal wagons and water carts. Great injury is done by narrow-tired vehicles to our roads, however expensively and durably constructed. Wide-tired wheels with the axles of unequal length, so that the wheels will not track under heavy loads, act as rollers, and keep the road hard and well packed and always free from ruts. No man has a right to destroy good roads that are built for the public benefit, and narrow tires should be abolished.

The old adage says, "That vehicle that draws that load should make that road and not that rut."

If wide tires will not make good roads they will keep good roads in good repair.

The adoption of the wide tire is most earnestly urged; its good results are universally conceded.

SURFACE AND GUTTER DRAINAGE.

The subject of the disposal of the surface and gutter water of the city is one of increasing importance, and great improvement has been made since we became a city. The district between Valley street and Salem street, from Paris

street to the end of the new conduit, is sadly in need of an outlet to take away the large amount of water that finds its way to this territory. I would recommend that the conduit be extended to Paris street.

Thatcher, Pembroke and Lapham street district has been relieved by constructing a drain from the marsh through Lapham street and Cushing street to the catch-basins on Thatcher street and the catch-basins on Pembroke street connected with it.

I would recommend the Marion street drain be extended 600 feet on Marion street.

Newbern avenue is provided for, for the present, by running the gutter water into the old drain which has an outlet into the clay pit.

The city should be given the right, by virtue of its interest, to prevent the obliteration of the water courses by notification and the imposition of suitable fines; this would require the action of the legislature.

This right would serve to keep some kind of a channel open, but even this is not sufficient, as it would result in leaving to every abutter the right to build such a channel as he might desire, without any uniformity of size or material, whereas a channel, to be an efficient carrier of water, should be fairly uniform as to size and grade. In building our sewers we assess a portion of the cost upon those benefitted, instead of leaving it to be done by the owners of the property along the line of the sewer by mutual agreement, because that is the only practicable way to secure a working system; there is just as much reason for doing the same thing in the case of a system of surface drainage. In many cases it is now necessary to improve the channel of water courses by deepening, widening and straightening; before the city can do this work it must assume the whole cost of the work, as it has no power to assess. The land-owners, meanwhile, reap all the benefit; the value of lands abutting upon such a stream being increased enormously by such operations,

being oftentimes converted from low swampy land into building lots.

If the city's right to secure the preservation of these water courses could be established by legislative action, as proposed above, then damages could not be proven in case the city made improvements upon them; this being so, the necessity for making takings would in most cases be avoided by obtaining easements by agreement with the land-owners, for such locations for the channels as the land-owners might prefer in order to enable them to cut up their land into building lots to the best advantage. If in addition the city were given the right to assess such proportion of the cost of improvement upon abutting lands as the legislature might deem fit, the vexed question of maintaining an adequate system of surface drainage as a necessary adjunct to the sewer system would be in a fair way to be settled upon an equitable basis.

A great many owners of private lands fail entirely to appreciate the part in such design that natural water courses play, and also fail to recognize that law of equity demands that they be sacredly maintained instead of being blotted out of sight.

STREET WATERING.

The tariff for watering streets this year is two and a half cents per lineal foot front, against three cents last year. Complaints are occasionally heard that this tariff is higher than the rates formerly asked.

If sincerely made, they come only from persons who do not know what it formerly cost under the old system, for only sixty per cent of the abutters on the street watered would pay anything.

Until some better scheme is devised whereby the cleanliness of the streets can be assured, our plan of watering them is the next best means of preserving the city's health. No one gainsays the fact that a road can be kept in condition by judicious sprinkling. A great saving might be made if the West End Railroad Co. would co-operate with the city and

pay for watering their track with an electric sprinkler; two such sprinklers would take care of Salem street to Malden line, High street to railroad crossing, and Main street to Somerville line.

Under the authority of Section 3 of Chapter 17 of the Ordinances of the City of Medford, the supervision of the watering of the public streets of the city was delegated to me by the Mayor, subject to his direction, and it has been determined that the following streets should be watered:

High street from Medford square to Mystic river.

Winthrop street from Winthrop square to Wyman street.

Winthrop square and Medford square.

Forest street from Medford square to Webster street.

Salem street from Medford square to Malden line.

Washington street.

Spring street from Hamlin avenue to Central avenue.

Myrtle street from Spring street to Pinkert street.

Park street from Salem street to Magoun avenue.

Magoun avenue from Park street to Pembroke street.

Dudley street from G. D. Kellum's to Salem street.

Cross street.

Riverside avenue from Medford square to Park street.

Main street from Medford square to Brick Yard lane.

Mystic avenue from Main street to Swan street.

Union street from Mystic avenue to the city pound.

Summer street from Main street to Manning street.

South street from Main street to Curtis street.

Harvard avenue from High street to Sharon street.

Boston avenue from Mystic river to High street.

Bowers street from Harvard avenue to Holton street.

Canal street from High street to Prescott street.

Oakland street.

Walnut street from South street to southerly line of property of A. B. Moorhouse.

Owners of real estate abutting upon any street can secure the watering of such street by applying therefor, under the

provisions of Section 5 of Chapter 17 of the City Ordinances, which is as follows :

"Upon the request in writing of not less than two-thirds in number of the *owners* of real estate abutting upon any street or highway, accompanied by their written promise to pay two-thirds the cost of such watering, the Mayor shall cause such street or highway to be watered, but nothing herein shall prevent him from causing such watering to be done without such request and promise."

The following streets have been watered by petition :

Water street from Forest street, past estate of J. H. Norcross.

Holton street from Bowers street to Boston avenue.

Ashland street.

Emerson street.

Main street from Tufts square to Somerville line.

Medford street from Wheeler avenue to Somerville line.

STREET NUMBERING.

Street numbering is a branch of work that the Highway Department has given a great deal of time to. I do not believe in hap-hazard methods.

The streets numbered have been carefully surveyed, looking to the future development, and its character calculates the largest possible demand for door-ways and a minimum frontage per door for a number on each side of the street. Often the territory is vacant land, and then there comes up the question of its future occupancy, whether residential or business.

The contingency that it may be a tenement district and covered with blocks containing flats has to be duly looked into, and calculation is made for the changing of residences into stores and flats.

Before applying the numbers, the street is carefully mapped out on paper to an exact scale and measured off, the frontage

for the buildings is sealed and the numbers marked for each lot.

This preliminary work is quite exacting and requires much time and thought, for which I am indebted to Mr. Barnes, the City Engineer, who has been busily engaged for a long time on this work.

THE PATROL SYSTEM OF STREET CLEANING.

It has been demonstrated as the only solution of the street cleaning problem, which consists of a man being assigned to a certain district to which he is required to give his constant attention.

He is supplied with a neat hand-cart, with broom, shovel, pick and rake ; he is required to watch careless people who throw paper, orange and banana peel and other material into the street ; he is required to fill and patch all depressions, and cut the grass on the borders of the streets in his district.

Prof. Morse says, "I would compel every one who is guilty of throwing banana skins, apple cores, paper and strings into the highway, to eat and swallow the rubbish."

Ross Turner says, "It should be made a crime for a person to throw rubbish into the streets or even litter the alleyways and back yards. A love of public orderliness is the soil in which a love of the beautiful grows."

REMOVAL OF SNOW AND ICE.

Some criticism has been made on the Street Department to the effect that needed work had been left undone in the interest of economy by not removing all the snow and ice from the business sections. The public is not unmindful of the fact that the weather conditions that have obtained the past winter have been extreme and unusual ; since the cold wave and snow-fall in December, there has been a continuous succession of cold waves. With the exception of a single week, freezing weather has almost continuously prevailed from December 20th to the present time.

Notwithstanding all this, there is a limit to the amount of expenditure, as every dollar used for this purpose is blown away with no permanent structure to show for it; while later in the season when people will be calling for repairs that are absolutely needed, they will be disappointed if they are told the money had been spent for the removal of snow.

Notwithstanding our people keep their sidewalks as free from snow and ice as most cities, we have a number of damage suits for broken limbs.

The city has no knowledge of facts until it is too late to obtain evidence in the case and then notice of suit is received. The city is in no position to make a defence and has to come down with the money for damages.

EMPLOYMENT OF HOME LABOR.

It has been the aim of the Highway Department to employ home labor; the men employed have been dwellers in the city and the most of them have been on the force for six or seven years.

The men who constitute the working force of the Highway Department are picked men; they are all able-bodied and sober men, and no one who is not a resident of Medford is employed in the department. All our work is done by day-labor.

TENURE OF OFFICE.

"One great difficulty with our system arises from the fact that in most of our towns and cities the tenure of office of the roadmasters is short.

"It is rare indeed that a man is able to look forward to a career in this employment, and can therefore properly take the pains, or have the opportunities, to train himself in the work he has to do.

"In a greater number of cases he knows that the customs of the locality will prevent his holding the place for any number of years.

"If this method had been devised to secure the perpetuation

of bad roads it could not have been more effectively adopted to the end." (Report of the Mass. Highway Commission.)

CITY LOT AND STABLE.

This lot contained 155,888 square feet; a portion of this was overflowed by the high tides.

By constant filling with ashes the stable lot is nearly filled up to grade, and a large portion of the dock is filled up. The Medford Water Department, by vote of the Board of Aldermen, has had set apart 43,080 square feet of the stable lot, so called, for use of the Water Department.

STEAM ROAD ROLLER.

The steam roller is in excellent condition. Royal street, Florence street and College avenue from Summer street to George street, have been reconstructed and rolled with the steam roller.

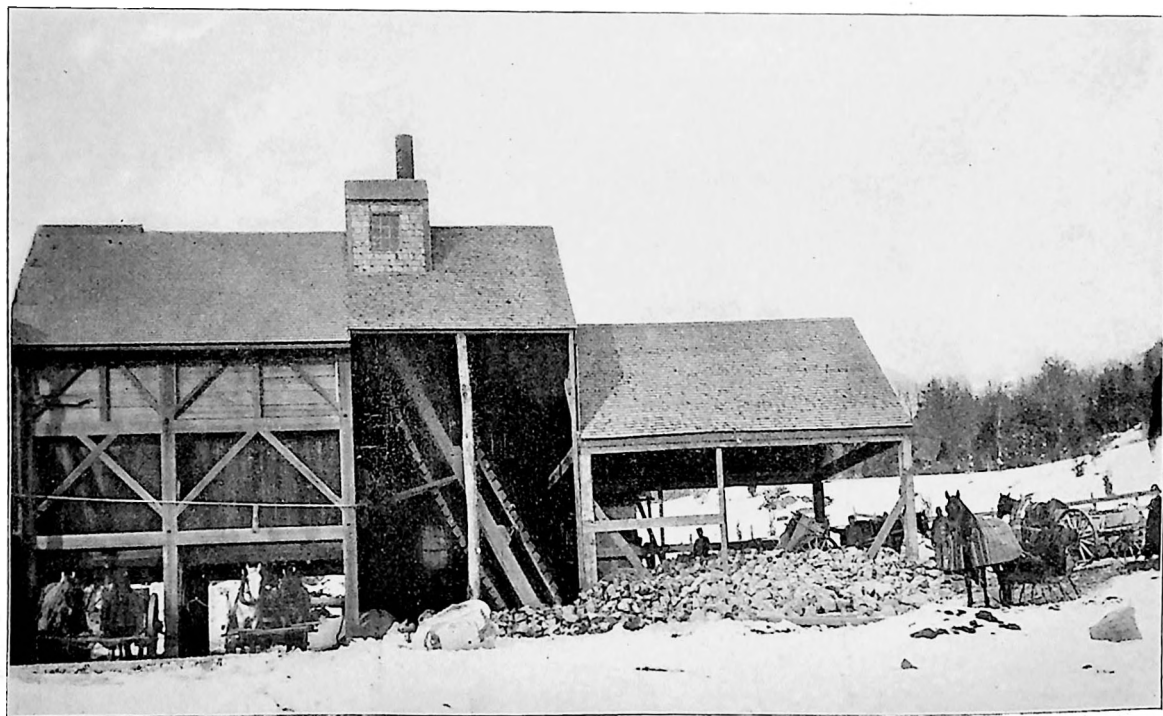
The following streets have been rolled:

Hillside avenue.	Magoun avenue.
Highland avenue.	Webster street.
Garfield avenue.	Main street.
Governor's avenue.	Newbern avenue.
Park street.	Wareham street.
Tontine street.	Marion street.
Court street.	Harvard street.
Everett street.	Yale street.
Lapham street.	

STONE CRUSHER.

A new Farrell & Marsden jaw crusher 10 x 20 has been erected this year and a new elevator and screen; the location of the crusher has been changed from the west to the east side of the bins.

A new shed to cover the crusher and elevator has been erected; also a new engine house. This work has been done by our own men. We have now one of the best stone breaking plants in the country.



STONE BREAKER.

We have been able to supply the demands of the Sewer Department, which has been a great saving to them, and at the same time supply the Highway Department with broken stone for street work. We have crushed $1530\frac{1}{2}\frac{5}{0}\frac{3}{0}\frac{8}{0}$ T. and 4,732 loads, of which $1,460\frac{1}{2}\frac{7}{0}\frac{8}{0}$ T. have been sold to the Sewer Department, $70\frac{1}{2}\frac{3}{0}\frac{6}{0}\frac{2}{0}$ T. to contractors, 4,572 loads put on the streets and 160 loads sold to individuals.

SIDEWALKS AND EDGESTONES.

A large portion of the sidewalk appropriation was spent on Governor's avenue.

The Board of Aldermen passed an order for laying brick sidewalk and edgestone and for placing curbing around the grass plot in the centre; a large part of this being city property came wholly out of the sidewalk appropriation, amounting to \$1,849.68.

PAVING GUTTERS.

The gutters on Hillside avenue, Governor's avenue, and a portion of Main street have been paved.

The gutter on the northerly side of Mystic street ought to be paved.

FOREST STREET WIDENING.

The ledge on Forest street at Kidder's Hill has been removed by blasting and the street widened twenty feet.

HIGH STREET WIDENING.

Nothing has been done this year.

SANITARY DIVISION.

The work of this division includes the removal of house offal and the removal of house and store dirt and ashes accumulated from the burning of materials for heating buildings and for domestic purposes. The number of loads of offal collected from February 1, 1895, to February 1, 1896, was 1,312.

COLLECTION OF ASHES.

The ashes are collected once a week in each ward; the number of loads collected from February 1, 1895, to February 1, 1896, was 7,830. This department insists on a complete separation of offal and ashes, but this is constantly violated, and more stringent measures will have to be taken with the violators of the sanitary rules.

BRIDGES.

Winthrop street bridge is a pile bridge. It is in very poor condition, and hardly safe for the heavy traffic passing over it. The piles in some parts of it are almost decayed, and a number of the spur shores have broken away from the piles. It has been planked this year.

Weir Bridge.

This bridge is in excellent condition.

Harvard Avenue Bridge.

This bridge is in good condition. It has been new planked.

College Avenue Bridge

Has been new planked.

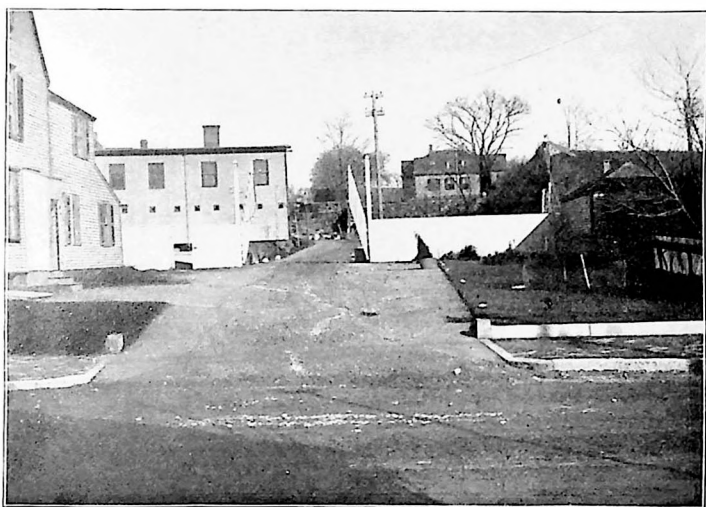
Mystic Avenue Bridge.

This bridge will now be done away with on account of the new culvert being constructed.

Auburn Street Bridge.

The heavy traffic passing over this bridge has caused it to be in a very rickety and shaky condition, and it cannot be put in a safe condition without rebuilding it. The bridge is only 33 feet wide, while Auburn street is 50 feet wide, and I would recommend that a new iron bridge 50 feet wide be constructed to take the place of the old wooden one, capable of carrying a live weight of 15 tons.

This bridge has been planked.



GOVERNOR'S AVENUE AS IT WAS.

Boston Avenue Bridge.

This bridge has been planked.

Middlesex Avenue Bridge.

Nothing has been done to this bridge this year but the ordinary repairs. The draw has been planked.

The draw has been opened 481 times during the year, 151 vessels going up stream, 157 going down; number of ton boats, 173. 21,068 tons of coal, 175 tons of cut stone, 25,-340 tons of gravel, 2,354,000 feet of lumber, and 450 hogsheads of molasses have been carried through.

Valley Street.

Valley street from Salem street to Fulton, Fulton street from Valley street to Love lane, Love lane from Fulton street to the north of Forest street, have been released to the State for the purpose of constructing a State boulevard to the Middlesex Fells.

Magoun Avenue.

It was not deemed advisable to spend \$1200 on Magoun avenue until the sewer was laid.

On account of the sewer being put in so late in the season it was considered inexpedient to attempt any work, as it would leave the street in an unfinished condition during the winter months. I would recommend the money be re-appropriated.

Newbern Avenue.

Newbern avenue has been completed, macadamized and rolled by steam roller.

Garfield Avenue and Daisy Street.

Of the appropriation of \$500 for Garfield avenue, \$246.15 was spent; of the Daisy street appropriation of \$600, \$193.25 was spent; the remainder was left awaiting the finishing of the sewer and laying house connections. I would recommend that these remainders be re-appropriated.

Higgins and Wheeler Avenues.

An appropriation of \$600 was made for Higgins and Wheeler avenues. Nothing was done on Higgins avenue, on account of laying the sewer. Wheeler avenue was sub-graded, at a cost of \$136.50, but the sewer was finished so late in the season the ground was frozen up, and all work had to be discontinued. I would recommend the \$463.50 remaining be re-appropriated.

JOSEPH STREET.

Nothing was done on this street on account of laying the sewer. I would recommend this money also be re-appropriated.

WEBSTER STREET.

The appropriation was insufficient to grade the street and fill the yards as estimated.

The street is completed but it will require \$100 to finish the grading.

JAMES STREET.

An appropriation of \$500 was made for this street. The work is progressing but not completed. I would recommend the balance be re-appropriated.

MYSTIC AVENUE WIDENING.

Of \$4,000 appropriated, \$2,028.08 was spent. The work progressed till the cold weather set in, but winter coming on the work could not be carried on to advantage, and it will have to lay till spring.

TUFTS STREET.

\$300 was appropriated for this street. The work was not completed as the house connections have not been made. I would recommend the \$176.50 remaining be re-appropriated.

ACCEPTED STREETS.

The following streets have been accepted this year :

Newbern avenue.

Joseph street, from Henry to Dexter.

Higgins avenue, from Medford street to Adams street.

Wheeler avenue, from Medford street to Adams street.

Daisy street.

Marine street.

Ship avenue.

LAPHAM STREET DISTRICT DRAIN.

A long needed improvement has been made in this district by constructing a drain to the outlet in the marsh through Cushing and Lapham streets.

It consists of a 36 x 20-inch wooden box drain about 55 feet in length, 30 feet of 30-inch circular brick drain, about 42 feet of 24-inch vitrified pipe drain, all from marsh south of to junction of Lapham street and Riverside avenue. 740 feet of 20-inch pipe in Lapham and Cushing streets, 253 feet of 15-inch pipe in Cushing street, 470 feet of 12-inch pipe in Cushing and Thatcher streets, 170 feet of 10-inch pipe in Pembroke street, 400 feet of 8-inch pipe for catch-basin connections, and 9 manholes, 2 on Thatcher street, 3 on Cushing street, 2 on Lapham street, 1 on Riverside avenue and 1 on Pembroke street.

CULVERT ON FOREST STREET.

A culvert to drain the Manning land has been constructed across Forest street and a substantial iron fence erected on each side.

64 feet of 24-inch pipe, 40 feet of 12-inch pipe, 4 feet of 8-inch pipe and 2 grates were used in the construction.

PIPE DRAINS LAID.

Forest street, 229 feet of 10-inch pipe, 75 feet of 8-inch pipe, 1 26-inch grate, 1 21-inch grate, 2,400 brick, 6 barrels cement.

Harvard avenue, 2 feet of 6-inch pipe, 1,000 brick, 2 barrels cement.

Main street, 21 feet of 10-inch pipe.

Newbern avenue, 105 feet of 6-inch pipe, 64 feet of 8-inch pipe, 2 24-inch grates, 4 20-inch grates, 5,500 brick, 20 barrels cement,

Park street, 15 feet of 10-inch pipe.

Webster street, 20 feet of 8-inch pipe, 1 20-inch grate, 3 barrels cement.

Brookings street, corner Greenleaf avenue, 71 feet of 6-inch pipe.

Medford street, 10 feet of 10-inch pipe.

Summer street, 20 feet of 24-inch pipe.

CATCH-BASINS.

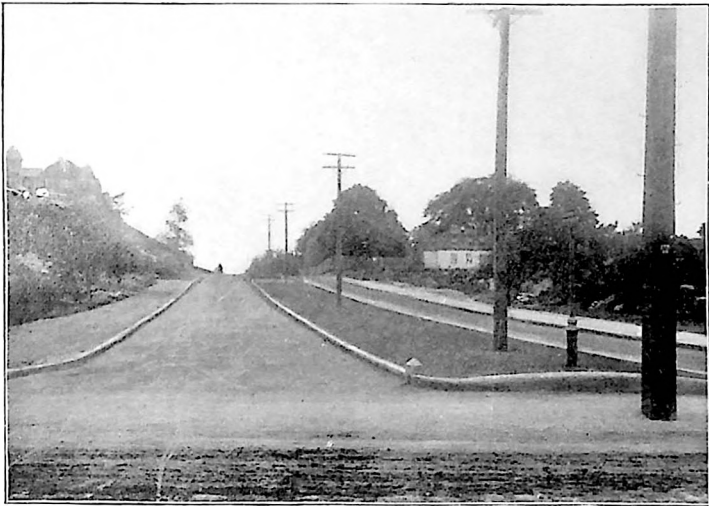
There are 175 catch-basins in the city, including 14 constructed the past year; the work of cleaning is increasing to such an extent, it makes quite an item of expense to be taken from the highway appropriation.

BRICK CATCH-BASINS BUILT.

Newbern avenue	.	.	.	.	.	6
Harvard avenue	.	.	.	.	.	2
Webster street	.	.	.	.	.	2
Forest street	.	.	.	.	.	2
Winchester street	.	.	.	.	.	2
						<hr/>
						14

MANHOLES.

Thatcher street	.	.	.	.	.	2
Cushing street	.	.	.	.	.	3
Lapham street	.	.	.	.	.	2
Riverside avenue	.	.	.	.	.	1
Pembroke street	.	.	.	.	.	1



GOVERNOR'S AVENUE AS IT IS.

WOODEN CULVERTS.

Outlet to Lapham street drain	1
Middlesex avenue	3
Albion street	1

BRICK SIDEWALKS WITH EDGESTONES.

Name.	Brick, sq. yds.	Edgestone, feet.	Circle, feet.	Street.
Mrs. Annie A. Keefe,	52.2	50		10 Boston ave.
New Engine House,	102.4	138.07	42.25	Albion and Med-
Wellman Sole Cutting				ford sts.
Machine Co.,	53.1	73.8	10.2	Swan street.
David G. Melville,	55.4	58.3	15.4	Magoun ave.
Walter F. Cushing,	41.5	61.2		Thatcher street.
Walter F. Cushing,	111.8			Magoun avenue.
Logan Grove,	182.5	211.2		
George W. McPherson,	80.6	86.8	15.7	30 Warren st.
Patrick Printon,	55	51.3		Governor's ave.
Mrs. H. Bradlee,	172.5	163.6		Governor's ave.
City of Medford,	317.8	671.5	92.1	Governor's ave.
John M. Doherty,	51.7	65		6 Wareham st.
John M. Doherty,	43.9	64.7		26 Wareham st.
E. S. Randall,	57.2	73.6		Ashland street.
Horace D. Hall,	97.6	142.2		Ashland street.
Frank H. Hamilton,	51	80	9.65	Hillside avenue.
Mrs. Alice W. Badger,	54.6	86.75	8.75	Hillside avenue.
Frank Hervey,	113.5	164.5		Hillside avenue.
C. H. Webster,	105.1	159.55	9.65	Hillside avenue.
D. O. Kidder, Trus.,	51.5	75.7		Hillside avenue.
James Bean,	149.4	219.5		Hillside avenue.
Luella E. Peak,	51.1	87.8		Hillside avenue.
Wesley P. Dutton,	85.1	142.65	9.55	Hillside avenue.
Police Station,	308.2	212.4	21.	Main and Union
				streets.
William R. Maxwell,	144.8	15.8	27.8	28 and 30 Med-
				ford street.

CONCRETE WITH EDGESTONE.

Name.	Concrete, sq. yds.	Edgestone, feet.	Circle, feet.	Street.
John F. Gilmore,	66	80		31 Warren st.
Marie J. Fairbanks,	68	80		35 Warren st.
Leonard B. Usher,	134.5	192	9.4	Irving street.
R. B. Hankinson,	46.9	135		10 Wareham st.
J. E. Ober,	142	201.8		Cor. High st. and Harvard ave.
John Duane,	106.6	153.4		Harvard ave.
Charles M. Barrett,	36.4	54		Harvard ave.
Adaline C. Barrett,	71.9	107.3		19 and 21 Har- vard avenue.

CONCRETE WITHOUT EDGESTONES.

E. S. Darling, 64 sq. yds., Warren and Madison streets.

CONCRETE SIDEWALKS, TOP-DRESSED.

R. B. Hankinson,	51.6 sq. yds.,	10 Wareham street.
W. A. Thompson,	71.9 "	Thatcher street.
J. E. Ober,	5.5 "	High st. and Harvard ave.
E. S. Darling,	3 "	Warren street.

EDGESTONES.

Name.	Edgestone, feet.	Circle, feet.	Street.
Mrs. Isabella Sage,	60		5 Cushing street.
Daniel W. Hogan,	170.4	14.7	Pembroke and Cush- ing streets.
F. B. Blodgett,	46.1		5 College avenue.
W. F. Bartlett,	46.1		3 College avenue.
City of Medford,	1138	18.8	Grass plot, Govern- or's avenue.
Nicholas White,	198.4		Governor's avenue.
W. A. Thompson,	67.7	14.2	Thatcher street.
Frank H. Hamilton,	164.5		Grand View avenue.
Mrs. Alice W. Badger,	81.15		Grand View avenue.
C. H. Webster,	80.75		Grand View avenue.

Name.	Edgestone, feet.	Circle, feet.	Street.
Heirs of H. Brooks,	27		Washington street.
Herbert Etter,	166		Union street.
William J. Teel,	34.3	18.6	Corner High and Arlington streets.
William T. Morrill,	40.4	18.1	Corner High and Arlington streets.
Catherine Wilson,	88		266 High street.
Alice M. Parker,	81.3	15.2	Newbern avenue.
Christina Streckwald,	40		32 Newbern avenue.
Henry J. Moldt,	40		30 Newbern avenue.
Blaney & Robinson,	437.4		Newbern avenue.
L. E. Bedell,	90.1	14.8	"
William Currie,	42		"
J. Rush Green,	42		"
Mary E. Dartnell,	171		"
Emily J. Elliott,	85.5	15.8	"
Alice J. Blaikie,	40		"
Edwardo Mazzoni,	127.3	15.8	"
Willard Welch,	42		"
Edward W. Cate,	174	11.5	"
Nathaniel Babb,	42		"
Caroline S. Hopkins,	40		"
Sarah R. Baker,	168		"
Eliza R. McGrath,	45.2		"
E. C. Ritchie,	42		"
Bridget Frayn,	40.3	15.9	"
Charles H. Hanson,	40		"
Sarah Frost,	132.2	14.2	"
William L. Smith,	40		"
Henrietta Durrell,	40		"
William L. Bloom,	124.3	15.8	"
Mrs. Margaret Barry,	90.3		31 Mystic avenue.
Charles H. Brooks,	40.3		Medford street.
Gilbert Hodges,	238.3	12.6	Grand View avenue.
M. E. Nichols,	264.6		"

EDGESTONE RESET.

	Feet.	
Heirs of H. Brooks,	33.7	Washington street.
William R. Maxwell,	110.8	28 and 30 Medford street.

STONE CORNERS (Granite).

Hillside avenue at Grand View avenue	1
Wheeler avenue	2
Higgins avenue	2
Governor's avenue	4
Tufts street at Salem street	2
Harvard avenue	4
Allbion street at Engine House	2

STONE CORNERS (Cobble).

Garfield avenue at Central avenue	2
Garfield avenue at Salem street	2
Warren street at Madison street	1
Paris street at Tainter street	1
Tufts street at Water street	2
Tufts street at Fountain court	4

STREET CROSSINGS (Granite).

Hillside avenue at High street	1
Grand View avenue at Hillside avenue	2
Main street at Engine House	1
Salem street at Forest street	1
Governor's avenue	1

STREET CROSSINGS (Concrete).

Irving street at Allston street	1
Madison street at Warren street	1

STREET CROSSINGS (Broken Stone).

Fairmont avenue and Boston avenue.
 Bellevue avenue and Boston avenue.
 North street and Boston avenue.

Adams street and Boston avenue.
 Cove street and Boston avenue.
 Salem street at Court street.
 Garfield avenue at Salem street.
 Garfield avenue at Central avenue.
 Tufts street.
 Paris street.

GUTTERS PAVED.

Hillside avenue	157 $\frac{1}{2}$ sq. yds.
Main street	240 "
Governor's avenue	62 "

SHADE TREES SET OUT.

Magoun avenue 16	Grant avenue 3
Thatcher street 2	Wareham street 4
Vernon street 2	Jerome street 4
College avenue 4	Boston avenue 3
Pembroke street 8	Winchester street 2
Governor's avenue 3	Marion street 2
Cudworth street 4	Spring street 1
Harvard avenue 3	Florence street 1
Main street 3	Emerson street 2
Salem street 2	Fifth street 1
Washington street 3	Dexter street 1
West street 1	Sturtevant terrace 12
Cotting street 1	Warren street 3
Total, 91.	

TREE PROTECTORS ERECTED.

	Wire.		Wire.	Wooden.
Magoun avenue,	18	Florence street,	20	
Thatcher street,	2	Emerson street,	8	
College avenue,	2	Fifth street,	8	2
Pembroke street,	5	Holton street,	9	
Cudworth street,	4	Middlesex avenue,	4	
Harvard avenue,	2	Dexter street,	10	

	Wire.		Wire.
Main street,	7	Court street,	3
Salem street,	3	Fulton street,	2
Washington street,	6	Winthrop street,	10
West street,	4	Warren street,	3
Wareham street,	6	Bowers street,	8
Boston avenue,	22	Ashland street,	3
Total, 169 wire ; 2 wooden.			

STREET SIGNS ERECTED.

Gartfield avenue	2 single
Farragut avenue	1 "
Sheridan avenue	1 "
Grant avenue	1 "
Logan avenue	2 "
Hooker street	1 "
Magoun avenue	1 "
Thatcher street	2 "
James street	1 "
Swan street	1 "
Moore square	1 double
Medford street	1 single
Albion street	1 "
Newbern avenue	1 double
Hillside avenue	1 "
Governor's avenue	1 "
Lapham street	1 single
Total	20

PRIVATE WAY SIGNS.

James street	2 single
Adams private way	2 "
Gravelly Creek	2 "
Osgood street	1 "
Swan street	1 "

PERMITS.

- Boston & Maine R. R. Co., to dig up Riverside avenue.
William Dwyer, test holes for blasting further end of Governor's avenue.
Lewis H. Lovering, to occupy Magoun avenue and Thatcher street for building.
Michael J. Coughlin, to occupy Magoun avenue for building.
Eli Ayers, to dig up Royal street to connect drain.
Wesley Emerson, to occupy Almont street for building.
Robert Bennett, to occupy sidewalk on Main street for building.
Dennis M. Hook, to cross sidewalk on Forest street for teaming.
John W. Norton, to occupy sidewalk on Emerson street for building.
Eli Ayers, to dig up Royal street to connect drain.
H. D. Johnston, to occupy sidewalk, Medford and Main streets, for building.
Charles H. Day, to cross sidewalk, No. 25 Salem street.
Albert T. Knapp, to blast rock adjoining No. 262 Main street.
Eli Ayers, to occupy sidewalk, Royal and Florence streets, for building.
John M. Cook, to occupy sidewalk, Winchester street, for building.
James Hoar, to cross sidewalk, Main Street, for building.
Peter E. Donahue, to occupy sidewalk, High street, for building.
G. E. Sherry, to blast rock on Albion street.
J. E. Dennison, to occupy Adams street for building.
J. B. Magee, to use sidewalk, Dexter street, for teaming.
Eli Ayers, to place hitching post, No. 9 Florence street.
John Nolan, to occupy Summer street for building.
Orchard Peasley, to blast rock, further end of Prospect park.
O. B. Hill and C. L. Frost, to occupy Boston avenue.
J. R. Wyman, to occupy Hume avenue for building.

- John B. Hall, to occupy Arlington street for building.
- Peter E. Donahue, to cross sidewalk, High street, for building.
- H. A. Hanscom & Co., to blast rock in Main, Medford and Joseph streets, to lay sewer.
- A. T. Knapp, to occupy Medford street for repairs.
- G. W. Collier, to occupy Cotting street for building.
- Walter Morton, to occupy Daisy street for building.
- Archibald McAusland, to occupy Daisy street for building.
- R. Edgett, to occupy Main street for building.
- Crockwell Brothers, to occupy sidewalk, No. 8 Main street, for building.
- Ivan Johnson, to occupy Edward street for building.
- C. H. Fairbanks, to place hitching post, No. 39 Warren street.
- George W. McPherson, to place hitching post, No. 30 Warren street.
- John Antrobus, to place hitching post on Lapham street.
- Joseph T. Goulet, to move building on Riverside avenue, corner Hall street.
- Elmer D. Hutchins, to cross sidewalk, No. 41 Monument street, to dig cellar.
- Walter Morton, to occupy Myrtle street for building.
- A. C. Blaikie, to occupy Pembroke street for building.
- John E. Sweeney, to occupy sidewalk, Riverside avenue, for building.
- Eli Ayres, to dig up sidewalk on Royal street to lay drain.
- J. A. Rollins, to place hitching post, No. 65 Salem street.
- Leavitt & Woodworth, to open drain, No. 88 Winthrop street.
- O. E. Underhill, Adj. Knights of Golden Eagle, to parade on Salem street.
- T. Allen, to occupy Dexter street for constructing concrete walk.
- Ham & Hopkins, to occupy Summer street for building.
- Smith Crowe, to occupy sidewalk, Garfield avenue, for building.

- Michael Connor, to cross sidewalk on High street to fill in cellar.
- M. J. O'Hearn, to take steam roller from Somerville to Malden and return.
- G. A. Cross & Son, to place guy rope across sidewalk, No. 38 Salem street.
- Malden & Melrose Gas Light Co., to open and occupy Allston street to lay pipe.
- A. C. Symmes, to occupy sidewalk, No. 15 Forest street, to erect a canopy.
- Camp 54, Sons of Veterans, to parade.
- W. A. Bird, to occupy Forest street for building.
- Malden & Melrose Gas Light Co., to open Winthrop street to run house supply.
- John E. Sweeney, to occupy sidewalk, Riverside avenue, to make repairs.
- Malden & Melrose Gas Light Co., to open Bradshaw avenue to run house supply.
- John H. Hooper, to dig up drain on College avenue.
- Ham & Hopkins, to occupy Forest street for building.
- T. Allen, to set tar kettle in Harvard street for concreting.
- Malden & Melrose Gas Light Co., to open Dudley street to run house supply.
- C. E. Curtis, to occupy Pleasant street for building.
- Manning Foster, to occupy Manning street for building.
- James S. Fonger, to occupy Cushing street for building.
- Malden & Melrose Gas Light Co., to open Summer street to run house supply.
- Malden & Melrose Gas Light Co., to dig up Lapham street to lay pipe.
- Malden & Melrose Gas Light Co., to open Park street at bridge to connect gas main.
- Methodist and Episcopal churches, to place notice boards on Fifth street to announce services.
- Malden & Melrose Gas Light Co., to open corner Sharon and Holton streets to run house supply.

- Walter Morton, to occupy Daisy street for building.
- Malden & Melrose Gas Light Co., to open Garfield and Logan avenues to connect pipe.
- Malden & Melrose Gas Light Co., to open Pembroke street and Bradshaw avenue to connect pipe.
- Malden & Melrose Gas Light Co., to open Manning street to run house supply.
- W. H. Cushing, for high school boys to parade streets.
- Malden & Melrose Gas Light Co., to open Myrtle street to lay gas main.
- Henry W. Magee, to cross sidewalk No. 35 Newbern ave.
- West End Street Railroad, to open Salem and Maine streets to connect wires.
- Henry W. Magee, to cross sidewalk, Main street — next to Tufts school.
- Mrs. Mary A. Thorpe, to occupy Chester avenue for building.
- M. C. Vinal, to occupy sidewalk, High street, for repairs.
- E. C. Mead, to occupy sidewalk, Opera House, High street, for repairs.
- Malden & Melrose Gas Light Co., to open Lapham, Forest and Salem streets to run house supply.
- Malden & Melrose Gas Light Co., to open Grand View avenue to run house supply.
- M. C. Vinal, to occupy Forest and Salem streets at Hotel Bigelow for repairs.
- M. Dignan, to dig up Summer street at No. 48, to enter drain.
- John Crockwell, to cross sidewalk, Manning street, to dig cellar.
- Malden & Melrose Gas Light Co., to open Garfield avenue to run house supply.
- C. L. Batchelder, to blast rock for cellar on Vernon street.

	Crushed stone.	Gravel.	Aluc.	Filling.	Screenings.	Stone.	Ballast.	Sand.	Loam.	Clay.
Greenleaf av.	2		22	1						
Garfield av.	56	121	2	17			24	8		18
Governor's av.	441	199	108	35			64	73	295*	
George st.	2		2	13						
Grand View av.		32		44				1		
Garden st.	7			10						
Gibson st.	1	1								
Grove st.	2	1								
Gypsy lane.	8									
Gleason st.		1								
Hadley court.	2									
Harvard av.	13	19	716		3 1,000†					
High st.	82	83	5	7	3		4		22 400†	
Hancock st.	3	11								
Highland av.	167	36		15						
Hillside av.	29	151	8	79		2,040‡		91		
Holton st.			4							
Harvard st.	3	6	2							
Henry st.			67	9			3			
Irving st.	3	13	2	40						
Jerome st.		37								
James st.	25	281	2	162		611	115			
Joseph st.		10								
Lincoln st.			9							
Lapham st.	10	2								
Logan av.		9	24	10						
Lincoln school.				13						
Linden st.		25		22						
Logan Park.									8	
Laurel st.	10									
Lawrence st.			95							
Main st.	496	124	14	16	1	15**	1			
Middlesex av.	60	4	288							
Myrtle st.	12		193		5					
Medford st.	38	36	12	2			14	59		
Morton av.	3		18				20			
Magoun av.		6	2					22		
Mystic av.	18	15	36	149			76			
Marion st.	14	31	6	24	6		1			
Manning st.	6									
Madison st.	3	5	1	2						
Marshall st.	4									
Mystic st.	15	9	14	33			4			
Monument st.				5						
Medford square.	6									
Maple av.	2									
Newbern av.	467	343	62	289		5,500†	1,138	4	16††	20‡
North st.			266							
Newcomb st.	1	3								
Newton st.				5						
Otis st.	10	66						26		

* Loam.

† Brick.

‡ Barrels of cement.

§ Paving blocks.

|| Stone.

** Cobble stone.

†† Concrete.

REPAIRS AND MATERIALS USED UPON THE FOLLOWING STREETS.

	Crushed stone.	Gravel.	Ashes.	Filling.	Screenings.	Stone.	Ballast.	Sand.	Loam.	Clay.
Allston st.	32	31	79	83			2			
Almont st.		2								
Amaranth av.		3								
Albion st.	35	14	20	12						4
Auburn st.	7	5		6	1					
Adams st.	2			2						7
Ashland st.	6	9		20				19		
Arlington st.		15		31						
Boston av.	106	65	42	31	3			9		6
Brooks st.	18	38	21							
Bowers st.	6		2							
Brookings st.	3		2			4				
Brooks Park.		2								
Bradbury av.		6								
Bradshaw av.		2								
Bennet st.						2				
Benham st.		6								
Court st.	3	2								
City Yard.	49	6	1,943	70	10	1	2			
Cherry st.		2	293	10						
College av.	291	30	24	28						4
Cotting st.			10		1					
Curtis st.			4							
Canal st.	2	2	2							
Cross st.	4	6						1		
Central av.	2	10			1		2			
Cushing st.	8	9	2					6		
Chester av.	2									
Dudley st.	7	20								
Dexter st.	4			8						
Dartmouth st.		4								
Daisy st.		37		481						
Everett st.	10	12								6
Emerson st.	4	6								
Edward st.			2	3						
Elm st.	10				1					4
Franklin st.	5									
Fulton st.	5	9	30	6	2					23
First st.			2							
Fountain st.		9								13
Forest st.	215	43	27	30	2,400*	2	37	19	6†	2
Florence st.	131									
Fifth st.		5								
Fourth st.		2								
Foster's court.		1								

* Brick.

† Barrels of cement.

	Crushed stone.	Gravel.	Ashes.	Filling.	Screenings.	Stone.	Ballast.	Sand.	Loam.	Clay.
Oakland st.	1	6								
Pleasant st.	10	10	8							
Prescott st.	7	2	96							
Park st.	30	29	12	33	2					
Paris st.	4	4	23							
Pembroke st.	2	8								
River st.	1									
Riverside av.	105	20	37	7	2					
Royal st.	238									
Summer st.	34	11		2						
Sidewalks.	340	1,335	1,193	2,136				382		
Spring st.	23	14	306	2	2					
Salem st.	290	23	10	1					2	
South st.	9		36							
Swan st.	181	55	3	71			35	2		
Sixth st.			2							
Sherman st.				19						
Sewer yard.				10						
Stearns av.	5									
Small's pond.			1,007							
Tufts st.	89	33	24	87						7*
Temple st.	2		6	22						
Touro av.	1									
Tainter st.	2	2	7							19
Thatcher st.		3								
Union st.	25	6	22	4						
Valley st.	43	12	47	20			15			
Vernon st.	2		1	12						
Winchester st.	9	40	29	3		2,700†	12	1	8‡	2§
Winthrop st.	166	46	203	175		13||	19			2*
Washington st.	44	11		5						
West st.	4		5							
Water st.	6	9	32							8
Warren st.	10	43	2	17		2**		11		
Webster st.	204	181	38	1,041		1,200†	18		3‡	1††
Walnut st.	8	1			1					
Woburn st.	18	9	2	30						
Wyman st.	9	7	4	5						
Wareham st.	14	15	12	12				16		
Williams st.							12			
Wheeler av.	1	3		12						
Yale st.		5								

* Clay. † Brick. ‡ Barrels of Cement. § Grates and Curbing.
 || Cobble stone. ** Stone. †† 20-inch grate.

ESTIMATED VALUE OF BUILDINGS BELONGING TO
THIS DEPARTMENT.

1 Stable, 58 x 28	\$1,400 00
1 Shed, 25 x 100	678 00
1 Shed for Steam Roller	178 00
1 Shed for Water Carts	325 00
1 Shed for Ollal Wagons	200 00
1 Shop and Shed	400 00
1 Hopper building	1,400 00
1 Shed for Crusher	200 00
1 Engine House	350 00

In concluding this my third report as Street Commissioner, it gives me great satisfaction to be able to say that during the year none of the different divisions under my supervision have overdrawn the amounts appropriated for their use. The equipments of the different divisions are in good condition.

I wish to extend my sincere thanks to his Honor the Mayor, the City Council, Chief of Police and the officers under him, for the prompt manner in which defects have been reported to me: to the Treasurer, Auditor, City Clerk, Mayor's Clerk, Board of Health, Water Board, Superintendent of Water Works, City Engineer and City Messenger for their co-operation.

I desire also to acknowledge my appreciation of the faithful and conscientious assistance rendered me by my foreman, clerk and employees during the year.

Respectfully submitted,

JOHN P. PRICHARD,
Street Commissioner.

REPORT
OF THE
CHIEF ENGINEER OF FIRE DEPARTMENT.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—In compliance with the requirements of the city charter, I respectfully submit to you the annual report of the Fire Department for the year ending January 31, 1896. In this report will be found a statement of the manual force and apparatus, a record of all fires, both bell and still alarms, and showing, as near as possible, the loss and insurance; also a list of the officers and members, and such other information as may be of interest.

FORCE OF DEPARTMENT.

The department consists of a chief engineer, who is also superintendent of the fire alarm; two assistant engineers; one permanent engineman, who is also assistant superintendent of fire alarm; one stoker, seven permanent drivers, twenty-two hosemen, twelve laddermen, a chemical company of four men, and a company of five men attached to Combination Hose and Chemical No. 1 at South Medford. We need one more permanent man and ought to have one; as the engineman of the steamer is also the assistant superintendent of fire alarm, and looks after the repairs of the line, and is liable to be called out on the line at any moment. As it is not always possible to get a man to fill his place and to fill the men's places during vacation and "days off," I recommend that one more permanent man be appointed.

APPARATUS.

The apparatus is the same as last year, except in the addition of one more exercise wagon.

The apparatus consists of one steam fire engine, one hook and ladder truck carrying 300 feet of ladders, hooks, etc. ; one two-horse hose wagon carrying 1500 feet of hose, and two chemical extinguishers ; one one-horse hose wagon carrying 1000 feet of hose and one extinguisher ; one one-horse hose reel carrying one thousand feet of hose and two extinguishers ; one two-horse, 50 gallon double tank chemical engine, with 25 feet of ladders, and one two-horse combination chemical and hose wagon. We have also at West Medford one one-horse hose reel with 650 feet of hose, and at Wellington one hand reel carrying 500 feet of hose.

The department also owns one old hand reel, five supply and exercise wagons, and three hose pungs. I would respectfully call your attention to the recommendation of ex-Chief Synmes in his last report in regard to the purchase of another steam fire engine, and I recommend that the sum of \$4000 be appropriated for the purchase of same.

The chemical engine at West Medford will have to be repaired and painted this year.

HORSES.

We have fifteen horses, located as follows : 9 at Central Station, two at West Medford, one at Park street, two at South Medford, and one at Spring street. The horses are all in good condition at the present time.

FIRE ALARM.

The fire alarm is in good condition at present, but ought to be cut up into three or four circuits, as twice within the last six months the fire alarm has been practically useless for a number of hours. The first time was during a fire at South Medford. Box 71 was pulled and worked all right ; box 72 was pulled for the same fire some five minutes later, the first two rounds coming in all right, after which the alarm stopped ringing. We knew nothing about it until the fire was out, when I tried to pull the all-out signal but could not

strike a blow. The assistant superintendent and myself were out the greater part of the night looking for the trouble, but did not find it until about 9 o'clock the next day, when we found a wire broken in box 46.

If the line had been in four circuits we could have found the trouble in one hour at least, and the circuit on which the break occurred would have been the only one out of order. I therefore recommend that the sum of \$800 be appropriated for the purpose of putting in a repeater and cutting the line up into three circuits. The fire alarm consists of four large bells and strikers, one 18-inch gong, four 5-inch gongs, 33 fire alarm boxes, one indicator at Central Station, and nineteen miles of wire.

BUILDINGS.

The house of Hose Co. No. 3 is not fit for a fire department house: it is unhealthy and out of repair. The city is very fortunate that we have not had a bad accident while answering an alarm, as the door is so low that the driver has to almost lay down on the seat while passing out. It is also very narrow and the ventilation is poor. The house is not fit in any particular for the purpose for which it is used, and a new house cannot be built too soon.

The house at West Medford will have to have some repairs this year. The roof will have to be shingled, and it ought to be painted inside. If the Central house is connected with the sewer, there will have to be considerable plumbing work done. We will also have to have a new floor in the apparatus room, as the present floor is worn out. We should also have a hot water heater for the bath room, and to heat water for the use of the men who sleep in the house. I would recommend that the sum of twelve hundred dollars be appropriated for repairs at Central house.

The South Medford and Spring street houses are both in good repair with the exception of the floor in the apparatus room in the Spring street house.

HOSE.

We have now about nine thousand eight hundred feet of hose. This is not enough, for if the fires come close together we would be obliged to load the apparatus with wet hose. I therefore recommend that the sum of six hundred dollars be appropriated for new hose.

FIRES IN THE WOODS.

I recommend that the sum of one hundred dollars be appropriated for fires in the woods.

SALARIES.

The pay of the members, both permanent and call men, should be increased.

MEMBERS OF THE DEPARTMENT.

Board of Engineers.

Charles E. Bacon, Chief Engineer and Superintendent of Fire Alarm.
 Jude C. Clark, First Assistant Engineer and Clerk.
 Frank O. Waterman, Second Assistant Engineer.

Hose No. 1.

George A. Hooker, Captain.
 Adam G. Clark, Lieutenant.
 Hugh Frasier, Driver.
 John J. Crockwell, Clerk.

John A. Gaffey.	Edgar H. Babcock.
Charles Bourque.	John Payne.
J. F. Chick.	James Ingraham.
Marshall S. Culver.	

Substitutes.

Burton W. Hervey.	F. W. Mahoney.
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Hose No. 3.

Joshua Brewster, Captain.
 William S. Richards, Jr., Lieutenant.
 B. F. Samson, Driver.

James Boberton. James Barnes.
 George H. St. Dennis. Hartwell Melvin.

Hose No. 4.

Bertrand W. Colburn, Captain.
 William R. Ordway, Driver.

John Antrobus. George E. Graves.
 J. B. Barnes. I. P. Hamm.
 William L. Clifford.

Hook and Ladder No. 1.

Frank Hathaway, Captain.
 Charles H. Hartshorn, Lieutenant.
 Frank P. Dutton, Driver.
 Samuel G. Jepson, Clerk.

James H. Chase. Judson A. Hanson.
 William E. Barrows. C. Ernest Larkin.
 John B. A. Buflum. George L. Newhall.
 Fred Blackburn. Harry M. Smith.
 Herbert Etter.

Chemical No. 1.

Victor H. Richer, Captain.
 Frank H. Walker, Driver.

Nathaniel A. Kiley. Arthur E. Hixon.
 Fred Whitman.

Combination Co.

Thomas A. Qualey, Captain and Driver.
 W. E. Scott. J. Smith. G. Collins.
 T. D. Collins. C. Morrin.

Engine Co. 1.

George H. Gillard, Engineman.
 Arthur Morse, Driver. Daniel White, Stoker.

FIRES FOR THE YEAR ENDING FEBRUARY, 1896.

Date.	FIRES AND ALARMS.	Time.	Alarms	Loss.	Insur- ance.
1895.					
Feb. 27	D. Bradley's house, Forest street	9.45 p.m.	Box 24	None	
Mar. 19	Woods off Valley street	3 p.m.	Box 31		
19	Woods off Fulton street	3.30 p.m.	Still		
21	Woods off Fulton street	4 p.m.	Still		
23	Woods off Fulton street	4.30 p.m.	Still		
29	J. E. Green's house	11.48 p.m.	Box 42	\$554 00	\$4,000 00
April 2	Woods off Valley street	2.40 p.m.	Still		
4	Woods off Valley street	3.15 p.m.	Still		
5	Chimney in J. Crowley's house	10 a.m.	Still	None	
5	Grass and fences	3.18 p.m.	Still		
5	Woods on Spring street	6.45 p.m.	Still		
5	Stable at Pease Hotel, Salem street	9.55 p.m.	Box 31	Slight	
6	Woods, Osgood's lot	11 a.m.	Still		
6	Woods back of Poor Farm	1.30 p.m.	Still		
6	Brush on Spring street	1.40 p.m.	Still		
14	Lime barrel, Dearborn street	7.33 p.m.	Box 42	Slight	
16	Lamp tipped over at Irving House	8.42 p.m.	Box 51	None	
21	Woods back of Poor Farm	2 p.m.	Still		
21	Barn on Valley street	9.20 p.m.	Box 31	None	
24	Hay at Wellington	11 a.m.	Still		
27	Robertson's Block, Salem street	1.50 a.m.	Box 28	Slight	
30	Mr. Hellen's house on Vernon street	3 p.m.	Box 52		
May 8	Pile of wood at Maxwell's brickyard	9.23 p.m.	Box 53	\$20 00	
11	Woods off Elm street	11 a.m.	Still		
19	Wilson avenue	2.30 p.m.	Still	None	
28	Charles Day's house, Salem street	8.20 p.m.	Box 23	None	
31	Wood at brick yard	10.12 p.m.	Box 73	\$25 00	
June 17	Tool box on Vine street	4.20 a.m.	Still		
18	A. O. Gamage's house, Canal street	7.43 p.m.	Box 51	None	
July 21	Mrs. Carue's house, Dexter and Main streets	8.45 p.m.	Still	None	
Aug. 10	F. Lewis's lunch room, Salem street	2.00 a.m.	Box 31	\$25 00	2,500 00
15	Tenement block on Lawn Park	11 a.m.	Box 72	None	2,500 00
* 19	Eight houses on Joseph street	11.40 p.m.	Box 71	\$7,903 00	27,400 00
26	Bay State brickyard, Riverside av.	1.31 a.m.	Box 35	75 00	400 00
28	P. C. Brooks's barns on Grove st.	2.50 a.m.	Box 46	5,215 00	2,500 00
30	P. W. W. Hall's house, Winthrop st.	2.28 p.m.	Box 42	None	3,500 00
Sept. 4	T. Connor's house, Sangor street	11.06 p.m.	Box 71	\$1,300 00	2,500 00
4	T. Connor's house, same fire	11.15 p.m.	Box 72		
9	Eva B. Woodman's house, Joseph st.	10.30 a.m.	Still	\$68 00	5,000 00
9	N. White's house, Union street	5.05 p.m.	Still	None	
11	Mrs. Jane Sullivan's house, Earl av.	11.38 p.m.	Box 25	\$2,809 00	3,300 00
Oct. 3	M. L. R. Jackson's house, Salem st.	7.14 p.m.	Box 28	None	1,200 00
7	Wood-shed, 89 Winthrop street	2.58 p.m.	Box 42	\$75 00	None
10	J. Usher's block, High street	2.22 a.m.	Box 51		
26	J. Conway's stable, Riverside av.	2.14 a.m.	Box 33	650 00	\$1,000 00
Nov. 1	Load of lime, No. 6 Bradshaw av.	3.19 a.m.	Box 32	10 00	
13	Mr. Munnex's house, Magoun av.	6.55 a.m.	Box 32	None	
30	Woods off Valley street	5.15 p.m.	Still		
Dec. 7	Woods off Valley street	4.15 p.m.	Still		
7	Woods off Valley street	6 p.m.	Still		
17	Chimney in Mr. Gordon's house, Salem street	8.45 p.m.	Still	\$5 00	
28	Woods off Valley street	3 p.m.	Still		
1896.					
Jan. 1	Peter Yeaman's house, Winchester et Grass on Brooks estate	7.05 a.m.	Box 73	1,041 00	2,500 00
1	J. Benn's house, High street	7 p.m.	Still	None	2,500 00
2	J. Benn's house, High street	3.57 p.m.	Box 57	None	2,500 00
4	Hay at Wellington marsh	5.50 p.m.	Still	\$10 00	
6	Everett schoolhouse, Salem street	4.50 p.m.	Still	1 00	4,000 00
11	G. W. W. Hall's house, 89 Win- throp street	4.55 p.m.	Still	5 00	3,500 00
18	Catholic Church, High street	12.30 p.m.	Still	None	5,000 00
21	George Small's house, Second st.	1.05 p.m.	Box 36	\$125 00	6,000 00
22	John Payne's stable, Hadley court	5.02 p.m.	Box 26	2 50	7 50
25	Mitchell's jewelry store, Main st.	2.55 a.m.	Box 18	553 83	6,000 00

* House and stable destroyed and the other buildings damaged.

There have been the past year 62 alarms,— 33 bell and 29 still.

Have used 1211 feet of ladders and 33,800 feet of hose; worked 430 hours, run 670 miles during the year.

Following is the estimate of appropriations necessary for the ensuing year :

Chief Engineer and Supt. of Fire Alarms	\$902 00
2 assistant engineers at \$102	204 00
Clerk of engineers	50 00
Engineman and Assist. Supt. of Fire Alarm	902 00
Engineer and driver of Chemical No. 1	852 00
Seven drivers at \$802	5,614 00
44 call members at \$52	2,288 00
Ordinary running expenses	6,250 00
Cutting fire alarm into three circuits, repairs, etc.,	800 00
New hose	600 00
Repairs at Central house	1,200 00
5 telephones	365 00
Fires in the woods	100 00
New steam fire engine	4,000 00

Respectfully submitted,

CHARLES E. BACON,
Chief Engineer.

Medford, February 1, 1896.

REPORT
OF THE
BOARD OF ASSESSORS.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—The Board of Assessors respectfully submit the following report for the year ending January 31, 1896:

State tax	\$9,345 00
Metropolitan sewer tax	9,950 81
Middlesex county tax	14,753 88
City tax	189,690 39
Overlay and abatement	5,240 82
	\$228,980 90
Total	\$228,980 90
Amount of poll taxes	\$8,250 00

VALUATION OF THE CITY.

Polls.		Pers. Est.	Houses.	Real Est. Land.
Ward 1, 822.	Res.	\$46,300	\$916,600	\$692,750
	Non-res.	31,850	317,300	463,550
Ward 2, 624.	Res.	74,200	732,575	551,375
	Non-res.	13,900	151,000	159,100
Ward 3, 557.	Res.	1,369,100	1,257,550	1,837,050
	Non-res.	13,350	147,900	323,350
Ward 4, 618.	Res.	144,600	738,500	733,800
	Non-res.	5,150	88,450	98,100
Ward 5, 863.	Res.	138,700	916,750	824,600
	Non-res.	700	444,600	663,100

Ward 6, 641. Res.	433,350	1,053,850	1,093,300
Non-res.	700	210,900	291,350
Totals,	<u>\$2,271,900</u>	<u>\$6,975,975</u>	<u>\$7,731,425</u>

Total valuation May 1, 1895	\$16,979,300
Rate per \$1,000	\$13 00
Amount of taxes committed to the Collector	\$228,980 90
Added taxes, polls, personal and real estate	\$637 10
Abated taxes, personal and real estate,	3,719 95
Re-assessed taxes, personal and real estate	1,984 45

Number of residents assessed on property :

Individuals	1,841
All others (firms and corporations)	119
Total	<u>1,960</u>

Number of non-residents assessed on property :

Individuals	660
All others (firms and corporations)	105
Total	<u>765</u>

Number of persons assessed :

On property	2,725
For poll tax only	3,124
Total	<u>5,849</u>

Militia (between 18 and 45 years)	3,000
Number of polls	4,125
Tax on each poll	\$2.00
Number of horses assessed	818

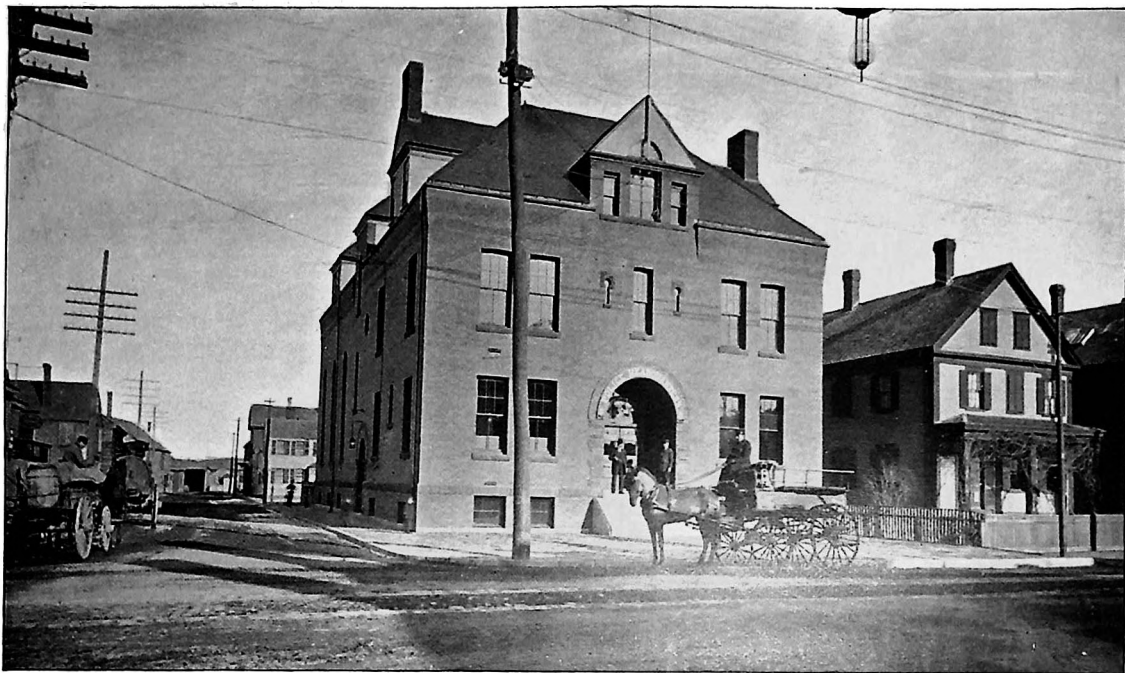
Number of cows assessed	322
Number of neat cattle other than cows assessed,	4
Number of dogs	647
Number of dwelling houses assessed	3,050
Number of acres of land assessed (about)	4,150

Respectfully,

HENRY WITHINGTON,
EDWARD S. RANDALL,
EDWARD W. HAYES,

Assessors.

February 24, 1896.



POLICE STATION.

REPORT
OF THE
CHIEF OF POLICE.

FEBRUARY 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Dear Sir,—I have the honor of submitting to you my annual report of the Police Department for the year ending January 31, 1896.

ORGANIZATION.

Chief: Emery D. Holmes.

Sergeant: William G. Ewell.

Patrolmen:

John Grady.

Daniel K. Richardson.

James H. Kane.

James H. Brewster.

Francis C. Thieler.

George H. Lenox.

Alfred Haskell.

William G. Golding.

Frederick J. Lewis.

Charles H. Ewell.

Charles H. Watson.

Driver: P. Frank Ward.

The above named, with the two additional patrolmen the City Council has authorized the appointment of, will make the total number of the force sixteen.

NEW STATION.

We moved into our new quarters on the eleventh day of last July, and I am pleased to say that we all appreciate them very much. On moving, I found that we could not keep the patrol team at Mr. Day's stable, on account of the distance, so I secured a small stable opposite the station and

fitted it up as best I could for a temporary place until a suitable stable could be built on the land owned by the city on the rear of the station. The new stable ought to be built as soon as possible, for it is impossible to tell how long we may be able to stay in the present one. When this is done and the police signal system put in, the Police Department will be well provided for for a number of years.

The arrests for the year have been as follows:

Whole number of arrests	318
Arrested on warrants	82
Arrested without warrants	236
Held for trial	317
Males	294
Females	24
Adults	281
Minors	37
Residents	144
Non-residents	174

Arrested for the following offences:

Abandoning a child	1
Assault and battery	17
Assault (felonious)	2
Attempt to commit crime	2
Bastardy	4
Breaking and entering	8
Default	7
Disturbing the peace	9
Dipsomania	1
Drunkenness	176
Embezzlement	2
Exposure of the person	1
False pretences	7
Idle and disorderly	1
Injury to a building	1

Insanity	5
Keeping unlicensed dog	7
Larceny	13
Larceny, felonious	2
Manslaughter	1
Non-support	6
Railer and brawler	1
Riding bicycle on sidewalk	2
Safe keeping	1
Stubborn child	2
Trespass	1
Vagrancy	6
Violation of the liquor law	10
Violation of milk law	1
Violation of city ordinances	15
Violation of State park rules	6
Total	<hr/> 318

Disposed of as follows:

Bound over to Superior Court	13
Committed to House of Correction	16
Committed to House of Correction for non-pay- ment of fine	76
Committed to Danvers Insane Hospital	5
Committed to Westboro Insane Hospital	1
Committed to Massachusetts Reformatory	3
Committed to State Farm	3
Committed to the Women's Prison	2
Defaulted	13
Discharged by the court	12
Nol-prossed	11
Now pending in court	5
Paid fines	129
Placed on file	14

Turned over to other officers	14
Died in jail	1
Total	<u>318</u>

Nationality of persons arrested :

United States	151
Ireland	89
Canada	8
British Provinces	19
England	17
Scotland	3
Sweden	7
Russia	8
Norway	2
Arabia	2
Hungary	1
West Indies	1
Italy	10
Total	<u>318</u>

Five hundred lodgers were put up at the station during the past year, of the following nationalities :

United States	234
Ireland	188
England	38
Canada	11
British Provinces	10
Scotland	12
Germany	2
Hungary	1
Sweden	4
Total	<u>500</u>

MISCELLANEOUS WORK DONE.

Amount of property reported stolen	\$1,402.45
Amount of property recovered by police	1,109.45
Accidents reported	49
Buildings found open and secured	135
Cases investigated	625
Defective water pipes reported	133
Defective streets and sidewalks reported	550
Defective gas pipes, etc., reported	21
Disturbances suppressed	53
Dogs killed	24
Fire alarms reported	33
Fires extinguished without alarm	24
Lanterns hung in dangerous places	175
Lanterns re-lighted on sewers, etc.	261
Lost children returned home	22
Medical examiner cases	15
Notices posted and delivered	568
Number of runs of patrol wagon	297
Number of miles run	877
Sick and injured persons cared for	58
Stray teams cared for	23
Street obstructions removed	315
Street lights reported out	291
Search warrants served	13
Seizures made	10
Wires reported dangerous	85

FINANCIAL.

Amount of fines imposed in court	\$1,752 60
Amount of fines paid in court	1,097 60
Amount of fines and fees received and turned over to Collector	1,035 10
Amount of money taken from prisoners and re- turned to them	1,911 44

The expenditures of the department for the past year were as follows :

Appropriation	\$17,119 00
Salaries of officers	\$12,600 00
Salaries of special police	1,677 17
Miscellaneous bills	2,191 46
Furnishing new station	645 45
	<hr/>
	\$17,114 08

Leaving a balance of	\$4 92
--------------------------------	--------

For further financial statement see report of City Auditor.

The patrol wagon as an ambulance has done good service during the past year. In addition to conveying prisoners to the station and to court, it has been used to convey injured persons as follows :

To the Massachusetts General Hospital	11
To the Somerville Hospital	1
To injured person's home	9
To the police station emergency room	18
To undertaker's rooms	4
	<hr/>
Total	43

And right here I wish to say that the City Physician has been very prompt in answering calls from the police, both day and night, which, as you will find in his report, have been many.

I think the enforcement of the laws during the past year has been such as to satisfy the public, generally, that the officers have performed their duty in an impartial manner. The officers have worked hard to enforce the liquor law, and I think they have succeeded in closing up most of the illegal places. Twelve search warrants have been served; ten seizures have been made, and ten persons have been summoned into court for violation of the law.

CONCLUSION.

In conclusion, I wish to extend my sincere thanks to your Honor and the Committee on Police for assistance and official advice, as well as to all the city officials with whom I have had business the past year.

It gives me great pleasure to state that the members of this department work in harmony and show a desire to perform their duty faithfully at all times, and to assist me in the discharge of my duties, for which I wish to extend to them my hearty thanks.

Respectfully submitted,

EMERY D. HOLMES,
Chief of Police.

REPORT
OF THE
SUPERINTENDENT OF STREET LIGHTS.

MEDFORD, Mass., February 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford :

Sir,— I submit to you my annual report as Superintendent of Street Lights.

Amount of appropriation	\$12,902 00
Amount expended	12,400 53
	\$501 47

Number of Street Lights.

Arc	63
Incandescent	472
	535

I would recommend the appropriation of fourteen thousand dollars (\$14,000) for street lighting this year.

During the past year one hundred and seventeen (117) oil lamps have been replaced by electric lights, and there have been quite a number of lights placed on new streets. There are several new streets that have been built upon the past year that will have to be lighted this year.

Respectfully submitted,

EMERY D. HOLMES,
Superintendent of Street Lights.

REPORT
OF THE
CITY MESSENGER.

MEDFORD, Mass., February 1, 1896.

Hon. Baxter E. Perry, Mayor:

Dear Sir,—I have the honor to submit herewith the third annual report of this department, for the year ending February 1, 1896.

GENERAL WORK.

During the past year the general work performed by the City Messenger has been: the care and cleaning of the City Hall, supervising the care and cleaning of the City Hall Annex, attendance at the meetings of both branches of the City Council and their committees; also the meetings of the different departments and boards, and the performance of the duties of messenger for the heads of the different departments.

MEETINGS OF CITY COUNCIL.

The number of meetings of the City Council attended by the City Messenger is as follows:

Board of Aldermen	36
Common Council	29
Joint meetings of City Council	5
Committee meetings	189
Total	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 259

PROPERTY.

The following named property is in charge of this department: Four flags (two large and two small ones), town and city reports, sundry documents of the old Town of Medford,

copies of the Acts and Resolves of the Legislature of Massachusetts.

EXPENDITURES.

The expenses of this department for the year commencing February 1, 1895, and ending February 1, 1896, have been as follows:

CITY HALL.	
Fuel	\$258 21
Electric light	159 05
Gas	72 96
Ice (City Hall \$20, public fountain \$30),	50 00
Water tax	19 25
Incidentals	172 67
	<hr/>
Total for City Hall	\$732 14
CITY HALL ANNEX.	
Rent	\$1,000 00
Janitor service	371 00
Fuel	175 86
Gas	54 70
Water tax	13 84
Ice	20 00
	<hr/>
Total for Annex	1,635 40
	<hr/>
Grand total	\$2,367 54
Appropriated, \$2,550 00	
Expended, 2,367 54	
	<hr/>
Balance,	\$182 46

RECOMMENDATION.

As it is evident that it will be several years before the city will have a new City Hall, and as the outside of the present

one needs painting, I would most respectfully suggest that it be done the present year.

REMARKS.

I take this opportunity to tender my thanks to the Street Commissioner for the prompt removal of ice and snow from the sidewalks about the city buildings. I would also tender thanks to the Chief of Police for the assistance rendered in furnishing details of police on several occasions.

I desire to express my obligations to his Honor the Mayor and the heads of the different departments for many favors extended to me.

Respectfully submitted,

JAMES B. SIMPSON,
City Messenger.

REPORT OF THE CITY PHYSICIAN.

Hon. Baxter E. Perry, Mayor of Medford:

Sir,—The following is a report of my work as City Physician for the eleven months ending February 1, 1896 :

Whole number of patients	145
Whole number of calls	550
Patients at almshouse	15
Calls to the almshouse	75
Patients attended through police calls	35
Number of police calls	31
Civil service examinations	6
People examined for Street Department	2
People examined for Sewer Department	2

Diseases and injuries treated through the Police Department :

Compound fracture of the leg, simple fracture of the leg, fracture of femur, fracture of femur and dislocation of hip, injury to knee, injury to ankle, injury to wrist, injury to spine with paralysis, crushed foot, injury to chest from a crush, pistol shot wounds, scalp wounds, cut leg, epilepsy, delirium tremens, hysteria, chill from exposure, examination for suspected rape, insanity.

Cases treated at the almshouse :

Chronic gastritis, valvular disease of the heart, chronic nephritis, dyspepsia, bronchitis, rheumatism (acute and chronic), hemiplegia, aneurism, syphilis, sprained wrist, colds and cystitis.

Cases attended in the out-door department :

Anaemia, pernicious anaemia, bronchitis (acute and

chronic), rheumatism (acute and chronic), phthisis, dyspepsia, eczema, ring worm, stricture of urethra, neuralgia, colds, hysteria, scarletina, diphtheria, typhoid fever, malaria, tonsillitis, delirium tremens, varicose ulcers, eclampsia, fracture of clavicle, sprained knee, sprained ankle, examinations for insanity.

Ten vaccinations, one confinement.

Antitoxic serum was injected in 18 cases of diphtheria for its curative effect and in 8 people for its immunizing effect.

Eleven patients have died. Phthisis, 2; gastro intestinal catarrh, 2; diphtheria, 2.

One each from epilepsy, chronic gastritis, valvular disease of heart, chronic nephritis, pernicious anaemia.

Respectfully submitted,

JOHN B. MAHONEY, M.D.

Medford, February 1, 1896.

REPORT

OF THE

INSPECTOR OF BUILDINGS.

MEDFORD, February 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—In accordance with the provisions of the city charter I herewith submit this the second annual report of this department for the year ending January 31, 1896.

The whole number of building permits issued during that time is 338, covering the same number of buildings, and may be classified as follows:

	1	2	Wards.			6	Total.
			3	4	5		
Dwellings with one tenement,	53	8	5	11	29	12	118
" two tenements,	12	5		8	41	7	73
" three "					1		1
" six "						1	1
" store and ten't,	1					1	2
Additions and alterations,	16	11	8	9	11	9	64
Stables,	11	3	2	7	13	6	42
Repaired after fire,				1	5	1	7
Wagon sheds,	1		1	3	2	5	12
Store houses,		1	1	1	1	1	5
Stores,		1		1			2
Powder house (brick),				1			1
Blacksmith shops,				1		1	2
Bowling,					1		1
Studio,				1			1
Church building (brick),				1			1
Green house,	1						1

	1	2	Wards.		5	6	Total.
			3	4			
Office,					1		1
Building for cleaning carpets,		1					1
							<u>338</u>

Estimated cost of buildings, \$768,779.

Permits have been issued for but two city buildings during the year: The school building at Hillside and the brick building on Swan street for the Water Department, at an estimated cost of \$25,000.

These buildings and cellars have all been frequently visited and carefully looked after during the process of their construction. This has been found necessary in order that the provisions of the ordinance shall be properly complied with, and in nearly all cases where the Inspector has found violations of the ordinance, a disposition has been shown to set matters right. It will be noticed that there have been 42 stables built. In the larger part these have been small cheap buildings. These taken from the others will leave about 200 dwellings at an average cost of nearly \$3500. A more expensive class of houses have been erected, and they have been better built than those of the previous year. Section 2 of the ordinance requires that the Inspector shall make a record of all violations thereof. The following have been noted:

Buildings where floor timbers were under size	5
Buildings where other timbers were under size	8
Buildings where timbers were too far apart	11
Buildings where fire stops were left out	3
Cellars not properly built and walls partly taken down and relaid	13
Chimneys unsafe and taken down and rebuilt	6
Cellars below grade and filled up to grade	3

In conformity with section 19 of the plumbing ordinance, which requires the Inspector of Buildings to include in his

annual report a detailed report of his doings, under the same the following is herewith presented :

The total number of permits issued to do plumbing is 546, covering 543 buildings.

Permits issued for plumbing new buildings	211
Permits issued for plumbing old buildings	335
Number of buildings tested with water	448
Number of buildings tested with peppermint	36

Each of the above buildings was visited by the Inspector of Plumbing several times during the progress of the work, thereby keeping himself well informed regarding the sanitary condition of the work.

The Inspector reports the following cases as having received special attention :

Number of buildings where the soil pipe and fittings were found defective	61
Faulty connection of the waste and vent system	75
Faulty connection with the drain or sewer	16
Insufficient number of cleanouts	12
Insufficient number of local vents	17

In each case the plumber was notified and the plumbing was reconstructed, and when completed was in a proper sanitary condition.

Number of buildings inspected where application has been made for sewer connection	399
--	-----

Each of these buildings have been visited once, and, where necessity required, several times in order to consult with the owner in regard to alterations that was found necessary in the old system of plumbing.

The law requires that the Inspector of Buildings shall act as one of the Board of Examiners of plumbers making application for licenses. The following licenses have been granted :

Number of master plumbers' licenses granted . . .	3
Number of journeyman plumbers' licenses granted . . .	8
Application for journeyman plumbers' license rejected,	1
Applicants for master plumbers' licenses not appearing for examination	2

There has been received for plumbers' licenses the sum of \$10, which has been paid to the City Collector and a receipt is on file at this office for the same.

Respectfully submitted,

CALVIN H. CLARK,
Inspector of Buildings.

REPORT
OF THE
TRUSTEES OF OAK GROVE CEMETERY.

Hon. Baxter E. Perry, Mayor of the City of Medford :

Sir,—The Board of Trustees of Oak Grove Cemetery respectfully submits its annual report.

The number of interments made during the year ending December 31, 1895, in the several cemeteries of the city, under its charge, were as follows :

Oak Grove Cemetery	99
Cross Street Cemetery	7
Salem Street Cemetery	1
Total	107

The work of grading and laying out in lots of various sizes, in accordance with a plan made by the City Engineer, of the unimproved part of the cemetery, located on the Woburn street side, has been undertaken and good progress has been made thereon. This part, when completed, will be one of the most attractive sections of our beautiful cemetery. From the elevated ground an extensive view of the surrounding country can be had, and the spot would make an excellent location for an observatory, so constructed as to be appropriate to the surrounding conditions.

There are still a large number of lots in the part known as Oak Grove Lawn which remain unsold, but a constant demand is gradually reducing their number, and the board thoroughly believe in being prepared to meet the requirements of a growing population.

In the older part of the cemetery the usual careful care has been taken by an able corps of employees, and the general ex-

Received from interest, Perpetual Care fund	\$900 00	
	<u> </u>	\$5,436 00
Expended for labor, material, extension of water service, etc.		5,420 62
		<u> </u>
Balance		\$15 38

SALEM STREET CEMETERY.

Received from appropriation	\$150 00
Expended	41 53
	<u> </u>
Balance	\$108 47

CROSS STREET CEMETERY.

Received from appropriation	\$125 00
Expended	61 17
	<u> </u>
Balance	\$63 83

In addition to what has been placed to the credit of Oak Grove cemetery account, there has been paid into the city treasury \$382, this being the amount due, required to be paid to the city for lots sold, at the price per foot defined by the ordinance.

The owners of several of the lots purchased previous to the action being taken requiring the purchaser to make a deposit for the perpetual care of the lot when bought, have made the deposit required, thereby removing the annual charge for care, and the board would heartily recommend this action to all proprietors of lots who have not availed themselves of this provision. \$1,350 has been added to the Perpetual Care fund, which now amounts to \$16,822.50.

The interest accumulated on this amount is on deposit in the Medford Savings Bank and Boston Five Cent Savings Bank.

For "Care of Cemeteries" for the current year, an appropriation of \$1,500 is respectfully recommended.

CHARLES W. JACOBS,
JOHN HUTCHINS,
EDWARD S. RANDALL,
ASA LAW,
ROBERT H. GRACE,

Trustees of Oak Grove Cemetery.

REPORT
OF THE
BOARD OF HEALTH.

OFFICE OF BOARD OF HEALTH,
MEDFORD, Mass., January 31, 1896.

To His Honor the Mayor :

The Board of Health respectfully submits to you the following report for the year 1895 :

Twenty-eight meetings have been held by the board during the past year.

Three public hearings have been held to determine whether permits should be recommended to individuals wishing to maintain stables for more than four horses.

Ninety-eight permits for attending school, keeping cows and pigs, removing night-soil, etc., have been granted.

Eighty-one peddlers have been recorded, and their vehicles inspected in accord with the requirements of the City Ordinances, Chapter 26.

Forty-three nuisances have been reported and satisfactorily abated.

The number and causes of deaths reported to this board during the year are as follows :

DISEASE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Accident					1	1	1			1			4
Abscess					1	1							1
Apoplexy, hem.	1		3	1	1			1		1	1		9
Apoplexy, congestive	1		1							3			5
Bronchitis	1	4		1		1						1	8
Brain, softening of												1	1
Croup													2
Cancer			1			3	4	2	3		2	1	16
Convulsions, infant	2			1	1					1		1	6
Cholera infantum								5	1	1	1		8
Cirrhosis		3						1					4
Drowning				1									1
Diphtheria				1	1			1				4	7
Diabetes melitis					1								2
Diarrheal diseases		2		1					1	1			4
Fracture of hip	1	1											2
Fracture of skull	1	1											1
Gastritis					1				6	4	1		12
Found dead	1								1				2
Hydrocephalus												1	1
Heart disease		3		4				2	1	2	1	1	14
Hernia		1											1
Entuitis, acute										1			1
Intestinal obstruction										1			1
Marasmus	1							1					2
Meningitis	1			1	1			1	1				4
Malaria									1				1
Nephritis, chronic		1	1	1	2	1	2	1				1	10
Nephritis, acute					1								1
Old age			2			1		1	3	1	1		9
Phthisis pulmonalis	2	2	5		2	1	1	1	1	1	1		16
Pneumonitis	3	4	2	1	1	1		1	1	1	2		17
Premature birth		1	1				1	2			1		6
Peritonitis					1	4	1			1	1		8
Paralysis		1	1			2					1	1	6
Rheumatism, chronic									1				1
Scarlet fever			1										1
Still born	2						3	1	1			2	9
Suicide			1	2				1	1			1	5
Septicæmia					1			1					1
Tumor			1		1			1					2
Typhoid fever							1	1			1		3
Totals	16	24	20	15	16	15	14	23	23	20	14	15	215

As compared with last year there has been an increase in the number of cases of each of the zymotic diseases. The increase in the number of cases of diphtheria is especially noticeable, many of the cases having been located in the district near the Tufts schoolhouse, which was closed by order of the School Committee during the height of the disease.

The zymotic diseases reported were as follows :

	Cases.	Deaths.
Diphtheria	74	7
Scarlet fever	81	1
Measles	14	0
Typhoid fever	29	3
Total	198	11

In our report of 1894, attention was called to the fact that the existence of diphtheria can be positively recognized at an early stage, by the modern methods of microscopical examinations. Following our recommendation, the sum of \$100 for the special purpose of providing such examinations was generously granted, and during the past year thirty-one cultures from suspected cases of throat disease have been examined either at the Harvard or Tufts medical school laboratories, with the following results :

Number of examinations, 31.

The bacillus of diphtheria found in 23 examinations.

The bacillus of diphtheria not found in 8 examinations.

It is thus to be seen that of 74 cases reported as diphtheria, in fully 50 cases no microscopical examination was made.

In the opinion of this board, each report of a case of diphtheria, with its consequent discomforts of isolation, disinfection, etc., should be founded upon, and verified by, a proper microscopical examination.

While anticipating fewer *cases* of diphtheria during the coming year, the board wishes to be prepared for *more* examinations than were made during the past year, and for this special purpose we recommend an appropriation of \$200.

Recognizing the value of the injection of antitoxine in the treatment of diphtheria, arrangements have been made whereby supplies of this remedy may be obtained free of expense from the State Board of Health.

The construction of our system of sewers is advancing steadily, and this board is firmly convinced that, as rapidly as possible, individual house owners should comply with the ordinance of the Board of Health passed November 4, 1895, and avail themselves of the opportunity of connecting their premises with the public sewers.

Very important work as regards the health of the city has been accomplished by the Commissioners of Parks, in taking care of the surface drainage. A large amount of surface water collects in the eastern part of the city, and its removal is being hastened by improvements made. The surface drainage of the Winter Hill region, with its sewerage pollution, has been partially provided for. The region bounded by Main, Royal and Manning streets and the river, very seriously requires immediate attention, as do also portions of lands near the river in West Medford. We earnestly recommend that the Commissioners be empowered to continue this good work, so necessary for the health of the city.

During the past week an order has been received by this board from the State Board of Cattle Commissioners, calling for action on the part of this city towards the suppression of rabies, which has appeared in this neighborhood. This city, with others named in the order, is made subject to certain regulations, and the Boards of Health are ordered and directed to see that these regulations are strictly complied with. This board has sent copies of these regulations to the 700 owners of dogs in this city, and has posted copies of the order in different parts of the city. The *enforcement* of this order may call for an extra appropriation for the use of this board, but at the present time we are not prepared to give an intelligent estimate of the amount needed for this purpose.

FINANCIAL STATEMENT FOR THE YEAR 1895.

Appropriated,	\$561 85	General expenses,	\$649 54
Re-appropriated,	338 15	Diphtheria examinations,	100 00
	<u> </u>	Salary of Inspector,	<u>150 00</u>
	\$900 00		
	899 54		\$899 54
	<u> </u>		
	\$0 46		

There is also an unpaid bill of \$15, for work contracted for at West Medford and not yet finished, which will have to be paid from the appropriation for the coming year.

We recommend the appropriation of \$1,050, to be expended as follows :

For general expenses	\$700 00
For salary of Inspector	150 00
For diphtheria, as above specified	<u>200 00</u>
Total	\$1,050 00

Respectfully submitted,

WALTER S. HALL, M.D.,
 JAMES E. CLEAVES, M.D.,
 J. WALTER BEAN, M.D.,
 WILLIAM P. CLARK.,

Board of Health.

MEDFORD HISTORICAL SOCIETY.

REPORT OF THE CITY COLLECTOR.

CITY HALL, MEDFORD.

Hon. Baxter E. Perry, Mayor of the City of Medford :

Sir,—I respectfully submit the following report of collections made during the year ending January 31, 1896 :

TAXES 1894.

Uncollected February 1, 1895	. \$35,778 28	
Abatements		\$1,801 88
Collected and paid Treasurer		32,974 20
Uncollected February 1, 1896		1,002 20

TAXES 1895.

Warrant	228,980 90	
Added	637 10	
Reassessed	1,984 45	
Abated		3,541 20
Collected and paid Treasurer		193,283 35
Uncollected February 1, 1896		34,777 90

INTEREST.

On taxes 1894	1,051 19	
On taxes 1895	342 99	
On sewer assessments	2 43	
Paid Treasurer		1,396 61

COSTS AND FEES.

On taxes 1894.	577 61	
On taxes 1895	186 60	
Paid Treasurer		764 21

STREET WATERING ASSESSMENTS.

Uncollected February 1, 1895, account of 1894	\$330 30	
Amount committed for 1895	2,316 58	
Collected and paid Treasurer		\$1,838 27
Abated		22 22
Uncollected February 1, 1896		786 39

SEWER HOUSE CONNECTIONS.

Amount committed to January 25, 1896	7,002 96	
Collected and paid Treasurer		6,572 42
On hand, awaiting settlement with owners		430 54

SEWER ASSESSMENTS.

Committed, schedules 1 to 38 incl., 1896	93,565 94	
Collected and paid Treasurer		20,296 80
Abatements and corrections		521 45
Uncollected February 1, 1896		72,747 69

MISCELLANEOUS.

Water Department	55,740 42
Sidewalks	2,555 69
Highways	5,647 96
Middlesex avenue bridge	513 64
Street numbering	48 72
Public library	1,515 27
State and military aid	2,044 50
Soldiers' relief	8 00
Sewer construction	1,269 76
Oak Grove Cemetery	1,832 00
Almshouse	394 73
Outside relief	1,455 83
Collection of ashes	54 35
Collection of house offal	325 00

Fire Department	\$43 00	
Abated taxes	26 65	
Miscellaneous credits	27,842 54	
Brooks and streams	4,701 48	
Police	75	
Newbern avenue	200 00	
City Hall equipments	14 00	
Public Common	35 00	
Insurance	5 29	
Care of trees	75	
Mystic avenue	23 00	
Paid Treasurer		\$106,298 33
		<hr/>
	\$479,055 66	\$479,055 66

There remains in my hands for collection :

Taxes of 1894	\$1,002 20
Taxes of 1895	34,777 90
Street watering assessments	786 39
Sewer assessments	72,747 69
Sidewalk assessments	2,752 21
Highway Department	758 55
Sewer construction	50 44
Outside relief	532 15
Almshouse	427 88
Fire Department	8 44
Miscellaneous credits	85 25
	<hr/>
	\$113,929 10

Respectfully submitted,

EDWARD W. HAYES,
City Collector.

REPORT
OF THE
OVERSEERS OF THE POOR.

MEDFORD, February 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford :

Agreeably to the requirements of the city charter, the Overseers of the Poor respectfully submit the following as their third annual report for the year ending January 31, 1896 :

A careful perusal of the following report will show the expense of this department to have varied but little from that of the previous year. Quite a large number of the class known as common laborers are out of work during the winter season. In many cases, because they cannot find employment, in others, a disposition is shown that if they can be provided for at the expense of the city, they will put forth but little effort of their own. The conditions vary but little from year to year. In some cases, the children grow up and help, so that the family becomes self-supporting.

It will be noticed that the number of those who have applied for aid during the past year has not been as large nor the expense as great as for the previous year ; yet by looking over the later reports, it will be seen that the number of such is gradually but steadily increasing. In a large number of cases the need for aid is caused by intemperance, and it is often a perplexing question to know how to deal with such cases. Within the past two weeks a family has applied for aid, while the father, an able-bodied man, well able to provide for his family, and a son barely twenty-one years of age are both locked up for drunkenness.

It does not seem right or just that the tax-payers should

be called upon to support such men in idleness. But these are some of the cases that the board is called upon to meet and to provide for.

Something more than a year since, after due consideration, the board adopted the plan largely in use in other cities and towns of printing on the back of the order a list of supplies that would be allowed on the presentation of the same.

This action became necessary by the tendency on the part of those being aided to indulge in many luxuries instead of being satisfied with substantial food. The list comprises the following: "Mutton, beef, pork, salt fish, sugar, tea, flour, corn meal, oat meal, soap, bread, molasses, crackers, milk, beans, potatoes, and oil." In cases of sickness, the order is modified to meet the requirements of the case. Unforeseen and peculiar conditions pertaining to an individual case, render it impossible to adopt any particular method to be pursued in every instance. We have endeavored to investigate in the most careful manner each and every case as it has come to us, and to deal with it as the circumstances require.

Matters at the almshouse remain in much the same condition as heretofore. The house is kept clean, well heated, and the inmates well and properly cared for; we have nothing but commendation for the management of its affairs under the charge of our present Superintendent and matron.

The matter of an enlargement that was urged in the last report is still among the things that appear to this board to be imperative, and it does not seem to us that it can be much longer delayed. We are aware that, if the addition that is proposed is made, the expense of this department will be largely increased. As was reported last year, if the house is enlarged according to the plan, it will provide in a comfortable manner for about seventy-five persons, and be ample to meet the needs of our city for the next twenty-five to forty years.

The present building was erected forty-four years ago, and with the exception of a small one-story wooden building,

built twenty-five years ago, at a cost of, perhaps, three hundred dollars, which has served as a kitchen and cook room since, there has never been any other enlargement to the building.

The house contains, beside the portion occupied by the Superintendent and his family, twelve sleeping rooms, five of which are so small that only one bed can be put in a room. Three of the rooms contain three beds each; the other four, two each. The Superintendent and his family occupy five rooms. These could be given up to the use of the inmates, and a smaller addition built for the Superintendent and his family. This plan, however, would provide for but ten additional inmates at the most, which, with some alterations in the present building, to separate the sexes, as now required by law, could be done at a much less cost; but, in our opinion, the room thus provided would all be wanted for the natural increase of inmates, in from five to ten years at the longest.

The two ways of increasing the room needed have been carefully and thoughtfully considered. The woodwork of the present building has been partly destroyed by fire at two different times, yet it is in a fairly good condition, and while either of the enlargements or additions proposed would not make the apartments as economical or convenient for its purpose as a new building erected on a comprehensive plan, with regard to the future needs of this department, yet it seems to us that if any enlargement is to be made, it should be sufficient to provide for the probable needs of the city for a reasonable time.

The present number of inmates is twenty-one. They are nearly all old people, the average age being about seventy years. Some of them are nearly helpless from paralysis and other causes, and require great care, incurring great expense. In our opinion, they will all remain inmates while they live. Of those who have died during the year, two had been sick for many months, and their condition such that it was very

expensive to properly care for them. Among so many old and feeble people, it is to be expected there will be sickness. This must be provided for. At the present time there are cases of such a nature that they must be kept by themselves, however large the room, even if it was safe for another to occupy it.

For these reasons and others that might be presented, the board would respectfully recommend that the almshouse be enlarged on the plan proposed, and that the sum of eighteen thousand dollars (\$18,000) be appropriated for this purpose.

ALMSHOUSE.

Number of Inmates February 1, 1896.

Name.	Age.	When admitted.
Peter Wait	82	Feb. 8, 1884
Ephraim Page	68	Sept. 28, 1895
Gilbert Sherman	58	Mar. 22, 1895
Daniel Richardson	85	Jan. 12, 1893
Anthony Plant	82	Oct. 3, 1893
Turell Tufts	66	Oct. 2, 1895
Thomas Miskell	75	Dec. 13, 1893
Arthur Reagan	72	Dec. 13, 1893
James Ray	60	Aug. 23, 1895
George Connell	62	Aug. 9, 1893
Thomas Qualey	55	Sept. 14, 1895
John Richmond	48	Dec. 23, 1892
Mary Ann Richmond	38	Dec. 23, 1892
Alice Dowling	68	Sept. 13, 1893
Robert Dowling	42	Sept. 13, 1893
Mary Ann McKernon	90	Aug. 5, 1893
Mary Stone	67	May 10, 1894
Mary Ann Bruzzel	69	June 19, 1893
Helen Goldsmith	64	Oct. 6, 1894
Kate Holland	77	Feb. 14, 1895
Jane Murphy	81	Aug. 17, 1895

Admitted During the Year.

Gilbert Sherman.		Mar. 22, 1895
Ephraim Page	68	Sept. 28, 1895
Thomas Qualey	55	Sept. 14, 1895
James Ray	60	Aug. 23, 1895
Patrick Collins	68	Sept. 11, 1895
Turell Tufts	66	Oct. 2, 1895
Jane Murphy	81	Aug. 17, 1895
Richard Ayers	76	May 20, 1895
John Teroux	50	Feb. 5, 1895
William Connors	35	Oct. 5, 1895
Kate Holland	77	Feb. 14, 1895
John H. Senter	79	Dec. 11, 1895
Thomas Qualey	55	Dec. 4, 1895

Discharged During the Year.

Name.	Age.	Discharged.
Richard Ayers	76	June 21, 1895
John Teroux	50	Feb. 7, 1895
John H. Senter	79	Dec. 13, 1895
Thomas Qualey	55	Oct. 5, 1895
John Vaughn	65	May 23, 1895
James Ray	60	April 3, 1895
William Connors	35	Nov. 15, 1885

Died During the Year.

Name.	Age.	Date of Death.
Rebecca French	50	Aug. 7, 1895
Samuel Aborn	38	June 10, 1895
James Cramphorn	70	Nov. 24, 1895
Patrick Collins	68	Jan. 14, 1896

Insane in Hospitals.

William E. Hatch	Westborough
Thomas Manning	Danvers
Lydia W. Hitchings	Danvers
Emma J. Withington	Danvers
Mary McGillicuddy	Danvers

Ann McKernan	Danvers
Clara W. Clark	Danvers
Mary Hawkins	Worcester
Mary E. Bates	Worcester
Margaret Durgin	Taunton
Frank Divol	Taunton
Wilbur S. Holmes	State Almshouse
Maria J. Whittemore	Westborough
Margaret Hawkins	Danvers
George E. Smith	State Almshouse
William H. Connor	State Almshouse
Mary E. Lennon	Worcester
Charles F. Lennis	Danvers
Mary Coughlin	Danvers
Augusta Spillane	State Almshouse

The total expenditure for the almshouse for the year ending Feb. 1,

1896, has been	\$4,740 53	
Balance unexpended	154 20	
Appropriation was		\$4,500 00
Sale of produce, etc.		264 37
Commonwealth of Massachusetts, board of John Richmond		130 36
	<hr/>	<hr/>
	\$4,894 73	\$4,894 73

The cost per week for each person has been \$3.18.

OUTSIDE RELIEF.

The expenditure for the poor outside of the almshouse, including the insane in the several asylums, has been as follows :

Persons given partial support in and having a settlement in Medford	\$1,938 58
Insane in hospitals	2,169 34

Outdoor poor in other towns and cities :	
Medford settlement	\$247 22
Outdoor poor chargeable to other places	862 16
State cases	1,022 08
Incidentals	177 01
	<hr/>
Total expenditure	\$6,416 39
Balance unexpended	3,337 51
Appropriation	\$7,000 00
Reappropriation of last year's balance,	1,320 27
Received from Commonwealth	721 24
Received from other cities and towns,	516 74
Received from W. P. Clark, guardian,	90 00
Of orders issued to tradesmen for supplies, bills to following amount were not presented in season to be included in this year's account	105 65
	<hr/>
	\$9,753 90
	<hr/>
	\$9,753 90

The total number of persons, including insane, assisted :

In 1893 was 345, at an expense of \$7,881.87.

In 1894 was 383, at an expense of \$8,366.18.

In 1895 was 308, at an expense of \$6,416.39.

Respectfully submitted,

CALVIN H. CLARK,
W. A. THOMPSON,
WILLIAM C. CRAIG,
Overseers of the Poor.

REPORT
OF THE
COMMISSIONERS OF SEWERS.

FEBRUARY 11, 1896.

To His Honor the Mayor and the City Council:

We beg to submit the third annual report of the work completed and projected for the construction of a local system of sewers and the care of the numerous brooks and streams of the city.

This board was organized on October 27, 1893. In the space of twenty-seven months we organized our engineering force, approved of the design for the general system, have constructed 26.814 miles of sewers, made 349 house connections, and, in accordance with the order of the Board of Aldermen, have already assessed eight-tenths of the property owners where sewers have been constructed.

Carrying out the advice of ex-Mayor Lawrence, all plans and engineering data were so prepared that the city would have a complete set of maps, available for the Assessors, Street and Water Commissioners and City Engineer's office, when created. The extra cost of such preparation was very slight compared with the benefit the city would receive, and has already demonstrated the wisdom and the necessity of such plans in carrying out all engineering and assessing work.

We have constructed this year 17.746 miles of sewer lines principally in those streets as sketched in our last report. The Metropolitan trunk line on the easterly side of Mystic River was ready for operation in June, and the Mystic avenue trunk was completed, and we were allowed to enter about the middle of January.

With the exception of a few streets which, owing to the season, we were obliged to cut out of our contracts and which will be built as soon as the frost leaves the ground, we can say that South Medford sewers are practically completed.

The want of a sewer system in this district was more apparent this year than ever before; much sickness has prevailed and there will be a constant and a most serious danger until every house is connected with the system. Built up with houses for people of moderate means, the cost of connection, and, in many cases, the absolutely necessary changes in the house plumbing, will be a burden on many. Unfortunately, we can suggest no financial relief; the situation is there and must be met by the owners. Very few cesspools are operative, sewage flows into the cellars and in some cases over the sidewalks, while a large portion has been allowed to flow into the Granville avenue brook, which every ebb tide carries back, leaving behind not only foul odors, but a grave menace to the health of the community.

INTERCHANGE OF SYSTEM WITH THE CITY OF SOMERVILLE.

Owing to grades, an interchange of the systems could be used to advantage and at a great saving in cost of construction for both cities. A bill was prepared by the City Solicitors, which met with our approval and received legislative sanction, authorizing such interchanges. Satisfactory arrangements were made with the city of Somerville, whereby they would pay for the increased cost of larger sewer pipes and also interest on anticipated constructions, and vice versa.

SEWER ASSESSMENTS.

The City Council having decided what portion of the expense of constructing the system should be paid by the abutters, we have levied the assessments accordingly, and we hope before March 1 to complete the assessing on all the streets sewered.

This work is necessarily slow and very laborious. A plan

of each estate has to be made and the actual ownership verified before the assessment notice is sent out.

COST OF CONSTRUCTION.

Notwithstanding a very important advance in the price of sewer material, we are happy to state that our expense per mile is still within the figure we quoted as the probable cost of the system, leaving us a small margin to care for any unforeseen expensive line.

DAMAGES FOR LAND TAKEN FOR SEWER PURPOSES.

We still have a few unsettled claims, the awards offered, invariably fifty per cent over the assessed valuation, where lots for buildings purposes have not been damaged, is, in our judgment, a liberal compensation.

HOUSE CONNECTIONS.

Since June we have made, as stated, 349 house connections, aggregating 3.069 miles, at an average cost to the abutter of forty-three cents per foot; this includes considerable extra work, such as making entrance through cellar walls, furnishing in some cases iron pipe, filling and cleaning cesspools and relaying sidewalks. We have carefully compared our charges with those made by other cities and the comparison is favorable to our city. We have employed city laborers at regular city prices, and have received no complaints from property owners in regard to the work done. This department has paid for itself, and earned about eight per cent for depreciation of the necessary equipment to make connections.

Our house connection staff is working harmoniously with the Inspector of Plumbing and the Board of Health, and will certainly lead to the establishment of a good sanitary system.

SEWERS vs. HIGHWAYS.

It is impossible to dig up an unmacadamized street, lay a

sewer line and put it back into the original condition, but a well built street can be left in good order by the sewer contractors. The house connections, however, do what you may, will always injure the road-bed. With this in view we have tried to get the abutters on all streets to make their house connections practically at the same time. This would enable the Highway Department to follow and put the road in good repair. Unfortunately, the abutters cannot always see their way clear to do this, and it results in a continuous tearing up of the streets and needless waste of money by the Highway Department. We called your Honor's attention to this some months ago, and suggested as a remedy that each much traveled street be taken in turn and the connections made (at the cost of the abutter), from the trunk to the curb line, whether the abutter connected his house or not. Until this is done we cannot expect to see good roads or a fair return for the money spent on the highways. We would add that this system is carried out in other cities.

COMPLETION OF THE SEWER SYSTEM

Depends on our financial resources. The city had fifty miles of sewers to build at a cost of \$500,000, and was authorized by the Legislature to borrow \$350,000. The city will also recover \$250,000 from the assessed properties making a total of \$600,000 to pay for the entire system. The amount is therefore ample, and will leave the city with \$100,000, available to pay part of the cost of a system of surface drainage, and the care of brooks and streams.

But, as the city very wisely gives the abutter the privilege of paying his assessment in five annual payments, the money returns slowly into the treasury, and will retard the completion of the system. With the unexpended balances, the appropriation of the remainder of the bond issue, and the assessments now payable to the Treasurer, we can safely plan to build twelve and perhaps fourteen miles during the present year. It will embrace a main trunk line on Mystic

avenue, which will care for all the district on the south side of the river to Hancock street and Stearns avenue, including the North Hillside and the Ayerville districts, so called. We have also been petitioned to build the extreme West-Medford or Jerome street district, and knowing their needs, favor its construction. To provide the means for further construction where sanitary reasons imperatively demand it, we think it would be best for the city to borrow temporarily such sums which will be annually due on the apportioned sewer assessments, rather than go to the Legislature for more money and increase our funded debt.

MAINTENANCE.

We estimate the cost of caring for sewers already built will be \$1,500, and we recommend that the city make a special appropriation for the same, to be provided for in this year's taxations.

BROOKS AND STREAMS.

Gravelly Creek: We have completed this water-way between Webster and Water streets at a cost, including the payment for land and the rebuilding of the Water street culvert, of \$4,029.97, said sum also including the cost of land north of Webster street to the east branch, and have reason to believe that this needed improvement has met with general approbation. Our desire was to carry out the same features between Water and Salem streets, but the impossibility of making satisfactory settlement with some owners necessitated the postponement of this improvement, and nothing has been done except to keep the channel free from obstruction. We estimate that the cost would be about \$7,000. The larger part of this sum is for land damages. As the brook is now in good sanitary condition, we fail to see why the city should go to this large expense at present, unless the property owners are willing to co-operate.

The north arm of Gravelly creek and tributaries between Webster and Valley streets could, if the property owners

were willing to give their land, be laid out into a very slightly parkway at a reasonable expense. Your Commissioners have laid the scheme before the owners, and trust that they will in the near future favorably consider it.

Easterly arm: This has been cleared of obstruction and now flows freely, but we feel that soon the city will be called upon to cover it in from Park street to a point near Webster street. We also endeavored to obtain permission to trespass on land adjoining a strip now owned by the city and taken for sewer purposes, between Paris and Park streets, for the purpose of laying a covered drain, but could not get the necessary consent.

Could this be done, this district, for the past and at the present time every Spring under water, would be relieved entirely.

CENTRAL AVENUE DRAIN.

During the construction of the sewer line on Spring street, and since its completion, an enormous body of ground water has endangered our main sewer. We were compelled to ask permission of the Metropolitan Sewer Commissioners to allow this ground water to enter the Metropolitan temporarily. Measurements showed that in dry periods 500,000 gallons flowed down the trench in twenty-four hours, and during wet weather three times that quantity. The clay is so near the surface of the ground that the water could not get away. Investigation showed that the water shed embraced the hills near Valley street from the head of Paris street to Spring street. The natural water course, Maple street brook, follows a very irregular line between Valley and Salem streets, passing near the present street car house and into Malden, and finally into the Malden River near the gas house. Levels showed the impracticability of depending on this brook with the ultimate development of property (especially in Malden). To care for our surface water and relieve us from ground water, we conceived that a large surface drain should be built between the Maple street brook, near Salem

street and Creek Head, passing through Spring street and Central avenue extension. With the approval of the Mayor, we proceeded to make plans for a drain that would not only act as immediate relief to our sewer from ground water, but be available for a system of surface drains for that territory when the city saw fit to build them, and also for a sewer overflow in case of stoppage of the Metropolitan system. We invited bids for the labor of such construction. The figures submitted were higher than the estimate given us by the City Engineer, and we decided to take charge of the work ourselves, employing a competent foreman and using the same class of help that contractors do on such work, and we had the satisfaction of saving for the city \$1,200 over the lowest bid received. We deemed it fair to charge to brooks and streams one fifth of the cost, and four fifths to sewer constructions.

The total cost was \$22,658.24.

At Creek Head the brook forms a dividing line between Medford and Malden, but the course appears to have been changed by the property owners, and the city line is difficult to define. We have requested the City of Malden to take joint action with us and establish a new line, to be submitted to the General Court for approval.

This done, with an additional tide-gate at the Boston & Maine Railroad, the outlet of this brook will be well cared for.

We are, at present, endeavoring to get the abutting owners of the land between Valley and Salem streets east of Almont street, to agree on the straightening and relocation of that part of Maple street brook. If this is done, the low, swampy and practically valueless land will be available for building purposes, saying nothing of the improvement of the general health of that neighborhood.

We estimate the cost of sloped banks, exclusive of all land damages, to be about \$4,400.

GRANVILLE AVENUE BROOK, SOUTH MEDFORD.

This has for years been an open sewer, caring for the surface water from Somerville, beyond the Lowell Railroad, and the sewage from a large portion of South Medford. Taking advantage of land development on Mystic avenue, we have succeeded in getting the owners on each side of the brook to straighten their line from Mystic avenue to land now owned by Ellis and others near Main street, and obtained a contribution of \$1,000 from one of the owners towards the cost of building suitable tide-gates and a new culvert at Mystic avenue. With the sewage eliminated from this brook and the exclusion of tide-water, the only contamination will be from street washings. From Tufts' square to the new channel, the open brook passes through land of Ellis and others, now being developed for building purposes. We feel justified in recommending that the city build a covered drain through that property, providing the owners will pay a fair proportion of the cost.

PLAYSTEAD BROOK, WEST MEDFORD.

A petition was referred to us by the Board of Aldermen, requesting that the brook be deepened so as to allow the development of property near the new playstead owned by the city. We gave a hearing to the petitioners and obtained from the City Engineer an estimate of the cost of such deepening, and necessary change in the water course. Other property owners abutting on the brook were also consulted, and the scheme of changing the course of the brook in the playstead was submitted to our Park Commissioners, which met with their approbation.

The cost of such improvement will be about \$7,600. The Brooks Real Estate Trust Co. are willing to contribute the sum of \$2,500 toward it, and the owners of land are willing to waive land damages and provide extra width for an approach to the playstead.

As it will be an improvement to the playstead, we feel that

\$2,500 should be paid by the Park Department and the balance be charged to brooks and streams, and have so reported to the Board of Aldermen. The occasion of regulating the brook should be that of reconstructing the pipe culvert at Irving street, the estimated expense for which is \$500. This is a proper charge for the Highway Department.

We recommend that the following amounts be appropriated :

For maintenance, to be provided for in regular tax levy, \$1,500.

For sewer construction :

Unexpended balance	\$42,089 62
Balance of authorized loan	31,000 00
All moneys now due on account, sewer assessments (estimated)	55,000 00
	\$128,089 62
Brooks and Streams	\$10,000 00

To be taken from the above total and used as follows :

Playstead brook	\$2,600 00
Covered drain, Paris to Park streets	400 00
Completion of Granville avenue brook	500 00
Maintenance of brooks and streams	500 00
To be used only when found absolutely necessary	6,000 00

The powers given the commissioners under the Legislative Act to care for brooks and streams, does not allow them to do work on the highways, excepting as an incidental matter. But in laying out channels we have been mindful of a future system of surface drainage for the highways and have planned accordingly. We would respectfully suggest that the City Engineer prepare plans to embrace a surface drainage system of the city, the importance of which is so apparent. Every graded house lot throws just so much more water into the

street, and this should be taken care of quickly so as to save the highways. The trouble in the past has been insufficient size of pipe, the lack of catch-basins, and no defined or controlled outlets. A well planned system will prove a great benefit to the city, but will be costly, hence we must go slow, plan well and execute only as fast as our means allow us to.

It is only by having a plan with careful estimates of cost that the resources can be properly applied with equal justice to all sections of the city.

EQUIPMENT.

Our offices used jointly with City Engineer are practically fire-proof, and all plans are systematically filed away. The lease of the sewer yard should be extended for a further period of two years. During the interim the city may see the wisdom of consolidating all her working departments, thereby making a great saving.

The city is at present running three stables and three yards. We have seen enough city work to justify our belief that the Highways, Water, Sewer and Park Departments could be consolidated to much advantage.

We have called very often on the City Solicitor for legal advice, and we acknowledge the assistance he has been to us. In the matter of where sewers are most needed, and the care of brooks and streams, we have depended on the advice of the Board of Health. It gives us pleasure to renew our appreciation of the services Mr. T. Howard Barnes, the City Engineer, is rendering the city, and the great help he has been to this board in discharging the duties assigned to us, and we will refer to his report for additional details. We are pleased to acknowledge the many courtesies received at the hands of your Honor and the members of the City Council.

JOHN D. STREET,

C. H. PARKER,

J. W. ROCKWELL,

Commissioners of Sewers.

MEDFORD, Mass., January 31, 1896.

To the Commissioners of Sewers, Medford:

Gentlemen,— Herewith I submit a statement of house connections for the year ending January 25, 1896.

There have been 400 applications for connections with the sewers, of which 349 are completed, 6 cancelled, 7 not estimated, and 38 on which no deposits have been made.

The length of completed connections is 16,204 feet, or 3.069 miles.

The cost to property owners is \$4,090.41 for labor, and \$2,912.55 for material; a total of \$7,002.96, or \$0.432 per foot. The most expensive connection cost \$1.599 per foot, the cheapest \$0.228.

Connections.

29,	1849 feet in length, cost between \$0.20 and \$0.30			
136,	6555	"	"	.30 " .40
98,	4204	"	"	.40 " .50
56,	2167	"	"	.50 " .60
13,	434	"	"	.60 " .70
8,	280	"	"	.70 " .80
4,	150	"	"	.80 " .90
2,	411	"	"	.90 " 1.00
3,	154	"	cost over	1.00

There has been excavated 12,505.7 yards of earth, and 35.25 yards of rock, at a cost of \$0.326 per yard for labor; have built 13 manholes, cleaned and filled 42 cesspools; cut through and rebuilt 273 stone underpinnings; laid 43 feet of underdrain; taken up and relaid 84.5 yards of brick walk and 12 yards of concrete.

The following material has been used: 14,278 feet of five-inch sewer pipe; 297½ feet of six-inch; 4 feet of eight-inch; 135 feet of four-inch double thick iron; 350 five-inch

bends; 12 six-inch bends; 69 five-inch branches; 19 six-inch branches; 137 barrels of Portland cement; 2200 yards of cheese-cloth; 6177 brick; 8 manhole rods; 1 eight-inch flushing gate; 4 manhole covers; 15 pounds of chloride of lime; 21 pounds of dynamite and 37 exploders.

Respectfully submitted,

W. G. STEARNS,
Assistant in Charge.

EXPENDITURES IN CHARGE OF COMMISSIONERS OF SEWERS.

"Surveying :"

Pay-rolls	\$251 03
Reappropriation	251 03

"Sewer Pipe :"

Bills	15,000 00
Appropriation	15,000 00

"Sewer Construction :"

Payrolls (engineering), and bills for services	15,277 58
Unloading and handling pipe	899 55
Unloading and handling cement	81 77
Unloading and handling manhole castings	10 30
Handling and delivering miscellaneous stock	575 00
Fire-proof shutters for office	180 33
Stable and furnishings at sewer yard	411 94
Office rent, lights, janitor, and incidentals	1,569 02
Stationery and postage	96 31
Advertising	146 91
Printing, miscellaneous	180 15
Printing, sewer assessment	123 22
Draughting material and note-books	140 41
Furniture, instruments and office equipment	300 46
Inspection and staking out equipment	40 76

Cavass of Bids for Building Portions of Sections 1 and 2, Medford Sewerage System, June 5, 1895.		R. Falvey, Somerville, Mass.	
Items.	Quantities.	Price.	Amount.
<i>a.</i> Earth excavation, 0-8 ft.	10,000 cu. yds.	\$0 46	\$4,600 00
<i>b.</i> Earth excavation, 8-14 ft.	2,500 cu. yds.	65	1,625 00
<i>c.</i> Earth excavation, 14-20 ft.	200 cu. yds.	1 00	200 00
<i>e.</i> Rock excavation, 0-8 ft.	50 cu. yds.	1 00	50 00
<i>f.</i> Rock excavation, 8-14 ft.	100 cu. yds.	1 00	100 00
<i>g.</i> Rock excavation, 14-20 ft.	50 cu. yds.	1 00	50 00
<i>i.</i> Brick	110 cu. yds.	4 75	522 50
<i>j.</i> Concrete	120 cu. yds.	3 00	360 00
<i>k.</i> Rubble	10 cu. yds.	3 00	30 00
<i>l.</i> Pipe sewers, 6-12 in.	8,600 lin. ft.	08	688 00
<i>m.</i> Pipe sewers, 18 in.	1,800 lin. ft.	12	216 00
<i>n.</i> Pipe chimneys	150 ver. ft.	10	15 00
<i>o.</i> Sub-drain laid	4,000 lin. ft.	22	880 00
<i>p.</i> Spruce lumber in place	4 M. B. M.	25 00	100 00
Totals			\$9,436 50

A. W. Bryne, West Medford, Mass.		Lindsey & Cudmore, Somerville, Mass.		F. A. Snow, Boston, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.
<i>a.</i> \$0 45	\$4,500 00	\$0 55	\$5,500 00	\$0 65	\$6,500 00
<i>b.</i> 72	1,800 00	75	1,875 00	85	2,125 00
<i>c.</i> 1 00	200 00	1 00	200 00	1 50	300 00
<i>e.</i> 1 00	50 00	4 00	200 00	2 50	125 00
<i>f.</i> 1 00	100 00	4 00	400 00	3 00	300 00
<i>g.</i> 1 00	50 00	4 00	200 00	3 00	150 00
<i>i.</i> 6 00	660 00	4 50	495 00	5 00	550 00
<i>j.</i> 3 00	360 00	4 00	480 00	5 00	600 00
<i>k.</i> 10	1 00	1 00	10 00	6 00	60 00
<i>l.</i> 15	1,290 00	15	1,290 00	06	516 00
<i>m.</i> 25	450 00	10	180 00	10	180 00
<i>n.</i> 10	15 00	05	7 50	10	15 00
<i>o.</i> 15	600 00	15	600 00	15	600 00
<i>p.</i> 40 00	160 00	35 00	140 00	40 00	160 00
	\$10,236 00		\$11,577 50		\$12,181 00

Water service to stable	85 36
Map of sewerage system and annual report	198 05
Recording deeds and marking boundaries	32 90
Central avenue drain, 4-5 of the cost (about)	18,142 29
	<hr/>
	\$157,491 01
Balance	42,089 62
	<hr/>
	\$199,580 63
Re-appropriation	14,580 63
Additional appropriation	185,000 00
	<hr/>
	\$199,580 63
Sewer assessment committed for collection	\$93,044 49
"Brooks and Streams:"	
Gravelly creek improvement	\$4,029 97
Central avenue drain	4,515 95
Park street drain	255 02
Granville avenue tide-gates	4,084 69
Granville avenue brook waterway	2,334 83
Creek Head improvement	78 74
Gravelly creek, Salem to Water street	57 58
Cleaning east branch Gravelly creek	26 55
Maple street brook	45 34
Granville avenue brook drain	83 40
Engineering on last five items, and misc. studies,	261 15
	<hr/>
	\$15,773 22
Balance	226 78
	<hr/>
	\$16,000 00
Appropriation	\$15,000 00
From Jane C. Hicks	1,000 00
	<hr/>
	\$16,000 00

REPORT
OF THE
CITY ENGINEER.

His Honor, Baxter E. Perry, Mayor, Medford, Mass.:

Dear Sir,—In compliance with the ordinance relating to the City Engineer, the annual report of that officer is hereby made.

ORGANIZATION.

The policy of keeping assistants assigned to regular lines of work has been carried out, and with increasingly good results as time has gone on. However, where the work would not suffer, I have as far as possible given the men a variety of work as a matter of information and experience to them. In the Appendix are given the names and positions of the assistants who have been employed in the office at any time during the year.

Appropriations for the general expense and for the special work in preparing a city map have been made, and expenditures thereunder made as follows:

CITY ENGINEER'S EXPENSE.

Appropriation		\$1,500 00
Pay-rolls	\$960 08	
Bills	533 59	
	\$1,493 67	
Balance	6 33	
	\$1,500 00	

Expenditures under pay-rolls may be classed as follows:

Highways, lines, grades and records	\$439 78
Water works, ordinary	16 52
Public property	66 69
Public parks	27 00
Surface drains (see also Lapham street drain)	6 66
City Solicitor	3 45
Office, copying record plans, indexing, etc.	226 45
Highway bridges	10 32
Inspector of Buildings	1 47
Oak Grove Cemetery	116 14
Street watering	23 26
General survey of city	22 34
	<hr/>
	\$960 08

Bills by classification are as follows :

Office equipment and furniture	\$380 40
Stationery, postage and printing	41 10
Draughting materials	30 11
Stakes and survey material	4 18
Bills for services	23 05
Map of Boston and vicinity	10 00
Miscellaneous office expenses (carfares, light, etc.),	44 75
	<hr/>
	\$533 59

MAP OF MEDFORD.

Appropriation	\$1,500 00
Additional	1,000 00
	<hr/>
	\$2,500 00
Pay-rolls	\$2,364 24
Bills	133 17
	<hr/>
	\$2,497 41
Balance	2 59
	<hr/>
	\$2,500 00

Bills by classification are as follows :

Draughting material	\$83 36
Surveying material	5 98
Furniture and folios	24 00
Miscellaneous	19 83
	<hr/>
	\$133 17

Pay-rolls for services rendered by men from this office and paid from special appropriations are as follows :

Sewer construction, including inspection and house connection superintendence and clerical work	\$12,897 67
Sewer assessment (including account surveying),	2,823 10
Improving and enlarging water supply	632 40
Renewal of mains between ponds	599 50
Hillside school	62 67
New high school	172 38
Brooks and streams	1,256 73
Street numbering	62 00
Lapham street drain	169 42

The salary of the City Engineer has been charged as follows :

Sewer construction	\$933 96
Sewer assessment	116 27
Improving and enlarging water supply	90 88
Renewal of mains between ponds	106 28
Map of Medford	12 43
New high school	33 92
Brooks and streams	306 21
Salaries and fees	800 05
	<hr/>
	\$2,400 00

OFFICE.

The indexing of note books and the classification and indexing of plans is now fully established. Proper cases have been procured, and the entire building numbered 7 High street has been procured by the Commissioners of Sewers and kindly put at the disposal of this department. Shutters covered with sheet metal have been placed upon the building where any fire would be likely to be menacing, thus constituting the building practically fire-proof.

There are now on file at this office in the aggregate 936 plans and 544 profiles, and the number is increasing at a very rapid rate.

HIGHWAY WORK.

Lines and grades have been given at request of the Street Commissioners for setting for edgestone and paving sidewalks and gutters; also for grading of road-beds. Measures of work by contract, and for issuing bills for assessments of cost of sidewalk and edgestone have been made and certified to, also, as requested by the commissioner. Lines and grades have been staked for property holders, for the grading of lawns and building of fences, so far as requests have been made. See "Recommendations" suggesting more exact definition of the duties of the City Engineer in respect to this work.

STREET RECORDS.

Considerable progress has been made in collecting and copying all street records in uniform style, there remaining a few more to obtain from the County Commissioner's office. The policy has been continued of making extensive research in ascertaining the line of any street when any portion of the line is called for, and the lack of fully completed records on file in this office has been seriously felt, and it is with considerable satisfaction that their early complete acquisition is expected.

STREET ACCEPTANCE PLANS.

Plans of nearly all the streets which have been proposed for acceptance have passed through the hands of the City Engineer for revision as to grades and minor details. There is no stated requirement in respect to such a supervision. See "Recommendations" for suggestions relating to this feature.

MAP OF MEDFORD.

Generous appropriations by the City Council have made it possible to report a material progress on this important work. The portion of the city north of the river and east of Winthrop street has been mapped, and plans thereof given to the Assessors. It should not be forgotten that the carrying out of this work in connection with the work of sewer assessments has proved of the greatest economy, for the reason that the office plans, used as the basis for both branches of the work, have been made at the joint expense of "Sewer Construction" and "Map of Medford." Furthermore, arrangements have been made with the Commissioners of Sewers for paying the expense of field work upon that area where it is probable that construction of sewers will be prosecuted during 1896, with the understanding that the expense of plotting shall be paid out of the appropriation for the map of Medford. This guarantees not only a speedy collection of bills due the city for sewer construction, but the giving to the Assessors maps of another large section of the city for the use of this year. It is hoped that the Assessors will thus have in hand maps of the whole city, with the exception of Ward 6 and that portion of Ward 5 in the Medford Hillside district south of the railroad, for use the coming year. They have made 16.15 miles of surveys in streets and 10.47 miles of surveys on marsh, woods and fields since the date of the last report, paid for from both of these appropriations and available for the map of Medford. The maps which are delivered to the Assessors are

plotted on the scale of forty feet to the inch, and cover each a rectangle seven hundred and fifty feet by one thousand feet. They are traced upon bond paper and bound in folios. No designation of lots is made thus far. When street numbers are fully established, a ready means will be furnished for identification, although in the present system of the Assessors, whereby each lot is taken successively, there is but little trouble in this respect. Where there exist large areas of marsh and other acreage property but little occupied, maps have been furnished on the scale of two hundred feet to the inch. These will need to be put upon a larger scale as development proceeds, and a small annual expense will be needed to do this and to keep all the maps up to date. Copies of all plans recorded at the Middlesex South District Registry of Deeds, at the County Commissioner's office, and other offices where there are plans of Medford, are being made and are now brought up nearly to date.

I desire again to express the hope that anybody in possession of plans not recorded, and by which any transfers of property have been made, will allow this department to make copies of them.

This will ensure the preservation of the plan and increase the usefulness of the office.

STREET WATERING.

The usual measurements of frontages for street watering assessments have been made and certified to.

STREET NUMBERING.

Plans have been drawn, at the request of the Street Commissioner, for a considerable portion of Wards 1, 2, and 3 for the determining and recording of street numbers. He has made some progress in assigning numbers, the work at present standing in abeyance, at the request of the Board of Aldermen. Additional plans for street numbering can be made as fast as the office maps are completed.

OAK GROVE CEMETERY.

A topographical survey of the unimproved parts of the cemetery and a general design for avenues has been submitted to and approved by the cemetery board. A new plat styled "Evergreen Lawn" has been mapped, and lines and grades staked for the avenues and main paths thereof.

SURFACE DRAINS.

Studies of several districts for improving the surface drainage have been made at request of the City Council.

These included Weir bridge district, so called, being the district tributary to an outlet on High street at Weir bridge; also Lapham street district, so called, being the district tributary to an outlet at the marsh opposite the foot of Lapham street. The construction of the latter was ordered and has been partially completed. There remains considerable to be done in this district in the building of proper catch-basins. Studies for surface drainage have been made at the request of the Commissioners of Sewers, where the same have concerned the treatments of open water-courses, as follows:

Gravelly creek, from Water to Webster street; Maple street brook, involving the territory tributary to Creek Head, as well as the territory tributary to the Maple street brook (this includes an area of nearly two hundred acres of the Fells, lying north of Valley street, near to and east of Fulton street); Granville avenue brook, extending from tide-water to Main street, the water-shed of which extends into and includes a large area in Somerville; Ash street district, so called, being the area tributary to the open water-course flowing into Gravelly creek, between Webster and Water streets, from Forest street across Ash street; Webster street district, so called, lying east of and tributary to an outlet into Gravelly creek in Webster street, this study being made as proper disposition of the surface water in this district, instead of flowing into the open brook called the East Branch

of Gravelly creek, as thought possibly feasible via Court street: Playstead brook, so called, from Irving street to the northerly end of the Playstead, in relation to which the Commissioners of Sewers have made a special report, recommending its construction at the joint expense of the abutters, of the Park Department and the "Brooks and Streams" appropriation. The study has also been made for the improvement of Maple street district, in addition to that first mapped out, extending from Maple street near the line of Spring street to Almont street, and communications have been made with the property holders looking toward a further substantial improvement of this water course; Park and Paris street districts, an area tributary to an outlet into the East Branch of Gravelly creek at Park street.

A study is in progress of the improvement of Creek Head. This involves joint action with Malden and the straightening of the city line. It is expected in the execution of this work to solve the question of adequate surface drainage for Edgeworth district and the portion of Wellington north of the hill. A study has also been made, at the request of the Street Commissioner, of the water-shed on the west arm of Gravelly creek above Forest street, for the construction of a new culvert on Forest street.

CONSTRUCTION FOR IMPROVEMENT OF BROOKS AND STREAMS.

Gravelly Creek.

Five hundred and sixty-nine linear feet of open water course from Water street to Webster street, having plank bottom and grassed banks, sloping between the limits of two and one-half to one, and three to one; also involving the construction of a new culvert and two catch-basins at Water street, have been executed. The form of construction, also views showing the appearances before and after, are given on accompanying sheet.

By reason of executing this, along with the construction



GRAVELLY CREEK LOOKING SOUTH FROM WEBSTER STREET BEFORE IMPROVEMENT.

of the main sewer, the greater part of the expense of a pretty bit of water parkway has been liquidated.

Central Avenue Drain.

A piece of work paid for jointly out of "Sewer Construction" and "Brooks and Streams" appropriations, comprising 1687.8 linear feet, of 4 ft. 6 in. by 4 ft. 6 in. masonry drain in Central avenue extension, and 1587.6 linear feet of 4 ft. 6 in. by 4 ft. masonry drain in Spring street to Maple street, both forms having an invert of Portland concrete, with an eight-inch brick arch.

This drain with its underdrain provides a nearly free discharge for the underdrain system of sewers in Section 5; also an overflow for the same section, as required under the rules of the Metropolitan Sewerage Commission. It further provides for the care of the Central avenue drainage district, and for a number of years will provide for the Maple street drainage district, a combined area of about five hundred acres. When developments on the upper reaches of the water-shed have materially advanced, it will be necessary to provide an overflow, either from a point near Valley and Almont streets into Gravelly creek, or from near Spring and Maple streets into the old natural water-course, discharging through Malden. By the construction of this drain the depth of drainage has been lowered five feet for the low regions between Valley street and Salem street, extending from the junction of these streets to the middle of the block west of Almont street.

As stated in the report of the Commissioners of Sewers, bids for this work (see Appendix) were received, and being considered too high, the work was done by day labor. Mr. John H. Burleigh was the engineer in charge. The brick work was let to Lindsey & Cudmore, at \$2.15 per cu. yard.

Park Street Drain.

A short piece of fifteen-inch pipe was laid in Park street, from the east arm of Gravelly creek to the strip taken for

construction of sewers, through which it was proposed to lay a drain to Paris street.

This work, together with the construction of suitable catch-basins at Paris street, would have adequately drained that low place.

Owing to the impossibility of obtaining the right to trespass on adjoining land, construction was not carried through the sewer taking.

Granville Avenue Brook.

The channel of Granville avenue brook was deepened and graded with natural slopes, from Mystic avenue 1150 feet westerly substantially along the line of a new division line agreed upon by Mrs. Jane C. Hicks and Messrs. Willis and Alexander.

Double tide-gates were constructed at Mystic avenue, whereby this water-way would be available for storage for storm water during the periods of high tides. One thousand dollars of the expense of the tide-gates was contributed by Mrs. Jane C. Hicks, according to her proposition, which was conditional upon the city filling a portion of Mystic avenue, which proposition was accepted. The gates themselves were of wood, built of two leaves each, hung on the side with wrought-iron hinges. The hooks were of composition, set into the gate seats, the latter being built up of cut stone. The conduit and chamber were built of brick, with a pile platform and Portland concrete foundation. The discharge end was protected by a wall of rubble masonry, and each end fitted with a screen. The gate opening is 6 ft. x 5 ft.; the culvert being 6 feet circular. This construction does away with the old plank and pile culvert. The construction of a covered conduit was contemplated from Main street to the point where the open water-course left off. Work upon this was delayed because of an impossibility of making arrangements with the owners of the land through which the route lay, the property having been lotted out with no reference to the economical disposition of this water-course. Efforts



GRAVELLY CREEK LOOKING SOUTH FROM WEBSTER STREET AFTER IMPROVEMENT.

were made by the Commissioners of Sewers to secure the laying out of a street covering the direct route of the brook, provided that the city should put the brook at once under cover. These efforts did not avail, and it remains now for the city, whenever they shall be obliged to cover the drain, to incur an added expense of one or two thousand dollars, by reason of increased length of conduit.

The cost of these various pieces of construction is given in the table in the Appendix of the Commissioners of Sewers' report.

The following water-courses have been cleaned out :

Maple street brook, from Almont street southeasterly across Cherry street, thence northeasterly across Maple street to the open channel excavated at the head of Spring street drain ; Creek Head, from the end of Central avenue drain southeasterly to a point about 600 feet east of Myrtle street ; Gravelly creek, from Salem street to Water street, also from Webster street to the east branch ; Gravelly creek, east branch, from the main creek easterly to Park street ; Ash street drain, from Gravelly creek westerly through land of Hall and Lawrence, to near Forest street ; the total expense for these items being \$208.21.

It may not be out of place to call attention to the fact that the calls for improvement of surface drainage have been numerous and widely spread throughout the city. The areas for which studies have been made cover but a portion of the city. It cannot be said that the surface drains comprise a system in the same sense that the sewers do. There are many small systems or rather districts, each to be considered by itself. It would certainly seem the part of wisdom at this time to have a complete study of the whole question, with a forecast of the public needs from year to year, and of the expense involved. There is no difficulty in the making of a separate study of any particular area, that the sizes and routes shall be determined and laid out in manner adapted to all future requirements ; but there is considerable obscur-

ity as to the extent to which the city may be involved by the pressing of claims for these improvements, all of which may be as important as those to which the city has already given attention. By having such studies and estimates, it may be readily ascertained by your Honor or by the City Council, after determining what districts are suffering equally for this improvement in drainage, how great an expense is involved in caring for all such areas, and thus avoid entering upon a special district without knowing how deeply the city will be involved, in order to deal with all districts having like necessities. The chief expense for any such study has already been met, by reason of the surveys made for the study of the sewerage system and other purposes.

BETTERMENTS.

Legislative authority should be secured whereby reasonable assessments of betterments could be made and collected resulting from the improvement of brook channels, and other improvements of surface drainage. As now provided, nothing in excess of the cost of land taking is possible to be enforced, and it is very hard to get different owners to work together so as to obtain a cash contribution in the place of any enforced assessment. Where, however, one or a very few persons are interested, it has been found possible by the Commissioners of Sewers to get such co-operation on the part of the property owners.

BRIDGES.

Middlesex Avenue Bridge.

The repairs noted in the last report were completed with a result that the draw is believed to be as strong as it ever was, although its life is limited by the durability of the wood work.

A further examination was made early during the past year with the late Horace L. Eaton, City Engineer of Somerville, and Henry Manley, civil engineer, of Boston. The

latter made a report, which is on file at this office. The bridge itself is in safe condition for all ordinary traffic, and I see no reason why it should not last without extensive repairs for several years. The draw piers, however, are in very shaky condition, and should be at once repaired and substantial dolphins placed for the accommodation of shipping. The expense is estimated at one thousand one hundred dollars. In view of the proposed parkway construction by the Metropolitan Park Commission along this route, I should recommend that the reconstruction of this bridge be kept in abeyance, while it remains safe for ordinary travel, awaiting action by said commission looking toward the erection of a bridge in keeping with the dignity of a parkway. At such time, by joint contributions of the commission and of the cities interested, the expense, while large, would not be unreasonable.

Cradock Bridge.

This bridge remains intact.

Winthrop Street Bridge.

Would recommend that this bridge be closed to traffic, and remain closed until properly supported and braced by the driving of new piles and spur-shores and bracing the same. The superstructure remains in fair condition.

Auburn Street Bridge

Is one year older; has been replanked during the last year. This structure should be replaced at an early date.

Boston Avenue Bridge.

This bridge has been replanked, otherwise is in about the same condition as reported last year, viz. : growing old fast.

Harvard Street Bridge

Has been replanked. No further disturbance to the abutments is noted than that taken place at the time of the last report.

Weir Bridge.

This structure remains in first-class condition, as reported last year. The exposed iron work should be painted.

Mystic Avenue Culvert

Has been done away with by the construction of the new culvert and double tide-gates.

College Avenue Bridge

Has been replanked. The increasing travel through College avenue makes the narrowness of this bridge more apparent.

WATER DEPARTMENT.

New piping done by the department, a report of which is made by the Water Board, has been considered and approved.

Wright's Pond.

The dam at Wright's Pond, in process of construction at the date of the last report, has been completed. The contractors relinquished the work by mutual agreement, and the city completed the same by day labor. The dam impounds the water to elevation 140, at which elevation the capacity of the reservoir above the grade of the outlet is 71,843,000 gallons. The pumping station has been completed and conveniently fitted up.

HIGH SERVICE.

The sixteen-inch high service main through Forest street has been completed and water supplied through the same from the standpipe after the first day of July. The area contemplated to be served by this pressure has been gradually taken in, and, at this date, everything has been running smoothly for several months, to the great satisfaction of the inhabitants of this district.

On April 1st, bids were received for the laying of the new twenty-inch main, to replace the old twelve-inch one from a

point near the head of Wright's Pond to Spot Pond. The contract was awarded to Edward McManus, of Waterbury, Conn., and the work completed in January. The contract of Weaving, Booth & Co., for the portion of the twenty-inch main extending into the pond, was completed by Mr. A. E. Weaving. The contract for the erection of the Spot Pond gatehouse was awarded to Messrs. Ham & Hopkins for \$359.00, exclusive of the brick and cement, and the job completed in satisfactory manner.

Paths and drive-ways about Wright's Pond station were staked out, also stakes set for the grading of the surrounding grounds. The work is completed and to the credit of the city. Levels were taken and plan of the lot made for the new water works shop on James street; the same was also staked out.

SEWER CONSTRUCTION.

The tabulated work of sewer construction will be found in Appendix.

Bids for sewer pipe were received March 2, 1895, from Fiske, Homes & Co., Waldo Brothers, D. W. Lewis, and George D. Goodrich, agents of the Union Sewer Pipe Co., W. G. Nash, and Perrin, Seamans & Co., agents of the Central Sewer Pipe Co. and the Portland Stone Ware Co., all at the uniform price of 67 per cent, 59 per cent, and 54 per cent discount, respectively, for standard socket, deep socket and double strength pipe. It being ascertained that the combination formed under which these bids were submitted was apparently permanent, the philosophical thing was to get the best pipe for the money. With that end in view, a trip among the various factories was made by Mr. J. W. Rockwell, of the Commissioners of Sewers, with the City Engineer, resulting in obtaining a proposition for a modified dimension of socket, by using which the necessity for a deep socket, as used in the previous year, was avoided, resulting in a saving of something over three thousand dollars to the city. The manufacturers have now adopted a new standard

socket substantially according to the dimensions of this modified form, and I think their action will be appreciated generally.

It being deemed for the best interests of the city to do so, a contract was made with Mr. George D. Goodrich, one of the agents of the Union Sewer Pipe Co., of Akron, to furnish the pipe, the same to be manufactured at the Robinson Brothers and the Buckeye factory.

On March 30, 1895, bids were received (see Appendix) for construction in Sections 7 and 8. The contract was awarded to the Morgan & Booth Construction Co., per the terms of their bid.

Bids for manhole castings, to weigh four hundred and sixteen pounds per set, were received March 30, as follows :

Fairhaven Iron Foundry Co. . . .	\$4 68
Osgood & Hart	4 75
Union Iron Works	4 78
Henry Parsons	4 90
The Pratt & Cady Co. . . .	4 95
Bradlee, Hastings & Co. . . .	4 98
Mechanics Iron Foundry Co. . . .	4 99
Lynn Foundry & Mfg. Co. . . .	4 99
F. B. Hawkins & Co. . . .	5 10
Noble Stove Co. . . .	5 14
LeBaron Iron Co. . . .	5 14
Davis Foundry Co. . . .	5 45
Thomas J. McKenna	6 20
L. H. Goodnow	6 37
John Fox	6 45
Davies & Thomas Co. . . .	6 45
Builders Iron Foundry	7 35
Whittier Machine Co. . . .	9 25
James A. Colvin	9 35
The McNeil Pipe & Foundry Co. . . .	9 36

The bid of the Fairhaven Iron Foundry Co. was accepted. They have furnished a superior casting.

On April 27, bids were received for the construction of sewers in Section 16, South Medford (see Appendix), and the contract awarded to H. A. Hanscom & Co., under the terms of their bid. On June 5, bids were received for the construction of sewers in Sections 1, 2, 5, and 6 (see Appendix). The bid of Richard Falvey of Somerville was accepted for construction of Sections 1 and 2, and that of Lindsey & Cudmore for the construction of Section 6. The bid of A. W. Bryne, in Section 5, having been amended, he was awarded the contract in that section. No contract was made for cement. Informal prices were secured and the cement was bought in the open market. Portland cement was bought largely from W. G. Nash, he delivering the "Scales" brand; although a considerable quantity of "Alsen" was used, bought from Waldo Brothers. Rosendale cement was furnished almost entirely from Berry & Ferguson, from the brand "Snyder's Crescent." On September 9, a contract was made with Parry Brothers & Co. for 350,000 brick, they being the lowest bidders in an informal call for bids. Brick had been bought in the open market from Parry Bros. & Co. and from the Bay State Brick Co. up to that date. On October 21, bids for the construction of additional sewers in Section 16 were received (see Appendix), and the contract therefor awarded the A. W. Bryne Construction Co., the latter sewers being built to fulfill agreement made with the city of Somerville, whereby certain sewers in that city were to be provided an outlet through Medford, and some of the Medford sewers to secure an outlet through Somerville. All these contracts were substantially completed with the exception of the last named, a supplementary contract having been made with H. A. Hanscom & Co. for the completion of a few minor lines in that district.

GENERAL OBSERVATIONS.

There is nothing notable to be chronicled in respect to any of this work. Some pile foundation was required in Section

16, partly where the lines were located through old clay pits. The practice was continued of securing freely discharging underdrains wherever possible, and three overflows for as many minor systems were built in Section 16, with very satisfactory results, in respect to the drainage of the ground, and thus preventing leakage into the sewer. Having tried the making up of sewer joints without the use of jute or yarn, I believe that the experience of the past year justifies the conclusion to adopt that practice. As stated under the head of Surface Drains, a permanent outlet operating at a slight head was secured for Section 5, through the underdrain and main drain of the Central avenue extension work.

The practice has been adopted in refilling trenches to wrap the joints with cheese-cloth in all cases so as to keep the cement in place, and indirectly to offer further surety that the pipe layer should get the cement into the lower part of the joint of each pipe. This is insured because the cloth is required to be passed under the hub of the pipe, to do which a bell hole, ample also for making up the joint, must be provided. Portland cement mixed two to one of sand was used generally for pipe joints. The bell holes were filled with Rosendale concrete, mixed fine and pretty wet, except that in dry trenches, when suitable material was at hand, natural earth was replaced in the bell holes. To ensure accuracy in alignment at the joints of the pipe, small bits of half round mouldings of the proper thickness were placed in the cement space. This made a very satisfactory means of attaining the object desired. All the pipe used excepting that in underdrains was made with corrugated bells and spigots, and I have reason to believe that to this is due, in part, the very excellent results in securing water tightness. By the courtesy of Professor Bray, at Tufts College, the engineering laboratory was placed at the disposal of the City Engineer, for the purpose of testing the crushing strength of sewer pipe, and several experiments were made. The most notable feature that was discovered was the great variation in strength be-

tween pipes of the same thickness and of the same make, but which were unevenly burned; this leading to the determination to take extra precaution in the securing of evenly and carefully burned pipe, especially on the larger sizes.

Seventy-five connections of 1 $\frac{3}{4}$ inches water service have been laid into flushing manholes. One-inch Peet valves have been connected therewith by means of reducers. Judging by the flushing already done, it is plain that no mistake was made in providing for a low cost of maintenance by a small additional cost of construction. There is no doubt but that one man will be able to take care of the flushing, cleaning of dirt-pans, and minor repairs required in the system, fifty miles in length when completed.

ROUTES FOR SEWERS ON PRIVATE LANDS.

It is found that it is money saved for the city to give careful attention to routes selected over private land for sewer lines. The policy is followed out of trying to locate such lines where streets will be laid out in the future. It is very gratifying when property owners co-operate with the city in this respect instead of pursuing a "dog in the manger" policy.

SEWER ASSESSMENTS.

Bills for sewer assessments have been issued from time to time since September 26. At the present rate bills covering assessments for all construction up to date will have been issued in a few weeks.

RECOMMENDATIONS.

I recommend that the duties of the City Engineer be more exactly defined in relation to the giving of line and grade of the streets, for building of fences and the grading of private lot fronts. As it is now, he is required simply to give private parties access to the plans and records on file. Coupled with this action should be that, requiring each property holder to

obtain the street grade for his improvements, thus putting the responsibility wholly upon him if his work does not conform to the true street line and grade.

I would recommend that a written report by the Street Commissioner and by the City Engineer be required to be made to the City Council or to the Highway Committee upon the acceptance of a street, and upon the plan submitted with the petition. These reports to state the general condition of the street, the cost of construction, and what if any amendments in respect to the grade or other features in the plan are recommended. These reports to be obtained before a report is made to the Aldermen by the committee, of which report they shall form a part.

As indicated under the head of "Surface Drains," I would recommend that legislation be secured empowering the Commissioners of Sewers, under proper authorization of the City Council, to collect by assessments a fair proportion of the betterments to estates resulting from drainage improvements.

I would also recommend that a plan of the surface drainage of the city, including the improvement of brooks and streams, together with estimates of cost be made, under supervision of the Commissioners of Sewers, to be accompanied by a forecast of the relative ungeny of each district for construction.

I would recommend that Winthrop street bridge be closed to traffic, until piles and spur-shores can be driven to replace those which have gone to pieces, and proper bracing under all the bents can be placed.

I would recommend that the draw piers of Middlesex avenue bridge be repaired, and that good and sufficient dolphins be erected for the accommodation of shipping; also that no further repairs, other than superficial ones, be made upon the bridge until the plans of the Metropolitan Park Commission respecting the parkway in the vicinity of the bridge be more fully developed.

ACKNOWLEDGEMENTS.

In conclusion, I wish to thank your Honor and the City Council, the various boards and commissioners, also all the city officials for their uniform courtesy and assistance; especially would I express my appreciation of the confidence of the Commissioners of Sewers, with whom my work has been so largely associated. I would most heartily acknowledge my appreciation of my assistants for their constant efforts to perform their duties faithfully and thoroughly.

Respectfully submitted,

T. HOWARD BARNES,
City Engineer.

APPENDIX.

Assistants, names and positions of those who have served at
any time during the year :

OFFICE.

Charles Temperley, assistant engineer in charge of surveys, mapping and highway work.

Willis T. Knowlton, assistant engineer in charge of sewer assessments and assessor's maps.

O. J. Shaw, draughtsman and leveller.

C. H. Hollingsworth, C. M. Johnson, levellers.

M. Bamji, W. A. Gleason, G. E. Harkness, draughtsmen.

J. H. Hooper, special assistant at Registry of Deeds, on sewer assessments.

Gilbert Hodges, Jr., A. R. Clarke, rodmen.

Helen T. Wilde, Mabel E. Collins, copyists.

John Crathorne, janitor.

SEWER CONSTRUCTION.

W. M. Bailey, A. D. Nickerson, F. M. Leonard, Henry A. Peakes, assistant engineers in charge of divisions.

A. G. Fogg, W. I. Johnson, W. G. Taylor, transitmen in charge of grade parties.

J. E. Newlands, leveller.

James A. Barnes, W. A. Joyce, E. A. Manton, A. F. F. Haskell, D. F. Crowley, W. W. Griffiths, rodmen in grade parties.

E. Hawes, Jr., E. P. Byrne, O. J. Whitney, G. H. Archibald, C. C. Murphy, W. E. Chick, H. G. Menges, J. W. Martin, W. C. Newell, F. W. Harris, O. D. Rice, F. F. Hicks, H. R. Thayer, W. D. Hall, J. F. Alexander, F. W. Geist, C. H. Page, George E. Manning, inspectors.

W. G. Stearns, assistant engineer in charge of house connections.

A. G. Fogg, assistant engineer in charge of cement testing.

E. Maude Clark, stenographer.

E. Gertrude Littlefield, bookkeeper, clerk and stenographer.

T. H. Pearce, material inspector and superintendent of sewer yard.

WRIGHT'S POND DAM.

John H. Burleigh, inspector and superintendent of construction.

RENEWAL OF MAIN TO SPOT POND.

Irving M. Clark, inspector.

CENTRAL AVENUE EXTENSION AND SPRING STREET DRAIN FOR MAPLE STREET BROOK OUTLET.

John H. Burleigh, assistant engineer and superintendent in charge of construction.

W. E. Chick, inspector and foreman.

G. H. Archibald, inspector.

GRAVELLY CREEK IMPROVEMENT.

W. G. Stearns, assistant engineer in charge.

Canvasa of Bids for Building Portions of Sections 7 and 8, Medford Sewerage System, March 30, 1895.		Morgan & Booth Cons. Co., Trenton, N. J.	
Items.	Quantities.	Price.	Amount.
<i>a.</i> Earth excavation, 0-8 ft.	15,700 cu. yds.	\$0 40	\$6,280 00
<i>b.</i> Earth excavation, 8-14 ft.	2,380 cu. yds.	56	1,332 80
<i>c.</i> Rock excavation, 0-8 ft.	1,100 cu. yds.	3 25	3,575 00
<i>f.</i> Rock excavation, 8-14 ft.	140 cu. yds.	4 50	630 00
<i>i.</i> Brick	170 cu. yds.	4 00	680 00
<i>j.</i> Concrete	100 cu. yds.	4 00	400 00
<i>k.</i> Rubble	10 cu. yds.	5 00	50 00
<i>l.</i> Pipe sewer, 6-12 in.	19,680 lin. ft.	095	1,869 60
<i>m.</i> Pipe sewer, 15-18 in.	795 lin. ft.	20	159 00
<i>n.</i> Pipe chimneys	25 lin. ft.	07	1 75
<i>o.</i> Sub-drain pipe laid	2,280 lin. ft.	30	684 00
<i>p.</i> Spruce lumber in place	B. M. 3 M. ft.	30 00	90 00
<i>r.</i> Spruce piles driven	300 lin. ft.	20	60 00
Totals			\$15,812 15

A. Rabblata, Torrington, Conn.		John Sheehan & Co., Lynn, Mass.		Gennaro, Long & Little, South Braintree, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.
<i>a.</i> \$0 45	\$7,065 00	\$0 43	\$6,751 00	\$0 46	\$7,222 00
<i>b.</i> 65	1,547 00	44	1,047 20	70	1,666 00
<i>c.</i> 4 00	4,400 00	4 50	4,950 00	3 90	4,290 00
<i>f.</i> 5 50	770 00	4 50	630 00	5 00	700 00
<i>i.</i> 7 00	1,190 00	5 00	850 00	4 50	765 00
<i>j.</i> 2 50	250 00	4 00	400 00	4 00	400 00
<i>k.</i> 2 50	25 00	4 00	40 00	5 00	50 00
<i>l.</i> 025	492 00	10	1,968 00	07	1,377 60
<i>m.</i> 04	31 80	15	119 25	12	95 40
<i>n.</i> 1 00	25 00	05	1 25	10	2 50
<i>o.</i> 02	45 60	08	182 40	20	456 00
<i>p.</i> 25 00	75 00	35 00	105 00	40 00	120 00
<i>r.</i> 3 50	1,050 00	25	75 00	20	60 00
	\$16,966 40		\$17,119 10		\$17,204 50

J. J. Arthur & Co., Boston, Mass.		Weaving, Booth & Gow, Medford, Mass.		Trumbull & Ryan, Boston, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 40	\$6,280 00	\$0 50	\$7,850 00	\$0 30	\$4,710 00
<i>b.</i>	70	1,666 00	70	1,666 00	45	1,076 00
<i>c.</i>	5 00	5,500 00	4 50	4,950 00	5 25	5,775 00
<i>f.</i>	5 00	700 00	6 50	910 00	7 25	1,015 00
<i>i.</i>	5 00	850 00	5 00	850 00	5 00	850 00
<i>j.</i>	4 00	400 00	4 00	400 00	5 50	550 00
<i>k.</i>	1 00	10 00	4 00	40 00	5 75	57 50
<i>l.</i>	08	1,574 40	06	1,180 80	16	3,148 80
<i>m.</i>	10	79 50	10	79 50	25	198 75
<i>n.</i>	06	1 50	01	25	25	6 25
<i>o.</i>	06	136 80	18	410 40	40	912 00
<i>p.</i>	28 00	84 00	25 00	75 00	30 00	90 00
<i>r.</i>	25	75 00	20	60 00	30	90 00
		\$17,357 20		\$18,471 95		\$18,578 30

William H. Sherman, Providence, R. I.,		Lindsey & Cudmore, Somerville, Mass.		D. O'Connell, Dorchester, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 50	\$7,850 00	\$0 54	\$8,478 00	\$0 60	\$9,420 00
<i>b.</i>	70	1,666 00	79	1,880 20	60	1,428 00
<i>c.</i>	4 50	4,950 00	5 00	5,500 00	4 50	4,950 00
<i>f.</i>	4 00	560 00	5 00	700 00	4 50	630 00
<i>i.</i>	3 00	510 00	4 25	722 50	5 50	935 00
<i>j.</i>	3 00	300 00	2 50	250 00	4 00	400 00
<i>k.</i>	3 00	30 00	3 00	30 00	4 00	40 00
<i>l.</i>	13	2,558 40	06	1,180 80	07	1,377 60
<i>m.</i>	10	79 50	06	47 70	07	55 60
<i>n.</i>	10	2 50	06	1 50	10	2 50
<i>o.</i>	10	228 00	12	273 60	10	228 00
<i>p.</i>	25 00	75 00	35 00	105 00	17 00	51 00
<i>r.</i>	40	120 00	05	15 00	20	60 00
		\$18,929 40		\$19,184 30		\$19,577 70

M. Eiffe, Boston, Mass.			F. A. Snow, Boston, Mass.		P. J. McCarthy, Everett, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 51	\$8,007 00	\$0 50	\$7,850 00	\$0 58	\$9,106 00
<i>b.</i>	90	2,142 00	80	1,904 00	63	1,499 40
<i>c.</i>	4 50	4,950 00	5 00	5,500 00	4 50	4,950 00
<i>f.</i>	7 50	1,050 00	5 00	700 00	5 50	770 00
<i>i.</i>	5 70	969 00	5 50	935 00	5 00	850 00
<i>j.</i>	5 00	500 00	5 00	500 00	4 00	400 00
<i>k.</i>	5 50	55 00	5 00	50 00	1 00	10 00
<i>l.</i>	07	1,377 60	10	1,968 00	10	1,968 00
<i>m.</i>	10	79 50	10	79 50	15	119 25
<i>n.</i>	50	12 50	25	6 25	05	1 25
<i>o.</i>	20	456 00	15	342 00	20	456 00
<i>p.</i>	35 00	105 00	30 00	90 00	25 00	75 00
<i>r.</i>	40	120 00	30	90 00	25	75 00
		\$19,823 60		\$20,014 75		\$20,279 90

F. L. Allen, Worcester, Mass.			A. Michellini, Reading, Mass.		A. W. Bryne, West Medford, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 50	\$7,850 00	\$0 59	\$9,263 00	\$0 60	\$9,420 00
<i>b.</i>	90	2,142 00	85	2,023 00	70	1,666 00
<i>e.</i>	5 00	5,500 00	4 25	4,675 00	5 00	5,500 00
<i>f.</i>	6 50	910 00	5 50	770 00	5 00	700 00
<i>i.</i>	5 00	850 00	5 00	850 00	5 00	850 00
<i>j.</i>	4 50	450 00	4 50	450 00	5 00	500 00
<i>k.</i>	4 00	40 00	1 75	17 50	5 00	50 00
<i>l.</i>	10	1,968 00	10	1,968 00	10	1,968 00
<i>m.</i>	20	159 00	18	143 10	15	119 25
<i>n.</i>	05	1 25	15	3 75	10	2 50
<i>o.</i>	20	456 00	27	615 60	15	342 00
<i>p.</i>	40 00	120 00	35 00	105 00	40 00	120 00
<i>r.</i>	40	120 00	1 00	300 00	30	90 00
		\$20,566 25		\$21,183 95		\$21,327 75

Edward Brigham, Boston, Mass.		Falvey & Buttner, Somerville, Mass.		Crockett & Kelley, Somerville, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 60	\$9,420 00	\$0 48	\$7,536 00	\$0 60	\$9,420 00
<i>b.</i>	90	2,142 00	72	1,713 60	95	2,261 00
<i>e.</i>	4 50	4,950 00	7 00	7,700 00	5 00	5,500 00
<i>f.</i>	5 50	770 00	10 00	1,400 00	7 00	980 00
<i>i.</i>	6 00	1,020 00	4 25	722 50	8 00	1,360 00
<i>j.</i>	4 00	400 00	3 00	300 00	6 00	600 00
<i>k.</i>	4 75	47 50	4 00	40 00	4 00	40 00
<i>l.</i>	10	1,968 00	10	1,968 00	08	1,574 40
<i>m.</i>	15	119 25	15	119 25	20	159 00
<i>n.</i>	10	2 50	10	2 50	10	2 50
<i>o.</i>	15	342 00	20	456 00	25	570 00
<i>p.</i>	35 00	105 00	30 00	90 00	40 00	120 00
<i>r.</i>	50	150 00	30	90 00	40	120 00
		\$21,436 25		\$22,137 85		\$22,706 90

D. F. McCarthy, Lawrence, Mass.		Burnett, Floyd & Horton, East Boston, Mass.		
Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 60	\$9,420 00	\$0 68	\$10,676 00
<i>b.</i>	80	1,904 00	1 00	2,380 00
<i>e.</i>	6 00	6,600 00	4 50	4,950 00
<i>f.</i>	6 00	840 00	5 50	770 00
<i>i.</i>	6 00	1,020 00	6 50	1,105 00
<i>j.</i>	6 00	600 00	4 50	450 00
<i>k.</i>	6 00	60 00	2 75	27 50
<i>l.</i>	10	1,968 00	10	1,968 00
<i>m.</i>	15	119 25	20	159 00
<i>n.</i>	05	1 25	15	3 75
<i>o.</i>	20	456 00	20	456 00
<i>p.</i>	30 00	90 00	40 00	120 00
<i>r.</i>	30	90 00	40	120 00
		\$23,168 50		\$23,185 25

Canvass of Bids on Section 16, Medford Sewerage System, April 27, 1885.		H. A. Hanson & Co., Everett, Mass.	
Items.	Quantities.	Price.	Amount.
a. Earth excavation, 0-8 ft.	20,750 cu. yds.	\$0 40	\$8,300 00
b. Earth excavation, 8-14 ft.	2,300 cu. yds.	55	1,265 00
c. Earth excavation, 14-20 ft.	50 cu. yds.	1 00	50 00
e. Rock excavation, 0-8 ft.	4,870 cu. yds.	3 00	14,610 00
f. Rock excavation, 8-14 ft.	910 cu. yds.	4 00	3,640 00
g. Rock excavation, 14-20 ft.	20 cu. yds.	6 00	120 00
i. Brick	450 cu. yds.	4 50	2,025 00
j. Concrete	150 cu. yds.	4 00	600 00
k. Rubble	20 cu. yds.	6 00	120 00
l. Pipe sewers, 6-12 in.	27,240 lin. ft.	10	2,724 00
m. Pipe sewers, 15-18 in.	2,700 lin. ft.	10	270 00
n. Pipe chimneys	200 lin. ft.	10	20 00
o. Sub-drain pipe laid	25,000 lin. ft.	15	3,750 00
p. Spruce lumber in place	8,000 ft. B. M.	40 00	320 00
r. Spruce piles driven	600 lin. ft.	30	180 00
Totals			\$37,994 00

John Sheehan & Co., Lynn, Mass.		Morgan & Booth, Trenton, N.J.		Ambrose Rabbinta, Torrington, Conn.	
Price.	Amount.	Price.	Amount.	Price.	Amount.
a. \$0 36	\$7,470 00	\$0 395	\$8,196 25	\$0 38	\$7,885 00
b. 36	828 00	60	1,380 00	55	1,265 00
c. 36	18 00	1 00	50 00	75	37 50
e. 4 00	19,480 00	3 25	15,827 50	4 00	19,480 00
f. 4 00	3,640 00	4 00	3,640 00	5 50	5,005 00
g. 4 00	80 00	5 00	100 00	6 00	120 00
i. 4 50	2,025 00	4 25	1,912 50	6 00	2,700 00
j. 1 00	150 00	4 25	637 50	2 50	375 00
k. 1 00	20 00	7 00	140 00	2 50	50 00
l. 15	4,086 00	10	2,724 00	05	1,362 00
m. 15	405 00	40	1,080 00	08	216 00
n. 01	2 00	04	8 00	25	50 00
o. 04	1,000 00	15	3,750 00	05	1,250 00
p. 20 00	160 00	25 00	200 00	26 00	208 00
r. 20	120 00	30	180 00	25	150 00
	\$39,484 00		\$39,825 75		\$40,153 50

Lindsey & Cudmore, Somerville, Mass.		D. O'Connell, Dorchester, Mass.		A. W. Bryne, West Medford, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 52	\$10,790 00	\$0 40	\$8,300 00	\$0 40	\$8,300 00
<i>b.</i>	52	1,196 00	75	1,725 00	60	1,380 00
<i>c.</i>	1 00	50 00	1 00	50 00	1 00	50 00
<i>c.</i>	4 00	19,480 00	4 00	19,480 00	4 00	19,480 00
<i>f.</i>	4 00	3,640 00	4 50	4,095 00	5 00	4,550 00
<i>g.</i>	4 00	80 00	5 00	100 00	6 00	120 00
<i>i.</i>	4 00	1,800 00	4 85	2,182 50	5 00	2,250 00
<i>j.</i>	3 00	450 00	4 00	600 00	5 00	750 00
<i>k.</i>	3 00	60 00	3 00	60 00	5 00	100 00
<i>l.</i>	05	1,362 00	15	4,086 00	10	2,724 00
<i>m.</i>	05	135 00	15	405 00	15	405 00
<i>n.</i>	05	10 00	05	10 00	10	20 00
<i>o.</i>	10	2,500 00	05	1,250 00	15	3,750 00
<i>p.</i>	35 00	280 00	26 00	208 00	40 00	320 00
<i>r.</i>	15	90 00	25	150 00	30	180 00
		\$41,923 00		\$42,701 50		\$44,379 00

John H. Leavitt, Boston, Mass.		Gennaro, Long & Little, South Braintree, Mass.		Brigham & Cates, Boston, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 45	\$9,337 50	\$0 53	\$10,997 50	\$0 40	\$8,300 00
<i>b.</i>	90	2,070 00	85	1,955 00	75	1,725 00
<i>c.</i>	1 50	75 00	1 50	75 00	2 00	100 00
<i>c.</i>	4 00	19,480 00	3 50	17,045 00	4 99	24,301 30
<i>f.</i>	5 00	4,550 00	6 00	5,460 00	5 99	5,450 90
<i>g.</i>	6 00	120 00	8 00	160 00	6 00	120 00
<i>i.</i>	5 25	2,362 50	4 75	2,137 50	5 50	2,475 00
<i>j.</i>	5 75	862 50	4 00	600 00	5 00	750 00
<i>k.</i>	4 00	80 00	5 00	100 00	5 00	100 00
<i>l.</i>	08	2,179 20	15	4,086 00	13	3,541 20
<i>m.</i>	10	270 00	20	540 00	15	405 00
<i>n.</i>	09	18 00	10	20 00	15	30 00
<i>o.</i>	15	3,750 00	10	2,500 00	15	3,750 00
<i>p.</i>	30 00	240 00	35 00	280 00	35 00	280 00
<i>r.</i>	40	240 00	30	180 00	40	240 00
		\$45,634 70		\$46,136 00		\$51,568 40

REPORT OF CITY ENGINEER.

Fulvey & Buttner, Somerville, Mass.			Weying, Booth & Parry, Medford, Mass.		Frank L. Allen, Worcester, Mass.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
<i>a.</i>	\$0 60	\$12,450 00	\$0 60	\$12,450 00	\$0 55	\$11,412 50
<i>b.</i>	75	1,725 00	75	1,725 00	90	2,070 00
<i>c.</i>	1 00	50 00	1 25	62 50	1 50	75 00
<i>e.</i>	4 00	19,480 00	4 50	21,915 00	4 50	21,915 00
<i>f.</i>	6 00	5,460 00	5 50	5,005 00	5 50	5,005 00
<i>g.</i>	6 00	120 00	6 50	130 00	7 00	140 00
<i>i.</i>	5 00	2,250 00	5 00	2,250 00	5 00	2,250 00
<i>j.</i>	3 00	450 00	6 00	900 00	4 50	675 00
<i>k.</i>	5 00	100 00	3 00	60 00	3 00	60 00
<i>l.</i>	15	4,086 00	10	2,724 00	17	4,630 80
<i>m.</i>	22	594 00	20	540 00	20	540 00
<i>n.</i>	06	12 00	05	10 00	05	10 00
<i>o.</i>	20	5,000 00	20	5,000 00	20	5,000 00
<i>p.</i>	30 00	240 00	40 00	320 00	35 00	280 00
<i>r.</i>	30	180 00	25	150 00	40	240 00
		\$52,197 00		\$53,241 50		\$54,393 30

Trumbull & Ryan, Boston, Mass.			D. F. McCarthy, Lawrence, Mass.	
	Price.	Amount.	Price.	Amount.
<i>a.</i>	\$0 73	\$15,147 50	\$0 70	\$14,525 00
<i>b.</i>	93	2,139 00	90	2,070 00
<i>c.</i>	1 13	56 50	90	45 00
<i>e.</i>	4 75	23,132 50	6 00	29,220 00
<i>f.</i>	7 00	6,370 00	6 00	5,460 00
<i>g.</i>	12 00	240 00	6 00	120 00
<i>i.</i>	5 00	2,250 00	6 00	2,700 00
<i>j.</i>	4 50	675 00	5 00	750 00
<i>k.</i>	3 50	70 00	5 00	100 00
<i>l.</i>	12	3,268 80	10	2,724 00
<i>m.</i>	48	486 00	15	405 00
<i>n.</i>	10	20 00	05	10 00
<i>o.</i>	16	4,000 00	25	6,250 00
<i>p.</i>	30 00	240 00	35 00	280 00
<i>r.</i>	35	210 00	30	180 00
		\$58,305 30		\$64,839 00

Little & Ellis, Boston, Mass.		F. L. Allen, Worcester, Mass.		D. F. McCarthy, Lawrence, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 48	\$4,800 00	\$0 50	\$5,000 00	\$0 60	\$6,000 00
<i>b.</i>	1 10	2,750 00	90	2,250 00	90	2,250 00
<i>c.</i>	2 50	500 00	1 50	300 00	1 00	200 00
<i>e.</i>	4 00	200 00	5 00	240 00	4 00	200 00
<i>f.</i>	7 00	700 00	5 50	550 00	5 00	500 00
<i>g.</i>	9 00	450 00	6 50	325 00	5 00	250 00
<i>i.</i>	6 00	660 00	5 00	550 00	6 00	660 00
<i>j.</i>	3 50	420 00	4 50	540 00	5 00	600 00
<i>k.</i>	5 00	50 00	3 00	30 00	4 00	40 00
<i>l.</i>	08	688 00	10	860 00	12	1,032 00
<i>m.</i>	10	180 00	25	450 00	15	270 00
<i>n.</i>	10	15 00	05	7 50	10	15 00
<i>o.</i>	20	800 00	30	1,200 00	30	1,200 00
<i>p.</i>	25 00	100 00	40 00	160 00	30 00	120 00
		\$12,313 00		\$12,472 50		\$13,337 00

Weaving, Booth & Parry, Medford, Mass.		D. O'Connell, Dorchester, Mass.		
Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 70	\$7,000 00	\$0 60	\$6,000 00
<i>b.</i>	90	2,250 00	1 25	3,125 00
<i>c.</i>	1 00	200 00	2 00	400 00
<i>e.</i>	4 00	200 00	3 00	150 00
<i>f.</i>	4 00	400 00	5 00	500 00
<i>g.</i>	4 00	200 00	5 00	250 00
<i>i.</i>	5 00	550 00	5 25	577 50
<i>j.</i>	4 50	540 00	4 00	480 00
<i>k.</i>	3 00	30 00	5 00	50 00
<i>l.</i>	10	860 00	10	860 00
<i>m.</i>	15	270 00	20	360 00
<i>n.</i>	15	22 50	10	15 00
<i>o.</i>	20	800 00	20	800 00
<i>p.</i>	20 00	80 00	35 00	140 00
		\$13,402 50		\$13,707 50

Canvas of Bids for Building Portions of Sections 5, Medford Sewerage System, June 5, 1895.		R. Falvey, Somerville, Mass.	
Items.	Quantities.	Price.	Amount.
<i>a.</i> Earth excavation, 0-8 ft.	18,000 cu. yds.	\$0 40	\$7,200 00
<i>b.</i> Earth excavation, 8-14 ft.	2,000 cu. yds.	70	1,400 00
<i>c.</i> Earth excavation, 14-20 ft.	300 cu. yds.	1 00	300 00
<i>e.</i> Rock excavation, 0-8 ft.	50 cu. yds.	2 00	100 00
<i>f.</i> Rock excavation, 8-14 ft.	50 cu. yds.	2 50	125 00
<i>g.</i> Rock excavation, 14-20 ft.	20 cu. yds.	2 50	50 00
<i>i.</i> Brick	180 cu. yds.	5 00	900 00
<i>j.</i> Concrete	200 cu. yds.	3 00	600 00
<i>k.</i> Rubble	20 cu. yds.	3 00	60 00
<i>l.</i> Pipe sewers, 6-12 in.	22,000 lin. ft.	10	2,200 00
<i>n.</i> Pipe chimneys	200 ver. ft.	04	8 00
<i>o.</i> Sub-drain laid	16,000 lin. ft.	24	3,840 00
<i>p.</i> Spruce lumber	4 M. B. M.	25 00	100 00
Totals			\$16,883 00

Lindsey & Culmore, Somerville, Mass.		A. W. Bryne, West Medford, Mass.		Gennaro, Long & Little, South Braintree, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.
<i>a.</i> \$0 60	\$10,800 00	\$0 54	\$9,720 00	\$0 50	\$9,000 00
<i>b.</i> 1 00	2,000 00	80	1,600 00	75	1,500 00
<i>c.</i> 1 50	450 00	1 00	300 00	1 50	450 00
<i>e.</i> 5 00	250 00	10	5 00	4 00	200 00
<i>f.</i> 6 00	300 00	10	5 00	7 00	350 00
<i>g.</i> 6 00	120 00	10	2 00	8 00	160 00
<i>i.</i> 4 50	810 00	6 00	1,080 00	4 50	810 00
<i>j.</i> 4 00	800 00	4 00	800 00	4 00	800 00
<i>k.</i> 3 00	60 00	10	2 00	5 00	100 00
<i>l.</i> 05	1,100 00	10	2,200 00	15	3,300 00
<i>n.</i> 05	10 00	10	20 00	10	20 00
<i>o.</i> 15	2,400 00	15	2,400 00	25	4,000 00
<i>p.</i> 40 00	160 00	40 00	160 00	35 00	140 00
	\$19,260 00		\$18,294 00		\$20,830 00

F. A. Snow, Boston, Mass.		F. L. Allen, Worcester, Mass.		D. F. McCarthy, Lawrence, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 70	\$12,600 00	\$0 60	\$10,800 00	\$0 60	\$10,800 00
<i>b.</i>	80	1,600 00	1 00	2,000 00	90	1,800 00
<i>c.</i>	1 50	450 00	1 50	450 00	1 00	300 00
<i>e.</i>	1 50	75 00	4 50	225 00	4 00	200 00
<i>f.</i>	2 00	100 00	6 00	300 00	5 00	250 00
<i>g.</i>	2 00	40 00	7 00	140 00	5 00	100 00
<i>h.</i>	5 00	900 00	5 00	900 00	6 00	1,080 00
<i>j.</i>	5 00	1,000 00	4 50	900 00	5 00	1,000 00
<i>k.</i>	6 00	120 00	3 00	60 00	4 00	80 00
<i>l.</i>	05	1,100 00	10	2,200 00	12	2,640 00
<i>n.</i>	10	20 00	05	10 00	10	20 00
<i>o.</i>	20	3,200 00	25	4,000 00	30	4,800 00
<i>p.</i>	40 00	160 00	35 00	140 00	30 00	120 00
		\$21,365 00		\$22,125 00		\$23,190 00

Weaving, Booth & Parry, Medford, Mass.		D. O'Connell, Dorchester, Mass.		Little & Ellis, Boston, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 80	\$14,400 00	\$0 71	\$12,780 00	\$0 75	\$13,500 00
<i>b.</i>	90	1,800 00	1 30	2,600 00	1 75	3,500 00
<i>c.</i>	1 00	300 00	2 00	600 00	3 50	1,050 00
<i>e.</i>	3 00	150 00	3 00	150 00	4 00	200 00
<i>f.</i>	3 00	150 00	5 00	250 00	7 00	350 00
<i>g.</i>	3 00	60 00	5 00	100 00	9 00	180 00
<i>h.</i>	5 00	900 00	5 25	945 00	6 00	1,080 00
<i>j.</i>	4 50	900 00	4 00	800 00	3 50	700 00
<i>k.</i>	3 00	60 00	5 00	100 00	5 00	100 00
<i>l.</i>	09	1,980 00	15	3,300 00	10	2,200 00
<i>n.</i>	05	10 00	10	20 00	10	20 00
<i>o.</i>	20	3,200 00	25	4,000 00	40	6,400 00
<i>p.</i>	20 00	80 00	35 00	140 00	25 00	100 00
		\$23,990 00		\$25,785 00		\$29,380 00

Caucuss of Bids for Building Portion of Section 6, Medford Sewerage System, June 5, 1885.		Lindsey & Cudmore, Somerville, Mass.	
Items.	Quantities.	Price.	Amount.
<i>a.</i> Earth excavation, 0-8 ft.	10,000 cu. yds.	\$0 48	\$4,800 00
<i>b.</i> Earth excavation, 8-14 ft.	2,200 cu. yds.	75	1,650 00
<i>c.</i> Earth excavation, 14-20 ft.	200 cu. yds.	1 00	200 00
<i>e.</i> Rock excavation, 0-8 ft.	50 cu. yds.	3 00	150 00
<i>f.</i> Rock excavation, 8-14 ft.	50 cu. yds.	3 00	150 00
<i>g.</i> Rock excavation, 14-20 ft.	20 cu. yds.	3 00	60 00
<i>i.</i> Brick, cu. yds.	110 cu. yds.	4 50	495 00
<i>j.</i> Concrete	120 cu. yds.	3 00	360 00
<i>k.</i> Rubble	10 cu. yds.	1 00	10 00
<i>l.</i> Pipe sewers, 6-12 in.	11,500 lin. ft.	05	575 00
<i>n.</i> Pipe chimneys, V. ft.	200 ver. ft.	05	10 00
<i>o.</i> Sub-drain laid	4,000 lin. ft.	12	480 00
<i>p.</i> Spruce lumber	4 M. B. M.	35 00	140 00
Totals			\$9,080 00

A. W. Bryne, West Medford, Mass.		Weaving, Booth & Parry, Medford, Mass.		D. O'Connell, Dorchester, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.
<i>a.</i> \$0 45	\$4,500 00	\$0 60	\$6,000 00	\$0 52	\$5,200 00
<i>b.</i> 72	1,584 00	65	1,430 00	1 00	2,200 00
<i>c.</i> 1 00	200 00	65	130 00	1 50	300 00
<i>e.</i> 10	5 00	4 00	200 00	3 00	150 00
<i>f.</i> 10	5 00	5 00	250 00	5 00	250 00
<i>g.</i> 10	2 00	5 00	100 00	5 00	100 00
<i>i.</i> 6 00	660 00	5 00	550 00	5 00	550 00
<i>j.</i> 3 00	360 00	3 50	420 00	4 00	480 00
<i>k.</i> 10	1 00	3 00	30 00	4 00	40 00
<i>l.</i> 15	1,725 00	07	805 00	10	1,150 00
<i>n.</i> 10	20 00	05	10 00	10	20 00
<i>o.</i> 15	600 00	15	600 00	20	800 00
<i>p.</i> 40 00	160 00	20 00	80 00	30 00	120 00
	\$9,822 00		\$10,605 00		\$11,360 00

REPORT OF CITY ENGINEER.

F. L. Allen, Worcester, Mass.			D. F. McCarthy, Lawrence, Mass.		Little & Emie, Boston, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.	
<i>a.</i>	\$0 50	\$5,000 00	\$0 60	\$6,000 00	\$0 60	\$6,000 00
<i>b.</i>	90	1,980 00	90	1,980 00	1 60	3,520 00
<i>c.</i>	1 50	300 00	1 00	200 00	3 00	600 00
<i>e.</i>	5 00	250 00	4 00	200 00	4 00	200 00
<i>f.</i>	5 50	275 00	5 00	250 00	7 00	350 00
<i>g.</i>	6 50	130 00	5 00	100 00	9 00	180 00
<i>i.</i>	5 00	550 00	6 00	660 00	6 00	660 00
<i>j.</i>	4 50	540 00	5 00	600 00	3 50	420 00
<i>k.</i>	3 00	30 00	4 00	40 00	5 00	50 00
<i>l.</i>	10	1,150 00	12	1,380 00	08	920 00
<i>n.</i>	05	10 00	10	20 00	10	20 00
<i>o.</i>	30	1,200 00	30	1,200 00	30	1,200 00
<i>p.</i>	40 00	160 00	30 00	120 00	25 00	100 00
		\$11,575 00		\$12,750 00		\$14,220 00

F. A. Snow, Boston, Mass.		
	Price.	Amount.
<i>a.</i>	\$0 60	\$6,000 00
<i>b.</i>	90	1,980 00
<i>c.</i>	1 50	300 00
<i>e.</i>	1 50	75 00
<i>f.</i>	2 00	100 00
<i>g.</i>	2 00	40 00
<i>i.</i>	5 00	550 00
<i>j.</i>	5 00	600 00
<i>k.</i>	6 00	60 00
<i>l.</i>	5 00	57,500 00
<i>n.</i>	10	20 00
<i>o.</i>	20	800 00
<i>p.</i>	45 00	180 00
		\$68,205 00

Canvass of Bids for Building Part of Section 10, Medford Sewerage System, October 21, 1895.		A. W. Bryne Cons. Co., Boston, Mass.	
Items.	Quantities.	Price.	Amount.
<i>a.</i> Earth excavation, 0-8 ft.	2,000 cu. yds.	\$0 60	\$1,200 00
<i>b.</i> Earth excavation, 8-14 ft.	540 cu. yds.	80	432 00
<i>c.</i> Earth excavation, 14-20 ft.	83 cu. yds.	1 20	99 60
<i>e.</i> Rock excavation, 0-8 ft.	20 cu. yds.	2 00	40 00
<i>f.</i> Rock excavation, 8-14 ft.	10 cu. yds.	4 00	40 00
<i>g.</i> Rock excavation, 14-20 ft.	10 cu. yds.	5 00	50 00
<i>i.</i> Brick	33 cu. yds.	6 00	198 00
<i>j.</i> Concrete	10 cu. yds.	4 00	40 00
<i>l.</i> Pipe sewers, 8-12 in.	2,260 lin. ft.	12	271 20
<i>n.</i> Pipe chimneys	50 lin. ft.	10	5 00
<i>o.</i> Sub-drain pipe laid	2,260 lin. ft.	15	339 00
<i>p.</i> Spruce lumber in place	B. M. 2 M. ft.	40 00	80 00
Totals			\$2,794 80

H. A. Hanscom & Co.,
West Medford, Mass.

	Price.	Amount.
<i>a.</i>	\$0 80	\$1,600 00
<i>b.</i>	1 20	648 00
<i>c.</i>	2 00	166 00
<i>e.</i>	4 00	80 00
<i>f.</i>	5 00	50 00
<i>g.</i>	7 00	70 00
<i>i.</i>	4 50	148 50
<i>j.</i>	6 00	60 00
<i>l.</i>	10	226 00
<i>n.</i>	10	5 00
<i>o.</i>	15	339 00
<i>p.</i>	40 00	80 00
		\$3,472 50

Canvass of Bids for Construction of Drain in Central Avenue Extension and Spring Street, August 10, 1896.			Charles R. Gow.	
Items.	Quantities used in comparison of Bids.	Price.	Amount.	
<i>a.</i> Earth excavation	8,000 cu. yds.	\$0 63	\$5,040 00	
<i>i.</i> Brick masonry	600 cu. yds.	4 20	2,520 00	
<i>j.</i> Concrete masonry	900 cu. yds.	3 90	3,510 00	
<i>o.</i> Sub-drain	3,300 lin. ft.	18	594 00	
Totals			\$11,664 00	

A. W. Bryne Cons. Co.		John Sheehan & Co.		Trumbull & Ryan.		Edward McManus.	
Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.
<i>a.</i> \$0 60	\$4,800 00	\$1 00	\$8,000 00	\$1 07	\$8,560 00	\$1 00	\$8,000 00
<i>i.</i> 5 00	3,000 00	6 00	3,600 00	6 50	3,900 00	6 00	3,600 00
<i>j.</i> 5 00	4,500 00	6 50	5,850 00	4 57	4,113 00	6 50	5,850 00
<i>o.</i> 40	1,320 00	12	396 00	75	2,475 00	50	1,650 00
	\$13,620 00		\$17,846 00		\$19,048 00		\$19,100 00

Comparison of Actual Cost with that upon Basis of the Two Lower Bids.		Charles R. Gow.	
Items.	Quantities used in construction.	Price.	Amount.
<i>a.</i> Earth excavation . . .	8,678.37 cu. yds.	\$0 63	\$5,467 37
<i>i.</i> Brick masonry . . .	689.1 cu. yds.	4 20	2,894 22
<i>j.</i> Concrete masonry . . .	896.62 cu. yds.	3 90	3,496 82
<i>o.</i> Sub-drain . . .	4,219 lin. ft.	18	759 42
<i>l.</i> Laying C. B. connections	210 lin. ft.		12 60
<i>q.</i> Lumber left in place . . .	43 M.		559 00
Totals			\$13,189 43
Cost to city			\$11,989 04

A. W. Bryne Cons. Co.

	Price.	Amount.
<i>a.</i>	\$0 60	\$5,207 02
<i>i.</i>	5 00	3,445 50
<i>j.</i>	5 00	4,483 10
<i>o.</i>	40	1,687 60
<i>l.</i>		12 60
<i>q.</i>		559 00
		\$15,394 82

Bids for Relaying Spot Pond Main received April 1, 1893.		Edward McManus, Waterbury, Conn.	
Items.	Quantities.	Price.	Amount.
a. Earth excavation	2,700 cu. yds.	\$1 00	\$2,700 00
b. Rock excavation	2,400 cu. yds.	4 00	9,600 00
c. Laying pipe	2,220 cu. yds.	1 54	3,418 80
c. Brick masonry	26 cu. yds.	6 00	156 00
Totals			\$15,874 80

F. A. Snow, Boston, Mass.		Edward McManus, Waterbury, Conn.		F. A. Snow, Boston, Mass.	
Price.	Amount.	Price.	Amount.	Price.	Amount.
a. \$0 90	\$2,430 00	80	2,160 00	\$0 80	\$2,160 00
b. 6 50	15,600 00	3 75	9,000 00	6 00	14,400 00
c. 35	777 00	1 54	3,418 80	35	777 00
e. 7 00	182 00	6 00	156 00	7 00	182 00
	\$18,989 00		\$14,734 80		\$17,519 00

Edward McManus, Waterbury, Conn.		F. A. Snow, Boston, Mass.	
Price.	Amount.	Price.	Amount.
a. \$0 80	\$2,160 00	\$0 70	\$1,890 00
b. 3 75	9,000 00	6 00	14,400 00
c. 1 54	3,418 80	35	777 00
e. 6 00	156 00	7 00	182 00
	\$14,734 80		\$17,249 00

For finishing July 1, August 1 and September 1, respectively.

Joseph Bruno.		Trumbull & Ryan, Boston, Mass.		A. W. Bryne, West Medford, Mass.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
a.	\$1 85	\$4,995 00	\$0 65	\$1,755 00	\$0 70	\$1,890 00
b.	5 00	12,000 00	6 65	15,960 00	5 50	13,200 00
c.	85	1,887 00	70	1,554 00	2 00	4,440 00
e.	10 00	260 00	5 00	130 00	6 00	156 00
		\$19,142 00		\$19,399 00		\$19,686 00
a.	\$1 75	\$4,725 00	\$0 55	\$1,485 00	\$0 60	\$1,620 00
b.	4 75	11,400 00	6 05	14,520 00	5 00	12,000 00
c.	80	1,776 00	65	1,443 00	2 00	4,440 00
e.	9 50	247 00	5 00	130 00	6 00	156 00
		\$18,148 00		\$16,578 00		\$18,216 00
a.	\$1 75	\$4,725 00	\$0 45	\$1,215 00	\$0 60	\$1,620 00
b.	4 50	10,800 00	5 50	13,200 00	5 00	12,000 00
c.	75	1,665 00	60	1,332 00	2 00	4,440 00
e.	9 00	234 00	5 00	130 00	6 00	156 00
		\$17,424 00		\$15,877 00		\$18,216 00
Daniel J. Cronin, Boston, Mass.		Weaving, Booth & Co. Medford, Mass.		Frank L. Allen & H. S. French, Warester and Newtonville.		
Price.	Amount.	Price.	Amount.	Price.	Amount.	
a.	\$1 00	\$2,700 00	\$1 30	\$3,510 00	\$0 50	\$1,350 00
b.	7 50	18,000 00	9 00	21,600 00	7 50	18,000 00
c.	50	1,110 00	50	1,110 00	6 07	13,475 00
e.	6 00	156 00	6 00	156 00	8 00	208 00
		\$21,966 00		\$26,376 00		\$33,033 00
a.	\$0 95	\$2,565 00	\$1 10	\$2,970 00	\$0 50	\$1,350 00
b.	7 00	16,800 00	8 00	19,200 00	7 50	18,000 00
c.	50	1,110 00	50	1,110 00	4 86	10,789 00
e.	6 00	156 00	6 00	156 00	8 00	208 00
		\$20,631 00		\$23,436 00		\$30,347 00
a.	\$0 88	\$2,376 00	\$0 90	\$2,430 00	\$0 50	\$1,350 00
b.	6 50	15,600 00	6 50	15,600 00	7 50	18,000 00
c.	50	1,110 00	50	1,110 00	3 65	8,103 00
e.	6 00	156 00	6 00	156 00	8 00	208 00
		\$19,242 00		\$19,296 00		\$27,661 00

TABLE SHOWING SIZES, LENGTHS,

Section.	Location.	From.	To.	Built by.
1	Fifth street	Cradock avenue	Sta. 7+26	R. Falvey
1	Fourth street	Cradock avenue	Sta. 6+83	"
1	Cradock avenue	Metropol'n sewer	Sixth street	"
1	Sixth street	Cradock avenue	Sta. 8+23	"
1	Middlesex avenue	Eighth street	Seventh street	"
2	Middlesex avenue	Third street	Seventh street.	"
2	Middlesex avenue	Third street	Second street	"
2	Third street	Middlesex avenue	Bradbury avenue	"
2	Third street	Middlesex avenue	Sta. 6+26	"
2	Bradbury avenue	Third street	Riverside avenue	"
2	Riverside avenue, e'ly	Bradbury avenue	Sta. 5+0	"
2	Riverside av., w'ly	Bradbury avenue	Sta. 3+27	"
2	Fourth street	Bradbury avenue	Sta. 4+90	"
2	Second street	Middlesex avenue	Sta. 5+83	"
5	Park street court	Park street	End	A. W. Bryne
5	Sherman place	Spring street	End	"
5	Revere place	Salem street	End	"
5	Dudley street	Central avenue	Washington st.	"
5	Dudley street	Central avenue	Salem street	"
5	Otis street	Central avenue	Washington st.	"
5	Otis street	Central avenue	Salem street	"
5	Farragut avenue	Central avenue	Salem street	"
5	Garfield avenue	Central avenue	Salem street	"
5	Logan avenue	Central avenue	Washington st.	"
5	Grant avenue	Central avenue	Hooker street	"
5	Grant avenue	Hooker street	Salem street	"
5	Sheridan avenue	Central avenue	Hooker street	"
5	Sheridan avenue	Hooker street	Salem street	"
5	Hooker street	Spring street	Sheridan avenue	"
5	Newton street	Central avenue	Lawrence street	"
5	Newton street	Lawrence street	Washington st.	"
5	Daisy street	Central avenue	Lawrence street	"
5	Daisy street	Lawrence street	Washington st.	"
5	Lawrence street	Spring street	Newton street	"
5	Lawrence street	Spring street	Poole street	"
5	Lawrence street	Poole street	Pinkert street	"
5	Lawrence street	Pinkert street	Chestnut avenue	"
5	Pinkert street	Lawrence street	Myrtle street	"

COST, ETC., OF SEWERS BUILT IN 1895.

Size.	Length.	No. of Inlets.	Sub-drain.		Average cut.	Rock Excavation.	Cost.	Cost per foot.	Manholes.	Remarks.
			Size.	Length						
In.			In.	Feet.	Cu. yds.					
8	726	47		10.4		\$907 98	\$1 25	3	Dry	
8	683	49		9.8	1.0	\$32 64	1 22	3	Wet	
{ 12	24	25	8	881	13.9	†3,290 05	3 82	5	"	
8	838	64	6	297	8.5	1,128 52	1 37	4	"	
8	280	19		9.3	0.7	356 58	1 27	2	Dry	
{ 8	1,133	74	4	193	10.5	†1,595 13	1 40	5	Wet and dry	
12	271	9	{ 5	20	12.5	524 17	1 93	1	Wet	
8	575	38	{ 4	24	8.9	662 47	1 15	1	"	
8	626	42			9.9	880 78	1 41	2	Dry	
8	568	34	4	77	10.4	798 39	1 40	3	Wet	
8	500	31			9.3	593 33	1 19	2	Dry	
8	327	14			9.4	430 43	1 31	2	"	
8	490	29			10.4	577 57	1 18	2	"	
8	583	44	6	596	9.7	966 62	1 66	2	Wet	
8	315	22	3	260	9.0	519 70	1 65	2	"	
8	480	30	3	300	6.8	742 42	1 55	3	"	
8	326	24			7.4	396 81	1 22	2	Dry	
8	882	53	{ 5	132						
			{ 4	140	7.9	1,075 65	1 22	3	Wet	
			{ 3	104						
8	714	50	{ 5	424	8.5	1,054 47	1 48	3	"	
			{ 4	135						
			{ 5	212						
8	930	64	{ 4	494	8.2	1,317 54	1 42	4	"	
			{ 3	20						
			{ 5	320						
8	856	64	{ 4	409	8.1	1,220 41	1 43	3	"	
			{ 3	80						
8	980	76	4	767	8.2	1,392 98	1 42	4	"	
8	927	59	4	463	7.8	1,200 49	1 30	4	"	
8	1,000	69	4	702	8.1	1,385 67	1 36	4	"	
8	530	38	4	527	7.5	749 33	1 41	2	"	
8	550	37	{ 6	155	8.3	795 81	1 45	2	"	
			{ 4	300						
8	580	45			8.0	827 71	1 43	2	Dry	
8	440	35	4	338	8.9	676 32	1 54	2	Wet	
8	504	34	6	501	9.4	845 52	1 68	2	"	
8	787	50	{ 6	338	6.6	1,041 90	1 32	4	"	
			{ 4	281						
8	261	18	4	261	8.0	392 29	1 50	1	"	
8	765	60	4	765	6.8	1,080 16	1 41	4	"	
8	250	16	4	148	9.6	382 81	1 53	1	"	
8	483	18	6	483	12.4	980 87	2 03	2	"	
8	734	25	6	734	14.3	1,858 82	2 53	3	"	
8	468	34	6	468	7.1	713 81	1 53	2	"	
8	214	16	6	214	5.5	294 33	1 38	1	"	
8	255	19	6	255	6.3	335 69	1 32	1	"	

TABLE SHOWING SIZES, LENGTHS,

Section.	Location.	From.	To.	Built by.
5	Pinkert street ext.	Lawrence street	End	A. W. Bryne
5	Myrtle street	Pinkert street	Spring street	"
5	Gibson street	Spring street	End	"
5	Magoun avenue	Spring street	Pembroke street	"
5	Almont street	Salem street	Valley street	"
5	Cherry street	Salem street	Valley street	"
5	Newcomb street	Franklin street	Sta. 2+34	Morgan & Booth Con.Co.
5	Vine street	Franklin street	Sta. 5+59	"
6	Riverside avenue	Park street, w'ly.	Sta. 14+95	Lindsey & Cud- more
6	Riverside avenue	Park street	Foster's court	"
6	Magoun avenue	Thatcher st., w'ly	Sta. 2+43	"
6	Magoun avenue	Thatcher st., e'ly	Sta. 4+61	"
6	Cushing street	Pembroke st., e'ly	Sta. 3+63	"
6	Cushing street	Abbott street	Thatcher street	"
6	Cushing street	Abbott street	Pembroke street	"
6	Ship avenue	Marine av., w'ly	Sta. 3+13	"
6	Ship avenue	Marine av., e'ly	Sta. 8+00	"
6	Pembroke street	Riverside avenue	Sta. 8+80	"
6	Sables court	Riverside avenue	Sta. 2+50	"
6	Lapham street	Riverside avenue	Sta. 4+30	"
6	Abbott street	Riverside avenue	Cushing street	"
6	Marine avenue	Riverside avenue	Ship avenue	"
6	Cross street	Riverside avenue	Sta. 3+50	"
6	Thatcher street	Park street	Angle	"
6	Thatcher street	Cushing street	Magoun avenue	"
6	Cudworth street	Riverside avenue	Sta. 3+00	"
6	Pleasant street	Riverside avenue	Sta. 10+00	"
6	Bradshaw street	Pembroke street	Sta. 9+66	"
7	Allen court	Salem street	Sta. 3+00	Morgan & Booth Con.Co.
7	Ash street	Webster street	Sta. 2+91	"
7	Ashland place	Ashland street	Sta. 2+50	"
7	Chestnut street	Oakland street	Sta. 3+70	"
7	Court street	Gravelly creek	Sta. 4+80	"
7	Court street	Tainter street	Sta. 7+00	"
7	Cross street	Washington st.	Lauriat place	"
7	Everett street	Tainter street	Sta. 8+00	"
7	Fifield court	Salem street	Sta. 1+50	"
7	Fountain street	Webster street	Sta. 5+50	"
7	Fountain street	Water street	Sta. 6+31	"
7	Fulton street	Gravelly creek	Sta. 2+14	"
7	Fulton street	Webster street	Water street	"

COST, ETC., OF SEWERS BUILT IN 1895.—CONTINUED.

Size.	Length.	No. of Inlets.	Sub-drain.		Average cut.	Rock Excavation.	Cost.	Cost per foot.	Manholes.	Remarks.
			Size.	Length						
<i>In.</i>			<i>In.</i>		<i>Feet.</i>	<i>Cu. yds.</i>				
8	274	22	6	38	5.1		\$343 97	1 26	1	Wet
			4	236						
8	1,145	93	6	30	8.2		1,550 54	1 35	5	"
			4	585						
8	1,300	56	6	1,300	10.9		2,526 94	1 94	5	"
			4	20						
8	1,025	56	6	20	9.8		1,570 70	1 53	4	"
			4	531						
8	1,200	91	6	221	6.4		1,321 95	1 10	5	"
			4	785						
8	1,022	70	4		6.9		1,318 14	1 29	5	"
8	234	16			8.8		251 95	1 07	1	Wet and dry
8	559	45	4	133	8.8		679 87	1 24	3	"
8	1,495	70	6	822	11.8		2,820 77	2 89	6	"
10	1,330	69	6	1,330	11.1		2,684 20	2 02	6	Wet
8	243	18			8.8		289 90	1 19	1	Dry
8	461	30	4	137	9.2		600 18	1 30	2	Wet and dry
8	363	21	4	35	9.3		473 48	1 30	2	"
8	321	21			10.8		413 12	1 29	1	"
8	243	17			11.0		350 68	1 44	1	Wet
8	313	24	4	313	7.5		419 77	1 34	1	"
8	800	58	6	58	6.1		709 91	89	3	Wet and dry
			4	189						
8	880	60	4	503	9.7	2.4	1,240 88	1 41	3	Wet
6	250	18			10.4		310 43	1 24	1	Dry
8	430	30	4	174	9.1		570 47	1 32	2	Wet and dry
8	431	28	4	84	11.8		705 70	1 64	2	"
8	193	12	6	193	9.3		286 66	1 49	1	Wet
8	350	24			11.3		512 20	1 46	2	Dry
8	299	21			8.0		305 24	1 02	1	"
8	355	21	4	194	9.0		514 03	1 45	3	Wet and dry
8	300	24			9.2		337 04	1 12	1	Dry
8	1,000	73			9.0		1,217 22	1 22	5	"
8	966	70	4	650	8.6		1,280 24	1 33	5	Wet
8	300	20			8.5		336 08	1 12	2	Dry
8	291	20			2.8		276 64	95	1	"
8	250	19			9.7		287 68	1 15	1	"
8	370	26			8.0		383 54	1 04	2	"
8	480	36	4	260	7.2		621 44	1 29	2	Wet and dry
8	700	55			9.9		813 89	1 16	3	Dry
8	445	22	4	279	12.7		872 38	1 96	2	Wet and dry
8	800	66			10.5		957 26	1 07	3	Dry
6	150	6			8.4		175 51	1 17	1	Wet
8	550	43			6.9		491 24	89	2	Dry
8	631	48			8.8		684 00	1 08	3	"
8	214	16	4	147	7.1		303 56	1 42	1	Wet
8	596	47	4	*150	8.0		776 15	1 30	3	Wet and dry

TABLE SHOWING SIZES, LENGTHS,

Section.	Location.	From.	To.	Built by.
7	Fulton street	Water street	Salem street	Morgan & Booth Con.Co.
7	Garden street	Oakland street	Sta. 3+60	"
7	Gravelly creek	Water street	Sta. 7+96	"
7	Hadley place	Salem street	Sta. 3+13	"
7	Hall avenue	Forest street	Sta. 6+50	"
7	Intervale avenue	King street	Sta. 3+00	"
7	King avenue	Forest street	Woodland avenue	"
7	Lauriat place	Cross street	Sta. 3+00	"
7	Oak Bluff	Oakland street	Sta. 2+50	"
7	Oakland street	Salem street	Oak Bluff	"
7	Oakland street	Water street	Oak Bluff	"
7	Paris street	Gravelly creek	Sta. 9+64	"
7	Riverside avenue	Gravelly creek	Sta. 3+97	"
7	Tainter street	Fulton street	Court street	"
7	Tainter street	Park street, e'ly	Sta. 3+02	"
7	Tainter street	Park street, w'ly	Sta. 3+30	"
7	Water street	Forest street	Sta. 6+80	"
7	Water street	Gravelly creek	Oakland street	"
7	Water street	Tufts street	Fulton street	"
7	Water street court	Water street	Sta. 2+13	"
7	Webster street	Gravelly creek	Fulton street	"
7	Woodland avenue	King avenue	Sta. 3+00	"
7	Ashland street	Water street	Chestnut street	"
8	Ashland street	Salem street	Chestnut street	"
8	Brooks's lane	High street	Sta. 4+00	"
8	Grand View avenue	Hillside avenue	Angle	"
8	Grand View avenue	Angle	Sta. 5+72	"
8	Highland avenue	High street	Lincoln street	"
8	Hillside avenue	High street	Sta. 5+58	"
8	Lincoln street	Highland avenue	Sta. 1+80	"
11	Gleason street	Madison street	Sta. 4+25	A. W. Bryne Con. Co.
16	Main street	Ellis avenue	Sta. 1+75	H.A. Hanscom & Co.
16	Main street	Sta. 1+75	Yale street	"
16	Main street	Ellis avenue	City line	"
16	Joseph street	Henry street	Sta. 2+00	"
16	Joseph street	Sta. 2+00	Summit	"
16	Joseph street	Dexter street	Sanger street	"
16	Joseph street	Sanger street	Summit	"
16	Tufts square	Main street	Medford street	"
16	Henry street	Meacham street	Joseph street	"
16	Henry street	Meacham street	Edward street	"
16	Henry street	Edward street	Near Main street	"

COST, ETC., OF SEWERS BUILT IN 1895.—CONTINUED.

Size.	Length.	No. of Inlets.	Sub-drain.		Average cut.	Rock Excavation.	Cost.	Cost per foot.	Manholes.	Remarks.
			Size.	Length						
In.			In.	Feet.	Ct. yds.					
8	503	38		9.0		\$495 24	\$0 98	1	Dry	
8	360	27		9.5		430 01	1 19	2	"	
18	796	27	4	745	4.5	3,127 29	3 93	4	Wet	
8	313	22		7.6		283 63	91	1	Dry	
8	650	38		8.0	65.0	910 16	1 40	3	Wet and dry	
8	300	20		8.0		296 33	99	1	Dry	
8	521	33		6.5		567 39	1 09	2	Wet and dry	
8	300	12		8.7		339 96	1 17	2	Dry	
8	250	18		8.4		243 00	97	1	"	
8	601	47		8.1		706 64	1 02	3	"	
8	318	21		10.3		422 47	1 33	2	"	
8	964	76	4	374	7.2	1,123 74	1 16	4	Wet and dry	
8	397	26		7.7		409 56	1 03	2	Dry	
8	467	32	4	*240	10.1	729 08	1 56	2	Wet and dry	
8	302	24		7.5		291 65	96	1	"	
8	330	26		7.9		416 05	1 26	3	Dry	
8	680	46		5.8		537 30	79	2	"	
8	444	33	4	76	10.0	503 09	1 27	3	Wet and dry	
8	423	28	4	100	10.0	519 79	1 23	2	"	
8	213	16		5.6		186 39	88	1	"	
8	627	45	5	*236	5.3	985 24	1 57	2	Wet	
8	300	16	6	*130	8.1	657 99	2 19	1	Wet and dry	
8	587	41		8.9	90.8	649 25	1 11	2	Dry	
8	639	38		9.5		617 07	97	1	"	
8	397	29		9.0		423 16	1 07	2	"	
8	278	12		7.2	132.60	698 29	2 51	2	"	
6	294	20		8.60	79.80	794 41	2 40	3	"	
8	592	38	4	176	8.60	1,118 04	1 89	3	Wet and dry	
8	557	27		8.3	127.30	1,061 64	1 91	3	Dry	
8	180	8		10.5	41.00	435 32	2 42	1	"	
8	425	32	4	306	8.90	626 64	1 47	2	Wet and dry	
12	175	9	8	*175	11.20	486 06	2 77	2	Wet	
8	1,598	99	4	780	10.0	2,254 01	1 43	7	Wet and dry	
8	2,264	135	6	*2,080	8.8	722.8	6,104 09	2 70	11	Wet
8	200	16		8.6	97.1	532 49	2 66	1	Wet and dry	
6	200	12		8.50	99.2	495 74	2 48		Dry	
8	250	13		8.5	179.7	885 44	3 54	2	"	
6	100	6		8.2	56.4	318 26	3 18	1	"	
12	121	2		10.0		327 11	2 70	1	Wet	
8	80	3		8.2	24.1	256 54	3 20	2	Dry	
8	267	16	4	210	8.90	355 20	1 33	1	Wet	
6	244	17	4	14	8.5	800 47	3 28	1	"	

TABLE SHOWING SIZES, LENGTHS,

Section.	Location.	From.	To.	Built by.
16	Overflow	Morton avenue	Newburn avenue	H.A. Hanscom & Co.
16	Newburn avenue	Medford street	Near Winchester street	"
16	Newburn avenue	Winchester street	B. & M. R.R.	"
16	Sanger street	Joseph st., e'ly		"
16	Sanger street	Joseph street	Summit	"
16	Sanger street	Edward street	Summit	"
16	Dexter street	Main street	Joseph street	"
16	Dexter street	Adams street, e'ly	Sta. 2+50	"
16	Dexter street	Sta. 2+50	Near Main street	"
16	Dexter street	Adams street, w'ly	City line	"
16	Marion street	Main street	Near Winchester street	"
16	Alfred street	Newburn avenue	W. Albion street	"
16	Alfred street	W. Albion street	City line	"
16	Edward street	Dexter street	Edward place	"
16	Edward street	Edward place	Sanger street	"
16	Edward street	Henry street	Leyden street	"
16	Edward street	Leyden street	Near Sanger st.	"
16	Edward street	Bennett street	North sta. 1+46	"
16	Edward street	Bennett street	South, near Dexter street	"
16	W. Albion street	Main street	Near Medford st.	"
16	W. Albion street	Medford street	Near Alfred street	"
16	W. Albion street	Alfred street	City line	"
16	Wareham street	Main street	Summit	"
16	Wareham street	Winchester street	Summit	"
16	Morton avenue	Medford street	Sta. 6+86	"
16	Morton avenue	Sta. 6+86	Sta. 9+00	"
16	Morton avenue	Sta. 9+00	Near Winchester street	"
16	Harvard street	Main street	Summit	"
16	Harvard street	Winchester street	Summit	"
16	Yale street	Main street	Dartmouth street	"
16	Medford street	Morton avenue	City line	"
16	Private land	Morton avenue	Granville avenue	"
16	Granville avenue	Private land	Winchester street	"
16	Metropolitan connection and regulator	Mystic avenue		"
16	Winchester street	Granville avenue	Harvard street	"
16	Winchester street	Granville avenue	City line	"
16	William street	Albion street	Sta. 4+00	"
16	William street	Sta. 4+00	City line	"
16	Leyden street	Edward street	Near Joseph st.	"

COST, ETC., OF SEWERS BUILT IN 1895.—CONTINUED.

Size.	Length.	No. of Inlets.	Sub-drain.		Average cut.	Rock Excavation.	Cost.	Cost per foot.	Manholes.	Remarks.
			Size.	Length.						
In.			In.	Feet.		Cu. yds.				
12	230	3		6.2			\$307 33	\$1 34	1	Dry
8	1,010	60	{ 6 8	*375 *335	8.4	2.7	1,505 93	1 49	4	Wet and dry
8	235	16	4	*238	9.0	0.5	333 30	1 42	1	"
8	113	8			7.4	62.0	338 41	2 99	1	Dry
6	140	8			8.4	57.3	294 50	2 10	1	"
6	210	14			8.3	138.3	673 25	3 21	1	"
8	700	36	6	*350	9.0	513.3	2,609 53	3 73	2	Wet and dry
8	250	16	6	*250	9.5	27.2	462 23	1 85	1	Wet
6	140	12	4	*141	8.5	29.5	342 78	2 45	1	"
6	325	24	4	*270	8.3		437 53	1 35	2	Wet and dry
8	1,241	71	4	598	10.0	10.6	1,663 44	1 34	4	Wet
8	408	30	6	*412	8.6		548 41	1 34	2	"
6	270	18	5	*115	9.0		314 76	1 16	1	Wet and dry
8	160	9	4	*160	8.7	102.8	598 41	3 74	1	Wet
6	91	5	4	*9	7.8		283 70	3 12	1	Dry
8	251	15	4	114	10.0	119.2	754 13	3 00	1	Wet and dry
6	222	18			8.9	75.2	509 56	2 30	1	Dry
8	146	12			6.7	3.0	170 74	1 17	1	"
8	294	21			7.7	29.1	391 69	1 33	1	"
8	364	18	{ 4 6	304 *60	8.8	113.8	956 29	2 63	2	Wet
6	640	32	6	640	8.9	2.0	923 11	1 44	3	"
8	245	19			8.6		363 35	1 48	1	Wet and dry
8	550	39			8.7	0.5	561 97	1 02	2	Dry
8	796	56	6	*461	7.9		950 30	1 19	3	Wet
12	686	47	4	265	7.3		2,370 70	3 46	3	"
8	214	16	4	20	8.2	1.5	255 32	1 19	1	"
6	195	9	4	196	9.7	92.8	670 84	3 44	1	"
8	601	42			8.9	1.6	675 07	1 12	3	Dry
8	794	50	6	*180	10.2		983 05	1 24	2	Wet
8	403	30			9.5		441 62	1 10	2	Dry
8	1,545	102	{ 4 6	*1,056	8.7	30.0	2,071 93	1 34	6	Wet and dry
12	192	4	4	14	3.0		892 84	4 65	1	Wet
12	524	34	10	*373	6.5	1.5	1,676 57	3 20	3	"
20	36		4	70	17.4	3.0	7915 86	25 44	2	"
12	971	34	10	*979	13.3	1.0	3,452 15	3 56	7	"
8	764	39	6	*770	10.0		1,273 21	1 67	5	"
8	400	28	{ 4 6	*353	9.2		576 13	1 44	2	Wet and dry
6	200	14			9.0		207 11	1 04	1	Dry
8	300				9.1	113.3	727 48	2 42	1	"

TABLE SHOWING SIZES, LENGTHS,

Section.	Location.	From.	To.	Built by.
16	Leyden street ext.	Marsh line	E. Albion street	H.A. Hanscom & Co.
16	Ellis avenue and Tr. sewer	Mystic avenue	Main street	"
16	Clayton avenue	Medford street	Near Alfred street	"
16	Adams street	Albion street	Dexter street	"
16	Wheeler avenue	Adams street	Near Medford st.	"
16	Harvard street	Winchester street	Boston avenue	A. W. Bryne Con. Co.
16	Harvard street	Boston avenue	Sta. 6+10	"
16	Higgins avenue	Adams street	Near Medford st.	H.A. Hanscom & Co.
16	Boston avenue	Harvard street	Sta. 2+95	A. W. Bryne Con. Co.
16	Park avenue	Ellis avenue	E. Albion street	H.A. Hanscom & Co.
16	E. Albion street	Park avenue	Sta. 7+00	"
16	Bennett street	E. Albion street	Edward street	"
16	Court north of Marion street	Winchester street	B. & M. R.R.	"
16	Court south of Marion street	Winchester street	B. & M. R.R.	"
16	Private land	Harvard street	City line	A. W. Bryne Con. Co.
16	Centre avenue	Park avenue	Sta. 1+23	H.A. Hanscom & Co.
5	Central avenue extension and Spring st. †			Day work
	Totals			

The cost includes all items, excepting land takings.

Cost of Sewer Assessments to date, \$3,235 84.

* Free outfall for underdrain.

† Includes cost of Regulator at Metropolitan sewer.

‡ This construction paid for jointly by "Sewer Construction" and "Brooks and Streams," in about proportion of 4-5 and 1-5—lengths and cost given being so proportioned.

COST, ETC., OF SEWERS BUILT 1895.—CONTINUED.

Size.	Length.	No. of Inlets.	Sub-drain.		Average cul.	Rock Excavation.	Cost.	Cost per foot.	Manholes.	Remarks.
			Size.	Length						
8	336	20	4	327	9.2	19.7	\$465 85	\$1 39		Wet
15	2,640	156	4	1,828	7.4	18.9	8,018 72	3 42	9	"
8	640	43	6	*646	8.4	19.6	968 24	1 51	3	"
8	858	47	6	*867	9.7	275.6	2,550 13	2 97	6	"
8	275	18	4	*275	8.0	14.6	424 26	1 54	1	"
12	393	16	10	*397	10.0	39.3	1,163 92	2 96	3	"
10	217	4	8	*225	15.6	161.8	1,337 13	6 16	1	"
6	275	18	4	*280	7.6	53.4	553 64	2 01	1	"
8	295	20	6	*296	9.6	0.5	521 67	1 77	1	"
8	576	39	6	576	6.8	9.9	751 71	1 30	2	"
8	700	49	6	704	7.5	2.5	968 43	1 38	4	"
8	293	17	4	215	7.8	33.4	528 34	1 80	3	Wet and dry
6	161	10	4	*161	7.8		237 58	1 48	1	Wet
6	165	5	4	*165	10.3		277 97	1 68	1	"
10	442	16	8	*449	12.0	29.7	1,307 44	2 95	3	"
8	123	9	6	124	7.5		142 09	1 16		"
	\$2,620		8							
			12	3,375	9.0		18,142 29	6 92	10	
	93,710	5,797		47,933		4,266.2	\$172,646 89		420	

§ 4 ft., 6 in. x 4 ft., 6 in. and 4 ft., 6 in. x 4.
 Total length built 1895, 93,710 ft. or 17.746 miles. Cost per foot, \$1.81. Cost per mile, \$9,728 78.
 Total length built to date, 141,576 ft. = 26.814 miles.
 Total cost, unsettled land takings excepted, \$259,010 65; cost per foot, \$1.83; cost per mile, \$9,689 49.

REPORT
OF THE
PARK COMMISSIONERS.

MEDFORD, Mass., Jan. 31, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—The Board of Park Commissioners respectfully submit their third annual report.

In the early part of the year Magoun Park was extended to Thatcher street by the purchase of 7,500 square feet of land. In April and May Mr. Franklin Brett, of Brookline, was employed as landscape architect to prepare a plan for the development of this park, and Mr. Thomas J. Kelly, of Brookline, was awarded the contract. The board was much pleased with the design and also with the contractor's work. Magoun Park now furnishes a good illustration of the open spaces which should be provided in other parts of the city.

Mr. Edward P. Adams, of Medford, was employed to prepare a plan for the development of Logan Grove. During the coming season the board intend to finish the grading and build the walks, but the completion of the plan will be left for another year. A brick sidewalk has been laid on Otis street.

On November 19, the Medford Park Commission voted to concur with the Metropolitan Park Commission in their taking of additional land for the Middlesex Fells reservation. This addition provides a more suitable boundary and renders possible a boundary parkway from Forest street to the Winchester line.

The board refer to the recommendation of last year relating to the amendment of the park ordinance.

In May, Alvin R. Reed was elected clerk.

We recommend the following appropriations :

Public commons	\$700 00
And the reappropriation of the unexpended balance.	
Logan Grove development	\$1,000 00

Respectfully submitted,

J. HENRY NORCROSS,
 . BENJAMIN C. LEONARD,
 JOHN D. STREET,
 BENJAMIN F. MORRISON,
 ROSEWELL B. LAWRENCE,
Park Commissioners.

REPORT

OF THE

CITY CLERK.

To His Honor the Mayor:

In accordance with the requirements of the city charter, the following annual report, compiled from the records of this department, is respectfully submitted:

BIRTHS.

Whole number born in 1895	413
Number of males	231
Number of females	182
Number of twin births	6

Number Born Each Month.

January, 46	May, 23	September, 36
February, 30	June, 25	October, 46
March, 36	July, 48	November, 30
April, 33	August, 29	December, 31

In 1876 there were reported 111 births. The returns of 1895 show an increase in the birth rate during the last twenty years of 270 per cent.

MARRIAGES.

Number of intentions filed	155
Increase over previous year	24
Both parties residents of Medford	55
But one party resident of Medford	100
Number of marriages registered	163
Increase over previous year	33
Both parties natives of the United States	92

Both parties natives of other countries	37
Native groom and foreign bride	22
Native bride and foreign groom	12
First marriage of	272
Second marriage of	24
Third marriage of	3
Age of oldest groom	65
Age of oldest bride	55
Age of youngest groom	17
Age of youngest bride	15

The registration shows that marriages were consummated by months as follows :

	1894.	1895.		1894.	1895.		1894.	1895.
January,	8	15	May,	3	15	September,	15	21
February,	4	9	June,	29	20	October,	16	27
March,	4	6	July,	6	7	November,	18	19
April,	11	12	August,	11	8	December,	5	4

DEATHS.

Whole number of deaths in 1895	240
Increase over previous year	13
Number of males	135
Number of females	104
Of unknown sex	1
Number of deaths of persons under 1 year of age	51
from 1 to 5 years of age,	16
5 " 10	4
10 " 20	11
20 " 30	13
30 " 40	18
40 " 50	21
50 " 60	32
60 " 70	32
70 " 80	25
80 " 90	13

Number of deaths of persons over 90 years of age 2
 Age unknown 2
 Oldest male, 93 years, 9 months and 3 days.
 Oldest female, 91 years.

Number of Deaths in Each Month.

January, 18	May, 16	September, 27
February, 26	June, 17	October, 21
March, 20	July, 16	November, 16
April, 19	August, 25	December, 19

VOTERS.

The following is a summary of the number of voters and assessed polls in the several wards of the city at the time of the city election of each of the last three years :

Wards.	Voters.			Polls.		
	1893.	1894.	1895.	1894.	1895.	
1	466	457	498	656	829	
2	495	471	456	612	605	
3	440	411	420	537	518	
4	442	423	424	581	627	
5	449	418	457	668	711	
6	466	461	460	616	645	
Total,	2,758	2,641	2,715	3,670	3,783	4,161

The number of women registered as voters during the same period was as follows :

1893.	1894.	1895.
43	52	216

STATE AID.

The list of those being paid State Aid now contains 44 names, and of those drawing Military Aid 6 names, an increase in both accounts since my last report of 4. The total amount paid by the city during the past year on account of these allowances has been as follows :

For State Aid	\$2,068 00
Military Aid	612 00

The first-named of these amounts will be, as the act establishing the aid provides, entirely reimbursed to the city by the State, and of the latter amount, one-half will be repaid from the same source.

RECEIPTS.

The following is a statement of the receipts of this department for licenses and fees during the year 1895.

<i>Dog Licenses.</i>	
638 males at \$2 each	\$1,276 00
47 females at \$5 each	235 00
4 females (spayed) at \$2 each	8 00
1 breeder's license	50 00
	\$1,569 00
Paid to City Collector, fees on 690 licenses at 20 cents each	\$138 00
Paid to Joseph O. Hayden, County Treasurer	1,431 00
	\$1,569 00
<i>Miscellaneous.</i>	
Amusement licenses	\$51 00
6 auctioneer's licenses	12 00
76 carriage, job and express wagon licenses	76 00
20 licenses for sale of fireworks	20 00
3 licenses for intelligence offices	6 00
14 licenses for collection of junk	70 00
1 sixth class liquor license, recorded,	1 00
155 marriage licenses issued at 50 cents,	77 50
4 pool and billiard room licenses	8 00
Receipts for recording mortgages, certificates, etc.	107 25
	\$428 75
Paid City Collector, as per re- ceipts on file	\$428 75

During the past year the vaults, recommended in my last annual report, have been constructed and the city is now to be congratulated on possessing quarters ample and secure, where its records are safe from destruction by any fire which may visit it, so arranged as to be convenient for reference, and kept in such manner as to reduce the wear of the books to a minimum. Several volumes have been repaired by re-binding, etc., but the work of this kind is only yet begun, as most of the older books are sadly worn.

The indexing of the births, deaths and marriages has been commenced, and a system for doing this work by cards established, which I believe, when finished, will give to Medford the most convenient and complete index of such records of any city or town in Massachusetts. The *older* records of this department are very imperfect, and, in some instances, it has required a great deal of study to decipher the entries, but by careful and patient work of an able assistant they are gradually revealing their mysteries.

By the kindness of the Rev. Henry C. DeLong, I have obtained access to the Parish records of the Unitarian Church, a most valuable acquisition and a privilege which should be sincerely appreciated.

I trust that these precious documents and volumes may be permanently deposited in charge of the city, now that there is so secure a place for the care of them, and not be left exposed to the danger of destruction by fire or careless handling.

Careful copies of all the grave and tomb stones in both the Salem and Cross street cemeteries have been taken, to the number of over 1,600, and these would, in themselves, make an interesting and valuable volume if printed and published.

Various other methods of obtaining information and completing entries on the records have been pursued, and are still being carried on, and a large amount of matter which would soon be beyond reach has been obtained.

I called attention last year to the desirability of having

the *old records printed* and published in book form, both for preservation, by thereby multiplying copies, and for general information. This has been undertaken by other cities and towns and it has been found that the profit derived from the number of copies sold has nearly or quite covered the expense of publication.

It is my desire, when the index of the births, deaths and marriages shall have been brought up to date, to undertake the proper indexing, according to the subject matter, of the entries on the official town records, beginning with the first volume and continuing to the time the city was instituted. The records kept since the city was incorporated have all been indexed, and papers kept in a systematic manner, but previous to that time no index or complete file of papers is in existence. The need of one is frequently apparent in the constant necessity of referring to the action of the town in certain instances (acceptance of highways, construction of drains and other important matters), which now have to be searched for through possibly many volumes, causing a great amount of inconvenience and loss of time.

I would recommend for work and expenses for the ensuing year, in connection with these matters which have been referred to, an appropriation of \$600.

I wish to call attention to another important matter in this line, and that is, a proper record of the *roll of the soldiers* who enlisted or served to the credit of Medford in the war of the Rebellion. This service was one of which Medford is justly proud, and the placing upon record of the name of each one of those who so freely gave his services, and in many instances life, for the preservation of our country, together with the account of the branch of the service, the number of the regiment, the company, length of term, etc., is but a slight acknowledgement of our debt of gratitude. I trust that this will receive due consideration, and that action will be taken to carry out such work by a small appropriation.

The ordinances of the city are in a very incomplete and

imperfect condition as they now are, and a revision and proper compilation of them should be undertaken at once.

The edition printed in May, 1894, is practically obsolete, in that, since that time, those published have been materially changed in many particulars—eighteen different amendments having been adopted and several new ordinances added. Experience has shown the desirability of still further improvement when an opportunity such as would be given by a general revision shall occur.

This matter is referred to, not as directly coming under the province of this department, but rather on account of my experience in seeing, and trying to meet, the innumerable demands for printed information in reference to the city ordinances.

The ballot boxes used at the polling places in the various wards, at the several elections held during each year, are another antiquated appendant to the city business. These are samples of the first boxes made for use when the Australian system of balloting was introduced, and the machinery of some of them, from faulty construction or long wear, at every election becomes broken or out of condition, thus causing an annual bill of expense for repairs and necessitating the temporary use at the polls of the old-fashioned ballot box with a sliding cover. The use of the style of boxes which the city owns has been discontinued by the State authorities, and I would respectfully recommend an appropriation of \$300 for the purchase of the improved boxes of the style which is properly authorized by the Secretary of State.

The care of the insurance of city property has been placed under the charge of this department and I would respectfully call attention to certain facts connected therewith.

During the last thirty years there has been paid out in premiums \$18,214.44, beginning with \$90 in 1866 and reaching \$2,188.26 in 1894. During that time there has been but *one* fire in the public buildings of the town or city which was at all serious—that at the almshouse about twelve years

ago—the other slight blazes causing comparatively little or no loss. The value of the *buildings* of the city today at a moderate estimate, calculated by the Board of Assessors, is \$475,000. In addition to this, there is personal property in these buildings estimated to be worth at least \$125,000, making a total of \$600,000.

By a rule of the insurance companies, in order to collect the full amount of insurance in case of loss, property must be covered to at least 80 per cent of its value. In order to meet these requirements, at the estimated valuation, it would need at present an appropriation of over \$2,500 per year to pay the premiums. This is based upon an average rate for the whole, upon five year terms. This amount, of course, will increase each year as new buildings are constructed. Many of the cities have assumed their own risks in consequence of conditions similar to these I have quoted, and I would recommend the further consideration of the plan suggested last year of allowing the present policies carried to expire without renewal, and, while they are still in force, the gradual establishment of an amount to be used as a sinking fund to meet any possible loss. Taking the experience of the last thirty or forty years into consideration, it appears as though the risk would be extremely slight and the profit large.

In closing I wish to bear testimony to the efficiency of the assistance I have received in this department from those employed here, and also to express my thanks to your Honor, the members of the city government and the city officials for the many kindnesses shown.

Respectfully,

ALLSTON P. JOYCE,

Medford, Feb. 1, 1896.

City Clerk.

REPORT
OF THE
WATER COMMISSIONERS.

WATER COMMISSIONERS' OFFICE,
MEDFORD, Feb. 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—The Board of Water Commissioners herewith present their twenty-sixth annual report for the financial year ending January 31, 1896.

It is with pleasure that we announce to you that the work planned to enlarge the water supply is practically finished, with the exception of a small amount of grading about Spot Pond pumping station; however, a portion of this will be done by the contractor, and the remainder by our own men.

Without attempting to estimate the expense of relaying more or less pipe, where cement-lined pipes will be found unable to stand the stand-pipe pressure, we can see no reason why the city should be obliged to borrow, to any extent, more money for this work; although this statement is made without any reference to the taking of new land that may be deemed necessary, and has been considered for some time, or the adjustment of the unsettled account now standing against Malden, Melrose and Medford jointly, for land that has already been acquired.

It has been the custom, since the water works were built, to raise by direct taxation each year the amount of money needed for new construction, or rather extensions of pipes in the streets; we believe this custom can be safely done away with in the near future, and be paid out of the earnings of

the department. This has amounted in recent years to (\$10,000) ten thousand dollars.

Spot Pond is within 20 inches of high water mark, and Wright's Pond is 8 inches above high water mark, making it reasonable to suppose that early in the spring the "great" pond will overflow, and large quantities of water will run to waste at Wright's Pond for want of storage capacity; and, while we desire that all takers be careful and not allow water to run to waste, we can see no reason why it should not be used freely, in supplying all necessary wants, without danger of a water famine.

In addition to this source that we now have under control, there is another that we know of, and think that few of our citizens realize the amount of water that runs to waste yearly from this quarter. We refer to "Meeting-house" Brook, though under the present legislation we would not be able to resort to this without a special permit. This supply would be of great benefit provided a proper storage basin could be arranged for the purpose of saving the water during the spring and fall months. It is the intention of the Commissioners to arrange a weir for the purpose of measuring a greater part of the water that will run to waste there during the coming year, in order that our citizens may have a better idea of the value this source would be to the city of Medford, provided it became expedient to develop it at any time. Its value has been greatly increased since the taking of the land by the Metropolitan Park Commission, which covers a greater portion of this source, by assuring a pure and unpolluted supply.

It may be a little out of place, now that the Metropolitan water supply has been assured, to state what our plans have been, but, had it not been settled before the present time, Medford would, in all probability, have had a main running from Wyman street to the Winchester line, and thus give us direct connection with Winchester reservoir. One or two interviews were had with the chairman of their board, and we can say, with all confidence, that an acceptable ar-

rangement could have been made with them, whereby the reservoir that they have not as yet used could have been obtained for a storage basin, in addition to drawing a certain proportion of water therefrom. It would have been perfectly feasible for us to have supplied Somerville with the greater part of her water; and could we have received the same rate that Boston now receives, profit enough would have been derived therefrom to pay the interest money on the entire bonded indebtedness and the total maintenance account of the works; thus leaving our entire income for deposit to the sinking fund.

Had we not been able to make satisfactory arrangements with Somerville, and the source had been obtained, we would have been able to have supplied Melrose's wants through Spot Pond, at a much cheaper rate than they are paying for water from Whittier's Wells, and yet have rendered Medford a desirable profit.

While we cannot make as much of our water supply as we at one time hoped to do—and a portion of our labor for the past three years in seeking for a new source counts for naught—we do believe that the department is being conducted on business principles, and have reason to hope that the results derived therefrom will be perfectly satisfactory to all interested parties.

The new dam at Wright's Pond was finally finished about August 1, 1895, raising it to elevation 145, making the overflow about 5 feet higher than was originally intended, and 15 feet higher than the old dam. Messrs. Ross & Cole not caring to carry it to that elevation at the price the contract had been awarded them, made it necessary for the board to finish the work. The labor was performed under the direct charge of City Engineer Barnes, aided by the personal supervision of the work by Mr. J. H. Burleigh. We are pleased to note that it was finished in a very satisfactory manner, and we think to the advantage of the city.

The expense of this extra elevation was slight, compared

with the storage that was gained. The basin, when full, holds 72,000,000 gallons of water, and covers about 23 acres; the greatest depth being 30 feet. By putting flashboards in the overflow as we have it arranged, we raise the elevation of the pond one foot and gain nearly 8,000,000 gallons, making the possible storage capacity 80,000,000 gallons.

The new pumping station at the junction of Elm and Forest streets has been completed, and gives the city a plant with two pumps, each of a capacity of 1,500,000 gallons daily, one single and the other compound; and two boilers, either capable of running both pumps; the plant being in duplicate, so that the city shall not suffer should either one become disabled.

The station is so located and arranged that water can be taken from either Spot Pond, the basin near the station, or Wright's Pond; and can pump into the standpipe either of the mains direct (high or low service), as well as Spot Pond or Wright's Pond.

At the present time we are supplying low-service by gravity from Wright's Pond, and high-service from the basin near Forest street. This station was referred to in our last report. We regard this arrangement of great value in case of a disastrous fire. There are 111 hydrants on the high-service and 279 on the low-service.

We can now safely announce that our service is thoroughly equipped and in full working order, every portion of the city where water is furnished having an ample supply.

During the past three months we have taken from the basin near the pumping station, 63,775,000 gallons, and in addition a large quantity has run to waste. This water has been collected independent of Wright's Pond watershed, coming from the east and west arms alone, and we have no doubt but that time will justify our predictions made in a former report on this subject.

This water is shown, by analysis made by the State Board

of Health in December, 1895, to be of a better quality than that of Spot Pond.

The grounds about this station have been graded and seeded, and we trust will make quite an attractive appearance during the coming summer.

The building of the new 20-inch main between the ponds was contracted for with Edward McManus, of Waterbury, Conn., in April, 1895, and was to be finished on August 1, but, after more or less annoyance to the board, the work was completed by him late in December. This enables us to dispense with pumping the water at Spot Pond, and we can see no possibility of having any use for the station or basin that is constructed there.

The high-service main from the standpipe to the square was connected and turned on early in July. The entire high-service district did not derive the benefit of the increased pressure until about the 1st of December.

Some of the mains that we thought would stand the increased pressure we found necessary to relay, and a sewer being built in South Medford caused still further delay in that section.

The warehouse located on land on the corner of Swan and James streets, which was originally taken for highway purposes, is fast being pushed to completion by the contractors, Messrs. Donoghue Bros. We expect to occupy the building by the 1st of May, and when finished it will afford ample storage capacity for all the stock that will be necessary to carry for many years to come, abundant shop room, a well arranged stable, and a tenement, for a family to occupy, on the second floor; by this means we expect to do away with a night watchman, it being connected by telephone, besides having a private wire to the pumping station at Wright's Pond.

The cost of maintenance for the past year has amounted to more than was estimated by the board one year ago. The greater portion of this expense was incurred on account of

the delay in finishing the laying of the pipe between the ponds, causing all of the water used by the city to be pumped twice, while now only the water used through the high-service is pumped.

There was received for the water rates, fines, etc., for thirteen months \$48,897.24, being \$8,402.13 more than was received the previous year, while the increase in the cost of maintenance was \$470.40, allowing us to place \$19,218.72 to the sinking fund this year.

The figures for the estimated cost of running the works for the coming year are now in the hands of the Superintendent.

Not having kept within the limits last season, we do not think it a mark of good judgment to publish them at the present time; suffice it to say, that they are lower than last year, and while we cannot claim any credit to ourselves for the fast increasing water income, we regard it as our duty to pay rigid attention to the expenses connected with the maintenance account.

The interest money on the bonded indebtedness will amount to nearly \$4,000 more than last season.

We expect a larger revenue from the ice, and naturally look for an increased amount from water receipts, and therefore anticipate depositing more than \$20,000 to the sinking fund during the coming year.

Now that the ice business has been mentioned, it is possible that a few of our citizens may not have understood the object the water board have had in view, in trying to derive revenue from this source, after reading the sensational articles appearing in some of the Boston papers recently. A few words of explanation at this time may not be out of place. In view of its being the only ice privilege in the city of any extent, and always having been used for ice purposes, it cannot be said to be in competition with any other privilege in the city, thereby affecting any values; and on account of the need of the department to derive the largest revenue from every source possible, in order that the rates for domestic

purpose should not be raised, and that we may be in shape to meet the demands that will be made by the Metropolitan Water Supply in a few years without feeling the shock, we believe that we are justified in looking for an income from this quarter.

According to the statutes, we are not allowed to use money of the department for cutting and housing the ice. Should we sell the privilege of cutting on the pond, there would be a chance for more or less contention, with regard to the water being handled in the pond, by the party leasing, and the revenue derived therefrom would be small, compared with the amount that could be had by housing it.

It is our opinion that the erection of proper buildings for the storage of some six or eight thousand tons, in connection with that which we now have, would not cost more than the net income of the sale of the ice for one year; then the revenue that could be obtained therefrom would be sufficient to pay one-half of the maintenance account, excepting the off year when ice could not be obtained—which is very seldom—thus making a safe and sure revenue, without any risk to the city. This is done in other cities.

In addition to that, the dealers could furnish the citizens their ice for \$5,000 or \$6,000 less than they could by having it come in on the cars, and the dealers be allowed to make a reasonable profit; and eventually we believe the happy medium will be reached in which all parties connected therewith will be perfectly satisfied. It would occasion a distribution of \$1,000 or \$1,200 to the laboring men of the city, at a time when there is but little, if any, work going on. We cannot see why the tax-payers should object to our bonds being paid from the proceeds of the water sold, whether in the frozen or liquid state.

Mr. J. C. Chandler, learning of the helpless position that the water board was in, applied to the Commissioners for a permit to cut the ice for the coming season and store the same in the buildings belonging to the city, with the distinct

understanding that he would handle the same to the best of his ability, charging nothing for his services or interest on any money, simply deducting the actual expenses incurred, and would forward any profit there was in the transaction to the Water Registrar, for the benefit of the department. This proposition was at once accepted, and a statement of the business, when completed, will be published.

We think that all the land owned by the city located between Elm and Forest streets, with the exception of the amount that will be necessary for the Metropolitan supply to have in making a storage basin of Spot Pond, should be retained by the city, as it can be used for various purposes; first, as a park and play-ground, it affords many advantages for coming generations; second, the pond will furnish grand skating for all time, and money enough can be obtained from the ice to pay the interest money on the investment.

We recommend that appropriations be made as follows for the year ending January 31, 1897:

For new construction and service pipe . . .	\$10,000 00
For improving and enlarging the water supply (the reappropriation of the unexpended bal- ance)	50 88
For the renewing of the main between the ponds (the reappropriation of the unexpended bal- ance)	749 28
For the purchase of the land constituting the water-shed west of Forest street (the reappro- priation of	20,000 00

We also recommend that the cash collected for interest, service, rents and maintenance accounts, be appropriated for those accounts, and that any surplus income be paid over at the end of the year to the commissioners of the sinking fund, in pursuance of the requirements of the Act of the General Court in that regard.

We regard the city as being under great obligation to the Metropolitan Park Commission. They have aided the board by patrolling the grounds; improved the road that leads from Forest street to the pumping station, and extended it from there to Fulton street, making quite a desirable drive for pleasure seekers. They will soon commence to remove the dead wood and underbrush. We feel greatly indebted to them for the interest they have manifested.

The commissioners regard the duty that will devolve upon them to perform in the future as being very light, as the general management of the maintenance department is the only branch that will require special attention.

We refer you to the accompanying annual reports of the Superintendent and Water Registrar, for further particulars relative to the work of the department.

We unite in testifying to the generous attention given by your Honor to each and every request made by us, and thank you for your hearty co-operation in all our plans. We are also sincerely grateful for the confidence of the City Council in all of our recommendations.

The Commissioners have endeavored to carry out carefully and wisely the trust placed upon them, and hope that the continued success of the department may be such as to merit the confidence of the public.

Respectfully submitted,

FRANK E. CHANDLER,

ELI AYERS,

A. H. EVANS,

Water Commissioners.

REPORT OF SUPERINTENDENT.

To the Medford Water Commissioners:

Gentlemen,—I herewith submit the annual report of the Superintendent for the year ending February 1, 1896.

SPOT POND.

The highest level reached in Spot Pond during 1895 was on December 31, when the water was 22 $\frac{3}{4}$ inches below high water mark, and at the date of this report is still rising, being at present 20 inches below high water. The lowest point reached was on October 12, the water at that time being 6 feet, 8 $\frac{1}{2}$ inches below. It is more than probable that the pond will reach high water during the coming season, which point it has not reached since 1891. I would renew my recommendation of last year that the old basin at Spot Pond be filled up and graded off.

WRIGHT'S POND.

The new dam at Wright's Pond has been completed and the pond is now above high water mark. This pond has been used since the completion of the dam to feed the low-service by gravity, giving an average pressure of from 45 to 50 pounds. During the fall all the area between the old high water mark and the present was cleared of trees, bushes, and undergrowth. All the wood suitable was cut up and sold, and the remainder was piled up and burned.

PUMPING STATION.

The new pumping station at Wright's Pond has been completed and is now in operation. The boiler and pump used in experimenting at the driven wells were moved to this station and set up. The pump, which was a 1,500,000 gallon high pressure, was compounded. When this pump and

boiler were ready they were started up, and the pump and boiler at the temporary station at Wright's Pond were shut down and moved to the new station and placed beside those already set. This gives us at this station two 60-inch by 16-foot tubular boilers, one 1,500,000 compound condensing engine, one 1,500,000 high-pressure engine. The old station at Wright's Pond was moved to the rear of the new station and converted into a coal shed.

HIGH SERVICE.

The 16-inch high-service main on Forest street has been completed and the water was let on from the standpipe on the first day of July, some delay having been caused by the widening of the street at Kidder's Hill. With a full standpipe the pressure on the high-service in Medford square is 90 pounds, and at our three highest points fifty-five.

MAIN PIPE LAID.

Main pipe has been laid in the following streets: Albion street, 202 feet of 8-inch; Almont street, 340 feet of 6-inch; Brookings street, 603 feet of 6-inch; Benham street, 112 feet of 6-inch; Chester avenue, 413 feet of 8-inch; Center avenue, 277 feet of 8-inch; Clayton avenue, 156 feet of 8-inch; Daisey street, 325 feet of 6-inch; Dearborn street, 97 feet of 6-inch; Edison avenue, 259 feet of 6-inch; Forest street, 6,475 feet of 16-inch; George street, 410 feet of 8-inch; Grand View avenue, 129 feet of 6-inch; Granville avenue, 108 feet of 8-inch; Gleason street, 166 feet of 6-inch; James street, 458 feet of 6-inch; Logan avenue, 72 feet of 6-inch; Leyden street and avenue, 409 feet of 6-inch; lane off Woburn street, 85 feet of 2-inch; Marshall street, 192 feet of 6-inch; Morton avenue, 140 feet of 6-inch; Martin street, 158 feet of 8-inch; Newton street, 392 feet of 8-inch; Newton street, 36 feet of 4-inch; Oak Grove Cemetery, 812 feet of 4-inch; Pembroke street, 84 feet of 8-inch; Sturtevent terrace, 242 feet of 6-inch; Shapleigh street, 193

feet of 6-inch ; Taylor street, 145 feet of 6-inch ; Williams court, 168 feet of 2-inch ; Wright's Pond, 240 feet of 12-inch, 30 feet of 14-inch, 20 feet of 6-inch and 60 feet of 4-inch.

The following mains have been relaid: Chestnut street, 447 feet of 6-inch ; Emerson street, 12 feet of 6-inch ; High street, 68 feet of 8-inch ; Mystic avenue, 134 feet of 8-inch ; Almont street, 694 feet of 6-inch ; Riverside avenue, 96 feet of 12-inch ; Lincoln street, 460 feet of 6-inch ; Yale street, 410 feet of 6-inch ; Boston avenue, 239 feet of 10-inch ; Winchester street, 252 feet of 6-inch, 290 feet of 8-inch ; Arlington street, 873 feet of 10-inch ; Mystic street, 388 feet of 8-inch ; Jerome street, 2,412 feet of 10-inch ; Linden street, 37 feet of 4-inch ; Sherman street, 17 feet of 6-inch ; Alfred street, 10 feet of 6-inch ; Williams street, 25 feet of 6-inch ; Albion street, 1,005 feet of 8-inch ; Orchard street, 6 feet of 6-inch ; Greenleaf avenue, 11 feet of 6-inch ; Chester avenue, 12 feet of 8-inch ; Marshall street, 8 feet of 6-inch ; George street, 7 feet of 8-inch ; Dearborn street, 4 feet of 6-inch ; Winthrop street, 2,260 feet of 10-inch ; Adams street, 1,204 feet of 8-inch ; Capen street, 8 feet of 6-inch ; Manning street, 12 feet of 4-inch ; Walnut street, 13 feet of 4-inch ; Maple avenue, 13 feet of 4-inch ; Touro avenue, 12 feet of 4-inch ; South street, 1,998 feet of 10-inch ; Irving street, 778 feet of 6-inch ; Brooks street, 645 feet of 8-inch ; Fountain street, 1,340 feet of 8-inch ; Main street, 1,096 feet of 14-inch, and 1,070 feet of 10-inch ; Medford square, 46 feet of 16-inch, 82 feet of 12-inch, 28 feet of 8-inch, 50 feet of 6-inch ; Paris street, 1,402 feet of 8-inch ; Holton street, 392 feet of 8-inch ; Tainter street, 1,196 feet of 8-inch ; Tufts street, 836 feet of 6-inch ; Woburn street, 4,794 feet of 10-inch ; Bowers street, 1,269 feet of 8-inch ; Court street, 28 feet of 6-inch ; Park street, 40 feet of 10-inch ; Everett street, 869 feet of 6-inch ; Henry street, 29 feet of 8-inch ; Dexter street, 799 feet of 8-inch ; Medford street, 1,048 feet of 10-inch ; Harvard avenue, 36

feet of 10-inch ; King avenue, 24 feet of 6-inch ; Wright's Pond, 30 feet of 20-inch ; Glenwood Dye Works, 112 feet of 8-inch ; Water street, 40 feet of 8-inch, 15 feet of 4-inch ; Forest street, 30 feet of 12-inch ; Middlesex avenue, 60 feet of 4-inch.

Total new mains laid, 14,014 feet. Total mains relaid, 31,621 feet. Total miles of main laid in 1895, 8, and 3,395 feet.

257 feet of 12-inch pipe, used as a suction from the Spot Pond main, have been removed and used in the work around Wright's Pond.

The following streets have given considerable trouble from time to time, and should be relaid as soon as possible : Spring street, south of the Boston & Maine Railroad ; Cross street, north of the Boston & Maine Railroad ; Ashland entire, and Mystic avenue from James street to end. The eight-inch cement main running under the factory of the Glenwood Dye Works has been abandoned, and a new cast-iron main laid outside to take its place. One hundred and seventy-one breaks have been repaired.

SERVICE PIPE.

Two hundred and thirty-nine new services have been laid during the year, using forty-nine hundred and eighty feet on the street, and eight thousand and sixty-seven feet inside of the property line. Nineteen services have been renewed ; seventy have been cleaned ; fifty-four have been thawed out ; fourteen have been lowered ; sixty-five leaks have been repaired, and four hundred and twenty-one have been reconnected to new mains laid.

HYDRANTS.

Seventy new hydrants have been located the past season and thirty-one have been reset. Two hydrants have been discontinued. Total number of hydrants in use, three hundred and ninety.

REDUCING VALVES.

A six-inch reducing valve has been placed on High street opposite Warren street, through which the low-service district south of the Boston & Maine Railroad in West Medford is fed from the high-service main on High street. The pressure on this valve is 90 pounds on the high-service side and from 45 to 50 pounds on the low.

Another six-inch valve has been set at the Malden line, connecting Malden's high service with our low. This valve is set to give 50 pounds pressure on the Medford side.

GATES.

One hundred and nineteen gates have been set during the past season, sizes as follows: one twenty-inch, six sixteen-inch, six fourteen-inch, seventeen twelve-inch, twenty-four ten-inch, twenty-five eight-inch, thirty-four six-inch, and six four-inch. Thirty-four gates have been discontinued.

STREET WATERING POSTS.

Six stand-pipes have been set for street-watering carts as follows: Forest street near Water, Salem street near Garfield avenue, Main street near Maxwells lane, Main street corner of Dexter, High street opposite Woburn, and High street near Arlington. There are nineteen stand-pipes now in use.

FOUNTAINS.

The stone fountains at Spring street, Winthrop square and Tufts square have been changed so that bicycle riders and pedestrians can obtain a drink from them; the feed having been brought above the water and dippers placed on the fountains.

METERS.

There have been thirty-seven meters set during the year and nine discontinued, leaving sixty-five in use.

HEIGHT OF WATER IN SPOT POND FOR YEAR 1895.

Jan.	10.	86 $\frac{1}{4}$	inches below high-water mark.		
	20.	78 $\frac{1}{4}$	"	"	"
	30.	72 $\frac{1}{2}$	"	"	"
Feb.	10.	72	"	"	"
	20.	72 $\frac{3}{4}$	"	"	"
	28.	73 $\frac{3}{4}$	"	"	"
March	10.	67	"	"	"
	20.	52 $\frac{3}{4}$	"	"	"
	30.	48 $\frac{1}{4}$	"	"	"
April	10.	42 $\frac{1}{2}$	"	"	"
	20.	31 $\frac{1}{2}$	"	"	"
	30.	30	"	"	"
May	10.	29	"	"	"
	20.	28 $\frac{1}{2}$	"	"	"
	30.	29 $\frac{1}{4}$	"	"	"
June	10.	33	"	"	"
	20.	39	"	"	"
	30.	39 $\frac{1}{4}$	"	"	"
July	10.	38 $\frac{3}{4}$	"	"	"
	20.	44 $\frac{3}{4}$	"	"	"
	30.	49	"	"	"
Aug.	10.	50 $\frac{3}{4}$	"	"	"
	20.	54 $\frac{1}{4}$	"	"	"
	30.	59 $\frac{1}{4}$	"	"	"
Sept.	10.	64 $\frac{3}{4}$	"	"	"
	20.	68 $\frac{3}{4}$	"	"	"
	30.	74 $\frac{1}{4}$	"	"	"
Oct.	10.	79 $\frac{3}{4}$	"	"	"
	20.	62 $\frac{1}{2}$	"	"	"
	30.	64 $\frac{1}{4}$	"	"	"
Nov.	10.	51	"	"	"
	20.	39 $\frac{3}{8}$	"	"	"
	30.	28 $\frac{1}{2}$	"	"	"
Dec.	10.	21 $\frac{3}{4}$	"	"	"

Dec. 20. 23 $\frac{3}{4}$ inches below high-water mark.
 30. 20 $\frac{3}{4}$ " " " "

NEW SHOP.

The new brick building to be used as a shop and stable is well under way, and it is the contractor's expectation to have the same completed by the middle of March, 1896. This building will be a valuable addition to the plant and a credit to the city.

The list of property on hand February 1, 1896, is as follows :

Stable	\$1,374 00
Main pipe stock	5,643 56
Service pipe stock	1,027 00
Main pipe tools	673 55
Service pipe and shop tools	897 06
Office fixtures	130 00
At pumping station	250 96
At Spot Pond	132 65
	<hr/>
	\$10,128 78

A detailed account of the above is handed in with this report.

Respectfully submitted,

FREDERICK W. GOW,
Superintendent.

REPORT OF WATER REGISTRAR.

MEDFORD, Mass., February 1, 1896.

To the Water Commissioners, City of Medford:

Gentlemen,—I herewith hand you a statement of the transactions of this office for the past year.

AGGREGATE EXPENSE ACCOUNT.

Cr.

Reappropriation of balances in hands of City Treasurer, February 1, 1895	\$49,695 32
Appropriations for new construction and service pipes	11,000 00
Appropriation for Water Commissioners' salaries,	150 00
Appropriation for improving and enlarging water supply	14,000 00
Appropriation for Water Department building, corner Swan and James streets	10,000 00
Appropriation for high service and renewing mains \$47,000.00, less overdraft year 1894 of \$1,267.42, leaving available	45,732 58
Receipts, water rates Feb. 1, 1895, to Feb. 1, 1896	48,897 24
Receipts, service pipes, Feb. 1, 1895, to Feb. 1, 1896	2,554 77
Receipts, rents, etc., Feb. 1, 1895, to Feb. 1, 1896	2,387 29
Receipts, interest on deposits	328 44
Receipts, interest accrued on bonds sold	171 89
Receipts for labor and material, and refunds of freight	1,572 68
	<hr/>
	\$186,490 21

Dr.

Maintenance (net)	\$14,974 58
Interest on bonds	15,740 00
Maintenance, amount paid for work on breaks, etc., and refunded, caused by sewer construction,	495 88
New construction and service pipes	12,826 91
Repairs on buildings, etc.	1,851 56
Water Department building	4,514 78
New dam at Wright's Pond	8,979 57
Improving and enlarging water supply	15,675 27

Renewal of main between ponds	\$18,608 68
Stand-pipe at Wright's Pond	1,081 68
High service and renewing mains	44,004 05
Water Commissioners' salaries	150 00
Sinking Fund, 1896	19,218 72
Balance unexpended January 31, 1896 . .	28,368 53
	<hr/>
	\$186,490 21

The balance unexpended is in the following accounts :

New construction and service pipes	\$728 81
Land for water storage west of Forest street . .	20,000 00
High service and renewing mains	1,354 34
Improving and enlarging water supply	50 88
Renewal of main between ponds	749 28
Water Department building	5,485 22
	<hr/>
Total	\$28,368 53

The amount paid the Sinking Fund was the surplus earnings for the year ending January 31, 1896, as follows :

From water rates	\$18,682 99
Rents	535 73
	<hr/>
	\$19,218 72

COMPARATIVE STATEMENT OF RECEIPTS.

	1893.	1894.	1895.
From rates, fines, etc.	\$34,999 21	\$40,495 11	\$48,897 24
From service pipes	1,294 22	1,388 42	2,554 77
From rents, etc.	1,030 89	1,039 00	2,387 29
From sale of wagon	3 00		
From Insurance Co's		700 00	
From accrued interest on bonds sold		83 33	171 89
From interest on deposits,	310 51	435 86	328 44
	<hr/>	<hr/>	<hr/>
	\$37,637 83	\$44,141 72	\$54,339 63

COMPARATIVE STATEMENT OF EXPENSE FOR MAINTENANCE.

Net paid during 1892	\$16,097 90
Net paid during 1893	16,185 82
Net paid during 1894	14,504 13
Net paid during 1895	14,974 58
The total cost of the works to Feb. 1, 1895 .	\$624,205 86
Expended during year ending Jan. 31, 1896,	102,059 37
	<hr/>
Total cost Feb. 1, 1896	\$726,265 23

There have been 225 applications for service pipes to be laid during the year ending January 31, 1896.

Six hundred and twenty-nine parties paid for the use of hand hose during 1895.

Orders were given from this office for "shutting off" and applying seal locks to fixtures for the year to the number of 217; for "turning on" and removing seal locks, 411.

Very respectfully submitted,

F. L. CUSHING,

Water Registrar.

REPORT
OF THE
LICENSE COMMISSIONERS.

MEDFORD, June 3, 1895.

Hon. Baxter E. Perry, Mayor:

Sir,—The Board of License Commissioners submits the following report of its doings since its appointment in the latter part of last year:

At the time of its appointment there were the following licenses in force:

2 innholder's, holding also first and fourth class liquor licenses.

1 common victualler's, holding also first and fourth class liquor licenses.

4 common victualler's, not licensed to sell liquor.

8 licenses, sixth class, to apothecaries.

The board granted in addition, for the year 1894-1895:

1 victualler's license.

1 sixth-class license to apothecary.

The board believes that there were very few illegal sales of liquor during the year.

Complaint was made of the way in which the business of one holder of first and fourth class licenses was carried on, but soon after the Commissioners took office there was sufficient improvement in this case to make the revocation of the license unnecessary. The board found that there was some carelessness among apothecaries in filling out the certificates of the sales, as required by law. The following circular was issued:

To Apothecaries in Medford Holding Sixth-Class Licenses :

The Board of License Commissioners believe that the conditions of the sixth class licenses are not observed so strictly as is desirable. The intent of the law is that sales shall be made by apothecaries only to those who buy for medicinal, mechanical or chemical use, and not to those who make frequent purchases for gratification of their desire for intoxicating liquors.

Your attention is called to the following points :

No sale shall be made to any person, however reliable and respectable, who does not sign the required certificate.

It is not sufficient to put "Medford" against blank for residence, but street and number should be stated if purchaser is a resident of this city.

Purchaser should sign both the receipt and the liquor certificate. Certificate should show use for which liquor was wanted. If three uses are printed on certificate, a line should be drawn through two.

Record should be plainly written in ink, and no blank pages should be left between signed pages in book.

No sale should be made to persons where there is reason to suppose that their statement that liquor is for medicinal, chemical or mechanical purposes is not true.

Should the board decide to grant sixth class licenses in April, they will grant to none who do not previously obey in good faith condition of license.

A. F. SISE,
W. H. WARREN,
D. G. MANSFIELD,

Board of License Commissioners.

January 1, 1895.

Since then there has been a stricter compliance with the laws. During the month of March there were 413 sales of liquor recorded on the certificate books, no one single store exceeding 100 sales for the month.

The board thinks that there should be frequent examinations by the police of the certificate books, and a yearly report of examination put on file.

Any large increase over 100 sales per month should be held to show that the apothecary making them was not observing the spirit of the law, and should be considered when the question of a new license was considered.

With the citizens voting against license, and the closing of bars, there will be more danger of illegal sales by common victuallers.

The board considers the present law defective, in that a common victualler's license cannot be revoked from the finding of liquor for sale on the premises, although it can be revoked for failure to properly furnish meals.

The duties of the board are at an end this day, unless and until the citizens again vote for license.

The board has granted the following licenses, good until May 1, 1896 :

1 innholder's license (Mystic House).

6 common victuallers.

4 sixth class licenses to apothecaries.

Respectfully submitted,

A. F. SISE,

W. H. WARREN,

D. G. MANSFIELD,

License Commissioners City of Medford.

REPORT
OF THE
CITY TREASURER.

MEDFORD, Mass., February 1, 1896.

Hon. Baxter E. Perry, Mayor of the City of Medford:

Sir,—I herewith submit my third annual report, covering the year ending January 31, 1896.

Cash balance in the city treasury Feb. 1, 1895,	\$32,774 03
Amount received into the treasury during the year ending January 31, 1896	1,016,406 52
	<hr/>
	\$1,049,180 55
The disbursements during the year amount to	1,001,521 23
	<hr/>
Leaving a balance in the treasury Jan. 31, 1896,	\$47,659 32

Respectfully submitted,

PARKER R. LITCHFIELD,
City Treasurer.

REPORT
OF THE
CITY AUDITOR.

MEDFORD, Feb. 15, 1896.

To the Honorable the Mayor and the City Council:

Gentlemen,—In compliance with the requirements of section 7, chapter xi. of the city ordinances, I submit the following report:

The cash in the treasury February 1, 1895, was		\$32,774 03
The receipts for the year ending January 31, 1896, were		1,016,406 02
		\$1,049,180 05
During the year, 58 drafts were drawn by the Mayor on the Treasurer, calling for an expenditure of		1,001,581 41
		\$47,598 64
On February 15, 1896, there was on deposit at the Howard National Bank of Boston, to the credit of this city		\$33,236 20
Deduct amount of outstanding checks	\$469 15	
Deduct interest credited since February 1	103 28	572 43
And the true balance in the bank is		\$32,663 77

The cash in the treasury on the same date was			\$1,176 17
Total			<u>\$33,839 94</u>
From February 1 to February 15, coupons were paid amounting to	\$3,720 00		
The expenditure as per Mayor's drafts Nos. 1 and 2 was	11,271 16	14,991 16	
			<u>\$48,831 10</u>
Owing to various complications three bills remain unpaid, viz :			
Giacomo Cenedella	\$1,171 78		
Patrick Connors	54 18		
Heirs of Samuel Cutler	6 50		
			<u>1,232 46</u>
And this amount is reserved for the payment of these bills			
The balance in the treasury available for current expenses is			<u>\$47,598 64</u>

The certificate of the cashier of the Howard National Bank is on file with the other vouchers.

The detailed statement of the receipts and the expenditure of the city for the year ending January 31, 1896, is as follows :

RECEIPTS

OF THE CITY OF MEDFORD
FOR THE YEAR ENDING JANUARY 31, 1896.

ABATED TAXES AND ESTATES BOUGHT AT SALE FOR TAXES.

Received from :

Heirs of F. E. Foster, abatement on tax of 1895, which was paid twice	\$26 65
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RECEIPTS.

261

ALMSHOUSE.

Received from :	
R. B. Newcomb, guardian, board of G. Sherman,	108 00
R. B. Newcomb, board of E. Page	20 00
R. B. Newcomb, Supt., sale of produce	136 37
Commonwealth of Massachusetts, support of J. Richmond	130 36
	<hr/>
	\$394 37

ASHES.

Received from :	
James McCusker	\$1 00
M. Cheever	10 75
George Newton	50
Lewis H. Lovering	22 50
Dr. W. L. Hall	19 60
	<hr/>
	\$54 35

BROOKS AND STREAMS.

Received from :	
John T. Hicks, $\frac{1}{2}$ estimated cost of tide gates at Mystic avenue	\$1,000 00
City of Medford, Sewer Construction account, material and labor on Central avenue extension and Spring street drains	3,701 48
	<hr/>
	\$4,701 48

CARE OF TREES.

Received from :	
City of Medford, School Department, for tree protectors	\$0 75

COLLECTION OF HOUSE OFFAL.

Received from :	
Frank E. Chandler, house offal 6 mos. to Apr. 1,	\$150 00
Chas. Cummings, house offal 6 mos. to Oct. 1,	175 00
	<hr/>
	\$325 00

CITY HALL EQUIPMENT.

Received from :

City of Medford, Highway Department, for four cell doors	\$14 00
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CITY COLLECTOR—TAX ACCOUNT.

Received from :

E. W. Hayes, Collector, taxes of 1894 . . .	\$52,974 20
E. W. Hayes, Collector, taxes of 1895 . . .	193,283 35
	<hr/>
	\$226,257 55

CITY COLLECTOR—SEWER ASSESSMENTS.

Received from :

E. W. Hayes, Collector, assessments for 1895 .	\$20,296 80
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CITY COLLECTOR—HOUSE CONNECTIONS.

Received from :

E. W. Hayes, Collector, on account of house connections, 1895	\$6,572 42
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CITY COLLECTOR—WATERING ASSESSMENT.

Received from :

E. W. Hayes, Collector, for street watering, 1894,	\$218 49
E. W. Hayes, Collector, for street watering, 1895,	1,619 78
	<hr/>
	\$1,838 27

GENERAL REPAIRS—HIGHWAY DEPARTMENT.

Received from :

Frank G. Coburn & Co., stone, sand, etc. . .	\$79 25
T. R. Clough, refund of amount paid for freight,	5 50
Edmund Bridge, crushed stone	3 00
Lyman Sise, crushed stone	1 50
Eli Ayers, crushed stone	6 00
Samuel Clark, crushed stone	1 50
Eleazer Boynton, crushed stone	13 50

H. A. Hanscomb & Co., crushed stone . . .	\$3 58
H. W. Bigelow, crushed stone	7 50
D. W. Wilcox, crushed stone	3 00
George B. Green, crushed stone	7 50
Mack & Moore, crushed stone	24 50
A. W. Wellington, crushed stone	13 50
R. P. Hallowell, crushed stone	3 00
Met. Sewerage Commission, crushed stone	66 00
C. L. Batchelder, crushed stone	10 29
Cutting, Bardwell & Co., sand and crushed stone,	203 90
Mary A. Brintnall, filling	1 00
William F. Bartlett, filling	42 00
Mrs. Margaret Barry, filling	26 50
F. B. Blodgett, filling	7 00
J. R. Green, filling	4 00
Mrs. Charlotte W. Hallowell, filling	12 50
Glenwood Dye Works, filling	24 50
Ellis Higgins & Coddling, filling, etc.	143 70
Capt. A. C. Larrabee, filling	13 50
Lewis H. Lovering, filling	25 00
North Woburn Street R.R. Co., sand	12 00
Charles Cummings, gravel	1 00
L. T. Farnum, gravel	3 00
A. Chysolm, gravel	7 00
P. J. Byron, crushed stone	24 00
Samuel C. Lawrence, screenings	34 20
Town of Arlington, gravel	2 00
Jarvis Engineering Co., sand	4 00
J. S. Fonner, sand	4 00
Joseph A. Chapin, labor and material furnished,	141 60
Page & Curtin, labor	2 00
William P. Clark, brass, copper, etc.	80 35
City of Medford, Collection of House Offal ac- count, care of horses, one year	365 00
City of Medford, Watering Streets account, teams and labor	673 50

City of Medford, Sidewalks and Edgestones account, sand and gravel	\$478 00
City of Medford, Park Department, cutting grass,	6 00
City of Medford, Sewer Department, material and labor furnished	2,370 37
City of Medford, High Schoolhouse account, grate and filling	131 25
City of Medford, Water Department, labor and material furnished	403 72
City of Medford, Brooks and Streams account, filling	34 25
City of Medford, City Hall Equipment account, stone work	38 00
City of Medford, Paving Gutters account, gravel	80 00
	<hr/>
	\$5,647 96

HIGH SERVICE AND RENEWING MAINS.

Received from :

Boston & Maine R.R. Co., refund of amount paid for freight	\$4 91
F. L. Cushing, Registrar, amount paid by West End R.R. Co. and Glenwood Dye Works	44 54
F. L. Cushing, Registrar, refund of freight	319 96
F. L. Cushing, Registrar, for labor and material furnished	338 08
	<hr/>
	\$707 49

IMPROVING AND ENLARGING WATER SUPPLY.

Received from :

Boston & Maine R.R. Co., refund of amount paid for freight	\$3 20
James E. Potter, lime and cement	11 92
F. L. Cushing, Registrar, labor and material furnished	214 92
	<hr/>
	\$230 04

INTEREST.

Received from :	
Howard National Bank, on deposits, 13 months to January 1, 1896	\$2,252 12
E. W. Hayes, Collector, on taxes of 1894	1,051 19
E. W. Hayes, Collector, on taxes of 1895	342 99
E. W. Hayes, Collector, on sewer assessments, 1895	2 43
F. S. Moseley & Co., premium on notes	19 00
N. W. Harris & Co., 17 days on \$149,000 at 4 per cent	281 45
E. H. Rollins & Son, 1 month, 16 days on \$185,000 at 4 per cent	945 55
Medford Savings Bank, income of Bradbury Fund, 1 year to November 1, 1895	454 58
	<hr/>
	\$5,349 31

INSURANCE.

Received from :	
Ulysses S. Koons, third and fourth award of auditors in the estate of the Penn. Fire Ins. Co.,	5 29

MAINTENANCE AND INTEREST ON BONDS.
(Water Department.)

Received from :	
F. L. Cushing, Registrar, water rates to Feb. 1,	\$48,911 74
F. L. Cushing, Registrar, breaks in pipes	158 85
F. L. Cushing, Registrar, labor and material furnished	243 10
F. L. Cushing, Registrar, sale of horse	25 00
Gennaro, Long & Little, repairing pipes	54 43
Foote & French, 17 days' interest on \$91,000 at 4 per cent	171 89
City of Medford, Interest account, on average balance of \$13,137.75 at 2½ per cent	328 44
	<hr/>
	\$49,893 45

MIDDLESEX AVENUE BRIDGE.

Received from :	
City of Somerville, one-half cost of maintenance,	\$513 64

MISCELLANEOUS CREDITS.

Received from :	
E. W. Hayes, Collector, costs on taxes of 1894,	\$577 61
E. W. Hayes, Collector, costs on taxes of 1895,	186 60
Henry F. Moore, milk licenses	58 50
Sundry persons, advertising, hearings, etc.	10 25
Commonwealth of Massachusetts, corporation tax,	22,560 29
Commonwealth of Massachusetts, bank tax	3,351 65
Sundry persons, sale of lots in Oak Grove cemetery	360 00
J. M. Fiske, Master, House of Correction, fines, etc.	230 00
First Dist. Court, Eastern Middlesex, fines, etc.,	1,035 10
Frederick W. Flint, filling	16 00
Allston P. Joyce, City Clerk, licenses and fees,	566 75
M. J. Coughlin, gravel, etc.	6 00
S. W. Farwell & Co., liquor license, class 6	1 00
Edward Farrar, liquor license, class 6	1 00
Edmund S. Crawley, liquor license, class 6	1 00
D. N. Howard, liquor license, class 6	2 00
James McKeon, liquor license, class 6	2 00
F. S. Moseley, proceeds of notes dated April 18 and June 22	67,500 00
Foote & French, proceeds of 91 Water Fund bonds	94,939 39
N. W. Harris & Co., proceeds of 149 Public Building Loan bonds	155,280 35
E. H. Rollins & Son, proceeds of 185 Sewerage Loan bonds	198,116 50
Medford Savings Bank, proceeds of notes dated September 14 and December 19	29,000 00

RECEIPTS.

267

Edward Farrar, advertising	\$1 00
Edmund S. Crawley, advertising	1 00
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	\$573,803 99

MYSTIC AVENUE.

Received from:	
City of Medford, Sewer Department, filling	\$23 00

NEWBERN AVENUE.

Received from:	
Blaney & Robinson, donation from land owners,	\$200 00

NEW CONSTRUCTION AND SERVICE PIPES.

Received from:	
F. L. Cushing, Reg., on account of service pipes,	\$2,554 77
Boston & Maine Railroad Co., refund of freight,	95
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	\$2,555 72

NOTES IN ANTICIPATION OF TAXES.

Received from:	
Medford Savings Bank, note dated March 30 for 8 months at 4 per cent	\$25,000 00
F. S. Moseley & Co., note dated April 12 for 7 months at $3\frac{8}{10}$ per cent	35,000 00
F. S. Moseley & Co. note dated May 15 for 6 months at $3\frac{1}{4}$ per cent discount	40,000 00
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	\$100,000 00

OAK GROVE CEMETERY.

Received from:	
Sundry persons, for single graves	\$270 00
Sundry persons, for lots	2,040 00
Allston P. Joyce, clerk, care, extra work, etc.,	932 00
Trustees of Oak Grove Cemetery, interest on Perpetual Care Fund	900 00
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	\$4,142 00

ORDINARY EXPENSES, FIRE DEPARTMENT.

Received from :

Arthur C. Symmes, manure to May 1 . . .	\$43 00
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OUTSIDE RELIEF.

Received from :

City of Newburyport, aid rendered . . .	\$80 50
City of Brockton, aid rendered . . .	43 06
City of Fall River, aid rendered . . .	18 71
City of Gloucester, aid rendered . . .	102 31
City of Boston, aid rendered . . .	165 10
City of Lowell, aid rendered . . .	4 50
Town of Lexington, aid rendered . . .	90 96
Town of Chatham, aid rendered . . .	7 80
Town of Melrose, aid rendered . . .	3 80
Commonwealth of Massachusetts, aid rendered,	701 26
Commonwealth of Massachusetts, burial of sun-	
dry persons	93 50
Maria J. Whittemore, board	54 33
Wm. P. Clark, guardian, board of Clara W. Clark,	90 00

 \$1,455 83

PERPETUAL CARE FUND.

Received from :

Mrs. Elfreda Tenney	\$25 00
Bernard Borns	50 00
Mrs. Mary J. Anderson	25 00
Mrs. Francis C. Morrison	25 00
Mrs. Dora A. Davis	25 00
Mrs. Charlotte S. Brownell	50 00
Mrs. Carrie J. Burrell	25 00
Mrs. Jessie B. Chute	25 00
George A. Gibson	50 00
Estate of Daniel Durgin	50 00
Rev. James P. Abbott	50 00
B. F. Nutter and George N. Barnard	50 00

RECEIPTS.

269

Andrew Nimmo	\$50 00
J. H. Hooper and S. L. Magoun	50 00
Sarah C. L. Evans	25 00
Alvarez E. Richardson	25 00
William Belcher	50 00
Harold G. Barnes	25 00
Fredd H. Thomas	25 00
Mrs. Louise Graves	25 00
Mrs. Jennie L. Nichols	25 00
Dana I. McIntire	50 00
Marshall Synmes	50 00
William H. Babb	25 00
Ella M. Tyler	50 00
Hester Witherell	50 00
Thomas Radcliffe	25 00
Edward H. Balcom	50 00
Marion R. Dalgleish	25 00
Charles C. Stevens	50 00
Albert Bullard	25 00
Mount Hermon Lodge, F. & A. M	<u>200 00</u>
	\$1,350

PUBLIC COMMONS.

Received from :	
L. W. Conant, standing grass	\$35 00

PUBLIC LIBRARY.

Received from :	
J. O. Hayden, County Treasurer, 96½ per cent on \$1,440.20 the amount of dog tax	\$1,364 70
City of Medford, Interest account, on Osgood fund 1 year to January 1, 1896	120 57
City of Medford, Interest account, on Tufts fund 1 year to January 1, 1896	30 00
	<u>\$1,515 27</u>

RENEWAL OF MAIN BETWEEN PONDS.

Received from :

F. L. Cushing, Registrar, labor furnished E. McManus	\$138 32
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RENTS AND REPAIRS OF BUILDINGS.

Received from :

F. L. Cushing, Registrar, rents, etc.	\$2,387 29
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SEWER CONSTRUCTION.

Received from :

Lyman Sise, stock and labor	\$5 04
Page & Curtin, labor removing stopper	3 50
C. P. Wilson, labor	2 51
Boston & Maine Railroad Co., on account of drain rebuilt	50 00
Edward McManus, sand	24 00
Town of Belmont, drain pipe	24 09
City of Medford, Water Department, material furnished	127 26
City of Medford, Forest street culvert account, cement	1 03
City of Malden, Highway Department, pipe and cement	217 08
City of Medford, Lapham street district drain, inspecting pipe	4 36
City of Medford, Engine House account, cement	2 04
City of Medford, Brooks and Streams account, material and labor	808 85
	<hr/>
	\$1,269 76

SIDEWALKS AND EDGESTONES.

Received from :

R. D. Porter, $\frac{1}{2}$ cost of sidewalk	\$124 28
R. B. Hankinson, $\frac{1}{2}$ cost of sidewalk	64 70

Wellman Sole Cutting Machine Co., $\frac{1}{2}$ cost of sidewalk	\$62 55
John F. Gilmore, $\frac{1}{2}$ cost of sidewalk	49 80
John M. Doherty, $\frac{1}{2}$ cost of sidewalk	54 11
Mrs. Annie A. Keefe, $\frac{1}{2}$ cost of sidewalk	48 77
Walter F. Cushing, $\frac{1}{2}$ cost of sidewalk	111 10
George W. McPherson, $\frac{1}{2}$ cost of sidewalk	85 57
Leonard B. Usher, $\frac{1}{2}$ cost of sidewalk	116 35
W. W. Guilford, $\frac{1}{2}$ cost of sidewalk	33 21
D. O. Kidder, Trustee, $\frac{1}{2}$ cost of sidewalk	29 61
James Bean, $\frac{1}{2}$ cost of sidewalk	85 91
David G. Melville, $\frac{1}{2}$ cost of sidewalk	60 27
Edward S. Randall, $\frac{1}{2}$ cost of sidewalk	43 33
Mrs. Alice W. Badger, $\frac{1}{2}$ cost of sidewalk	61 83
City of Medford, Police Station, $\frac{1}{2}$ cost of sidewalk	179 10
City of Medford, Logan Grove, $\frac{1}{2}$ cost of sidewalk	184 14
City of Medford, Engine House (Medford street), $\frac{1}{2}$ cost of sidewalk	150 75
City of Medford, Engine House (Medford street), paving blocks, etc.	79 42
City of Medford, Sewer Department, relaying sidewalks	6 70
City of Medford, Police Station, whole cost of a part of sidewalk	130 52
Michael J. Coughlin, $\frac{1}{2}$ cost of edgestone	22 50
Heirs of H. Brooks, $\frac{1}{2}$ cost of edgestone	10 13
W. F. Bartlett, $\frac{1}{2}$ cost of edgestone	17 29
F. B. Blodgett, $\frac{1}{2}$ cost of edgestone	17 29
James Bean, $\frac{1}{2}$ cost of edgestone	82 32
William J. Teel, $\frac{1}{2}$ cost of edgestone	20 77
Wesley P. Dutton, $\frac{1}{2}$ cost of edgestone	57 56
Mrs. Alice W. Badger, $\frac{1}{2}$ cost of edgestone	36 25
Frank H. Hamilton, $\frac{1}{2}$ cost of edgestone	34 10
Henrietta Durrell, $\frac{1}{2}$ cost of edgestone	15 00

D. O. Kidder, trustee, $\frac{1}{2}$ cost of edgestone	\$28 39
William A. Thompson, $\frac{1}{2}$ cost of edgestone	77 34
Mary E. Dartnell, $\frac{1}{2}$ cost of edgestone	64 13
Blaney & Robinson, $\frac{1}{2}$ cost of edgestone	170 32
Nathaniel F. Babb, $\frac{1}{2}$ cost of edgestone	15 75
Christina Streckwald, $\frac{1}{2}$ cost of edgestone	15 00
Gilbert Hodges, $\frac{1}{2}$ cost of edgestone	94 72
E. E. Leavitt, brick driveway	6 83
Mrs. Helen Ayers, brick driveway	7 98
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	\$2,555 69

SOLDIERS' RELIEF.

Received from :

Margaret E. McDonald, cash returned	\$8 00
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SPECIAL POLICE, &C.

Received from :

City of Malden, Police Department, amount of bill for meals	\$0 75
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STATE AID.

Received from :

Commonwealth of Massachusetts, under Chapter 301, Acts of 1889	\$2,044 50
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STREET NUMBERING.

Received from :

John P. Prichard, for numbers	\$48 72
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 RECAPITULATION

OF THE RECEIPTS FOR THE YEAR ENDING JAN. 31, 1896.

Abated taxes and estates bought at sale for taxes	\$26 65
Almshouse	394 73
Ashes	54 35

Brooks and Streams	4,701 48
Care of trees	75
Collection of house offal	325 00
City Hall equipment	14 00
City Collector, tax account	226,257 55
City Collector, sewer assessments	20,296 80
City Collector, house connections	6,572 42
City Collector, watering assessments	1,838 27
General repairs, Highway Department	5,647 96
High service and renewing mains	707 49
Improving and enlarging water supply	230 04
Interest	5,349 31
Insurance	5 29
Maintenance and interest on bonds	49,893 45
Middlesex avenue bridge	513 64
Miscellaneous credits	573,803 99
Mystic avenue	23 00
Newbern avenue	200 00
New construction and service pipes	2,555 72
Notes in anticipation of taxes	100,000 00
Oak Grove Cemetery	4,142 00
Ordinary expenses, Fire Department	43 00
Outside relief	1,455 83
Perpetual Care Fund	1,350 00
Public Commons	35 00
Public Library	1,515 27
Renewal of main between ponds	138 32
Rents and repairs of buildings	2,387 29
Sewer construction	1,269 76
Sidewalks and edgestones	2,555 69
Soldiers' relief	8 00
Special police, etc.	75
State Aid	2,044 50
Street numbering	48 72
	<hr/>
	\$1,016,406 02

EXPENDITURES
OF THE CITY OF MEDFORD
FOR THE YEAR ENDING JANUARY 31, 1896.

ABATED TAXES AND ESTATES BOUGHT AT SALE FOR TAXES.

Paid :

George A. Wilson, on real estate	\$25 90
Heirs of John D. Small, on real estate	23 40
Henry B. Jacobs, on real estate	10 40
Betsy B. Curtis, on real estate	4 55
Augustus Robinson, on real estate	2 60
George F. Spaulding, on real estate	36 40
J. William Russell, on real estate	6 50
Daniel J. Puffer, on real estate	4 55
Mrs. Mary H. Blanchard, on real estate	3 90
Mrs. Edna A. Horton, on real estate	2 60
Patrick Reilly, on real estate	3 25
Matthew Robinson, on real estate	13 65
Mrs. Lucy Reid, on real estate	1 30
Hinekley, Ayers & Byam, on real estate	13 00
Jonathan B. Frost, on real estate	6 50
Mrs. Caroline L. Steele, on real estate	13 00
James A. Tilden, on real estate	5 20
Heirs of F. E. Foster, on real estate	26 65
Mrs. Mary W. Harlow, on real estate	6 50
James E. Wellington, on real estate	42 18
Heirs of James Wellington, on real estate	81 40
George F. Manning, on real estate	3 25
Williard Welsh, for release of tax deed	31 20
	\$367 88
Amount of bill duly approved but unpaid February 1, 1896	6 50
	\$374 38

EXPENDITURES.

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By appropriation	\$500 00
By receipts	26 65
	<hr/>
	\$526 65

ADVERTISING.

Paid :	
Medford Mercury	\$328 03
Boston Traveler	20 65
Boston Daily Advertiser	66 25
Boston Journal	42 20
Boston Herald	101 25
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	\$558 38

By appropriation, \$700.

ARMORY.

Paid :	
F. O. Waterman, services as armorer	\$150 00
F. O. Waterman, extra work, etc.	27 00
Edward C. Mead, rent of Opera House, Feb. 15	50 00
William S. Richards, range	15 00
Charles B. Buss, agent, rent of Armory	270 00
Estate of John D. Small, rent of Armory	90 00
Malden & Melrose Gas Light Co., gas	75 59
James Bean, coal	23 65
City of Medford, Water Department, water	16 25
	<hr/>
	\$717 49

By appropriation, \$700.

CANVASSING BIRTHS.

Paid :	
J. C. Miller, Jr., printing	\$4 00
Winslow Joyce, canvassing	67 00
W. A. Joyce, canvassing	40 00
	<hr/>
	\$111 00

By appropriation, \$125.

CLAIMS.

Paid :	
Nicholas White, judgment, costs and interest awarded by Superior Court	\$17,453 20
By appropriation, \$17,473.29.	

CITY COUNCIL CONTINGENT.

Paid :	
Medford Printing Office, printing	\$1 75
J. C. Miller, Jr., printing	22 50
Medford Mercury, printing list of appropriations	5 00
H. C. Dimond & Co., stamps, rack, etc.	2 95
George H. Duncklee, carriage hire	50 00
Charles R. Dawson, stock and labor	1 48
T. O. H. Mitchell, stock and labor	7 63
Greenough, Adams & Cushing, typewriter and stationery	91 75
Lothrop Publishing Co., books	119 62
George L. Newhall, carriage hire	4 50
William E. Ober, electrical work	21 16
John W. Barrett, carriage hire	1 25
	<hr/>
	\$329 59
By re-appropriation, \$1,395.59.	

CITY HALL.

Paid :	
Sarah A. Bickers, cleaning	\$35 85
Malden Electric Co., light	184 54
James B. Simpson, cash paid for sawdust	1 00
Joel Goldthwait & Co., carpet pins and sockets,	2 25
Frank Hervey, supplies	13 80
Sarah B. Simpson, washing towels	39 42
William H. Turner, repairing locks, etc.	55
Page & Curtin, hardware, etc.	23 51

J. A. Smith & Son, teaming	3 40
City of Medford, Water Department, water	33 09
Malden & Melrose Gas Light Co., gas	110 56
T. O. H. Mitchell, labor	10 10
William S. Richards, supplies	17 59
James Bean, wood	12 50
Medford Ice Co., ice	20 00
E. B. Moore, agent, rent and janitor service	1,371 00
Joseph Hellen, coal	165 58
J. E. Ober, coal	247 43
George H. Randall, ice	20 00
C. E. Symmes, laying carpets and repairing	3 25
Charles R. Dawson, painting and glazing	3 60
F. P. Cox, carpet cleaning	3 70
Joel Goldthwait, carpet	18 16
Greenough, Adams & Cushing, supplies	3 00
Lothrop, Spooner & Co., furniture polish	75
Murphy, Leavens & Co., supplies	8 72
City of Medford, watering streets account	3 55
Medford Steam Carpet Cleaning Co., cleaning carpet	6 94
D. N. Howard, supplies	95
A. C. Symmes, poker for furnace and repairing,	1.25
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	\$2,366 04

By appropriation, \$2,550.

CITY HALL EQUIPMENT.

Paid:

James H. Howard, vault doors, etc.	\$481 58
Donahue Bros., building vault and extra work	900 00
William S. Richards, supplies	231 48
F. E. Foster & Co., lumber	293 39
George W. Prowse, electrical work	5 75
J. H. Archibald, stock and labor	215 17
White & Walley, paint and labor	164 51

Page & Curtin, hardware, etc.	\$28 16
Oliver Whyte & Co., stock and labor	6 00
A. M. Ellis, moving safe	20 00
W. E. Ober, electrical wiring, etc.	120 18
A. S. Crowell, awning cord, shades, etc.	13 50
William Hall, repairing lock	50
J. H. Archibald, stock and labor	237 22
M. C. Vinal, mason work and whitening	107 27
City of Medford, Sewer Dept., sewer connection,	40 79
City of Medford, Highway Dept., stone work	38 00
Bowker, Torrey & Co., marble sign slab	5 00
Charles Ashdown, lettering marble slab	2 50
W. H. Campbell, lettering doors, etc.	2 44
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	\$2,913 44
By appropriation	\$2,900 00
By receipts	14 00
	<hr/>
	\$2,914 00

DECORATION AND CARE OF SOLDIERS' GRAVES.

Paid:

Henry Parsons, Quartermaster Post 66, G. A. R.,	300 00
By appropriation, \$300.	

ENGINE HOUSE, MEDFORD STREET.

Paid:

Crockwell Bros., final payment under contract,	\$1,987 36
Crockwell Bros., building platform	15 00
Clarence B. Cutler, services as architect	39 74
Page & Curtin, hardware	14 25
Stearns, Buck & Co., stock, labor and wiring	31 15
William Ordway, labor	5 00
F. E. Foster & Co., lumber	12 93
M. C. Warren & Co., hinges, etc.	3 50

Chelmsford Foundry Co., beams, etc.	\$6 96
City of Medford, Sewer Department, cement	2 04

\$2,117 93

By re-appropriation, \$2,117.93.

GRAVELLY CREEK (TO COMPLETE CONTRACT).

Paid :

D. M. Dwyer, balance due for filling	\$90 65
L. G. Derby, spreading 259 loads of filling	25 90

\$116 55

By re-appropriation, \$116.55.

HIGH SCHOOLHOUSE.

Paid :

Workmen, as per pay-rolls	\$335 44
William H. Lenox, grading, per contract	1,134 95
William H. Lenox, teaming, sand	4 50
T. Howard Barnes, proportion of salary	33 92
Cutting, Bardwell & Co., cost of extra foundations,	4,268 16
Cutting, Bardwell & Co., on contract for building,	70,640 00
Hartwell, Richardson & Driver, services as architects	1,250 00
City of Medford, Highway Department, grate	5 00
City of Medford, Highway Department, filling	126 25
S. Homer Woodbridge, professional services	340 65
J. F. Bubert, electrical work, per contract	1,000 00
James Tucker & Sons, plumbing, per contract	1,800 00
Patrick Connors, teaming, filling	55 20
Berry & Ferguson, pipe	2 68
Charles W. Jacobs, rubber boots	3 75
A. A. Sanborn, on contract for heating apparatus,	4,304 00

* \$85,304 50

By re-appropriation, \$146,967.62.

*To this amount add the sum of \$8,032.38, including cost of plans, expended the previous year, which makes the total cost of building to February 1, 1896, \$88,336.88.

HILLSIDE SCHOOLHOUSE.

Paid :

Workmen, as per pay-rolls	\$80 67
Wales & Holt, plans and specifications	694 35
Ham & Hopkins, contract for building	10,955 00
Ham & Hopkins, extra work	103 81
William H. Lenox, stripping loan	30 75
Will C. Eddy, on account of flagstaff	25 00
George S. Perry & Co., chairs, tables, etc.	101 30
F. E. Foster & Co., lumber	1 38
C. L. Batchelder, setting steps, concreting, etc.,	336 62
Isaac Coffin & Co., contract for heating and ven-	
tilating apparatus	1,260 00
Sweat & Gould, steps, etc.	170 50
P. H. Byron, grading	485 76
Page & Curtin, plumbing, per contract	625 00
Oliver Whyte & Co., mats	22 50
Boston Spar Co., putting up flagstaff	20 00
Edward W. Mitchell, clocks	45 00
The Bobrick School Furniture Co., desks, etc.	523 09
William Cushing Wait, cash paid for freight	1 65
William Hall & Co., towel rods	3 00
Page & Curtin, hose, ash barrels, etc.	35 66
Albany Venetian Blind Co., blinds	126 00
W. E. Ober, electrical work	6 27
Leavens & Co., students' tables	10 50
Isaac Coffin & Co., labor and supplies	6 10
	\$15,669 91

By appropriation, \$16,000.

HYDRANTS.

Paid :

City of Medford, Water Commissioners, 322 at	
\$15	\$4,830 00

By appropriation, \$4,830.

INSURANCE.

Paid :	
Clark & Green, on Washington schoolhouse	\$75 00
Geo. W. Stetson, on books in Public Library	150 00
J. O. Goodwin, on Public Library building	112 50
George W. Green, on Public Library building	180 00
George W. Green, on City Hall	6 25
J. O. Goodwin, mechanic's permit	1 25
J. O. Goodwin, on City Hall	1 25
Charles B. Buss, on portrait of General Lawrence,	26 25
Charles B. Buss, on stone crusher	31 26
Charles B. Buss, on engine house, Spring street,	90 00
George W. Stetson, on Washington schoolhouse,	42 50
J. E. Ober, on old High school building	90 00
Ham & Hopkins, cash paid J. E. Ober for in- surance on Hillside schoolhouse	247 39
	<hr/>
	\$1,053 65
By appropriation	\$1,800 00
By receipts	5 29
	<hr/>
	\$1,805 29

INTEREST.

Paid :	
Commonwealth of Massachusetts, on \$13,000, 6 months to June 11	\$227 50
Commonwealth of Massachusetts, on \$5000, 1 year to August 23, 1895	175 00
Warren Institution for Savings, on \$12,000, 12 months to January 12, 1896	480 00
F. S. Moseley & Co., on \$40,000, 6 months, 3 days, at $3\frac{1}{4}$ per cent	660 83
F. S. Moseley & Co., on \$50,000, 6 months, 1 day,	628 47
Medford Savings Bank, on \$12,000, 6 months,	240 00
Medford Savings Bank, on \$8,000, 12 months,	320 00
Medford Savings Bank, on \$25,000, 8 months,	666 67

Medford Savings Bank, on \$12,000, 6 months,	\$240 00
City of Medford, maintenance and interest on Bonds account, on \$13,137.75 average balance for 12 months, at 2½ per cent	328 44
Boston Commandery, K. T., on \$5,000, 12 months,	200 00
National Bank of Commerce, on \$35,000, 7 months, at 3¼ per cent	775 83
Trustees of Oak Grove Cemetery, on average monthly balance of \$16,126.66 of the Perpetual Care fund, at 4 per cent	645 06
Public Library, on Osgood and Tufts funds, 1 year to January 1, 1896	150 57
Protestant Churches — Hall church fund, Mystic \$78.97, Methodist \$51.34, Baptist \$63.31, Episcopal \$51.81, Unitarian \$28.78, Univer- salist \$25.79	300 00
Allston P. Joyce, City Clerk, income from Brad- bury fund	454 58
Allston P. Joyce, City Clerk, income from Se- comb fund	348 00
Allston P. Joyce, City Clerk, income from Si- monds fund	78 00
Coupons from 13 notes, 1 year to Jan. 1, 1896,	520 00
40 coupons due April 1, 1896, Sewerage Loan,	800 00
74 coupons due July 1, 1896, Sewerage Loan .	1,280 00
40 coupons due October 1, 1896, Sewerage Loan,	800 00
56 coupons due January 1, 1896, Sewerage Loan,	1,120 00
56 coupons due May 1, 1896, Public Building Loan,	1,120 00
45 coupons due July 1, 1896, Public Building Loan,	900 00
56 coupons due November 1, 1896, Public Build- ing Loan	1,120 00
181 coupons due January 1, 1896, Public Build- ing Loan	3,620 00
9 coupons due January 1, 1895, Public Play- ground Loan	180 00

EXPENDITURES.

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5 coupons due June 1, 1895, Public Playground Loan	\$100 00
7 coupons due July 1, 1895, Public Playground Loan	140 00
14 coupons due December 1, 1895, Public Playground Loan	280 00
7 coupons due January 1, 1896, Public Playground Loan	140 00
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	\$19,038 95
By appropriation	\$9,514 02
By receipts	5,349 31
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	\$14,863 33

LINCOLN SCHOOLHOUSE.

Paid :

William H. Lenox, teaming loam	\$97 58
J. H. Archibald, building fence	151 20
Page & Curtin, supplies	42 50
Fuller & Warren Warming and Ventilating Co., on contract	400 00
Fuller & Warren Warming & Ventilating Co., castings	4 32
Joseph Breck & Sons, supplies	12 00
George S. Perry & Co., desks, chairs, etc.	140 95
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	\$848 55

By re-appropriation, \$1,274.25.

METROPOLITAN SEWER TAX.

Paid :

Edward P. Shaw, State Treasurer	\$9,950 81
By warrant, \$9,950.81.	

MISCELLANEOUS ACCOUNT.

Paid :	
Security Safe Deposit Co., rent of safe 1 year to March 1, 1896	\$25 00
Allston P. Joyce, cash paid for sundries	32 08
James J. Shannon & Co., repairing typewriter,	6 20
Geo. H. Walker & Co., map of Boston and vicinity,	10 00
Harvey C. Derby, dating stamp, etc.	4 50
Esther R. Hinckley, clerical services for City Collector	6 00
Esther R. Hinckley, clerical services for City Treasurer	2 00
Chas. B. Stevens, registrar of deeds, recording,	11 60
J. Nelson St. Dennis, professional services	8 00
Donahue's Express, expressing	25
Addison C. Getchell, printing half-tones	45 00
Greenough, Adams & Cushing, letter seal	1 50
Edward A. Hathaway, posting bills	2 50
Joel Goldthwait & Co., rubber mat	2 50
Library Bureau, card, index, case, etc.	17 00
A. W. Robinson, expressing	5 75
P. R. Litchfield, car fares, etc.	19 50
H. C. Dimond, cash rack	1 00
Edward B. Dennison, recording deeds	1 80
Robert Burlen, book binding	26 00
Belknap & Co., rubber stamps	65
C. H. Hillman, serving notices	58 40
Smith's M. & B. Express, expressing	60
Heywood Bros. & Co., office furniture	55 25
A. S. Crowell, picture frame, etc.	5 39
C. H. Hillman, collecting 22 poll taxes	11 00
F. C. Litchfield, clerical services	165 00
Harvey C. Derby, rubber stamps	2 70
C. H. Day, carriage hire	115 00
Sampson, Murdock & Co., directories	10 00
L. R. Hall, keys	75

F. W. Montague, collecting 99 poll taxes	\$49 50
Derby Desk Co., case of drawers	22 00
J. A. Smith, expressing	3 50
Littlefield Directory Co., directories	4 00
A. C. Frost, services as night watchman	398 00
Bates Manufacturing Co., dating stamp	9 00
City of Medford, Sewer Department, sewer assessment	37 23
Joseph Hellen, one-half cost weighing coal	55 00
The Fairbanks Co., repairing scales	3 00
J. H. Archibald, stock and labor at City Hall	29 93
Marshall S. Culver, call bells	8 50
Heywood Bros. & Co., castors	1 00
Paine Furniture Co., table	8 00
Charles E. Bacon, labor at old silk works	4 00
J. Connors, teams used in tearing down silk works building	3 50
T. O. H. Mitchell, carpenter work	22 28
C. E. Symmes, hanging shades, etc.	50
Security Safe Deposit Co., rent of safe to Nov. 1, 1896	10 00
J. L. Blackmer & Co., signs	5 00
William S. Child, delivering tax bills	52 00
Esther R. Hinckley, clerical services	34 00
Haleyon N. Hartshorn, clerical services	11 25
John H. Hooper, making descriptions of estates, etc.	122 00
W. E. Ober, call bells	10 00
Carrie Goodale, clerical services in Collector's office	96 00
Malden & Melrose Gas Light Co., burners	23 75
J. W. Wood, ice for fountain	30 00
F. E. Foster & Co., lumber for cases in Assessor's office	18 11
Chase's M. & B. Express, expressing	1 00

N. E. Tel. & Tel. Co., telephone 2 months at	
Hose 4 house	\$6 40
Leavens & Co., 3 wardrobes	29 50
W. S. Richards, labor, and asbestos paper	2 53
American Bank Note Co., printing bonds	157 00
Charles R. Dawson, stock and labor	7 16
A. R. Andrews, repairing typewriter	8 12
J. W. Barrett, carriage hire	4 00
"Medford Mercury," two subscriptions	4 00
Littlefield Directory Pub. Co., 3 Medford directories,	6 00
George W. Nichols, returns of deaths for 1895	42 50
J. E. Clark, M.D., returns of births for 1895	3 00
Geo. W. Mills, M.D., returns of births for 1895,	10 75
J. W. Bean, M.D., returns of births for 1894	
and 1895	15 75
N. F. Chandler, M.D., returns of births for 1895,	7 50
J. Nelson St. Dennis, M.D., returns of births	
for 1895	7 00
J. B. Mahoney, M.D., returns of births for 1895,	8 75
James E. Cleaves, M.D., returns of births for 1895,	9 00
A. Ward Follet, Somerville, returns of births	
for 1895	5 00
Albert C. Aldrich, Somerville, returns of births	
for 1895	1 75
McClellan's Express, expressing	2 65
E. W. Hayes, cash paid for sundry articles	21 05
White & Walley, painting	2 78
J. C. Miller, Jr., printing 500 copies of Mayor's	
address	35 00
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	\$2,122 16

By appropriation, \$2,500.

MISCELLANEOUS CREDITS.

Paid :

Commonwealth of Massachusetts, corporation	
tax	\$10 24

Commonwealth of Massachusetts, part of note June 11, 1890, for 5 years	\$1,000 00
Commissioners of Sinking Funds, premiums re- ceived from sale of bonds as follows :	
\$149,000, Medford Public Build- ing Loan	\$6,280 35
\$91,000, City of Medford Water Fund	3,939 39
\$185,000, Medford Sewerage Loan, 13,116 50	23,336 24
Commonwealth of Massachusetts, note due Aug. 23, 1895	5,000 00
F. S. Moseley & Co., note due June 22, 1895 .	50,000 00
	<hr/>
	\$79,346 48
Transferred to other accounts	9,559 17
	<hr/>
	\$88,905 65
By receipts, \$573,803.99.	

MIDDLESEX COUNTY TAX.

Paid :

J. O. Hayden, County Treasurer	\$14,753 88
By warrant, \$14,753.88.	

NOTES IN ANTICIPATION OF TAXES.

Paid :

F. S. Moseley & Co., note of April 12, at 7 mos.,	\$35,000 00
F. S. Moseley & Co., note of May 15, at 6 mos. .	40,000 00
Medford Savings Bank, note of March 30, at 8 months	25,000 00
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	\$100,000 00
By amount authorized, \$100,000.	

PAYMENT OF CITY DEBT.

Paid :

Commonwealth of Massachusetts, part of note June 11, 1890, at 5 years	\$12,000 00
By appropriation, \$12,000.	

POLICE STATION.

Paid :

F. G. Coburn & Co., on contract for building .	\$13,900 78
F. G. Coburn & Co., one-half insurance	30 00
F. G. Coburn & Co., freestone	22 00
Page & Curtin, gas piping	100 00
Clarence B. Cutler, services as architect	250 00
Seth W. Fuller, electrical supplies	68 76
City of Medford, Sidewalks and Edgestone ac- count, one-half cost of brick sidewalk	309 62
Crockwell Bros., circular sign and signal boxes,	30 00
	<hr/>
	\$14,711 16
By appropriation, \$14,754.49.	

PRESERVATION OF PUBLIC DOCUMENTS.

Paid :

Miss H. N. Hartshorn, copying	\$33 50
J. L. Fairbanks, stationery	6 00
F. W. R. Emery, binding	25 00
Library Bureau, oak card index case	115 00
Stella S. Weston, copying	18 00
Greenough, Adams & Cushing, cards and printing,	110 62
E. Addie Black, indexing old records	207 00
J. C. Miller, Jr., printing	20 00
	<hr/>
	\$535 12
By appropriation, \$544.30.	

PRINTING AND STATIONERY.

Paid :

J. C. Miller, Jr., printing	\$116 25
Greenough, Adams & Cushing, stationery	96 02
Allston P. Joyce, cash paid for stamps, etc.	4 50
Edward B. Dennison, cash paid for stamps	2 00
Francis Doane & Co., stationery	15 76
F. T. Spinney, stamps and envelopes	183 58
James J. Shannon, typewriter supplies	14 45
Addison C. Getchell, 50 circulars	2 00
Edward W. Mitchell, stationery	35 05
A. B. Morss, printing	65 00
American Bank Note Co., letter headings	6 25
A. R. Andrews, supplies	11 35
	<u>\$552 21</u>

By appropriation, \$800.

RIFLE RANGE.

Paid :

Samuel B. Tay, building rifle range	\$150 00
E. R. Dearborn, care of range for 1895	25 00
	<u>\$175 00</u>

By appropriation, \$175.

RINGING BELLS ON HOLIDAYS.

Paid :

Albert C. Curtis	\$6 00
Thomas F. Blackinton	9 00
Charles E. Marvel	3 00
I. H. Kelley	9 00
Robert A. Rogers	9 00
C. E. Curtis	3 00
J. G. Hall	3 00
	<u>\$42 00</u>

By appropriation, \$50.

SALARIES.

Paid :

Parker R. Litchfield, salary as City Treasurer .	\$1,650 00
Edward W. Hayes, salary as City Collector .	1,200 00
Allston P. Joyce, salary as City Clerk . . .	1,200 00
Edward B. Dennison, salary as Mayor's Clerk .	1,000 00
James B. Simpson, salary as City Messenger .	907 00
T. Howard Barnes, $\frac{3}{4}$ of salary as City Engineer,	800 00
Ella S. Hineckley, clerical assistance in City Clerk's office	450 00
Calvin H. Clark, salary as Inspector of Buildings,	513 92
Everard I. Langell, salary as clerk of Common Council	250 00
C. H. Fowle, salary as Clerk of Committees, February 1-12, 1895	16 07
Andrew Nimmo, salary as Clerk of Committees,	433 93
Henry F. Moore, salary as Inspector of Animals and Provisions	300 00
Henry F. Moore, salary as Inspector of Milk and Vinegar	150 00
G. F. Andrews, salary as Inspector of Plumbing;	999 96
N. F. Chandler, M.D., salary as City Physician, February, 1895	25 00
J. B. Mahoney, M.D., salary as City Physician to February 1, 1896	275 00
B. F. Hayes, salary as City Solicitor	800 00
Baxter E. Perry, salary as Mayor, 13 months .	1,083 33
Horace D. Hadley, salary as Registrar of Voters,	100 00
Henry B. Nottage, salary as Registrar of Voters,	100 00
Thomas Crockwell, salary as Registrar of Voters,	100 00
Allston P. Joyce, salary as clerk of Registrars of Voters	125 00
John D. Street, salary as Commissioner of Sewers,	50 00
J. W. Rockwell, salary as Commissioner of Sewers	50 00

EXPENDITURES.

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Charles H. Parker, salary as Commissioner of Sewers	\$50 00
Frank Hathaway, salary as Public Weigher	25 00
Daniel W. Lawrence, salary as treasurer of Sinking Funds	50 00
Edward W. Hayes, salary as secretary to Overseers of the Poor	150 00
Peter F. Lenox, salary as Pound Keeper	25 00
Francis E. Perley, salary as member of Fish Committee	10 00
Richard J. Dwyer, salary as member of Fish Committee	10 00
Thomas Pearee, salary as member of Fish Committee	10 00
Albert F. Sise, salary as License Commissioner to June 1, 1895	16 67
Daniel G. Mansfield, salary as License Commissioner to June 1, 1895	16 67
William H. Warren, salary as License Commissioner to June 1, 1895	16 67
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	\$12,959 22

By appropriation, \$13,000.

SANITARY IMPROVEMENTS.

Paid :	
Page & Curtin, stock and labor	\$90 00
W. E. Ober, electric light	3 00
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	\$93 00

By appropriation, \$100.

SINKING FUNDS.

Paid :	
Commissioners of Sinking Funds, amount of assessment included in tax levy of 1895	\$11,157 85
By assessment, \$11,157.85.	

SOLDIERS' RELIEF.

Paid :

Sarah A. Pooley, cash allowance	\$72 00
William Lawrence, cash allowance	120 00
James L. Colburn, cash allowance	130 00
John Simpson, cash allowance	120 00
George W. Emery, cash allowance	130 00
Henry F. Reed, cash allowance	72 00
James C. Rice, cash allowance	24 50
Daniel R. Briggs, cash allowance	90 00
William Johns, cash allowance	90 00
Cutler D. Sanborn, cash allowance	24 00
J. G. Fuller, cash allowance	30 00
Margaret E. McDonald, cash allowance	16 00
J. A. Smith, expressing	2 50
A. W. Hill, washing	3 11
E. S. Randall, goods delivered to Mary A. McKinney	5 00
O. S. Foster, rent	72 00
John H. Norton, rent	81 00
Mrs. E. R. Ray, room rent	3 50
Mrs. H. M. Orcutt, 63 days' care of Mary A. Bryant	71 99
F. P. Kent, groceries	29 93
Joseph Hellen, coal	4 77
George L. Newhall, carriage hire	3 00
John W. Barrett, carriage hire	1 00
Mrs. H. M. Orcutt, board	219 64
Mrs. Elliott Brooks, board	20 00
Thomas M. Fox, board	15 00
C. F. Bryant, board and care	25 00
J. E. Ober, coal	4 57
D. N. Howard, medicines	7 55
F. E. Garvin & Co., groceries	5 00
E. S. Randall, groceries and provisions	10 00

EXPENDITURES.

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F. P. Kent, groceries and provisions . . .	\$65 38
J. H. McQuade, extracting teeth . . .	1 00
Greenough, Adams & Cushing, book . . .	6 50
City of Malden, aid furnished William Johns . . .	77 85
E. W. Hayes, services as agent . . .	37 25

 \$1,691 04

By appropriation . . . \$1,800 00

By receipts . . . 8 00

 \$1,808 00

STATE AID.

Paid :

Sundry persons, as per pay-rolls . . . \$2,680 00

By appropriation . . . \$1,216 00

By receipts . . . 2,044 50

 \$3,260 50

STATE TAX.

Paid :

Edward P. Shaw, State Treasurer . . . \$9,345 00

By warrant, \$9,345.

STREET LIGHTS.

Paid :

Malden Electric Co., lighting, as per contract . \$12,392 03

T. J. Sullivan, care of oil lamps . . . 5 00

Michael F. Dwyer, repairing lamp, etc. . . 3 50

 \$12,400 53

By appropriation, \$12,902.02.

TELEPHONES.

Paid :

New England Tel. & Tel. Co., tolls and rental \$127 67

By appropriation, \$160.

VOTING PRECINCTS AND ELECTION EXPENSES.

Paid :

Ward officers, per pay-rolls	\$732 00
Special police, per pay-rolls	46 85
Page & Curtin, supplies	1 78
J. C. Miller, Jr., printing	243 85
H. C. Dimond & Co., stamp and pad	2 40
C. E. Symmes, chairs	1 50
T. O. H. Mitchell, labor on ballot boxes, etc.,	13 50
J. A. Smith, teaming	10 00
Medford Mercury, advertising	53 80
James Dinsmore, carriage hire	6 00
Mendell C. Spencer, posting notices	20 00
Thomas R. Quealey, cleaning polling place	15 00
J. E. Ober, use of hall	47 50
John J. Crockwell, fitting up booths and room for Registrars	100 50
F. W. Montague, candles	1 05
Arthur C. Symmes, irons	75
E. J. Robinson, rent of hall	47 50
J. W. Barrett, carriage hire and posting notices,	2 75
J. R. Young, dinners at City Hall	35 00
Savage's Express, expressing	2 00
George L. Newhall, carriage hire	5 75
Edward W. Mitchell, stationery	1 12
W. R. Ordway, cleaning polling place, Ward 1,	15 00
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	\$1,405 60

By appropriation, \$1,500.

ASSESSING DEPARTMENT.

COMPENSATION OF ASSESSORS AND CLERK.

Paid :

Henry Withington, salary as Assessor	\$500 00
Edward S. Randall, salary as Assessor	500 00

EXPENDITURES.

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Edward W. Hayes, salary as Assessor	\$500 00
Esther R. Hinckley, clerical services	71 00
Ellen R. Sampson, clerical services	311 11

 \$1,882 11

By appropriation, \$1,900.

ASSESSORS' EXPENSES.

Paid :

Employees, as per pay-rolls	\$691 50
Wright & Potter Printing Co., printing	6 50
Greenough, Adams & Cushing, books and stationery,	281 00
Medford Mercury, advertising	21 70
Edward W. Mitchell, stationery	7 77
John H. Hooper, abstracts of deeds and mortgages,	275 00
J. C. Miller, Jr., printing	6 65
George E. Crosby & Co., printing	392 50
Charles H. Day, carriage hire	175 00
Henry Withington, cash paid for sundry articles,	14 36
Ellen R. Sampson, expenses to and from Cambridge,	4 15

 \$1,876 13

By appropriation \$1,000 00

By transfer 1,000 00

 \$2,000 00

AUDITING DEPARTMENT.

SALARY OF CITY AUDITOR.

Paid .

George D. Cummings, salary as City Auditor	\$1,200 00
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By appropriation, \$1,200.

EXPENSES OF AUDITING DEPARTMENT.

Paid :

J. C. Miller, Jr., printing	\$20 50
Francis Doane & Co., books and stationery	22 80

Esther R. Hinckley, clerical assistance . . .	\$23 50
George D. Cummings, cash paid for sundries . . .	2 08
Belknap & Co., rubber stamps, etc.	3 05
Greenough, Adams & Cushing, stationery . . .	3 50
Edward W. Mitchell, stationery	2 53
F. T. Spinney, stamps	10 00
G. Mabel Greaves, clerical services	32 00
Derby Desk Co., desk and chair	75 15
Maud E. McFall, clerical services	4 50
Chase's M. & B. Express, expressing	30

\$199 91

By appropriation, \$200.

PRINTING REPORTS.

Paid:

American Express Co., expressing	\$6 54
Addison C. Getchell, printing 1320 reports . . .	687 35
George D. Cummings, cash paid for postage and car fares	3 14
Medford Mercury, advertising	1 75
F. T. Spinney, postage stamps	1 00

\$699 78

By appropriation, \$700.

CEMETERY DEPARTMENT.

SALARIES OF TRUSTEES.

Paid:

Charles W. Jacobs, salary as trustee	\$25 00
Asa Law, salary as trustee	25 00
John Hutchins, salary as trustee	25 00
E. S. Randall, salary as trustee	25 00
Robert H. Grace, salary as trustee	25 00

\$125 00

By appropriation, \$125.

OAK GROVE CEMETERY.

Paid :

Workmen, as per pay-rolls	\$3,886 12
City of Medford, Water Department, water	587 74
Page & Curtin, hardware, etc.	19 57
John A. Smith, measuring	6 15
Martin Coppenger, teaming	53 25
P. H. Kirwin, sharpening tools, etc.	21 10
James Brogan, manure	18 00
Martin Coppenger, manure	14 00
Wight & Sorgie, boundary posts	45 00
Greenough, Adams & Cushing, stationery	4 50
Joseph Breck & Sons, seeds	19 96
F. T. Spinney, stamped envelopes	10 90
Adolph A. Kuehl, frames	11 71
Orvid M. Fowler, manure	70 88
F. E. Foster & Co., cement	2 80
O. M. Wentworth, lettering stones	105 12
Dawson & Porter, labor and material	4 50
Frank Hervey, powder and fuse	4 78
John Duane, plants	54 00
A. F. McCarthy & Co., plants	123 48
Mrs. Ellen M. Gill, plants	40 75
George H. Bean, storage of plants	10 00
D. H. Smith, canvas	6 00
N. E. Tel. & Tel. Co., telephone rental	8 36
Edward W. Mitchell, blank book	55
John Tutten, cutting granite in cemetery	2 50
J. C. Miller, Jr., printing	3 75
M. C. Vinal, mason work	5 00
George W. Simmons & Co., clothing	18 00
W. A. Joyce, tracing plan, paper and blue prints	12 30
Allston P. Joyce, extra work on plan of cemetery	25 00
Allston P. Joyce, blue prints	3 60
Joseph S. French, manure	98 00
Chase's M. & B. Express, expressing	50

James McCusker, pick and sledge handles	\$3 00
Stillman G. Derby, manure	4 00
Allston P. Joyce, services as clerk 1 year	100 00
George Nichols, manure	15 75
	<hr/>
	\$5,420 62
By appropriation	\$1,300 00
By receipts	4,142 00
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	\$5,442 00

CROSS STREET CEMETERY.

Paid :

Workmen, as per pay-rolls	\$32 00
City of Medford, Water Department, water	3 25
F. E. Foster & Co., lumber	5 04
W. D. Carter, labor and material	4 00
Page & Curtin, hardware	2 55
J. T. Bassett, whitewashing	2 00
Trustees of Oak Grove Cemetery, plants	5 00
City of Medford, Watering Streets account	3 33
Harriet W. Brown, care of flowers	4 00
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	\$61 17

By appropriation, \$125.

SALEM STREET CEMETERY.

Paid :

Workmen, as per pay-rolls	\$32 00
Page & Curtin, supplies	3 75
Trustees of Oak Grove Cemetery, plants	2 00
City of Medford, Watering Streets account	3 78
	<hr/>
	\$41 53

By appropriation, \$150.

ENGINEERING DEPARTMENT.

EXPENSES OF CITY ENGINEER.

Paid :	
Employees, as per pay-rolls	\$960 08
F. E. Foster & Co., lumber	19 43
Belknap & Co., rubber stamp	50
A. R. Andrews, typewriter supplies	2 85
E. A. Hathaway, cedar stakes	3 00
Edgar T. White, typewriting	10 00
J. C. Miller, Jr., printing	14 65
Geo. H. Walker & Co., map of Boston and vicinity,	10 00
James J. Shannon & Co., Peabody files and type-	
writer supplies	12 95
N. E. Tel. & Tel. Co., telephone rental and tolls,	16 50
E. G. Saltmann, paper	13 89
George W. Prowse, electrical work	6 87
Frost & Adams, ink and paper	13 47
E. W. Mitchell, stationery	11 40
T. Howard Barnes, incidental expenses	12 85
J. H. Archibald, stock and labor	19 95
F. W. Barry, Beal & Co., stationery	1 50
Derby Desk Co., office furniture	267 50
Smith's M. & B. Express, expressing	40
Paine's Furniture Co., bookcase	13 00
Crosby Steam Gage & Valve Co., planimeter	26 00
Malden Electric Co., light	63
John P. Lovell Arms Co., lines	60
Charles A. Brackett, trays	35 10
Henry Manley, work on Wellington bridge	13 05
C. H. Day, carriage hire	2 50
A. F. Sargent, use of plans	5 00
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	\$1,493 67

By appropriation, \$1,500.

MAP OF MEDFORD.

Paid :	
Employees, as per pay-rolls	\$2,351 81
C. Irving Swan, blue prints	1 60
Chase's M. & B. Express, expressing	1 75
Frost & Adams, paper and supplies	22 48
T. Howard Barnes, on account of salary as City Engineer	12 43
C. H. Day, carriage hire	4 00
Allen Bros. rubber figures	1 00
Charles R. Dawson, supplies	2 66
Page & Curtin, supplies	2 48
Smith's M. & B. Express, expressing	45
James J. Shannon, typewriter ribbons	2 00
E. G. Saltmann, paper	12 92
Malden Electric Co., light	9 57
J. A. Smith, team hire	1 50
Edward W. Mitchell, stationery, etc.	45 26
William Hall & Co., key blanks	50
Greenough, Adams & Cushing, index cards	4 50
Aaron R. Gay & Co., books	3 50
J. C. Miller, Jr., printing	17 00
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	\$2,497 41
By appropriation, \$2,500.	

FIRE DEPARTMENT.

SALARIES OF ENGINEERS AND MEN.

Paid :	
Arthur C. Symmes, salary as chief engineer, 6 months to August 1, 1895	\$202 00
Charles E. Bacon, salary as chief engineer, 6 months to February 1	234 94
Jude C. Clark, salary as assistant engineer	102 00
Charles E. Bacon, salary as assistant engineer	52 00

Frank O. Waterman, salary as assistant engineer, 3 months to February 1	\$25 00
Jude C. Clark, salary as clerk of engineers	50 00
Engineman and drivers, as per pay-rolls, to Feb. 1,	6,366 08
Hook & Ladder Co., as per pay-rolls, to Feb. 1,	599 08
Chemical Co. No. 1, as per pay-rolls, to Feb. 1,	185 25
Hose Co. No. 1, as per pay-rolls, to Feb. 1	499 42
Hose Co. No. 3, as per pay-rolls, to Feb. 1	299 66
Hose Co. No. 4, as per pay-rolls, to Feb. 1	293 33
Combination, Chemical Co., as per pay-rolls, to February 1	229 15
Daniel White, stoker, to February 1	52 00
Edgar H. Babcock, 10 days as substitute driver,	22 50
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	\$9,212 41

By appropriation, \$9,510.

ORDINARY EXPENSES.

Paid:

Judson A. Hanson, services as substitute driver,	\$521 31
F. E. Foster & Co., lumber and cement	89 16
Malden Electric Co., light	149 80
Malden & Melrose Gas Light Co., gas	245 60
Page & Curtin, hardware	76 90
J. E. Ober, hay, grain, coal and hardware	450 28
James Bean, hay and grain	904 03
C. H. Hartshorn, repairing harnesses, etc.	120 35
City of Medford, Water Department, water	97 53
J. C. Miller, Jr., printing	30 00
J. C. Clark, agent, hay	196 38
C. W. H. Moulton, ladder	5 00
E. Teel & Co., repairing, etc.	69 35
M. C. Vinal, mason work	22 51
J. J. Bowen, shoeing horses	39 50
Ames Plow Co., supplies	5 98
Edgar Babcock, services as substitute driver	33 75

Snow Flake Axle Grease Co., traces	\$6 50
Chas. E. Berry, shortening hames and collar	4 00
James H. Paine & Son, labor and supplies	24 96
A. B. Morss, printing	72 00
Boston & Maine Railroad Co., freight	77
Charles E. Pierce, books	4 34
Houghton & Dutton, blankets	13 68
American Express Co., expressing	45
McClellan's Express, expressing	10 48
Samuel Perrins, Jr., repairing harnesses	3 40
W. E. Ober, electrical supplies	23 47
Chase's Express, expressing	15 85
George S. Delano, mattresses, bed and springs,	41 60
William H. Hitchings, veterinary services	70 50
A. S. Crowell, wall papering	21 00
M. W. Robinson & Son, supplies	1 50
R. M. Johnson, cleaning vaults	10 00
C. P. Whittemore, hay	157 88
T. H. Tomlinson, wood	1 50
Sidney F. Dean, shoeing horses	17 75
Herbert Etter, shoeing horses	188 81
George L. Newhall, carriage hire	2 25
M. P. Griffin, carriage hire	75
Leander Barber, 1 doz. brooms	4 25
C. H. Day, use of horse	6 00
City of Medford, Sidewalks and Edgestones ac- count	230 17
Charles R. Dawson, plate glass	1 50
Isaac Coffin & Co., grate bars, etc.	7 45
A. J. Wilkinson & Co., plyers	2 40
Edward W. Mitchell, 2 regulators	30 00
Charles E. Barry, 1 harness	65 00
E. Caldwell, 6 Smyrna rugs	16 50
W. H. Grothe, horse shoeing	4 50
M. M. Grimes, postage stamps	3 00

L. R. Hall & Co., brass keys	\$1 05
James Ingraham, services as substitute driver	1 13
	<hr/>
	\$6,258 05
By appropriation	\$6,254 58
By transfer	230 17
By receipts	43 00
	<hr/>
	\$6,527 75

FIRES IN THE WOODS.

Paid :	
Workmen, as per pay-rolls	\$98 75
Page & Curtin, brooms	6 70
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	\$105 45
By appropriation, \$196.	

FIRE ALARM BOXES.

Paid :	
Bradlee, Hastings & Co., hardware	\$2 67
Fire and Police Tel. Co., galvanized iron	30 66
Edgar H. Babcock, labor repairing wires	23 63
N. E. Gamewell Co., gong, etc.	62 40
Fire and Police Tel. Co., boxes, etc.	371 45
Joseph Morss, brass tags	4 00
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	\$494 81
By appropriation, \$500.	

NEW HOSE.

Paid :	
A. S. Jackson, new hose	\$1,189 00
By appropriation, \$1,200.	

REPAIRS AT CENTRE HOUSE.

Paid :	
Page & Curtin, supplies	\$24 44
F. E. Foster & Co., lumber	66 44
Clark Bros., stock and labor	55 00
J. A. Cross & Son, stock and labor	38 25
Walworth Mfg. Co., supplies	16 60
Bride & Ames, stock and labor	64 06
A. S. Crowell, wall paper and shades	17 90
E. H. Babcock, labor	15 75
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	\$298 44
By appropriation, \$300.	

SUPPLY WAGON.—SOUTH MEDFORD.

Paid :	
E. Teel & Co., wagon	\$225 00
By appropriation, \$225.	

TELEPHONES.

Paid :	
N. E. Tel. & Tel. Co., rental and tolls	\$360 88
By appropriation, \$414.	

BOARD OF HEALTH.

SALARIES OF BOARD OF HEALTH.

Paid :	
W. L. Hall, M.D., salary as member 1 year	\$50 00
Jas. E. Cleaves, M.D., salary as member 1 year,	50 00
J. Walter Bean, M.D., salary as member 1 year,	50 00
Wm. P. Clark, salary as member 1 year,	50 00
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	\$200 00
By appropriation, \$200.	

GENERAL EXPENSES.

Paid :

Alvin R. Reed, salary as clerk 11 months	\$412 50
J. C. Miller, Jr., printing	25 00
E. W. Mitchell, stationery	1 00
Harold C. Ernst, M.D., professional services	77 50
W. M. Simpson, veterinary services	7 00
Henry F. Moore, burying cats, dogs, hens, etc.	18 50
Medford Mercury, advertising	39 50
F. T. Spinney, stamped envelopes and postal cards	28 80
Addison C. Getchell, printing 50 reports	7 00
M. F. Dwyer, services as inspector 1 year	150 00
C. H. Hillman, serving notices	2 10
George L. Newhall, carriage hire	3 00
Charles T. Jones, removing dead fish from river,	4 00
W. E. Ballsdon, removing dead fish from river,	4 00
J. E. Bankhead, removing dead fish from river,	4 00
J. W. Bean, M.D., cash paid for anti-toxine	3 00
John W. Barrett, carriage hire	2 00
M. F. Dwyer, burying cats, dogs, etc.	35 50
D. N. Howard, supplies	21 09
William F. Hogan, burying pig	2 00
E. A. Knowlton, burying pig	1 00
Wendell C. Spencer, posting notices	2 50
Willie Griffin and Moses Somers, burying 2 cats,	50
C. L. Goodale, addressing cards	2 50
Tufts' Medical School Laboratory, analyzing	23 75
M. R. Warren, supplies	4 50
D. N. Howard, culture tubes, etc.	17 30
	<hr/>
	\$899 54

By appropriation, \$900.

HIGHWAY DEPARTMENT.

SALARY OF STREET COMMISSIONER.

Paid :

John P. Prichard, salary as Street Commissioner, \$1,600 00

By appropriation, \$1,600.

ASHES.

Paid :

Workmen, as per pay-rolls \$3,030 32

By appropriation \$3,000 00

By receipts 54 35

\$3,054 35

BRIDGES.

Paid :

Workmen, as per pay-rolls \$120 50

S. W. Fuller, lumber 76 30

F. E. Foster & Co., lumber 56 50

Page & Curtin, nails 3 25

\$256 55

By appropriation, \$500.

CARE OF TREES.

Paid :

Workmen, as per pay-rolls \$423 00

McClellan's Express, expressing 1 00

Charles R. Dawson, brush 1 00

George H. Morrill & Co., tree ink 29 89

Chapman & Soden, felt 5 55

J. C. Miller, Jr., printing 2 00

William S. Richards, paper and tacks 12 32

Page & Curtin, supplies 6 25

Oliver Whyte, tree guards	\$159 30
J. E. Ober, poles	1 60
	<hr/>
	\$641 91
By appropriation	\$1,000 00
By receipts	75
	<hr/>
	\$1,000 75

COLLECTION OF HOUSE OFFAL.

Paid :	
Workmen, as per pay-rolls	\$2,110 28
P. H. Kirwin, shooing horses	35 14
William P. Clark, name plates	35 91
Arthur C. Symmes, new wagon	215 00
Arthur C. Symmes, repairing	2 25
Highway Department, care of horses	365 00
John S. Williams, collars, etc.	19 50
Page & Curtin, pails	1 50
F. E. Chandler, pails	3 00
	<hr/>
	\$2,787 58
By appropriation	\$4,700 00
By receipts	325 00
	<hr/>
	\$5,025 00

DAISY STREET.

Paid :	
Workmen, as per pay-rolls	\$193 25
By appropriation, \$600.	

FOREST STREET CULVERT.

Paid :	
Workmen, as per pay-rolls	\$254 25
Portland Stone Ware Co., pipe	78 16
Boston & Lockport Block Co., supplies	2 00

EXPENDITURES.

309

Page & Curtin, axe	\$1 00
Charles W. Jacobs, rubber boots	7 50
City of Medford, Sewer Department, cement	1 03
George D. Goodrich, drain pipe	23 59

 \$367 53

By appropriation, \$400.

FOREST STREET WIDENING.

Paid:

Workmen, as per pay-rolls	\$437 88
James Bean, coal	15 44
Frank Hervey, powder and fuse	14 75
Chase, Parker & Co., steel	29 76

 \$497 83

By appropriation, \$500.

GENERAL REPAIRS OF HIGHWAYS.

Paid:

Workmen, as per pay-rolls	\$12,814 52
William S. Richards, hardware	14 15
Frank Hervey, salt, powder, fuse, etc.	38 63
F. E. Foster & Co., cement and lumber	69 48
W. E. Ober, electrical work	2 15
Rawson & Morrison, supplies	75 00
E. Teel & Co., repairing and supplies	163 65
Osgood & Hart, gratings	16 50
Berry & Ferguson, pipe	1 34
Addison C. Getchell, printing 200 reports	33 00
Page & Curtin, hardware, etc.	42 04
Frank H. Peak, stationery	3 65
Joseph Hellen, coal	7 40
Herbert Etter, horseshoeing, etc.	62 50
J. E. Ober, coal and cement	247 74
Bradlee, Hastings & Co., tools, etc.	41 10
James Bean, coal, hay and grain	2,852 56

J. M. Trafton, teaming	\$5 00
W. A. Wood, supplies	17 50
Chase, Parker & Co., supplies	90
Sidney F. Dean, labor	1 55
Boston & Maine R.R., freight	24 01
Boston & Maine R.R., 100 ride ticket	7 50
Dennis M. Hook, teaming	90 00
Wellman Sole Cutting Machine Co., stock and labor	13 21
W. E. Bentley, supplies	2 00
E. A. Carlisle, Pope & Co., supplies	2 10
John S. Williams, harness supplies	118 54
Miller & Shaw, supplies	10 40
Malden Electric Co., light	63 69
Charles R. Dawson, paint, etc.	12 60
C. H. Hartshorn, repairing harnesses, etc.	94 30
F. W. Montague, vinegar, salt, oil, etc.	30 35
F. T. Spinney, stamp	8 00
A. Treadwell, photographing	21 00
City of Medford, Water Department, water and repairing	22 69
City of Medford, Water Department, new service to city stable	131 87
City of Medford, Water Department, one smoke-stack, etc.	125 00
City of Medford, Sewer Dept., pipe and cement, City of Medford, City Hall Equipment account, 4 cell doors	27 63
J. C. Miller, Jr., printing	14 00
J. C. Miller, Jr., printing	10 50
Old Corner Drug Store, horse medicine	11 65
N. E. Tel. & Tel. Co., rentals and tolls	105 10
E. W. Mitchell, stationery	7 20
E. W. Mitchell, wagon	10 00
Leonard & Ellis, supplies	57 40
M. E. Lauriat, clerical services	312 00
Haleyon N. Hartshorn, clerical services	1 50

Bride & Ames, supplies	\$0 25
W. P. Phillips & Co., supplies	12 00
Oliver Whyte & Co., wire work	10 70
Edson Mfg. Co., machine parts, etc.	7 04
George Tyler & Co., hay cutter, etc.	8 25
Crosby Steam Gage Co., gages and valves	10 65
Walworth Mfg. Co., pipe and fittings	38 99
H. N. Bates Machine Co., machine parts	12 39
Staple Bros., grates	138 67
The Hancock Inspirator Co., 1 locomotive inspi- rator	15 00
M. F. Dwyer, hardware	30 30
F. P. Bruce, 2 horses	220 00
William H. Hitchings, veterinary services	36 00
American Road Machine Co., cart	150 00
McKenney & Waterbury, supplies	2 20
Walworth Construction & Supply Co., cotton waste	8 92
Chase's M. & B. Express, expressing	6 60
Braman, Dow & Co., supplies	20 57
Horgan, Robey & Co., camera and plate holder, French Wagon Co., wagon	143 00
J. H. Archibald, supplies and labor	13 16
Taylor Iron & Steel Co., supplies	121 82
Joel Goldthwait & Co., rubber mat	2 40
Herbert W. Briggs, teaming	62 40
Thomas Casey, brick	30 00
James W. Brogan, teaming	57 60
Andrew Kennedy, teaming	486 00
Greenough, Adams & Cushing, stationery	12 40
Suffolk Engraving Co., half-tone plates	31 00
W. A. Smith, moving building	60 00
Arthur C. Symmes, horseshoeing and repairing, Arthur C. Symmes, express wagon	466 15
S. W. Fuller, shingles	100 00
S. W. Fuller, shingles	35 75
Charles H. Day, carriage hire	10 00

W. R. Maxwell, brick	\$23 25
The Knowlton Packing Co., packing	1 25
Ame & Co., horse food	6 00
Portland Stone Ware Co., pipe	78 11
Austin & Ford, coal cover	2 50
George H. Walker & Co., map	10 00
Farrell Foundry & Machine Co., shaft and re- volving screen	284 00
The Champion Flue Scraper Co., scraper	4 50
Van Croslier, automatic feeders	20 00
M. C. Vinal, mason work	108 00
George H. Russell, teaming	29 40
E. S. Crawley, brimstone	80
D. N. Howard, medicine	2 10
Medford Mercury, advertising	1 15
James McCusker, axe handles, etc.	3 00
American Express, expressing	1 10
Smith's M. & B. Express, expressing	2 40
Pinder's Express, expressing	30
McClellan's Express, expressing	10 65
A. W. Robinson, expressing	50
	<u>\$20,828 89</u>

By appropriation	\$15,000 00
By transfer	2,000 00
By receipts	5,647 96
	<u>\$22,647 96</u>

F.T.B

GOVERNOR'S AVENUE.

Paid:

Workmen, as per pay-rolls	\$1,088 59
William S. Richards, supplies	89
J. M. Trafton, teaming	69 65
James Bean, coal	9 00
Andrew Kennedy, teaming	110 60
Frank Hervey, supplies	36 00
	<u>\$1,314 73</u>

By appropriation, \$1,500.

GUIDE BOARDS AND STREET SIGNS.

Paid :	
Workmen, as per pay-rolls	\$61 00
Page & Curtin, supplies	3 15
Charles R. Dawson, painting signs	12 00
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	\$76 15

By appropriation, \$100.

GARFIELD AVENUE.

Paid :	
Workmen, as per pay-rolls	\$215 25
Herbert W. Briggs, teaming	21 60
James W. Brogan, teaming	9 30
	<hr/>
	\$246 15

By appropriation, \$500.

HIGGINS AND WHEELER AVENUES.

Paid :	
Workmen, as per pay-rolls	\$136 50

By transfer, \$600.

JAMES STREET.

Paid :	
Workmen, as per pay-rolls	\$278 25
Herbert W. Briggs, teaming	4 50
	<hr/>
	\$282 75

By appropriation, \$500.

LAPHAM STREET DISTRICT DRAIN.

Paid :	
Workmen, as per pay-rolls	\$1,707 59
Bradlee, Hastings & Co., shovels	20 00
Perrin, Seamans & Co., pipe	429 28
Ames Plow Co., lantern globes	6 00

Boston & Maine R.R., freight	\$130 73
Page & Curtin, hammer, padlock, etc.	2 45
Parry Bros. & Co., brick	40 00
Riverside Wood Works, wood work	6 75
Thomas Casey, brick	24 80
Walter F. Cushing, amount paid for easement over land of W. G. Peck	50 00
Fred Clark, labor	1 12
F. E. Foster & Co., lumber	125 77
Berry & Ferguson, cement	30 00
City of Medford, Sewer Department, expenses of inspecting pipe	4 36
W. G. Nash, cement	33 00
City of Medford, Sewer Department, pipe, ce- ment, etc.	189 45
A. C. Symmes, picks	9 00
William R. Maxwell, brick	30 00
Portland Stone Ware Co., pipe	200 22
	<hr/>
	\$3,040 52

By appropriation, \$3,050.

MIDDLESEX AVENUE BRIDGE.

Paid:

Workmen, as per pay-rolls	\$84 75
Osgood & Hart, castings	13 74
Thomas Leahy, salary as drawtender	540 00
F. W. Montague, oil and salt	4 15
Josiah Shaw, labor and material	486 08
Page & Curtin, supplies	22 12
William S. Richards, supplies	17 66
Miller & Shaw, supplies	58 00
S. W. Fuller, lumber	68 40
McClellan's Express, expressing	1 00
	<hr/>
	\$1,295 90

EXPENDITURES.

315

By appropriation	\$800 00
By receipts	513 64
	<hr/>
	\$1,313 64

MYSTIC AVENUE.

Paid :

Workmen, as per pay-rolls	\$1,960 25
Ames Plow Co., plow, etc. . . .	19 55
Smith's M. & B. Express, expressing	80
William H. Lenox, hay	8 00
Bradlee, Hastings & Co., supplies	14 50
Michael F. Dwyer, range and kettles	5 50
Frank Hervey, supplies	18 23
Pinder's Express, expressing	1 25
	<hr/>
	\$2,028 08
By appropriation	\$4,000 00
By receipts	23 00
	<hr/>
	\$4,023 00

NEWBERN AVENUE.

Paid :

Workman, as per pay-rolls	\$1,221 13
John Connors, labor	7 35
Andrew Kennedy, teaming	68 60
M. C. Vinal, labor	26 00
James Brogan, teaming	16 10
Osgood & Hart, frame and grating	5 50
Thomas Casey, brick	50 00
Page & Curtin, supplies	25
J. E. Ober, coal	4 34
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	\$1,399 27
By appropriation	\$1,200 00
By receipts	200 00
	<hr/>
	\$1,400 00

PAVING GUTTERS.

Paid :	
Workmen, as per pay-rolls	\$544 19
Page & Curtin, supplies	77
S. & R. J. Lombard, paving	324 00
E. Weaving, paving blocks	14 26
City of Medford, Highway Department, gravel,	80 00
	<hr/>
	\$963 22
By appropriation, \$1,000.	

SETTING OUT TREES.

Paid :	
Workmen, as per pay-rolls	\$83 00
Belmont Hill Nurseries, trees	52 65
N. M. Hatch, trees	12 61
Hiram H. Gurney & Co., trees	6 00
	<hr/>
	\$154 26
By appropriation, \$300.	

STREET NUMBERING.

Paid :	
Workmen, as per pay-rolls	\$89 00
J. C. Miller, Jr., printing	2 25
J. S. Mason & Co., nickle figures	40 00
	<hr/>
	\$131 25
By appropriation	\$500 00
By receipts	48 72
	<hr/>
	\$548 72

SIDEWALKS AND EDGESTONES.

Paid :	
Workmen, as per pay-rolls	\$2,225 50
Dr. A. C. Lane, rebate on sidewalk assessment,	5 55
Medford Printing Office, printing	2 00

EXPENDITURES.

317

Page & Curtin, supplies.	\$7 35
J. E. Ober, cement	5 00
S. & R. J. Lombard, curbstones, etc.	4,470 49
G. W. Davis, paving blocks	33 80
M. C. Warren & Co., 1 level	2 00
Thomas Casey, brick	338 40
F. W. Montague, oil	4 59
John Thresher, paving brick	509 83
Bragdon & Low, concreting	520 80
Ames Plow Co., lanterns and globes	6 15
F. E. Foster & Co., lumber	99
M. C. Vinal, laying sidewalks	524 66
Herbert W. Briggs, teaming	34 00
William R. Maxwell, brick	579 40
City of Medford, Highway Department, gravel,	478 00
Edward W. Bates, concreting	43 62
	<hr/>
	\$9,792 13
By appropriation	\$5,034 01
By transfer	1,000 00
By receipts	2,555 69
	<hr/>
	\$8,589 70

Snow.

Paid:

Workmen, as per pay-rolls	\$1,169 84
George E. Downs, salt	12 00
Boston & Maine R.R., freight	1 86
Ames Plow Co., supplies	4 50
W. F. Wheeler, 1 snow plow	55 00
	<hr/>
	\$1,243 20
By appropriation	\$1,000 00
By transfer	500 00
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	\$1,500 00

STONE CRUSHER AND ELEVATOR.

Paid :	
Workmen, as per pay-rolls	\$30 00
Boston Bolt Co., supplies	5 80
M. C. Warren, stationery	1 80
S. W. Fuller, lumber	93 61
Braman, Dow & Co., supplies	53 93
W. G. Nash, cement	20 25
Farrell Foundry & Machine Co., stone crusher and elevator	1,140 00
Portland Stone Ware Co., supplies	16 75
Akron Iron Co., supplies	78 00
Chapman Valve Mfg. Co., supplies	3 05
F. E. Foster & Co., lumber	41 87
Henry C. Hunt & Co., rubber belting, etc.	78 91
Jarvis Engineering Co., setting boiler	65 00
M. C. Vinal, labor	14 00
Page & Curtin, hardware	10 80
E. Hodge & Co., iron bolts, etc.	39 53
The Fairbanks Co., machine parts	2 48
Walworth Mfg. Co., packing, etc.	3 08
The Hancock Inspirator Co., repairing	1 00
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	\$1,699 86
By appropriation, \$1,700.	

TUFTS STREET.

Paid :	
Workmen, as per pay-rolls	\$123 50
By transfer, \$300.	

WATERING STREETS.

Paid :	
Workmen, as per pay-rolls	\$70 00
Mrs. F. E. Hartlen, overcharge	30
John P. Prichard, cash paid for freight	19 76

Winkler Bros., watering cart	\$340 24
J. C. Miller, Jr., printing	7 50
Medford Mercury, advertising	6 88
Boston Belting Co., hose	19 00
Arthur C. Symmes, repairing and supplies	64 30
William S. Richards, supplies	1 40
George H. Duncklee, team and labor	412 75
E. Teel & Co., wagon supplies	4 00
City of Medford, Highway Department	673 50
Andrew Kennedy, team and labor	410 25
James Brogan, team and labor	416 00
Herbert W. Briggs, team and labor	288 75
Water Commissioners, new stand pipes, repairs, etc.	286 26
Water Commissioners, repairing break in pipe,	4 11
Stella S. Weston, clerical services	13 50
William S. Child, delivering bills	12 00
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By appropriation	\$2,468 39
By assessment	2,288 84
	<hr/>
	\$4,757 23

\$3,050 50

WEBSTER STREET.

Paid:

Workmen, as per pay-rolls	\$587 25
Page & Curtin, cord	35
	<hr/>
	\$587 60

By appropriation, \$600.

RECAPITULATION—HIGHWAY DEPARTMENT.

	Appropriations, Transfers and Receipts.	Amount Expended.
Salary of Street Commissioner	\$1,600 00	\$1,600 00
Ashes	3,054 35	3,030 32
Bridges	500 00	256 55

Care of trees	\$1,000 75	\$641 91
Collection of house oil	5,025 00	2,787 58
Daisy street "	600 00	193 25
Forest street culvert	400 00	367 53
Forest street widening	500 00	497 83
Garfield avenue	500 00	246 15
General repairs of highways	22,647 96	20,828 89
Governors avenue	1,500 00	1,314 73
Guide boards and street signs	100 00	76 15
Higgins and Wheeler avenues	600 00	136 50
James street	500 00	282 75
Lapham street district, drain	3,050 00	3,040 52
Middlesex avenue bridge	1,313 64	1,295 90
Mystic avenue	4,023 00	2,028 08
Newbern avenue	1,400 00	1,399 27
Paving gutters	1,000 00	963 22
Setting out trees	300 00	154 26
Sidewalks and edgestones	8,589 70	9,792 13
Snow	1,500 00	1,243 20
Stone crusher and elevator	1,700 00	1,699 86
Street numbering	548 72	131 25
Tufts street	300 00	123 50
Watering streets	4,757 23	3,050 50
Webster street	600 00	587 60
	<hr/>	<hr/>
	\$67,610 35	\$57,769 43

INSPECTION DEPARTMENT.

EXPENSES.

Paid :	
C. H. Hartshorn, new harness and repairing	\$19 45
E. Teel & Co., wagon	50 00
E. Teel & Co.	15 35
J. C. Miller, Jr., printing	35 75
C. H. Day, boarding horses	196 28
John S. Williams, blankets and robe	8 17
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	\$325 00

EXPENDITURES.

321

By appropriation	\$100 00
By transfer	225 00
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	\$325 00

SAFE.

Paid :	
Mosler Safe Co., safe	\$135 00
By appropriation, \$150.	
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PARK DEPARTMENT.

LOGAN GROVE.

Paid :	
Daniel F. and Amelia M. Coughlan, southerly half of lot No. 5, as recorded with Middlesex South District deeds, book of plans No. 75, plan No. 25	\$700 00
By appropriation, \$700.	

LOGAN GROVE SIDEWALK.

Paid :	
City of Medford, Sidewalks and Edgestones ac- count, one-half cost of sidewalk	\$184 14
By appropriation, \$184 14.	

MAGOUN PARK ENLARGEMENT.

Paid :	
D. O. Kidder and Thatcher M. Adams, trustees, land on Thatcher street	\$1,440 00
Alvin R. Reed, 300 feet land	60 00
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	\$1,500 00
By appropriation, \$1,500.	

MAGOUN PARK.

Paid :

Franklin Brett, professional services	\$107 71
Harlan P. Kelsey, plants	17 55
Shady Hill Nurseries, plants	21 10
Kissena Nurseries, plants	29 15
F. G. Pratt, plants	16 95
Samuel C. Moon, plants	20 10
Ellwanger & Barry, plants	20 67
T. J. Kelley, labor and material	1,235 00
Maple Avenue Nurseries, plants	31 45
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	\$1,499 68

By appropriation, \$1,500.

PUBLIC COMMONS.

Paid :

City of Medford, Watering Streets account	\$12 56
Chase's M. & B. Express, expressing	25
Charles R. Dawson, painting signs	7 83
Edward P. Adams, grading plans, etc., for Logan Grove	120 00
Edward P. Adams, park design for Logan Grove,	40 00
M. C. Warren, lawn mower	7 25
J. H. Archibald, stock and labor	6 20
Rosewell B. Lawrence, cash paid for typewriting,	1 65
Edward W. Mitchell, letter book	1 25
J. M. Trafton, labor	19 13
Page & Curtin, supplies	17 35
N. B. Durkee, labor	57 75
Franklin Brett, professional services	56 73
Thomas J. Kelley, labor and material	71 12
C. R. Blake, cutting grass	4 50
Adolph A. Kuehl, frames, etc.	2 60
City of Medford, Highway Department, cutting grass	6 00

EXPENDITURES.

323

Welch's Express, expressing	\$3 00
J. C. Miller, Jr., printing	1 75
Ham & Hopkins, stock and labor	19 99
	<hr/>
By appropriation	\$593 16
By receipts	35 00
	<hr/>
	\$628 16

POLICE DEPARTMENT.

SALARIES OF POLICEMEN.

Paid :

Emery D. Holmes, salary as Chief of Police and Superintendent of Street Lights, 1 year	\$1,200 00
Officers, as per pay-rolls	11,400 00
	<hr/>
	\$12,600 00
By appropriation, \$12,600.	

SPECIAL POLICE, ETC.

Paid :

Special officers, as per pay-rolls	\$1,667 17
Charles H. Day, boarding horses, etc.	396 82
F. O. Waterman, rent	46 00
City of Medford, Water Department, water	10 84
Harvey C. Derby, stamp and pad	2 50
Emery D. Holmes, cash paid for car fares, etc.	19 80
J. C. Miller, Jr., printing	6 25
Malden & Melrose Gas Light Co., gas	17 16
Charles E. Berry, collar and hames	26 00
Addison C. Getchell, printing 50 reports	7 00
Page & Curtin, hardware, etc.	100 32
C. H. Hartshorn, supplies and repairing harnesses,	33 05
George L. Newhall, carriage hire	50
George D. Ford, photos	4 00

Catherine Peak, services at station	\$6 00
William Read & Sons, police badges	4 88
N. E. Tel. & Tel. Co., rentals and tolls	424 26
John Nolan, stock and labor	24 06
A. W. Mitchell Mfg. Co., police coat, etc.	16 50
Frank Hervey, supplies	5 19
J. Manning & Sons, removing safe	8 00
Malden Electric Co., light, labor and material	184 27
H. L. Alderman, veterinary services	12 50
Sampson, Murdock & Co., 1 Boston directory	5 00
Mrs. George E. Carleton, meals for prisoners	1 25
Frank P. Peirce, cleaning windows	10 00
Lothrop & Spooner, furniture polish	4 25
Broad Gauge Iron Works, manger	2 70
M. C. Warren, supplies	10 50
Littlefield Directory Publishing Co., Malden and Everett directory	2 00
Greenough, Adams & Cushing, stationery	9 41
W. P. Treet, cloth	90
Frank Hervey, supplies	3 30
L. R. Hall, keys	50
George W. Prowse, electrical supplies	21 66
D. N. Howard, supplies	8 75
Malden & Melrose Gas Light Co., pipe, etc.	7 77
J. A. Smith, sawdust, etc.	1 40
J. C. Gillis, rent of stable	40 00
Snow Flake Axle Grease Co., aprons	1 75
Julia Cronan, cleaning floors	7 20
James Bean, hay and grain	44 93
J. E. Ober, coal	175 29
Mary A. Wall, washing	8 56
J. H. Archibald, jobbing	60
J. W. Barrett, carriage hire	50
W. A. Greenough & Co., directories	4 00
F. E. Foster & Co., lumber	3 51
James Dinsmore, carriage hire	10 50

Luke Coyne, shoeing horse	\$12 76
Albert B. Franklin, pipe, etc.	13 33
City of Medford, Watering Streets account	1 38
Edward W. Mitchell, stationery	21 35
Benjamin F. Lenox, services as janitor	254 00
City of Malden, Police Department, meals	75
J. L. Blackmer & Co., signs	8 80
F. C. Thieler, cash paid for car fares	2 77
Charles R. Dawson, painting sign, etc.	20 00
Barney Golden, veterinary services	2 00
C. H. Day, use of horse for patrol wagon	3 00
Sulpho-Naphthol Co., sulpho-naphthol	12 50
W. H. Hitchings, veterinary services	6 00
W. G. Ewell, cash paid for car fares, etc.	3 06
James H. Brewster, cash paid for car fares, etc.,	3 40
A. C. Symmes, stock, repairing and shoeing	94 34
W. E. Ober, electrical work	64

 \$3,869 38

By appropriation	\$2,615 00
By transfer	1,254 00
By receipts	75
	<hr/>
	\$3,869 75

POLICE STATION EQUIPMENT.

Paid :

Heywood Bros. & Co., chairs, couch, etc.	\$119 00
Derby Desk Co., 2 desks	124 22
George S. Delano, mattresses	83 46
Henry T. Edwards, electric fixtures	172 50
Adolph A. Kuehl, frames, cord, etc.	6 65
Page & Curtin, hardware, etc.	44 18
A. S. Crowell, window shades, etc.	40 65
Jordan, Marsh & Co., bedding, etc.	48 19

Savage & Co., expressing	\$3 30
Albert B. Franklin, labor and car fares	3 30
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	\$645 45

By appropriation, \$650.

PUBLIC LIBRARY DEPARTMENT.

GENERAL EXPENSES.

Paid :

Mary E. Sargent, librarian, 1 year to Feb. 1	\$1,000 00
A. L. Sargent, classifier, 6 months to Feb. 1	287 50
Hepsie W. Symmes, assistant librarian, 1 year to February 1	400 00
Fannie E. Batchelder, assistant librarian, 1 year to February 1	240 00
N. L. Wight, assistant librarian, 1 year to Feb. 1,	240 00
Frank P. Peirce, care of building, 1 year to Feb. 1,	256 92
John A. Smith, expressing	66 00
C. A. Ellsworth, agent at Wellington	35 00
R. A. Horton, extra work	86 68
Hepsie W. Symmes, extra work	4 10
Fannie E. Batchelder, extra work	2 25
Boston Book Co., books	85 50
W. B. Clark & Co., books	10 00
De Wolfe, Fiske & Co., books	90 00
Estes & Lauriat, books	240 87
Forbes Library, books	14 10
Little, Brown & Co., books	469 23
D. Appleton & Co., books	28 50
E. A. Nisbet, books	3 50
Baleh Bros., books	16 00
George Barrie, books	58 00
Frederick Eccles & Co., books, etc.	96 70
F. J. Bernard & Co., book binding	36 55
Addison C. Getchell, printing 50 reports	11 50

Joseph Hellen, coal	\$100 07
Leavens & Co., tables	10 00
William S. Richards, supplies	12 84
Carl Schoenhof, books	14 17
Smith's M. & B. Express, expressing	9 20
J. A. Smith, teaming	1 50
A. B. Morss, printing	1 00
C. A. Koehler & Co., books	13 82
John McCarty, charcoal	6 25
Paine's Furniture Co., desk and chairs	19 50
C. A. Nichols, books	6 00
J. E. Ober, coal	87 50
W. T. Sadler, books	54 20
Boston Public Library, 4 years subscription to Quarterly Bulletin	4 00
Charles A. Brackett, boxes	4 25
Chase's Express, expressing	7 75
Malden & Melrose Gas Light Co., gas	122 55
D. C. Heath & Co., books	2 59
Hunt & Eaton, books	24 00
F. L. Sawtell, wrapping paper	6 06
Walter S. Houghton, books	8 00
Ethan A. Paddock, tree protectors	2 00
Fred B. Perkins, book	2 00
George Barrie, subscription	4 00
Medford Mercury, subscription	2 00
Frank H. Peak, periodicals	202 35
International Journal of Ethics, subscription	2 50
Wright's Pond Ice Co., ice	8 00
E. W. Mitchell, stationery	14 57
J. C. Miller, Jr., printing	130 24
City of Medford, Watering Streets account	3 20
Malden Electric Co., light	180 63
Estate of John H. Chute, services as agent, W. M.,	30 00
City of Medford, Water Department, water	8 67
J. Everett Peirce, carpenter work	39 83

Frank P. Peirce, repairing, etc.	. . . . .	\$8 35
Page & Curtin, supplies	. . . . .	2 10
India Alkali Works, sarogran	. . . . .	4 42
Library Bureau, supplies	. . . . .	78 46
National Binder Co., binding	. . . . .	181 00
Neilson Mfg. Co., binders	. . . . .	10 50
Publisher's Weekly, indexes	. . . . .	5 66
		<hr/>
		\$5,214 63
By appropriation	. . . . . \$3,700 00	
By receipts	. . . . . 1,515 27	
		<hr/>
		\$5,215 27

PUBLIC LIBRARY LOT.

Paid :	
Frank Hervey, land in rear of present lot, 7,679 sq. ft.	. . . . . \$1,600 00
By transfer, \$1,600.	

RELIEF OF POOR DEPARTMENT.

SALARIES OF OVERSEERS OF POOR.

Paid :	
Calvin H. Clark, salary as Chairman, 12 months,	\$500 00
W. A. Thompson, salary as member of board	50 00
William C. Craig, salary as member of board	50 00
	<hr/>
	\$600 00
By appropriation, \$600.	

ALMSHOUSE.

Paid :	
George W. Mills, M.D., consultation	. . . . . \$3 00
Charles Cummings, pigs	. . . . . 9 00
W. H. Grothe, horse shoeing	. . . . . 6 63

George H. Randall, killing 2 pigs	\$3 00
J. A. Morgan, drugs and sundries	3 00
McClellan's M. & B. Express, expressing	4 40
Cavanaugh Bros., difference between horses	125 00
W. S. Barker & Son, pastry	9 61
Richard B. Newcomb, salary as Superintendent,	683 36
Annie Cyree, services	22 00
Augusta Oner, services	120 72
Sarah Lingley, services	9 00
Theresa B. Gorrie, services	124 56
Richard B. Newcomb, cash paid for sundries	31 41
Allston P. Joyce, City Clerk, dog license	2 00
A. C. Symmes, repairing carriages, etc.	22 70
Sidney F. Dean, shoeing horses, etc.	70 88
C. H. Hartshorn, repairing harnesses, etc.	72 90
Page & Curtin, hardware, etc.	82 10
William S. Richards, hardware, etc.	36 55
Frank Hervey, groceries	111 55
Yerxa & Yerxa, groceries	167 21
F. W. Montague, groceries	161 71
J. E. Ober, coal and grain	237 20
Edward S. Randall, groceries and provisions	172 10
John Crowley, provisions	108 02
Michael F. Dwyer, hardware	12 27
Winchester & Hunt, Boston, provisions	8 00
M. C. Spencer, hanging paper	3 00
Chase's M. & B. Express, expressing	2 45
Daniel Vaughn, tailoring	1 25
City of Medford, Water Department, water	34 67
E. Teel & Co., carriage	25 00
A. A. White & Co., paint and oil	14 44
The Putman Co., bedsteads, etc.	52 00
Leavens & Co., chairs	12 75
F. E. Foster & Co., lumber and lime	35 77
A. P. Elwell, supplies	2 50
Gilbridge & Grey, seeds	4 05

F. M. Jewett, fish	\$66 00
George Nichols, 1 burial	15 00
F. E. Pierce, fish and oysters	77 21
Croudis & Larkin, provisions	101 99
Thomas Hull, provisions	149 51
C. R. Drew, provisions	99 10
W. H. McGowan, provisions	109 14
W. F. Wallace, cow	70 00
George S. Delano, making pillow ticks, etc.	5 40
Isaac Coffin, supplies	8 05
J. A. Mills, boots and shoes	8 14
Charles W. Jacobs, boots and shoes	33 01
J. E. Barrows, boots	3 90
Charles H. Day, liniment	1 00
C. B. Johnson, filing saws	2 75
J. H. Archibald, carpenter work	31 71
Bride & Ames, stock and labor	12 99
E. S. Crawley, medicines, etc.	24 78
Smith & Whittier, washing machine	12 00
Priscilla Beagan, services	87 85
Welch's Express, expressing	3 20
Christina McInnis, services	43 59
Elizabeth Beagan, services	157 69
S. W. Farwell, medicines	12 85
Simpson, McIntire & Co., supplies	163 49
Charles D. Archibald, supplies	66 47
Charles R. Dawson, stock and labor	4 60
Estate of J. H. Chute, medicines	5 90
N. E. Tel. & Tel. Co., rental and tolls	74 89
Old Corner Drug Store, medicines, etc.	65 83
D. N. Howard, medicines, etc.	19 15
Edward W. Mitchell, supplies	3 80
Hodgman Rubber Co., rubber cloth	8 10
M. C. Vinal, mason work	5 38
Ames Plow Co., machine parts	4 86
W. M. Simpson, veterinary services	3 00

EXPENDITURES.

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J. N. Cowin & Co., grain	\$140 47
James Bean, grain	71 62
Joseph Hellen, grain	48 57
Wright's Pond Ice Co., ice	25 00
National Construction Co., parts to pump	5 00
S. Voreburg & Co., clothing	41 00
A. S. Crowell, dry goods	98 36
J. Frank Twiss, clothing	81 75
W. P. Treet, dry goods	37 19
J. H. McQuade, extracting tooth	50
C. W. H. Moulton & Co., ladders	5 10
Joseph Breck & Sons, seeds	5 00
R. M. Johnson, cleaning vaults	10 00
Medford Steam Carpet Cleaning Co., cleaning and steaming	88
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	\$4,740 53
By appropriation	\$4,500 00
By receipts	394 73
	<hr/>
	\$4,894 73

OUTSIDE RELIEF.

Paid:

Yerxa & Yerxa, groceries	\$70 50
W. P. Hanson, groceries	46 50
A. P. Perry, groceries	100 50
S. C. Goodwin, groceries	247 30
F. W. Montague, groceries	198 00
Frank Hervey, groceries	195 16
Charles H. Brewer, groceries	54 00
Medford Branch, groceries	72 00
Ford Bros., groceries	28 50
H. J. Tilton, groceries	7 50
T. C. Newcomb, shoes, etc.	7 50
L. E. Ingraham, goods delivered to M. Murphy,	7 50
J. F. Burrill, milk	3 71

G. O. Bean, milk	\$13 51
F. H. Lovering, groceries and provisions	166 32
T. H. Tomlinson, groceries and provisions	111 00
E. S. Randall, groceries and provisions	233 00
N. A. Johnson, groceries and provisions	122 50
S. I. Morse, groceries and provisions	26 00
Hughson & Brown, groceries and provisions	18 00
John W. Barrett, carriage hire	1 75
Edward W. Hayes, cash paid for postage, etc., Edward W. Hayes, extra services in attending to applicants, etc.	6 51 100 00
C. R. Drew, provisions	71 00
John Crowley, provisions	79 50
Croudis & Larkin, provisions	47 50
Nelson & Proctor, prescriptions	3 05
Calvin H. Clark, cash paid to family of George C. Boomer	4 00
Calvin H. Clark, cash paid for car fares and sun- dries	21 70
J. A. Morgan, medicines	1 20
Estate of J. H. Chute, medicines	2 10
Old Corner Drug Store, medicines	2 60
D. N. Howard, medicines, etc.	263 55
E. S. Crawley, medicines	1 75
Edward Farrar, medicines	5 75
S. W. Farwell, medicines	1 00
James Bean, wood	17 25
Joseph Hellen, coal and wood	151 19
J. N. Cowin & Co., coal and wood	6 00
Mary C. Chick, cash allowance	48 00
Bridget Hanley, cash allowance	102 00
Elizabeth Walter, cash allowance	80 00
Caroline E. Shearer, cash allowance	104 00
Mrs. William Sherman, cash allowance	42 00
City of Boston, aid rendered	119 97
City of Haverhill, aid rendered	53 25

Mrs. E. M. Gill, milk	\$4 62
F. B. Borns, 1 pair shoes	1 50
T. C. Newcomb, boots and shoes	19 75
W. H. McGowan, provisions	2 00
J. E. Barrows, boots and shoes	6 95
Barrows & Co., boots and shoes	6 30
Charles W. Jacobs, boots and shoes	33 90
J. E. Ober, coal and wood	160 60
David J. Clark, groceries	7 00
George S. Delano, bedstead and mattress	8 00
Lucia J. Curtis, care of Mabel M. Clark	97 50
George H. Newton, board	104 00
Mrs. H. B. Parker, board	104 00
Mary A. Ripley, board	130 60
Eliza Gordon, board	4 50
Mrs. A. Hamilton, board	92 50
Mrs. E. A. Huston, board	82 00
Mrs. Elliott Brooks, board	25 00
Mrs. M. Sweeney, board	32 50
Mrs. Margaret Sampell, board	18 00
Commonwealth of Massachusetts, support of sundry persons	244 99
Greenough, Adams & Cushing, stationery	8 00
Francis Doane & Co., stationery	1 30
Town of Warren, aid rendered	4 00
Danvers Lunatic Hospital, board	997 27
Worcester Insane Asylum, board	338 93
Taunton Lunatic Hospital, board	338 92
Westborough Insane Hospital, board	231 24
Addison C. Getchell, printing 50 reports	7 00
George Nichols, burials	120 00
Trustees Oak Grove Cemetery, single grave	6 00
J. C. Miller, Jr., printing	6 25
	<hr/>
	\$6,310 74

By appropriation	\$8,320 27
By receipts	1,455 83
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	\$9,776 10

SCHOOL DEPARTMENT.

SALARIES OF COMMITTEE.

Paid:

Sidney Gleason, salary as member	\$50 00
Rosewell B. Lawrence, salary as member	50 00
Charles N. Jones, salary as member	50 00
William C. Wait, salary as member	50 00
Mrs. Augusta R. Crosby, salary as member	50 00
Mrs. Amanda H. Plummer, salary as member	50 00
Gustavus F. Guild, salary as member	50 00
Rev. Benj. A. Dean, salary as member 7 mos.,	29 16
George E. Davenport, salary as member 9 mos.,	37 50
Edwin E. Stevens, salary as member 3 months,	12 50
Edward F. Allen, salary as member 3 months	12 50
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	\$441 66

By appropriation, \$450.

SALARY OF SECRETARY.

Paid:

Charles N. Jones, salary as secretary, 1 year	\$200 00
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By appropriation, \$200.

SALARIES OF TEACHERS FOR YEAR ENDING JAN. 31, 1896.

Paid:

	High School.	
Lorin L. Dame		\$2,500 00
Leonard J. Manning		1,600 00
Caroline E. Swift		850 00
Sarah A. Clapp		775 00

Josephine E. Bruce	\$800 00
P. T. Campbell	850 00
Walter H. Cushing	850 00
Marion Nottage ($\frac{2}{10}$ year)	140 00
A. E. Boardman ($\frac{8}{10}$ year)	560 00
Marion N. Wilcox ($\frac{8}{10}$ year)	408 00
Caroline P. Swett ($\frac{1}{2}$ year)	300 00
Brooks School.	
Lewis F. Hobbs	1,500 00
Gertrude S. Light	575 00
Harriet E. Brooks	575 00
Mabel L. Thayer	575 00
A. G. Welch ($\frac{3}{10}$ year)	127 50
Mary C. Adams ($\frac{1}{10}$ year)	52 50
Cradlock School.	
George W. Parsons	1,400 00
Mary L. Cotton ($\frac{8}{10}$ year)	460 00
Jennie W. Waterman	575 00
Mary E. Crowley	500 00
Isabelle A. Nauss	500 00
Cara M. Johnson ($\frac{2}{10}$ year)	105 00
Cummings School.	
Elizabeth R. Carty ($\frac{7}{10}$ year)	402 50
Katherine J. FitzGibbon	575 00
Curtis School.	
Amy W. Jones	575 00
Laura W. Davenport	575 00
Everett School.	
Ida L. Hartshorn	575 00
Jessie M. Dinsmore	575 00
Adelaide S. Herriott	575 00
C. May Holland	575 00
Glenison School.	
Alice F. Wilbur	575 00
Catherina W. Billings	575 00

Lucy H. Maxwell ($\frac{3}{10}$ year)	\$60 00
Jane M. Howard ($\frac{1}{10}$ year)	24 00
Hall School.	
Ella L. Alden	575 00
Ellen M. Lane ($\frac{1}{2}$ year)	287 50
Caroline Lowe ($\frac{1}{2}$ year)	237 50
Hervey School.	
Elizabeth A. Lufkin	575 00
Helen G. Frye	500 00
Hillside School.	
Annie G. Welch ($\frac{5}{10}$ year)	212 50
Mary L. Howard ($\frac{1}{10}$ year)	28 75
Medora E. Adams ($\frac{1}{10}$ year)	72 50
Elizabeth R. Carty ($\frac{3}{10}$ year)	172 50
Bertha M. Lawrence ($\frac{3}{10}$ year)	157 50
James School.	
Ella A. Leighton	575 00
Hetty F. Wait	575 00
Mariette T. Fernald	575 00
Lincoln School.	
Henry B. Doland	1,500 00
Ellen R. Sampson ($\frac{1}{2}$ year)	287 50
Laura M. Dunsmoor	550 00
Helen M. Johnson	575 00
Flora I. Towle	575 00
Inez E. MacCallum ($\frac{3}{10}$ year)	157 50
Alice G. Hosmer ($\frac{1}{2}$ year)	287 50
Mary B. Carlton ($\frac{2}{10}$ year)	105 00
Osgood School.	
Louise W. Lasell	575 00
Emma A. Davis	575 00
Alice E. Wheelock ($\frac{1}{10}$ year)	24 00
Swan School.	
Alice C. Reed	450 00
Jennie S. Archibald	575 00
Jennie M. Kempton ($\frac{1}{2}$ year)	237 50

Rose A. Plunkett	\$575 00
Alice G. Davenport ($\frac{1}{2}$ year)	212 50
Madge Johnson ($\frac{1}{10}$ year)	35 80

Tufts School.

Alice G. Hosmer ($\frac{5}{10}$ year)	272 50
Emma F. Whitney	575 00
May E. Parkhurst	490 00
Inez H. Libbey ($\frac{5}{10}$ year)	223 00

Washington School.

Benjamin F. Morrison	1,500 00
Emma F. Gill	625 00
Winifred L. Evans	575 00
Martha E. Hayes	575 00
Annie E. Durgin	575 00
Ellen A. Sills	575 00
Jennie M. Kempton ($\frac{1}{2}$ year)	262 50
Helen L. Burr (1 mo.)	52 50

Special Teachers.

S. Henry Hadley, music teacher ($\frac{1}{2}$ year)	200 00
Elizabeth H. Dunham, music teacher	555 00
Louise MacLeod, drawing teacher	800 00
Fannie G. Huntington, sewing teacher ($\frac{1}{2}$ year),	250 00
Sarah C. L. Evans, sewing teacher ($\frac{1}{2}$ year)	125 00
Cara L. Russell, sewing teacher ($\frac{7}{10}$ year)	240 00

 \$42,551 05

By appropriation	\$42,105 00
By transfer	500 00

 \$42,605 00

STEWARDSHIP.

Paid :

F. P. Pierce, High school	\$568 21
C. H. Oliver, Washington and Everett schools,	739 75
H. S. Bird, Swan and James schools	360 00

A. B. Evans, Cradock school	\$208 80
M. Martin, Cummings school	115 20
P. Greaney, Brooks, Gleason, Hall and Hervey schools	620 64
P. Dwyer, Curtis school	115 20
Harry Ball, Osgood school	115 20
Levi F. Cole, Tufts and Lincoln schools	707 00
J. E. Wallace, Hillside school	100 00
	<hr/>
	\$3,650 00

By appropriation, \$3,650.

CONTINGENT.

Paid :

Dr. Julia Morton Plummer, lecture	\$25 00
Edward W. Mitchell, cleaning clocks	42 75
J. C. Miller, Jr., printing	86 25
James J. Shannon & Co., typewriter supplies	22 25
William H. Turner, repairing	9 60
White & Walley, painting and glazing	1 52
Otto Neilson & Co., stock and labor	1 35
W. E. Bentley, cleaning clocks	2 50
J. M. Brown, repairing flags	4 00
Charles R. Dawson, paints and painting	130 91
F. S. Spinney, stamps	35 05
William S. Richards, stock and labor	145 38
J. E. Ober, sawdust, etc.	20 24
F. O. Waterman, services as armorer, 1 year	150 00
Malden Electric Co., light	30 02
Malden & Melrose Gas Light Co., gas	8 32
Riverside Wood Works, shavings, etc.	2 50
Page & Curtin, stock and labor	133 35
Leach, Shewell & Sanborn, books	4 08
Patrick Dwyer, labor	12 00
Rev. Benjamin A. Dean, sundries furnished	4 55
E. Hunt, telephone rental	15 00

EXPENDITURES.

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George Ramsay, stock and labor	\$18 26
Robert G. Gilmour, cleaning clocks	4 50
George W. Means, stock and labor	3 35
J. H. Archibald, stock and labor	57 25
H. S. Bird, stock and labor repairing	30 45
N. B. Cunningham, stock and labor	352 96
Fletcher Osgood, lecture	5 00
Martin Hughes, labor	3 00
Daniel Vaughn, pressing flags	1 00
Williard B. Emery, knobs, etc.	1 75
Charles B. Buss, agent, rent	80 00
Estate of John D. Small, rent	80 00
R. B. Lawrence, cash paid for typewriting	2 25
A. P. LaChapelle, stock and labor	91 69
Addison C. Getchell, printing 300 reports, etc.,	102 75
Blackstone Furniture Co., table	1 50
Oliver Whyte & Co., wire mats	46 00
William A. Corse, cord	1 00
Bobrick School Furniture Co., chair	4 00
Germicide Co., air purifier	39 37
George W. Porter, stock and labor	1 90
George H. Underhill Co., repairing grates, etc.,	31 05
H. E. Holt, music charts	41 70
William Read & Sons, rifles and equipments	111 05
George S. Perry & Co., supplies	726 92
Murphy, Leavens & Co., brooms, dusters, etc.,	74 37
W. H. Grothe, blacksmithing	1 15
George W. Simmons & Co., bunting	2 25
Leavens & Co., tables	9 00
Goodale, Winslow & Co., repairing flags, etc.,	24 21
Thomas A. Groom & Co., books	7 50
J. L. Hammett, supplies	12 15
Gustavus F. Guild, cash paid for trimming trees, etc.,	9 50
Charles M. Green, M.D., lecture	25 00
Bride & Ames, painting and glazing	66 08
Edward G. Martin, tree protectors	5 00

Horace B. Dean, supplies and labor	\$2 45
A. S. Crowell, cloth, etc.	4 50
E. & F. King & Co., lime	4 86
Maverick & Wissinger, printing	38 00
W. B. Emery, repairing, etc.	7 80
George W. Stetson, taking school census	75 00
P. Dwyer, setting out trees, etc.	4 25
J. F. Perkins, tuning pianos	40 00
I. S. Preston, filling out diplomas	34 60
Rev. N. Boynton, address at High School	25 00
W. F. Alden, repairing chairs, etc.	3 00
Jesse A. Dill, catering	58 75
American Bank Note Co., diplomas	58 20
Edward C. Mead, rent of Opera House	20 00
J. S. Leavitt, music, Field Day and Memorial Day,	18 65
Albany Venetian Blind Co., repairing blinds	22 53
James Martin & Sons, use of tent	24 20
Burditt & Williams, hooks	50
Oliver Ditson Co., 1 square piano	165 00
J. P. Jackson, oiling steps, graining, etc.	1 00
F. E. Foster & Co., lumber	17 69
A. B. Evans, care of committee room 1 year	100 00
O. W. Abbott, labor	6 25
Charles E. Curtis, carpenter work	135 45
Arthur C. Symmes, irons and repairing pokers,	5 50
Talbot Bros., lumber	109 59
A. C. Curtis, labor	3 00
M. C. Vinal, stock and labor	39 14
P. Greaney, cementing cellars, etc.	19 50
F. A. Blakeslee, oiling floors, etc.	39 95
W. P. Treet, needles and thread	4 08
William Cushing Wait, cash paid for sundries,	5 25
Mrs. Medora E. Adams, services as substitute teacher,	33 00
A. B. Evans, delivering supplies, etc.	8 97
Welch's Express, expressing	6 50
Donoghue's Express, expressing	1 40

Smith's M. & B. Express, expressing . . .	\$2 20
Savage's Express, expressing . . .	2 75
Fred P. Jenkins, expressing . . .	2 85
McClellan's Express, expressing . . .	17 20
A. W. Robinson, expressing . . .	10 65
J. A. Smith, delivering supplies and expressing,	47 30
Chase's M. & B. Express, expressing . . .	18 85
J. F. Dwyer, loam . . .	2 00
James P. Richardson, services as truant officer,	150 00
C. H. Oliver, services as truant officer . . .	60 00
C. H. Oliver, stock and labor . . .	11 40
R. M. Johnson, cleaning vaults . . .	15 00
Michael F. Dwyer, hardware . . .	75 90
Spoffard & McFarland, architectural services . .	50 00
H. T. Ball, setting glass, etc. . . .	3 00
Anna M. Reidy, services as substitute teacher,	10 00
Levi F. Cole, cash paid for sundries . . .	14 10
F. D. H. Thomas, repairing desk, etc. . . .	1 50
Marion R. Dalgleish, ribbon	7 53
Thomas Dixon, removing ashes	2 50
Frank P. Peirce, oiling floors	6 80
Crockwell Bros., stock and labor	45 83
John C. Ross, plastering	40 00
Cornelius Reagan, labor	7 54
W. J. Hixon, repairing	75
Stoughton W. Crawford, labor at Hillside school- house	22 75
Albert B. Franklin, stock and labor on boilers, etc.,	109 69
L. E. Knott Apparatus Co., supplies	14 25
Thompson, Brown & Co., books, etc. . . .	60 59
City of Medford, Care of Shade Trees account, 1 tree protector	75
D. Appleton & Co., 1 vol. Johnson's Cyclopaedia,	7 00
The American Book Co., books	25 00
D. M. Hook, lawn dressing	38 75
Ham & Hopkins, stock and labor	5 06

Boston School Supply Co., supplies	\$13 00
American Blackboard Co., blackboards	18 24
M. R. Warren, supplies	14 00
D. C. Heath & Co., books	81 97
Greenough, Adams & Cushing, supplies	49 70
Houghton, Mifflin & Co., books	115 17
Frederick Eeles & Co., rebinding, etc.	74 65
Thorpe & Martin Co., supplies	19 00
Ginn & Co., books	64 42
Williams & Fields, stock and labor	4 26
William Ware & Co., dictionaries	13 75
Allyn & Bacon, text-books	30 77
D. N. Howard, chemicals	4 25
G. W. Simmons & Co., 1 pair cheverons	1 75
Silver, Burdett & Co., books	85
L. L. Dame, on account of accident	40 00
Frank P. Peirce, balance for services as janitor,	31 79
Chas. H. Oliver, balance for services as janitor,	67 25
Underhill Warming and Ventilating Co., fur- nace parts	2 45
George W. Lovering, services as truant officer 1 month	7 50
	<hr/>
	\$5,649 35
By appropriation	\$4,900 00
By transfer	750 00
	<hr/>
	\$5,650 00

EVENING SCHOOLS.

Paid:

Teachers, as per pay-rolls	\$868 04
Thompson, Brown & Co., books, etc.	68 25
Malden Electric Co., light	41 94
J. C. Miller, Jr., printing	3 90
William F. Alden, distributing posters	2 50
Medford Mercury, advertising	5 00

EXPENDITURES.

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Wadsworth, Howland & Co., drawing boards, etc.,	\$5 40
James J. Shannon & Co., typewriter	60 00
J. L. Hammett, supplies	4 00
W. E. Ober, electrical supplies	3 00
	<hr/>
	\$1,062 03
By appropriation, \$1,200.	:

FUEL.

Paid :	
James Bean, coal and wood	\$15 20
Joseph Hellen, coal	1,626 68
J. E. Ober, coal	3,221 90
John McCarty, charcoal	187 50
	<hr/>
	\$5,051 28
By appropriation, \$5,500.	:

KINDERGARTEN.

Paid :	
Helen L. Arnold, services as teacher	\$500 00
Mary W. Smith, services as assistant	182 00
George S. Perry & Co., tables, chairs, etc.	108 05
George E. Crosby & Co., printing	2 50
Augusta R. Crosby, cash paid for cleaning, etc.,	5 55
Geo. Porter, stock and labor on blackboard, etc.,	21 49
J. L. Hammett, supplies	136 05
Dora I. Gay, services as teacher 8 months	400 00
P. Greaney, services as janitor	70 00
Jordan Marsh & Co., supplies	4 55
J. E. Ober, supplies	2 56
Nelson H. Brown, clock	11 00
A. P. LaChapelle, labor	1 00
Ralph W. Redding, rent	194 66
Alice L. Bryan	108 00

F. A. Blakeslee, setting glass	\$1 05
R. L. Gallup, setting glass	75
	<u>\$1,749 21</u>

By appropriation, \$1,750.

MANUAL TRAINING.

Paid :

James T. Whitney, services as teacher	\$980 00
Page & Curtin, hardware	10 42
J. O. Wetherbee, hard wood	28 65
James W. Vinal & Co., bits	3 66
F. E. Foster & Co., lumber	54 92
James T. Whitney, cash paid for sundries	16 63
J. H. Archibald, carpenter work	30 14
J. C. Miller, Jr., printing	2 00
George S. Perry & Co., paper, etc. . . .	3 78
Chandler & Barber, hardware	40 55
Underhill Bros., sharpening tools	2 12
D. N. Howard, alcohol	40
Gustaf Larsson, models	25 00
	<u>\$1,198 27</u>

By appropriation, \$1,200.

MILITARY INSTRUCTION.

Paid :

J. H. Whitney, services as instructor	\$150 00
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By appropriation, \$150.

PAINTING SCHOOLHOUSES.

Paid :

Charles R. Dawson, painting Swan schoolhouse,	\$250 00
Charles R. Dawson, painting Curtis schoolhouse,	204 25
Charles R. Dawson, setting glass, etc., at Curtis school	17 10
	<u>\$471 35</u>

By appropriation, \$500.

SEWER ASSESSMENTS AND CONNECTIONS.

Paid :	
City of Medford, Sewer Department, assessments,	\$900 77
City of Medford, Sewer Department, connecting Osgood schoolhouse	56 97
M. C. Vinal, stock and labor at Osgood school- house	6 13
Page & Curtin, plumbing supplies and labor at Osgood schoolhouse	22 30
	<u>\$986 17</u>
By transfer, \$1,000.	

SUPERINTENDENT.

Paid :	
E. Hunt, salary as superintendent ($\frac{1}{2}$ year)	\$500 00
C. H. Morss, salary as superintendent ($\frac{1}{2}$ year),	1,250 00
	<u>\$1,750 00</u>
By appropriation, \$2,000.	

TEXT-BOOKS AND SUPPLIES.

Paid :	
Houghton, Mifflin & Co., books	\$242 25
John E. Potter & Co., books	6 00
D. C. Heath & Co., books	232 89
American Book Co., books	340 60
Allyn & Bacon, books	8 10
T. H. Castor & Co., books	4 46
Ginn & Co., books	965 63
William Ware & Co., books	211 67
Williard Small, books	20 59
Lothrop Publishing Co., books	37 50
D. Appleton & Co., books	50 00
Lee & Shepard, books	21 00
Puritan Publishing Co., books	30 00
University Publishing Co., books	16 00

C. A. Nichols, books	\$7 50
Educational Publishing Co., books	21 60
American Express Co., expressing	15
Franklin Educational Co., supplies	48 49
Boston School Supply Co., supplies	56 80
Thompson, Brown & Co., books and supplies	337 67
Carter, Rice & Co., supplies	1 00
George S. Perry & Co., supplies	382 98
Library Bureau, supplies	22 90
Gustavus F. Guild, cash paid for paper	1 00
Greenough, Adams & Cushing, supplies	724 03
Thomas Hall & Son, supplies	9 90
J. L. Hammett, supplies	44 27
Rosewell B. Lawrence, cash paid for book	2 50
F. E. Peirce, supplies	2 54
Frost & Adams, supplies	5 79
Silver, Burdett & Co., charts	84 00
A. B. Evans, delivering supplies, etc.	17 10
J. A. Smith, delivering supplies	21 00
Smith's M. & B. Express, expressing	1 15
Welch's Express, expressing	1 25
Chase's Express, expressing	17 05
M. Perham, expressing	2 50
	<u>\$3,999 86</u>

By appropriation, \$4,000.

TRANSPORTATION OF PUPILS.

Paid :

Dennis M. Hook, transportation of pupils	\$600 00
By appropriation, \$600.	

WATER.

Paid :

City of Medford, Water Department, water	\$346 27
City of Medford, Watering Streets account	69 68
	<u>\$415 95</u>

By appropriation, \$500.

RECAPITULATION—SCHOOL DEPARTMENT.

	Appropriations, Receipts and Transfers.	Amount Expended.
Salaries of committee	\$450 00	\$441 66
Salary of secretary	200 00	200 00
Salaries of teachers	42,605 00	42,551 05
Stewardship	3,650 00	3,650 00
Contingent	5,650 00	5,649 35
Evening schools	1,200 00	1,062 03
Fuel	5,500 00	5,051 28
Kindergarten	1,750 00	1,749 21
Manual training	1,200 00	1,198 27
Military instruction	150 00	150 00
Painting schoolhouses	500 00	471 35
Sewer assessments and connections	1,000 00	986 17
Superintendent	2,000 00	1,750 00
Text-books and supplies	4,000 00	3,999 86
Transportation of pupils	600 00	600 00
Water	500 00	415 95
	<hr/>	<hr/>
	\$70,955 00	\$69,926 18

SEWER DEPARTMENT.

BROOKS AND STREAMS.

Paid :	
Workmen, as per pay-rolls	\$9,087 58
Wellman Sole Cutting Machine Co., supplies	61 04
James Bean, coal	59 04
Riverside Wood Works, wood work	108 11
A. Treadwell, photographing	18 00
Heirs of William Goggin, land on West side of Forest street	450 00
J. H. Archibald, stock and labor	57 81
Walter L. Hall, land south side of Webster street,	295 00

Heirs of John D. Small, land north side of Water street	304 00
Pinder's Express, expressing	1 00
J. Connors, teaming	709 75
A. S. Morss, nails and spikes	20 61
T. Howard Barnes, proportion of salary	306 21
Bradlee, Hastings & Co., tools and supplies	286 13
Dana Hardware Co., cabinet clamps	2 70
Smith's M. & B. Express, expressing	4 40
Page & Curtin, tools and hardware	75 14
Chapman & Söden, coal tar	5 00
F. E. Foster & Co., lumber	1,099 35
Lindsey & Cudmore, brick work on drain	870 75
City of Medford, Highway Department, filling and stone	526 58
Bowker, Torrey & Co., slate slab	2 40
Samuel Appleton, insurance	80 00
Allen Bros., brass checks	1 50
G. W. & F. Smith, rods and washers	24 00
Massachusetts Broken Stone Co., stone	641 12
Walworth Mfg. Co., pipe fittings	4 78
Burrill & Dutton, filing saws	80
Carson Trench Machine Co., rental of machine and engine	200 00
City of Newton, grates	7 00
Globe Gas Light Co., gasoline	17 15
Daniel N. Howard, ammonia	50
S. M. Spencer & Son, brass checks	75
Patrick Dwyer, teaming	15 15
Ames Plow Co., shovels	4 32
J. W. Brogan, teaming	29 25
Frank Hervey, clover seed	2 43
Lindsey & Cudmore, extra work, etc.	21 66
E. C. Cutcliff, moving engine and derricks	60 00
Samuel Hobbs & Co., time books	1 40
Perrin, Seamans & Co., belts and mittens	8 46

EXPENDITURES.

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Charles W. Jacobs, boots	\$80 50
J. Rush Green, oak rolls	24 00
J. F. Dwyer, teaming	6 40
Lindsey & Cudmore, on contract for tide gates, .	2,149 84
William P. Clark, castings	22 20
Parry Bros. & Co., brick	224 00
Pigeon Hill Granite Co., cut stone	222 00
Charles R. Dawson, paint	2 25
Arthur C. Symmes, stock and labor	55 45
Page & Curtin, nails, lead, etc.	2 28
C. H. Day, boarding horses and care of wagons, .	24 00
City of Medford, Mystic Avenue Widening ac- count, filling	23 00
City of Medford, Sewer Construction account, material for tide gates	715 26
City of Medford, Sewer Construction account, brick, etc.	93 59
City of Medford, Water Department, water and supplies	159 06
D. Henry Cran, supplies, use of derrick, engine, etc.,	200 00
	<hr/>
	\$19,474 70
By appropriation	\$15,000 00
By receipts	4,701 48
	<hr/>
	\$19,701 48

SEWER CONSTRUCTION.

Paid :

Workmen and other employees, as per pay-rolls, \$24,347 71	\$24,347 71
Perrin, Seamans & Co., pipe, etc.	907 20
Waldo Bros., cement	3,342 10
Boston Double Catch Basin, Sewer and House Trap Co., trap	6 00
William S. Richards, speaking tubes, etc.	45 48
A. S. Morss, spikes	19 93
Berry & Ferguson, cement	3,794 75

W. G. Nash, cement	\$5,217 80
Parry Bros. & Co., brick	6,677 42
Walworth Mfg. Co., supplies	36 85
T. Howard Barnes, cash paid for sundries (including car fares, etc., of assistants)	338 59
Woodruff & Poor, rent of store at Wellington 1 month	8 00
Charles B. Buss, insurance on shed, stable and contents	24 00
Bradlee, Hastings & Co., lanterns and drills	8 37
Crockwell Bros., labor	39 00
Chase, Parker & Co., hardware	267 60
Morgan & Booth Construction Co., on contracts,	14,489 94
J. H. Archibald, stock and labor	12 35
H. A. Hanseom & Co., on contracts	14,006 10
Addison C. Getchell, printing 100 reports, etc.,	107 00
Samuel Appleton, insurance	15 00
George W. Prowse, electrical supplies	15 03
E. Stebbins Manufacturing Co., valve	92
E. G. Soltman, supplies	49 97
W. P. Treet, cloth	90
Buff & Berger, supplies	27 40
Riverside Wood Works, wood work	25 05
City of Medford, Water Department, labor in Winchester	6 05
Peet Valve Co., valves	200 00
W. A. Snow, supplies	26 79
Smith & Anthony, clean-outs, etc.	236 50
Troy C. & W. Mfg. Co., supplies	673 95
A. Treadwell, photographing	9 00
Aaron R. Gay & Co., stationery	23 50
Grundy Brass Works, supplies	13 50
Fairhaven Iron Foundry, manhole covers and rims,	1,994 40
Dodge, Haley & Co., steel	97
Pioneer Bundle Wood Co., mauls	17 75
Burrill & Dutton, sharpening saw	40

F. E. Foster & Co., lumber	\$1,236 94
S. T. Ash, lumber, etc.	17 35
James M. Cusker, sledge handles	5 00
Kimball Carriage Co., 1 wagon	100 00
James Martin & Son, awning and frame	22 00
Oliver Whyte, screen, etc.	15 00
Charles R. Dawson, stock and labor	11 02
W. B. Shelley, filing saws	2 30
Charles W. Jacobs, rubber boots	29 40
Western Union Tel. Co., telegrams	3 87
City of Medford, Water Dept., water and repairing,	154 26
Page & Curtin, hardware and tools	187 71
A. S. Crowell, shades, etc.	28 85
J. C. Miller, Jr., printing	424 75
F. T. Spinney, stamps, etc.	67 86
T. Howard Barnes, proportions of salary	1,050 23
Charles B. Stevens, Register of Deeds, recording,	1 34
Helotype Printing Co., printing maps	90 50
Frost & Adams, supplies	159 00
E. W. Mitchell, stationery, etc.	108 04
Joseph Hellen, coal	5 09
Arthur C. Symmes, new wagons and repairing,	415 99
Derby Desk Co., office furniture	186 85
E. B. Moore, agent, rent and janitor service	530 00
Leavens & Co., chairs, stools and tables	9 76
Arthur C. Symmes, horse	150 00
E. A. Carlisle, Pope & Co., sash, etc.	6 45
Ames Plow Co., supplies	13 24
City of Medford, Sidewalks and Edgestones account,	
relaying brick sidewalk	6 70
Bay State Brick Co., brick	1,543 10
John S. Williams, horse blankets, etc.	16 55
Keuffel & Esser Co., supplies	20 16
J. A. & W. Bird, paint	24 49
James J. Shannon & Co., typewriter supplies	2 65
Malden & Melrose Gas Light Co., gas and coke,	9 82

Malden Electric Co., light	\$21 72
Estate of John H. Chute, telephone charges	1 35
N. E. Tel. & Tel. Co., tolls and rentals	296 51
John Tutten, granite post	19 75
Thomas Casey, brick	55 05
Thomas Casey, teaming	3 57
Medford Mercury, advertising	27 05
Medford Times, advertising	1 50
Engineering Record, advertising	4 20
S. R. Niles Advertising Agency, advertising	110 28
Hill & Hill, supplies	37 75
S. McLean, rope	2 70
Boston & Maine R.R., freight	386 08
City of Medford, Brooks and Streams acc't, am't of sundry items paid from former account	3,701 48
F. H. Parker, rent and heating	93 00
Ned Moolhill, labor	36 00
Walter L. Hall, land south side of Webster street, Heirs of John D. Small, land north side of Water street	205 00
F. W. Barry, Beale & Co., stationery	196 00
Bragdon & Lowe, patching concrete	3 10
Smith's M. & B. Express, expressing	9 00
Donoghue's Express, expressing	35 85
Pinder's Express, expressing	55
American Express Co., expressing	1 40
Welch's Express, expressing	1 90
Blanchard Machine Co., gates	2 95
Woodruff & Poor, rent of store in Wellington	259 20
Greenwood & Co., supplies	30 93
J. A. Smith, teaming	280 13
William H. Lenox, teaming	4 75
F. W. Montague, oil, etc.	29 18
Allen Bros., rubber stamps	28 82
S. Thaxter & Co., leveling rod	2 30
George H. Sampson, supplies	6 00
	29 30

Adolph A. Kuehl, frame	\$3 95
James Bean, soft coal and grain	184 85
Ludlow Valve Mfg. Co., valve	1 58
City of Medford, Highway Department, material furnished	1,878 04
John P. Lovell Arms Co., lines	6 80
A. Ash, supplies	16 30
D. M. Hook, teaming	31 00
Osgood & Hart, castings	505 15
Wellman Sole Cutting Machine Co., material and labor	132 99
C. H. Day, horse	100 00
C. H. Day, carriage hire, etc.	163 00
Bruce R. Ware & Co., rope	3 00
C. H. Hartshorn, new harness, repairs, etc.	97 70
John A. Gaffey, harness	20 00
L. M. Ham & Co., iron work	18 00
Richard Falvey, on contracts	6,991 03
Lindsey & Cudmore, on contracts	9,137 45
A. W. Bryne, on contracts	16,649 40
H. A. Hanscom & Co., on contracts	21,031 32
Bride & Ames, supplies	7 27
Mrs. Leahy, washing towels	7 95
John Connors, teaming	515 85
Coffin Valve Co., valves, etc.	325 00
Herbert Etter, horseshoeing	28 00
Daniel N. Howard, sundries	5 25
Robert Maxwell, labor	3 65
M. F. Whiton, rope	8 56
W. E. Bentley, supplies	25
Boston Traveller, advertising	3 88
Belknap & Co., rubber stamps	90
Concord Foundry Co., grate	25 50
Sampson Cordage Co., rope	27 63
Globe Stamp Works, numbering machine, etc.	8 85
Gennaro, Long & Little, on contract	516 82

Lindsey & Cudmore, extra work	\$43 20
George D. Goodrich, sewer pipe	10,609 15
Darling, Brown & Sharpe, draughtsman's scales,	12 00
Carson Trench Machine Co., rental and teaming	
of trench machine, etc.	400 03
Malden & Melrose Gas Light Co., gas stove and	
tubing	21 00
Frank Hervey, fuse and caps	1 85
Irving M. Clark, use of transit at Wellington .	25 00
Smith & Winchester, plumbers' supplies . . .	7 54
M. F. Dwyer, supplies	3 20
Littlefield Directory Publishing Co., directory,	2 00
David Lynch, brick work	99 14
William S. Richards, repairing	4 16
Morgan & Booth Construction Co., labor and	
supplies	17 85
Lindsey & Cudmore, on contract for Spring	
street drain	610 82
Andrew W. Bryne, balance due under contract	
for Sections 9 and 11	287 81
William S. Childs, distributing sewer assessment	
bills	10 04
A. W. Bryne Construction Co., laying pipe, etc.,	351 25
A. W. Bryne Construction Co., on contract for	
Section 16	2,147 62
P. Connors, teaming	6 02
J. F. Dwyer, teaming	5 50
Union Water Meter Co., machine work	153 00
Brown & Wales, wrought-iron pipe	198 79
J. H. Cunningham & Co., supplies	6 15
E. S. Crawley, prescriptions, etc.	7 10
James Bean, coal	61 96
Samuel C. Lawrence, land on Fountain street .	645 75
Miss Clara M. Simpson, land on Webster street,	176 24
W. B. Hellen, 1,621 feet of land, also for dam-	
age to other land	200 00

EXPENDITURES.

355

Heirs of Joseph Manning, rent of land	\$400 00
Heirs of Joseph Manning, taxes on Sewer Department yard for 1894	34 55
William R. Maxwell, brick	183 40
Chase's M. & B. Express, expressing	7 55
City of Medford, Water Dept., water and supplies, Charles A. Wellington, purchase money for right of way	863 07
	36 00
	<u>\$165,709 45</u>
Amount of bill of P. Connors, duly approved, awaiting settlement of case	54 18
	<u>\$165,763 73</u>
By appropriation	\$199,580 63
By assessments	93,044 49
By house connections	7,002 96
By receipts	1,269 76
	<u>\$300,897 84</u>

SEWER PIPE.

Paid :	
George D. Goodrich, agent, pipe	\$14,820 98
Perrin, Seamans & Co., pipe	179 02
	<u>\$15,000 00</u>
By appropriation, \$15,000.	

SURVEYING.

Paid :	
Employees, as per pay-rolls	\$251 03
By re-appropriation, \$251.03.	

WATER DEPARTMENT.

SALARIES OF COMMISSIONERS.

Paid :	
Allston H. Evans, salary as Commissioner	\$50 00
Frank E. Chandler, salary as Commissioner	50 00
Eli Ayers, salary as Commissioner	50 00
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	\$150 00
By appropriation, \$150.	

HIGH SERVICE AND RENEWING MAINS.

Paid :	
Workmen, as per pay-rolls	\$19,936 82
Smith's M. & B. Express, expressing	60
Savage's Express, expressing	40
Pinder's Express, expressing	14 90
A. W. Hastings & Co., windows	7 40
Boston & Maine R.R., freight	1,550 47
Warren Foundry & Machine Co., refund of freight paid	4 91
Walsh Holyoke Steam Boiler Works, balance due under contract for standpipe	1,022 50
Frank Hervey, powder and fuse	95 38
Samuel Hobbs & Co., stationery	1 75
Perrin, Seamans & Co., supplies	159 89
Ames Plow Co., supplies	49 05
Brown & Wales, hardware supplies	20 80
Leonard & Ellis, oil	3 68
Warren Foundry & Machine Co., pipe	11,867 19
Coffin Valve Co., water gates	973 00
D. M. Hook, team and labor	407 25
Miller & Shaw, supplies	53 30
M. C. Vinal, labor	2 69
Riverside Wood Works, sawing wedges	6 50
Builders' Iron Foundry, castings	640 55

Chapman Valve Mfg. Co., supplies	\$62 05
Page & Curtin, hardware, etc.	9 00
George H. Sampson, powder and fuse	2 08
American Express Co., expressing	1 45
Charles R. Dawson, painters' supplies	17 55
Bunker Hill Iron Foundry, castings	100 03
Capt. W. J. Whelpley of Schr. Sygonia, freight,	319 96
Boston Woven Hose & Rubber Co., rubber	14 25
Malden & Melrose Gas Light Co., coke	21 00
Osgood & Hart, castings	392 55
S. T. Ash, plugs, etc.	10 25
F. W. Montague, oil	93 08
Chadwick Lead Works, lead	368 71
R. D. Wood & Co., pipe and hydrants	1,289 53
J. W. Elliot, M.D., professional services in Mc- Gaffigan case	50 00
R. B. McKim, paint	15 50
E. Moohill, labor	7 20
Walworth Mfg. Co., supplies	15 87
Anniston Pipe & Iron Foundry Co., pipe	3,596 83
Davis & Farnum Mfg. Co., pipe, etc.	94 11
Boston Lead Mfg. Co., lead	353 86
John McGaffigan, in settlement of claim for damages,	900 00
City of Medford, Highway Department, excava- ting rock, etc.	382 72
Crosby Steam Gage & Valve Co., gages	59 00
William F. Low, gaskets	3 18
N. D. Biswanger, labor	1 50
Bradlee, Hastings & Co., steel, etc.	5 64
Bragdon & Lowe, repairing crossing	10 00
Walter Bates & Son, team hire	20 25
J. E. Ober, cement and pails	2 05
J. B. Mahoney, M.D., professional services	30 00
Estate of J. H. Chute, telephone charges	3 75
Chase's M. & B. Express, expressing	3 25
City of Medford, Sewer Department, cement	2 10

F. L. Cushing, cash paid for sundries	\$5 65
William S. Richards, stock and labor	2 75
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	\$45,085 73
Expenditure of previous year charged to this year's account	1,267 42
Amount transferred to Improving and Enlarg- ing Water Supply account	1,000 00
	<hr/>
	\$47,353 15
By appropriation	\$48,000 00
By receipts	707 49
	<hr/>
	\$48,707 49

IMPROVING AND ENLARGING WATER SUPPLY..

Paid :

Workmen, as per pay-rolls	\$13,265 26
Boston & Maine R.R., freight	29 02
Heywood Bros. & Co., chairs	8 25
Berry & Ferguson, cement	26 75
Crosby Steam Gage & Valve Co., gage and water column	12 25
Fairbanks Co., scales	79 10
James E. Potter, on account of pumping station at Wright's pond	1,134 48
George L. Newhall, carriage hire	2 00
J. F. Dwyer, sand	45 00
F. E. Foster & Co., lumber	508 45
Wellman Sole Cutting Machine Co., machine work,	11 13
New England Water Pipe Co., pipe	28 19
G. P. Anderson, oil	1 40
Bunker Hill Iron Foundry, castings	19 75
Braman, Dow & Co., tools	37 97
M. C. Warren & Co., letter files	1 27
Perrin, Seamans & Co., supplies	117 53
Bay State Brick Co., brick	236 42

Boston Bolt Co., bolts	\$28 83
Waldo Bros., cement	680 45
E. Teel & Co., stone drag, etc.	20 76
American Express Co., expressing	3 40
Fisk, Homes & Co., fire brick	92 73
Walworth Mfg. Co., supplies	557 55
Warren Foundry & Machine Co., pipe	889 12
Pinder's Express, expressing	9 35
Boston Woven Hose & Rubber Co., packing	14 25
Wood Bros., paint	12 50
Bradlee, Hastings & Co., hardware, etc.	105 58
Builders' Iron Foundry, castings, etc.	47 85
Ross Valve Co., regulator with gates	165 00
Davis & Farnum Mfg. Co., castings, etc.	60 51
Peet Valve Co., supplies	10 80
Cunningham Iron Co., supplies	154 09
Ashton Valve Co., repairing	3 00
Welch's Express, expressing	1 05
Scrannage Bros., pipe, etc.	26 24
W. G. Nash, cement	65 00
Crockwell Bros., labor	39 00
Joseph Hellen, coal	6 26
Lead-lined Iron Pipe Co., pipe	1 80
Deane Steam Pump Co., supplies	23 50
Malden & Melrose Gas Light Co., coke	4 50
City of Malden, Water Department, notifying water takers	1 94
Miller & Shaw, supplies	3 65
J. N. Cowin & Co., taking down smoke stack	35 00
Howe & French, paint and oil	33 46
Clark Bros., labor	15 75
Wadsworth, Howland & Co., paint	3 20
A. C. Symmes, irons for ice run	4 80
T. Howard Barnes, proportion of salary	90 88
D. M. Dwyer, sand	3 00
City of Medford, Engineering Department	4 60

D. M. Hook, teaming pipe	\$30 25
Page & Curtin, tools, etc.	192 85
John E. Sweeney, carpenter work	7 50
Charles River Iron Works, 54 hours' labor	26 10
C. H. Day, carriage hire	32 50
Burr & Sise, architectural services on new pump- ing station	186 72
Dover Stamping Co., coolers	3 75
Ames Plow Co., supplies	37 52
Thomas Casey, paving stone	11 00
Martin Ellis & Co., raising smoke stack	50 00
Joseph Breck & Sons, seeds	5 86
W. P. Clark, bolts, etc.	11 55
William R. Maxwell, brick	14 95
F. L. Cushing, cash paid for telegrams, etc.	7 06
Donahue Bros., labor and material	53 50
John Tutten, stone and teaming	20 00
John H. Byron, labor	41 89
Weaving, Booth & Co., building manhole	20 00
O. Peasley, labor	2 00
Oliver Whyte & Co., wire work	27 20
F. O. Dewey, lantern	3 50
William T. Ross and Wilfred A. Cole, on account for building dam	3,388 81
City of Medford, Highway Department, crushed stone	21 00
John H. Burleigh, rent of transit	28 00
J. F. Dwyer, sand	18 00
A. M. Ellis, moving pumping station	50 00
Crockwell Bros., building gate house	282 50
William E. Ober, electrical work	7 94
Frank Hervey, powder, fuse, etc.	6 36
Charles H. Stone & Co., seed	12 57
A. M. Wood & Co., whiffletree	1 00
A. W. Hastings & Co., blinds	1 95
Jarvis Engineering Co., setting boiler, etc.	185 66

American Steam Gage Co., gages, etc.	\$92 00
Ludlow Valve Mfg. Co., valve	41 40
W. H. Johns Mfg. Co., covering steam pipes	83 00
S. & R. J. Lombard, stone	49 37
Knowlton Packing Co., packing	46 58
O. M. Wentworth, marble slab lettered	22 00
Smith's M. & B. Express, expressing	80
W. J. Welch, ornamenting and varnishing pumps,	95 00
L. H. Lovering, sand	26 50
Greenough, Adams & Cushing, stationery	1 75
George D. Goodrich, pipe	193 05
Parry Bros. & Co., brick	9 00
D. M. Hook, team hire	9 00
J. J. O'Brien, painting addition to new pumping station	48 00
James W. Vinal & Co., hardware	17 37
M. C. Vinal, labor	10 13
M. F. Dwyer, tin roofing, etc.	33 40
Edward Shaw, rent and lumber	106 00
Chase's M. & B. Express, expressing	2 95
Charles R. Dawson, painting and glazing	22 22
City of Medford, Sewer Department, cement and pipe	80 39
Locke Regulator Co., valve	90 00
Chadwick Lead Works, lead	1 82
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	\$24,654 84
By appropriation	\$42,978 06
By transfers	1,497 62
By receipts	230 04
	<hr/>
	\$44,705 72

MAINTENANCE AND INTEREST ON BONDS.

Paid:

Workmen, as per pay-rolls	\$6,228 78
Greenough, Adams & Cushing, books, stationery, etc.	21 25

Draper Mfg. Co., ink	\$0 25
Globe Stamp Works, brass die	8 00
Neptune Meter Co., disk for meter	75
M. Kuehl, brooms	4 00
Herbert Etter, shoeing, etc.	48 88
E. Teel & Co., wagon supplies	14 20
Chadwick Lead Works, tin tubing and lead	51 35
Edson Mfg. Co., diaphragms	10 80
Bradlee, Hastings & Co., steel, etc.	33 99
M. C. Warren & Co., letter files	5 38
Walworth Mfg. Co., supplies	35 92
E. L. Bruce, supplies	26 75
F. E. Foster & Co., lumber and cement	23 30
Eagle Oil & Supply Co., supplies	66 42
Globe Gas Light Co., gasoline and chimneys	9 05
Perrin, Seamans & Co., supplies	30 45
Addison C. Getchell, printing 200 reports	15 00
Chase, Parker & Co., duck	20 00
Frank Hervey, sundries	3 02
W. M. Simpson, D.V.S., professional services,	79 62
Charles F. Churchill, police duty at Spot Pond,	80 00
Ames Plow Co., tools	3 87
A. M. Wood & Co., shafts	3 50
William H. Gullison, pipe fittings	2 00
Boston Woven Hose & Rubber Co., supplies	4 06
Samuel Hobbs & Co., stationery	2 33
F. O. Dewey, lantern	3 50
Leonard & Ellis, oil	5 45
Joel Goldthwait & Co., felt	1 50
National Meter Co., repairing, etc.	4 85
F. W. Gow, salary as superintendent	1,500 00
F. L. Cushing, salary as Water Registrar	1,200 00
F. L. Cushing, sundry expenses	18 76
Littlefield Directory Co., directory	2 00
Timberlake & Small, 1 horse	175 00
Knowlton Packing Co., packing	9 24

Davis & Farnum Mfg. Co., castings	\$11 31
A. N. Reynolds & Co., oil	80
Charles Butters, rent of land	75 00
F. T. Spinney, stamped envelopes, etc.	54 50
William H. Herrick, services as accountant	83 33
H. N. Smart, labor and expressing	12 50
J. C. Miller, Jr., printing	55 25
F. W. Montague, oil	22 57
Page & Curtin, hardware	21 15
James Bean, coal, hay and grain	1,841 37
C. H. Hartshorn, carriage supplies, etc.	29 70
Charles B. Buss, insurance	67 00
Sewall & Day Cordage Co., rope	33 20
Sampson, Murdock & Co., directory	5 00
C. Williams, laundry work	90
Heirs of Joseph Manning, rent of shop and land,	250 00
J. W. Hoffman, varnish	45 90
Williams & Couch, telephones, oak back boards, etc.	49 00
D. N. Howard, supplies	16 90
Hartford Steam Boiler Insp. & Ins. Co.	100 00
Deane Steam Pump Co., valve springs	4 05
Chapman Valve Mfg. Co., valves, etc.	28 79
Charles R. Dawson, stock and labor	12 84
C. H. Day, carriage hire	17 25
H. L. Alderman, veterinary services	2 50
N. E. Tel. & Tel. Co., tolls and rentals	320 38
Adolph A. Kuehl, picture frames	3 50
Edward W. Mitchell, stationery	1 82
J. H. Archibald, carpenter work	1 50
W. E. Ober, electrical work	198 63
Snow Flake Axle Grease Co., supplies	71 64
J. N. Cowin & Co., hay, grain, etc.	446 41
Joseph Hellen, coal	1,144 94
A. S. Jackson, lantern	2 00
Ames Plow Co., 1 one-horse traverse runner sled,	60 00

City of Medford, Sewer Department, cement	\$13 13
W. B. Buckminster, 1 horse	100 00
Thomas P. Nichols, blank books, etc.	28 25
Boston & Lockport Block Co., diaphragms	4 50
American Steam Gage Co., repairing	6 00
G. P. Anderson, packing, etc.	10 97
E. Teel & Co., 1 open wagon	215 00
Arthur C. Symmes, repairing, etc.	58 61
Arthur C. Symmes, 1 wagon	150 00
S. T. Ash, wood work	1 55
American Express Co., expressing	2 60
McClellan's Express, expressing	17 85
Welch's Express, expressing	1 00
T. J. Sullivan, expressing	75
Pinder's Express, expressing	8 70
A. W. Robinson, expressing	1 55
Chase's M. & B. Express, expressing	4 65
Boston & Maine R.R., freight	50
Commissioners of Sinking Funds, surplus earnings for the year	18,682 99
Coupons due January 1, 1895	1,280 00
Coupons due April 1, 1895	1,000 00
Coupons due June 1, 1895	900 00
Coupons due July 1, 1895	5,360 00
Coupons due October 1, 1895	1,080 00
Coupons due December 1, 1895	900 00
Coupons due January 1, 1896	5,220 00
	<hr/>
	\$49,893 45

By receipts, \$49,893.45.

NEW CONSTRUCTION AND SERVICE PIPES.

Paid :

Workmen, as per pay-rolls	\$6,012 33
Bradlee, Hastings & Co., iron	19 17
Braman, Dow & Co., couplings	4 51

Hersey Mfg. Co., meters, etc.	\$208 90
National Meter Co., meters, etc.	339 85
Chadwick Lead Works, lead	361 69
Neptune Meter Co., meters, etc.	335 04
J. H. Cunningham Co., pipe	469 25
Scrannage Bros., castings	73 83
R. D. Wood & Co., hydrants and pipe	1,101 87
Union Water Meter Co., supplies	11 00
Bryant & Kent, cement	26 25
Crescent Tool Co., picks	20 00
Peet Valve Co., valve and water gates	20 40
Davis & Farnum Mfg. Co., pipe fittings, etc.	127 35
F. W. Montague, oil	14 05
New England Water Pipe Co., pipe	61 31
Chapman Valve Mfg. Co., valves	88 25
Walworth Mfg. Co., pipe and pipe fittings	833 01
F. E. Foster & Co., lumber	22 98
Jackson & Woodin Mfg. Co., pipe	168 11
Metropolitan Meter Co., meter	34 00
Bunker Hill Iron Foundry, castings	104 66
American Express Co., expressing	1 15
Coffin Valve Co., water gates	180 00
John Holloran, charcoal	3 30
Boston Bolt Co., nuts, etc.	3 00
C. S. Knowles, washers	18 20
Perrin, Seaman & Co., supplies	72 15
D. M. Hook, team hire and labor	52 50
Fred P. Jenkins, expressing	50
Osgood & Hart, castings	131 41
Warren Foundry & Machine Co., pipe	1,648 94
Page & Curtin, hardware	11 16
Boston & Maine R.R., freight	104 36
Charles W. Jacobs, boots	7 50
Donahue's Express, expressing	65
Smith's M. & B. Express, expressing	15

City of Medford, Sewer Department, cement and pipe	\$31 64
Henry F. Jenks, drinking cups	5 40
Wellman Sole Cutting Machine Co., drill, etc.,	12 48
Medford Mercury, advertising	1 50
Edward Finnerty, amount overpaid for service pipe,	1 95
Stoughton Rubber Co., rubber mittens	6 00
I. G. Marston & Co., packing and valves	30 00
Ludlow Valve Mfg. Co., valves	22 06
Builders Iron Foundry, castings	1 32
J. A. Smith, expressing	47
Chase's M. & B. Express, expressing	1 50
Malden & Melrose Gas Light Co., coke	3 00
Henry McShane Mfg. Co., supplies	4 18
M. C. Warren & Co., stationery	2 63
Boston Rubber Shoe Co., rubber boots	10 00

\$12,826 91

By appropriation	\$10,000 00
By transfer	1,000 00
By receipts	2,555 72
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	\$13,555 72

RENTS AND REPAIRS OF BUILDINGS.

Paid :

Workmen, as per pay-rolls	\$1,187 73
John J. Desmond, plumbing	6 30
Charles B. Buss, insurance on pumping station,	25 00
F. L. Cushing, cash paid for sundries	33 53
Page & Curtin, hardware	15 58
F. E. Foster & Co., lumber and shavings	104 92
John Nolan, laying shingles	43 00
J. C. Miller, Jr., printing	1 00
Medford Mercury, advertising	4 00
Bradlee, Hastings & Co., bolts, etc.	3 74

George W. Stetson, insurance on ice-houses . . .	\$105 00
Chase's M. & B. Express, expressing . . .	1 50
Town of Stoneham, taxes on real estate . . .	27 94
Arthur C. Symmes, bolts	48
M. F. Dwyer, stock and labor	20 50
E. Teel & Co., stock and labor	34 20
J. A. Smith, surveying wood	9 60
Henry K. Barnes, belting lace	1 50
Charles R. Dawson, labor and setting glass . . .	3 49
Boston Bolt Co., supplies	8 68
Boston & Maine R.R. Co., freight	2 89
Wellman Sole Cutting Machine Co., bushing pulley	6 00
William T. Wood & Co., ice tools	7 95
Scott & Bridge, scales	80 90
James W. Vinal, hardware, etc.	17 83
Commissioners of Sinking Funds, surplus earn- ings for the year	535 73
Knowlton Packing Co., supplies	47 08
D. M. Hook, cutting ice	51 22
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	\$2,387 29

By receipts, \$2,387.29.

RENEWAL OF MAIN BETWEEN PONDS.

Paid :

Workmen, as per pay-rolls	\$2,716 97
Weaving, Booth & Co., on contract	500 00
A. Treadwell, photographing	4 00
Oliver Whyte & Co., basket	3 00
T. Howard Barnes, proportion of salary	106 28
Engineering News Publishing Co., advertising . . .	5 00
James Bean, soft coal	105 80
Globe Newspaper Co., advertising	2 25
R. D. Wood & Co., pipe	283 78
Medford Mercury, advertising	2 00

Boston Herald Co., advertising	\$2 38
Ham & Hopkins, building gate-house	359 00
J. H. Archibald, labor	8 74
William P. Clark, castings	1 28
D. M. Hook, teaming	94 99
Stoughton Rubber Co., supplies	4 35
Bay State Brick Co., brick	8 50
Edward McManus, on contract	13,109 92
Chapman Valve Co., supplies	35 08
O. Peasley, stone work	14 00
John H. Burleigh, rent of transit	22 50
Boston & Maine R.R. Co., freight	47 17
Davis & Farnum, pipe, etc.	379 96
Charles W. Jacobs, boots	11 25
Eddy Valve Co., supplies	100 00
C. H. Day, carriage hire	5 25
Henry K. Barnes, belt lacing	1 50
J. C. Miller, Jr., printing	1 00
T. J. Sullivan, expressing	2 00
J. N. Cowin & Co., bags and burlap	2 65
F. E. Foster & Co., lumber	68 14
F. W. Montague, oil	4 05
Wellman Sole Cutting Machine Co., gate rods	4 30
Perrin, Seamans & Co., supplies	3 19
Waldo Bros., cement	279 75
Peet Valve Co., gate	35 00
Walworth Mfg. Co., pipe, etc.	3 72
Parry Bros., brick	192 00
Boston Rubber Shoe Co., boots	12 50
Boston Bolt Co., bolts	1 08
Bradlee, Hastings & Co., iron	5 60
Wight & Scorgie, stone work	54 00
G. W. & F. Smith Iron Co., castings	3 00
Page & Curtin, file	25
Sullivan's Express, expressing	1 50
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	\$18,608 68

EXPENDITURES.

369

By re-appropriation	\$16,219 64
By transfer	3,000 00
By receipts	138 32
	<hr/>
	\$19,357 96

WATER DEPARTMENT BUILDING.

Paid :	
Medford Mercury, advertising	\$3 90
The Boston Herald Co., advertising	1 88
J. W. Brogan, team hire	9 00
Donahue Bros., on account of contract	4,500 00
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	\$4,514 78

By appropriation, \$10,000.

TABULAR STATEMENT.

Showing Appropriations, Transfers, Receipts, Amount Expended, Unexpended Balances, &c.

NAMES OF ACCOUNTS.	Appropriations, re-appropriations, balances and assessments.	Transfers from other accounts.	Receipts.	Total amount credited.	Transfers to other accounts.	Expended to date.	Unexpended balances.	Excess.
Abated taxes and estates bought at sale for taxes	\$500 00		\$26 65	\$526 65		\$374 38	\$152 27	
Advertising	700 00			700 00		558 38	141 62	
Armory	700 00			700 00		717 49		\$17 49
Canvassing births	125 00			125 00		111 00	14 00	
Claims	17,473 29			17,473 29		17,453 20	20 09	
City Council contingent	1,395 59			1,395 59		329 59	1,066 00	
City Hall (fuel, light, etc.)	2,550 00			2,550 00		2,366 04	183 96	
City Hall equipment	2,000 00		14 00	2,014 00		2,913 44	56	
Decoration and care of soldiers graves	300 00			300 00		300 00		
Election expenses	1,500 00			1,500 00		1,405 60	94 40	
Engine house, Medford street	2,117 93			2,117 93		2,117 93		
Gravelly creek (land damages and improvements)	710 00			710 00			710 00	
Gravelly creek (to complete contract)	116 55			116 55		116 55		
High schoolhouse	146,967 62			146,967 62		85,304 50	61,663 12	
Hillside school	16,000 00			16,000 00		15,669 91	330 09	
Hydrants]	4,830 00			4,830 00		4,830 00		
Insurance]	1,800 00		5 29	1,805 29		1,053 65	751 64	
Interest	9,514 02		5,349 31	14,863 33		19,038 95		4,175 62
Lincoln schoolhouse	1,274 25			1,274 25		848 55	425 70	
Miscellaneous account	2,500 00			2,500 00		2,122 16	377 84	
Payment of city debt	12,000 00			12,000 00		12,000 00		
Police station	14,754 49			14,754 49		14,711 16	43 33	

Preservation of public documents	544 30			544 30	535 12	9 18	
Printing and stationery	800 00			800 00	552 21	247 79	
Rifle range (rent and repairs)	175 00			175 00	175 00		
Ringing bells on holidays	50 00			50 00	42 00	8 00	
Salaries	13,000 00			13,000 00	12,959 22	40 78	
Sanitary improvement	100 00			100 00	93 00	7 00	
Soldiers' relief	1,800 00		8 00	1,808 00	1,691 04	116 96	
State aid	1,216 00		2,044 50	3,260 50	2,680 00	580 50	
Street lights	12,902 02			12,902 02	12,400 53	501 49	
Telephones (for old City Hall only)	160 00			160 00	127 67	32 33	
<i>Assessing Department:</i>							
Compensation of assessors and clerk	1,900 00			1,900 00	1,882 11	17 89	
Assessors' expenses	1,000 00	\$1,000 00		2,000 00	1,876 13	123 87	
<i>Auditing Department:</i>							
Salary of city auditor	1,200 00			1,200 00	1,200 00		
Expenses (for books, printing, etc.)	200 00			200 00	199 91	09	
Printing reports	700 00			700 00	699 78	22	
<i>Cemetery Department:</i>							
Salaries of trustees	125 00			125 00	125 00		
Oak Grove cemetery	1,300 00		4,142 00	5,442 00	5,420 62	21 38	
Cross street cemetery	125 00			125 00	61 17	63 83	
Salem street cemetery	150 00			150 00	41 53	108 47	
<i>Engineering Department:</i>							
Expenses of city engineer	1,500 00			1,500 00	1,493 67	6 33	
Map of Medford	2,500 00			2,500 00	2,497 41	2 59	
<i>Fire Department:</i>							
Salaries of engineers and men	9,510 00			9,510 00	9,212 41	297 59	
Ordinary expenses	6,254 58	230 17	43 00	6,527 75	6,258 05	269 70	
Fires in the woods	196 00			196 00	105 45	90 55	
Fire alarm boxes	500 00			500 00	494 81	5 19	

TABULAR STATEMENT—CONTINUED.

NAMES OF ACCOUNTS.	Appropriations, re-appropriations, balances and assessments.	Transfers from other accounts.	Receipts.	Total amount credited.	Transfers to other accounts.	Expended to date.	Unexpended balances.	Excess.
New hose	\$1,200 00			\$1,200 00		\$1,189 00	\$11 00	
Repairs at Centre house	300 00			300 00		298 44	1 56	
Supply wagon, South Medford	225 00			225 00		225 00		
Telephones	414 00			414 00		360 88	53 12	
<i>Health Department:</i>								
Salaries of Board of Health	200 00			200 00		200 00		
General expenses	900 00			900 00		899 54	46	
<i>Highway Department:</i>								
Salary of street commissioner	1,600 00			1,600 00		1,600 00		
Ashes (collection of)	3,000 00		54 35	3,054 35		3,030 32	24 03	
Bridges	500 00			500 00		256 55	243 45	
Care of trees	1,000 00		75	1,000 75		641 91	358 84	
Collection of house offal	4,700 00		325 00	5,025 00	\$2,000 00	2,787 58	237 42	
Forest street culvert	400 00			400 00		367 53	32 47	
General repairs of highways	15,000 00	2,000 00	5,647 96	22,647 96		20,828 89	1,819 07	
Governor's avenue	1,500 00			1,500 00		1,314 73	185 27	
Guide boards and street signs	100 00			100 00		76 15	23 85	
James street	500 00			500 00		282 75	217 25	
Magoun avenue	1,200 00			1,200 00			1,200 00	
Middlesex avenue bridge	800 00		513 64	1,313 64		1,295 90	17 74	
Paving gutters	1,000 00			1,000 00		963 22	36 78	
Setting out trees	300 00			300 00		154 26	145 74	
Shed at city stables	500 00			500 00	500 00			
Sidewalks and edgestones	5,034 01	1,000 00	2,555 69	8,589 70		9,792 13		\$1,202 43
Snow (removal of)	1,000 00	500 00		1,500 00		1,243 20	256 80	

Stone crusher and elevator	1,700 00		1,700 00	1,699 86	14
Street numbering	500 00	48 72	548 72	131 25	417 47
Watering streets	4,757 23		4,757 23	3,050 50	1,706 73
Daisy street	600 00		600 00	193 25	406 75
Forest street widening	500 00		500 00	497 83	2 17
Garfield avenue	500 00		500 00	246 15	253 85
Higgins and Wheeler avenues	600 00		600 00	136 50	463 50
Joseph street	100 00		100 00		100 00
Lapham street dtstrict drain	3,050 00		3,050 00	3,040 52	9 48
Mystic avenue	4,000 00	23 00	4,023 00	2,028 08	1,994 92
Newbern avenue	1,200 00	200 00	1,400 00	1,399 27	73
Tufts street		300 00	300 00	123 50	176 50
Webster street	600 00		600 00	587 60	12 40
<i>Inspection Department :</i>					
Expenses (printing, etc.)	100 00	225 00	325 00	- 325 00	
Safe	150 00		150 00	135 00	15 00
<i>Park Department :</i>					
Logan grove	700 00		700 00	700 00	
Magoun park	1,500 00		1,500 00	1,499 68	32
Public commons	593 16	35 00	628 16	456 91	171 25
Magoun park enlargement	1,500 00		1,500 00	1,500 00	
Logan grove sidewalk	184 14		184 14	184 14	
<i>Police Department :</i>					
Salaries of policemen	12,600 00		12,600 00	12,600 00	
Special police service, etc.	2,615 00	1,254 00	3,869 75	3,869 38	37
Police station equipment	650 00		650 00	645 45	4 55
<i>Public Library Department :</i>					
General expenses	3,700 00	1,515 27	5,215 27	5,214 63	64
Public Library lot		1,600 00	1,600 00	1,600 00	

TABULAR STATEMENT—CONTINUED.

NAMES OF ACCOUNTS.	Appropriations, re-appropriations, balances and assessments.	Transfers from other accounts.	Receipts.	Total amount credited.	Transfers to other accounts.	Expended to date.	Unexpended balances.	Excess.
<i>Relief of Poor Department:</i>								
Salaries of overseers	\$600 00			\$600 00		\$600 00		
Almshouse	4,500 00		\$394 73	4,894 73		4,740 53	\$154 20	
Outside relief	8,320 27		1,455 83	9,776 10		6,310 74	3,465 36	
<i>School Department:</i>								
Salaries of committee	450 00			450 00		441 66	8 34	
Salary of secretary	200 00			200 00		200 00		
Salaries of teachers	42,105 00	500 00		42,605 00		42,551 05	53 95	
Stewardship	3,650 00			3,650 00		3,650 00		
Contingent	4,900 00	750 00		5,650 00		5,649 35	65	
Evening schools	1,200 00			1,200 00		1,062 03	137 97	
Fuel	5,500 00			5,500 00		5,051 28	448 72	
Kindergarten (S. and W. Medford)	1,750 00			1,750 00		1,749 21	79	
Manual training	1,200 00			1,200 00		1,198 27	7 73	
Military instruction	150 00			150 00		150 00		
Painting schoolhouses	500 00			500 00		471 35	28 65	
Sewer assessments and connections		1,000 00		1,000 00		986 17	13 83	
Superintendent	2,000 00			2,000 00		1,750 00	250 00	
Text books and supplies	4,000 00			4,000 00		3,999 86	14	
Transportation of pupils	600 00			600 00		600 00		
Water	500 00			500 00		415 95	84 05	
<i>Sewer Department:</i>								
Brooks and streams	15,000 00		4,701 48	19,701 48		19,474 70	226 78	
Sewer construction	299,628 08		1,269 76	300,897 84		105,763 73	135,134 11	
Sewer pipe	15,000 00			15,000 00		15,000 00		

Surveying	251 03			251 03		251 03		
<i>Water Department:</i>								
Salaries of commissioners	150 00			150 00		150 00		
High service and renewing mains	48,000 00		707 49	48,707 49	1,000 00	46,353 15	1,354 34	
Improving and enlarging water supply	42,978 06	1,497 62	230 04	44,705 72		24,654 84	20,050 88	
Maintenance and interest on bonds			49,893 45	49,893 45		49,893 45		
New construction and service pipes	10,000 00	1,000 00	2,555 72	13,555 72		12,826 91	728 81	
Pumping station at Wright's pond	3,497 62			3,497 62	3,497 62			
Rents and repairs of buildings			2,387 29	2,387 29		2,387 29		
Renewal of main between ponds	16,219 64	3,000 00	138 32	19,357 96		18,608 68	749 28	
Water department building	10,000 00			10,000 00		4,514 78	5,485 22	
Miscellaneous credits			573,803 99	573,803 99	9,559 17	79,346 48	484,898 34	
Metropolitan sewer tax	9,950 81			9,950 81		9,950 81		
Middlesex County tax	14,753 88			14,753 88		14,753 78		
Notes in anticipation of taxes			100,000 00	100,000 00		100,000 00		
State tax	9,345 00			9,345 00		9,345 00		
Sinking funds (assessed in 1895)	11,157 85			11,157 85		11,157 85		
City collector, sewer assessments			20,296 80					
City collector, sewer connections			6,572 42					
City collector, watering assessment			1,838 27					
City collector, tax account			226,257 55					
Perpetual care fund			1,350 00					
	\$969,766 42	\$16,556 79	\$1,016,406 02	\$1,746,414 19	\$16,556 79	\$1,002,848 83	\$732,404 11	\$5,395 54
Cash in treasury Feb. 1, 1895			32,774 03					
Cash in treasury Feb. 1, 1896						47,598 54		
Deduct amount expended the previous year but charged in this year's account for "High service and renewing mains"						\$1,050,447 47		
						1,267 42		
			\$1,049,180 05			\$1,049,180 05		

The foregoing accounts have been closed, with the exception of those which are to be carried forward into the new year.

BALANCES,

FEBRUARY 1, 1896.

	Dr.	Cr.
* High schoolhouse		\$61,663 12
* Lincoln schoolhouse		425 70
* High service and renewing mains,		1,354 34
* Renewal of main between ponds		749 28
* Water Department building		5,485 22
† Sewer construction		135,134 11
‡ Improving and enlarging water supply		20,050 88
Overlay and abatement		1,882 19
Funded debt		1,018,000 00
Unfunded debt		96,500 00
Permanent debt		14,609 42
Perpetual Care Fund		16,822 50
§ Public property (real estate) \$604,050 00		
Property and debt balance	541,881 92	
Excess and deficiency	69,401 48	
City Collector, tax account	35,780 10	
City Collector, sewer assessments,	72,747 69	
City Collector, sewer connections,	430 54	
City Collector, watering assessment,	786 39	
City Treasurer (cash in treasury, February 1, 1896)	47,598 64	
	\$1,372,676 76	\$1,372,676 76

* Bonds have been issued covering these amounts.

† Bonds have been issued for \$35,086.60.

‡ Bonds have been issued for \$50.88, leaving the \$20,000 to be bonded.

§ This includes only a part of that taken by the Water Department.

BILLS FOR COLLECTION.

All bills due the city from the various departments, excepting those for water rates, service pipes, taxes, street-watering, care of lots, sewer assessments and sewer connections pass through this office, and are registered, numbered and mailed to the parties designated, and a memorandum of the items is given to the City Collector for collection.

The books of this department show the amount remaining uncollected February 1, 1896, to have been as follows :

For Sidewalks and Edgestones account	\$2,752 21
For General Repairs of Highways account	758 55
For Outside Relief account	532 15
For Almshouse account	427 88.
For ordinary expenses Fire Department account,	8 44
For Sewer Construction account	50 44
For Miscellaneous Credits account	85 25.
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	\$4,614 92

CITY DEBT.

During the year bonds were issued of the par value of	\$425,000 00
Notes were issued amounting to	46,500 00
And the Perpetual Care Fund increased	1,350 00
	<hr/>
	\$472,850 00
Notes were paid amounting to	18,000 00
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Total increase for the year	\$454,850 00

The present indebtedness of the city is as follows :

FUNDED DEBT.
MEDFORD WATER FUND BONDS.

DATE.	Issued under		Due.	Rate.	Numbered.	Interest payable.		Amount.
	Chap.	Acts of				Jan. 1 and July 1	Jan. 1 and July 1	
July 1, 1890	201	1889	July 1, 1900	4		Jan. 1 and July 1	\$75,000 00	
July 1, 1890	201	1889	July 1, 1910	4		" 1 " 1	125,000 00	

\$200,000 00

CITY OF MEDFORD WATER FUND BONDS.

Jan. 1, 1894	98	1893	Jan. 1, 1899	4	1- 4	Jan. 1 and July 1	\$4,000 00
" 1, 1894	98	1893	" 1, 1900	4	5- 8	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1901	4	9- 12	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1902	4	13- 16	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1903	4	17- 20	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1904	4	21- 24	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1905	4	25- 28	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1906	4	29- 32	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1907	4	33- 36	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1908	4	37- 40	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1909	4	41- 44	" 1 " 1	4,000 00
" 1, 1894	98	1883	" 1, 1910	4	45- 48	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1911	4	49- 52	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1912	4	53- 56	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1913	4	57- 60	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1914	4	61- 64	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1915	4	65- 68	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1916	4	69- 72	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1917	4	73- 76	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1918	4	77- 80	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1919	4	81- 84	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1920	4	85- 88	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1921	4	89- 92	" 1 " 1	4,000 00

" 1, 1894	98	1893	" 1, 1922	4	93-96	" 1 " 1	4,000 00
" 1, 1894	98	1893	" 1, 1923	4	97-100	" 1 " 1	4,000 00
Oct. 1, 1894	98	1893	Oct. 1, 1914	4	101-125	Apr. 1 and Oct. 1	25,000 00
" 1, 1894	98	1893	" 1, 1919	4	126-150	" 1 " 1	25,000 00
Dec. 1, 1894	98	1893	Dec. 1, 1922	4	151-195	June 1 and Dec. 1	45,000 00
July 1, 1895	98	1893	July 1, 1916	4	196-201	Jan. 1 and July 1	6,000 00
" 1, 1895	98	1893	" 1, 1917	4	202-207	" 1 " 1	6,000 00
" 1, 1895	98	1893	" 1, 1918	4	208-218	" 1 " 1	11,000 00
" 1, 1895	98	1893	" 1, 1920	4	219-233	" 1 " 1	15,000 00
" 1, 1895	98	1893	" 1, 1921	4	234-248	" 1 " 1	15,000 00
" 1, 1895	98	1893	" 1, 1923	4	249-258	" 1 " 1	10,000 00
Total Water Debt							258,000 00
Amount authorized by Chapter 98, Acts of 1893, \$300,000.							\$458,000 00

MEDFORD PUBLIC BUILDING LOAN.

July 1, 1893	167	1893	July 1, 1913	4	1-30	Jan. 1 and July 1	\$30,000 00
" 1, 1893	167	1893	" 1, 1913	4	31-45	" 1 " 1	15,000 00
Nov. 1, 1894	167	1893	Nov. 1, 1914	4	46-101	May 1 and Nov. 1	56,000 00
July 1, 1895	167	1893	July 1, 1899	4	102-107	Jan. 1 and July 1	6,000 00
" 1, 1895	167	1893	" 1, 1901	4	108-113	" 1 " 1	6,000 00
" 1, 1895	167	1893	" 1, 1902	4	114-119	" 1 " 1	6,000 00
" 1, 1895	167	1893	" 1, 1903	4	120-125	" 1 " 1	6,000 00
" 1, 1895	167	1893	" 1, 1904	4	126-129	" 1 " 1	4,000 00
" 1, 1895	167	1893	" 1, 1907	4	130-133	" 1 " 1	4,000 00
" 1, 1895	167	1893	" 1, 1908	4	134-154	" 1 " 1	21,000 00
" 1, 1895	167	1893	" 1, 1909	4	155-180	" 1 " 1	26,000 00
" 1, 1895	167	1893	" 1, 1911	4	181-206	" 1 " 1	26,000 00
" 1, 1895	167	1893	July 1, 1912	4	207-232	Jan. 1 and July 1	26,000 00
" 1, 1895	167	1893	" 1, 1915	4	233-250	" 1 " 1	18,000 00
Total							\$250,000 00
Amount authorized by Chapter 167, Acts of 1893, \$250,000.							

CITY OF MEDFORD PUBLIC PLAYGROUND LOAN.

DATE.	Issued under Chap. Acts of		Due.	Rate.	Numbered.	Interest payable.	Amount.
July 2, 1894	225	1893	July 1, 1904	4	1- 7	Jan. 1 and July 1	\$7,000 00
Dec. 1, 1894	225	1893	Dec. 1, 1914	4	8- 21	June 1 and Dec. 1	14,000 00
Total							

21,000 00

MEDFORD SEWERAGE LOAN.

July 2, 1894	180	1893	July 1, 1905	4	1- 20	Jan. 1 and July 1	\$20,000 00
" 2, 1894	180	1893	" 1, 1906	4	21- 32	" 1 " 1	12,000 00
" 2, 1894	180	1893	" 1, 1907	4	33- 44	" 1 " 1	12,000 00
" 2, 1894	180	1893	" 1, 1915	4	45- 54	" 1 " 1	10,000 00
" 2, 1894	180	1893	" 1, 1924	4	55- 64	" 1 " 1	10,000 00
Oct. 1, 1894	180	1893	Oct. 1, 1905	4	65- 74	Apr. 1 and Oct. 1	10,000 00
" 1, 1894	180	1893	" 1, 1906	4	75- 84	" 1 " 1	10,000 00
" 1, 1894	180	1893	" 1, 1915	4	85- 94	" 1 " 1	10,000 00
" 1, 1894	180	1893	" 1, 1924	4	95-104	" 1 " 1	10,000 00
Aug. 1, 1895	180	1893	Aug. 1, 1916	4	105-124	Feb. 1 and Aug. 1	20,000 00
" 1, 1895	180	1893	" 1, 1917	4	125-144	" 1 " 1	20,000 00
" 1, 1895	180	1893	" 1, 1918	4	145-164	" 1 " 1	20,000 00
" 1, 1895	180	1893	" 1, 1919	4	165-184	" 1 " 1	20,000 00
" 1, 1895	180	1893	" 1, 1920	4	185-209	" 1 " 1	25,000 00
" 1, 1895	180	1893	" 1, 1921	4	210-234	" 1 " 1	25,000 00
" 1, 1895	180	1893	" 1, 1922	4	235-259	" 1 " 1	25,000 00
" 1, 1895	180	1893	" 1, 1923	4	260-289	" 1 " 1	30,000 00
Total							

289,000 00

Amount authorized by Chapter 180, Acts of 1893, \$350,000.

Total amount of Funded Debt, February 1, 1896 \$1,018,000 00

UNFUNDED DEBT.

Date.	To whom issued.	Due.	Rate.	Amount.
April 18, 1895	F. S. Moseley & Co.	April 18, 1896	3 $\frac{00}{100}$ per cent	\$17,500 00
Jan. 1, 1891	Brewster, Cobb & Estabrook	July 1, 1896	4 "	13,000 00
Dec. 19, 1895	Medford Savings Bank	Dec. 19, 1896	4 "	4,000 00
Dec. 19, 1895	"	Dec. 19, 1896	4 "	3,000 00
Sept. 14, 1895	"	Sept. 14, 1897	4 "	16,000 00
Sept. 14, 1895	"	Sept. 14, 1897	4 "	6,000 00
Nov. 22, 1892	"	Nov. 22, 1897	4 "	12,000 00
Dec. 1, 1890	Boston Commandery Knights Templars	Dec. 1, 1897	4 "	5,000 00
Dec. 6, 1892	Medford Savings Bank	Dec. 6, 1897	4 "	8,000 00
July 12, 1894	Warren Institution for Savings	July 12, 1898	4 "	12,000 00
	Total unfunded debt			\$96,500 00

PERMANENT DEBT.

		Due.	Rate.	Amount.
Secomb Fund .	Deposited in City Treasury .	Perpetual	6 per cent	\$5,800 00
Hall Church Fund .	"	"	"	5,000 00
Simonds Fund .	"	"	"	1,300 00
Osgood Fund .	"	"	"	2,009 42
Tufts Fund .	"	"	"	500 00
Total . . .				\$14,609 42

PERPETUAL CARE FUND.

For perpetual care of lots in cemeteries. (Deposited in City Treasury; interest 4 per cent.) \$19,822 50

TRUST FUND.

There is also a fund known as the Bradbury Fund, amounting \$11,252. This is invested in the Medford Savings Bank, and is not included in estimating the city's indebtedness.

MATURITY OF BONDS.

Date of Maturity.	Water Loan.	Public Building Loan.	Playground Loan.	Sewerage Loan.	Total each year.
1899	Jan. 1 . . . \$4,000	July 1 . . . \$6,000			\$10,000
1900	Jan. 1 . . . 4,000				79,000
	July 1 . . . 75,000				
1901	Jan. 1 . . . 4,000	July 1 . . . 6,000			10,000
1902	Jan. 1 . . . 4,000	July 1 . . . 6,000			10,000
1903	Jan. 1 . . . 4,000	July 1 . . . 6,000			10,000
1904	Jan. 1 . . . 4,000	July 1 . . . 4,000	July 1 . . . \$7,000		15,000
1905	Jan. 1 . . . 4,000			{ July 1 . . \$20,000	34,000
				{ Oct. 1 . . 10,000	
1906	Jan. 1 . . . 4,000			{ July 1 . . 12,000	26,000
				{ Oct. 1 . . 10,000	
1907	Jan. 1 . . . 4,000	July 1 . . . 4,000		July 1 . . . 12,000	20,000
1908	Jan. 1 . . . 4,000	July 1 . . . 21,000			25,000
1909	Jan. 1 . . . 4,000	July 1 . . . 26,000			30,000
1910	Jan. 1 . . . 4,000				129,000
	July 1 . . . 125,000				
1911	Jan. 1 . . . 4,000	July 1 . . . 26,000			30,000
1912	Jan. 1 . . . 4,000	July 1 . . . 26,000			30,000
1913	Jan. 1 . . . 4,000	July 1 . . . 45,000			49,000

1914	{ Jan. 1 . . . 4,000 { Oct. 1 . . . 25,000	Nov. 1 . . . 56,000	Dec. 1 . . . 14,000		99,000
1915	Jan. 1 . . . 4,000	July 1 . . . 18,000		{ July 1 . . . 10,000 { Oct. 1 . . . 10,000	42,000
1916	{ Jan. 1 . . . 4,000 { July 1 . . . 6,000			Aug. 1 . . . 20,000	30,000
1917	{ Jan. 1 . . . 4,000 { July 1 . . . 6,000			Aug. 1 . . . 20,000	30,000
1918	{ Jan. 1 . . . 4,000 { July 1 . . . 11,000			Aug. 1 . . . 20,000	35,000
1919	{ Jan. 1 . . . 4,000 { Oct. 1 . . . 25,000			Aug. 1 . . . 20,000	49,000
1920	{ Jan. 1 . . . 4,000 { July 1 . . . 15,000			Aug. 1 . . . 25,000	44,000
1921	{ Jan. 1 . . . 4,000 { July 1 . . . 15,000			Aug. 1 . . . 25,000	44,000
1922	{ Jan. 1 . . . 4,000 { Dec. 1 . . . 45,000			Aug. 1 . . . 25,000	74,000
1923	{ Jan. 1 . . . 4,000 { July 1 . . . 10,000			Aug. 1 . . . 30,000	44,000
1924				{ July 1 . . . 10,000 { Oct. 1 . . . 10,000	20,000
Totals	\$458,000 *\$42,000	\$250,000	\$21,000	\$289,000 *\$61,000	\$1,018,000

* Authorized but not issued.

PURPOSES FOR WHICH BONDS WERE ISSUED.

City of Medford Water Fund Bonds:

To cover all appropriations made to this date for "Water Department Building" account, "High Service and Renewing Mains" account, "Renewal of Main between Ponds" account and "Improving and Enlarging Water Supply" account, excepting the \$20,000 credited to the latter account for the purchase of land	\$91,000 00
--	-------------

Medford Public Building Loan Bonds:

To cover the expenditures of the previous year and the re-appropriation for the new High schoolhouse	149,000 00
--	------------

Medford Sewerage Loan:

To cover the appropriation for Sewer Construction account	185,000 00
Total	\$425,000 00

According to the terms on which the appropriations were made, bonds are to be issued to cover the following expenditures:

Sewer pipe	\$15,000 00
Brooks and streams	14,773 22
	\$29,773 22

	Area. Feet.	Value.
<i>Amount brought forward,</i>		\$197,150 00
Land corner Warren and Madison streets . . .	20,372	4,050 00
Hall schoolhouse . . .		4,000 00
Land Harvard avenue . . .	16,000	3,200 00
Hervey schoolhouse . . .		7,000 00
Land Sharon street . . .	25,620	5,000 00
Hillside schoolhouse . . .		5,000 00
Land Boston avenue . . .	29,775	5,050 00
James schoolhouse . . .		4,500 00
Land Spring street . . .	58,900	9,000 00
Lincoln schoolhouse . . .		35,000 00
Land Harvard street . . .	42,042	8,400 00
Osgood schoolhouse . . .		5,000 00
Land Middlesex avenue . . .	28,800	4,300 00
Swan schoolhouse . . .		6,000 00
Land corner Park and Washington streets . . .	25,423	7,650 00
Tufts schoolhouse . . .		15,000 00
Land Main street, junction of Medford street . . .	33,851	6,700 00
Washington schoolhouse . . .		45,000 00
Land Washington street . . .	56,520	16,950 00

PUBLIC LIBRARY.

Public Library building . . .		7,000 00
Land High street . . .	16,450	4,950 00

ENGINE HOUSES.

Engine house . . .		20,000 00
Land Main street . . .	12,000	7,200 00
Hose No. 2 house . . .		2,500 00
Land Canal street . . .	9,000	1,000 00

Amount carried forward, \$436,600 00

	Area. Feet.	Value.
<i>Amount brought forward,</i>		\$436,600 00
Hose No. 3 house		3,000 00
Land Salem street	9,870	2,450 00
Hose No. 4 house		4,000 00
Land Spring street	6,074	900 00
Combination Engine and Hose House		12,000 00
Land Medford street	7,800	1,400 00

POLICE.

Police Station		25,000 00
Land corner of Main and Union streets	9,046	5,500 00

WATER DEPARTMENT.

Shed and storehouse, Riverside avenue		300 00
Dwelling house, Elm street		3,000 00
Brick engine house, Elm street		3,500 00
Ice houses, shed and barns, Elm street, Dwelling house (Tay house)		1,200 00 800 00
Engine house at Spot Pond		2,000 00
	<i>Acres.</i>	
Land Elm street to Stoncham line	193	38,600 00

MISCELLANEOUS.

	Feet.	
Land Union street (pound lot),	3,458	500 00
Land easterly side of Governor's avenue, corner of High street,	13,145	3,300 00
Land westerly side of Governor's avenue, corner of High street,	21,296	4,000 00
		<hr/>
<i>Amount carried forward</i>		\$548,050 00

	Area. Feet.	Value.
<i>Amount brought forward,</i>		\$548,050 00
PUBLIC COMMONS AND PARKS.		
Salem street Common	119,950	30,000 00
Brooks Playstead	428,040	17,000 00
Logan Grove	58,952	9,000 00
Brooks Park	19,600	
Magoun Park	56,758	
Hastings Park	57,370	
Triangle at junction of Grove and High streets	5,545	
CEMETERIES.		
	<i>Acres.</i>	
Oak Grove Cemetery, Winthrop street	33 $\frac{724}{1000}$	
	<i>Feet.</i>	
Cross Street Cemetery	49,651	
Salem Street Cemetery	38,480	
		\$604,050 00

In closing I deem it proper to state that Gen. S. C. Lawrence, our first Mayor, kindly furnished, at his expense, eleven of the fourteen cuts which adorned the "Annual Reports" published in 1895; also three of the illustrations in this book.

Respectfully submitted,

GEO. D. CUMMINGS,
City Auditor.

PUBLIC PROPERTY.*

(REAL ESTATE.)

	Area.	Value.
City Hall		\$8,000 00
	<i>Feet.</i>	
Land corner High and Main streets	4,720	9,500 00
City stables and other buildings, Land rear of Swan street	155,888	2,500 00 4,500 00
Almshouse, stable and other buildings, Stone Crusher building		12,200 00 1,000 00
	<i>Acres.</i>	
Land off Winthrop street	16.49	5,000 00
Land off Winthrop street (rear of Pest House)	7.61	1,500 00

SCHOOLHOUSES.

	<i>Feet.</i>	
High schoolhouse		25,000 00
Land High street	30,112	10,550 00
Land Forest street, lot A	62,455 } 63,558 }	20,000 00
Land Forest street, lot B		
Brooks schoolhouse		30,000 00
Land corner High and Allston streets	85,076	17,000 00
Craddock schoolhouse		10,000 00
Land Summer street	26,406	4,000 00
Curtis schoolhouse		5,000 00
Land Paris street	26,595	4,000 00
Cummings schoolhouse		4,500 00
Land Cotting street	23,918	2,900 00
Everett schoolhouse		7,000 00
Land Salem street	10,155	3,000 00
Gleason schoolhouse		10,000 00

Amount carried forward, \$197,150 00

*This includes only a portion of the property owned by the Water Department.

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