

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

At a meeting of the County Commissioners
for the County of Middlesex, holden at
Cambridge, within and for said County,
on the first Tuesday of June, in the
year of our Lord one thousand nine
hundred and sixty-seven

WHEREAS, it appears that John L. Danehy, County Commissioner, is
a resident of the City of Cambridge and therefore disqualified to act
in the matter of the petitions of the inhabitants of the City of
Cambridge for (1) the specific repairs of Massachusetts Avenue, Pine
Street, Washington Street, Blakeslee Street and Charles Street; and
(2) the specific repairs of Park Avenue, Mellen Street and Rindge
Avenue, which matters are to be heard by the County Commissioners on
August 15, 1967;

NOW, therefore, we, John F. Dever, Jr. and Frederick J. Connors,
County Commissioners, and Edward J. Sullivan, Clerk of the Courts, do
hereby appoint Paul R. Shea, of Lexington in said County, to act in
the stead of the said John L. Danehy in the matter of said petitions
until such disqualification ceases - in accordance with the provisions
of Section 12, Chapter 34, General Laws.

IN WITNESS WHEREOF, we have hereunto set our hands this tenth
day of August, in the year of our Lord one thousand nine hundred and
sixty-seven.

John F. Dever Jr.

Frederick J. Connors
Middlesex County Commissioners

Edward J. Sullivan
Clerk of the Courts

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

At a meeting of the County Commissioners
for the County of Middlesex, holden at
Lowell, within and for said County, on
the first Tuesday of September, in the
year of our Lord one thousand nine
hundred and sixty-seven

WHEREAS, in the matter of the petition of the inhabitants
of the City of Cambridge for the specific repairs of Massachusetts
Avenue, Pine Street, Washington Street, Blakeslee Street and Charles
Street, in said Cambridge, it appears that said Commissioners by
their return dated December 13, 1966 under a Memorandum of Under-
standing numbered #297 and dated October 19, 1966, directed that
said ways in said Cambridge be specifically repaired in accordance
with future estimate and design to be prepared by the Department
of Public Works of the Commonwealth of Massachusetts and a
Memorandum of Agreement to be made between the said City of
Cambridge and the said Department of Public Works of the Common-
wealth - expressly reserving therein for future return their
description of the manner and limits of said specific repairs upon
execution of the said Memorandum of Agreement;

And, at a meeting holden at Cambridge, within and for said
County, on the first Tuesday of June, 1967, said Commissioners
directed specific repairs on Massachusetts Avenue, in said Cambridge,
as appears herein; thence said petition has been continued to this
time.

And now the said Commissioners make further return of their proceedings in the premises, as follows: said Commissioners having given notice as the law directs, met at the Superior Court House in said Cambridge, on the fifteenth day of August, 1967, when and where the parties appeared, to wit, the petitioners by Ralph J. Dunphy, Commissioner of Public Works for the City of Cambridge; and no parties appeared to object;

And whereas it now appears that the said Commonwealth of Massachusetts and the City of Cambridge have entered into a Memorandum of Agreement #23966 under date of September 27, 1967;

Now, therefore, the premises having been examined, and the parties fully heard, said Commissioners do hereby proceed to prescribe the manner and limits of the specific repairs of said Massachusetts Avenue, in said Cambridge, as directed by said return dated December 13, 1966, as follows, to wit: -

Now, therefore said Commissioners do hereby proceed to prescribe the manner and limits of the specific repairs of said Massachusetts Avenue as directed by said return dated December 13, 1966, as follows, to wit: -

Beginning at a point designated as station 82+00 near Alberta Terrace and extending in a northwesterly direction for a distance of about 2181 feet to a point designated as station 103+81 at the Alewife Brook Parkway or as far as the funds made available therefor by the State, County and Town will carry such work or if funds remain thereafter for similar work beyond the aforesaid limits if deemed advisable.

The work to be done under this order shall consist of constructing a Class I bituminous concrete pavement Type I-1 (surface) on a Class I bituminous concrete pavement Type I-1 (base course), laid in three courses, on a gravel borrow foundation in the widened areas and in the resurfaced areas the construction shall consist of constructing a Class I bituminous concrete pavement Type I-1 (surface) on a Class I bituminous concrete pavement Type I-1 variable depth (leveling course) utilizing the existing roadway as a foundation. The work shall include unclassified excavation, rock excavation, bituminous concrete excavation by heater-planer, trench excavation, tree and stump removal, placing gravel borrow for foundation, fine grading, compacting and finishing, placing steel reinforcement for structures, installing drainage and appurtenances, erecting granite curbing, placing concrete sidewalks, placing bituminous concrete walk surfaces, placing loam borrow, seeding and other incidental items, all in accordance with plans, preliminary estimates and quantity and detail sheets of the proposed work, estimated and designed by the Department of Public Works of the Commonwealth of Massachusetts, a contract for the said work, between the said City of Cambridge and Walter Reed Corporation dated August 28, 1967 and a Memorandum of Agreement numbered 23966 and dated September 27, 1967 between the said City of Cambridge and the aforesaid Department of Public Works - copies of said plans, preliminary estimates, quantity and detail sheets, contract and agreement being on file in the office of said Commissioners.

In general the work shall be done in accordance with the aforesaid plans, preliminary estimates, quantity and detail sheets

being attached herewith.

All the work shall be done by methods approved by the aforesaid Department of Public Works of the Commonwealth of Massachusetts and as may be directed by the engineer of the said Department of Public Works directing such work therefor; shall conform to all standard and applicable requirements of said Department of Public Works for such work and materials and shall be performed all in accordance with the aforementioned plans, preliminary estimates, quantity and detail sheets, contract and Memorandum of Agreement here-in-before described.

The work shall begin forthwith and shall be completed, if practicable, on or before the thirtieth day of August, 1968.

The said City of Cambridge shall pay all damages, costs, and expenses which any party may by legal process obtain in consequence of this order for specific repairs.

And, as set forth in said return dated December 13, 1966, on completion of said work to the acceptance and satisfaction of said Commissioners and said Department of Public Works of the Commonwealth, the said County of Middlesex shall pay to the said City of Cambridge one-fourth ($1/4$) of the cost of the work done but not exceeding the sum of Thirty-seven Thousand Dollars (\$37,000.), the Commonwealth having available \$74,000. and the City of Cambridge \$37,000., therefor.

In this matter, John E. Shaughnessy, of Stoneham, acted in place of John L. Danehy, County Commissioner, under the provisions of Section 12, Chapter 34, General Laws - said John L. Danehy, being

disqualified to act in said matter due to residence in said City of Cambridge.

IN WITNESS WHEREOF, We, the said County Commissioners, have hereunto set our hands this twelfth day of December in the year of our Lord one thousand nine hundred and sixty-seven.

John F. Dever, Jr.

Frederick J. Connors

John E. Shaughnessy
(Acting)

A true copy,

Attest:


Assistant Clerk

lsh

THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
100 NASHUA ST., BOSTON, MASS.

8CBEDG9

—PRELIMINARY ESTIMATE OF QUANTITIES—DETAIL SHEET—

- CITY CAMBRIDGE ROAD MASS. AVE. 1967
Sta. 82+00 to Sta. 103+81 Class Chapter 90 1967
Date- June 27, 1967

<u>Unclassified</u>	
Earth Excavation..... 3000	Cu. Yds.
Bit Conc Exc by Heater Planer	Sq. Yds.
Class A Rock Excav. 6000	Cu. Yds.
Gravel	
Ordinary Borrow..... 2200	Cu. Yds.
Embankment.....	Cu. Yds.
Gravel Sub-base	Cu. Yds.
Gravel for Bridge.....	Cu. Yds.
Gravel for Sidewalks.....	Cu. Yds.
Gravel (Miscell.).....	Cu. Yds.

SURFACE AREA 20,000 SY

PROPOSED SURFACE:

RESURFACE AREA:

1 1/2" Class I Bituminous Concrete Pavement Type I-1

TOP COURSE:

1 1/2" Class I Bit Conc Pave Type I-1 (top course)

LEVELING COURSE:

Variable depth Class I Bit Conc Pave

Type I-1 (top course) as directed by the engineer

PRIME COAT:

1/10 Gallon per square yard Bitumen RS-1 or RS-2

FOUNDATION:

Utilize existing roadway

PROPOSED SURFACE:

WIDENING AREAS (full depth)

1 1/2" Class I Bituminous Concrete Pavement Type I-1

TOP COURSE:

1 1/2" Class I Bit Conc Pave Type I-1

BASE COURSE:

6" Class I Bit Conc Pave Type I-1

Laid in two 3" Courses.

FOUNDATION:

12" Gravel Borrow

CEMENT CONCRETE SIDEWALK SURFACE

SIDEWALKS:

TOP COURSE:

4" Class "D" Cement Concrete (air-entrained)

FOUNDATION:

8" Gravel Borrow or Utilize Existing Foundation Material if Suitable.

DRIVES:

TOP COURSE:

6" Class "D" Cement Concrete (air entrained)

FOUNDATION:

8" Gravel Borrow or Utilize Existing Foundation Material if Suitable.

Plan No's. County 4448

Estimated by F. W. Iarrobino

Profile No's. County

Checked by J. L. Ecker
A. DiPasquale

Calc. Book No. 4827

Submitted by P. J. Hunt

From Report of C. K. Brown Dist. Hwy. Eng.

Office Engineer

Dated- June 27, 1967

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PRELIMINARY ESTIMATE
DETAIL SHEET

PAGE 2 OF 7

8CB RDG9

CAMBRIDGE (MASS. AVE.) 6-19-67

CONTRACT

ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION	UNIT PRICE	TOTAL
122.	3,000	CY	UNCLASSIFIED EXCAVATION		
125.	15	CY	CLASS B ROCK EXCAVATION		
127.	6,000	SY	BITUMINOUS CONCRETE EXCAVATION -BY HEATER-PLANNER		
131.	40	CY	CLASS A TRENCH EXCAVATION		
142.	1	EA	CATCH BASIN OR MANHOLE REMOVED		
151.	1	EA	TREE REMOVED-DIA. UNDER 24 IN.		
151.1	1	EA	TREES REMOVED -DIAM 24 IN. AND OVER		
152.	1	EA	STUMP REMOVED		
155.	2,200	CY	GRAVEL BORROW		
161.12	6,500	SY	FINE GRADING, COMPACTING AND FINISHING		
166.7	1,750	GAL	BITUMEN FOR PRIME COAT		
175.	1,700	TON	CLASS I BIT CONC PAVEMENT TYPE I-1		
179.	500	TON	BIT CONC FOR PATCHING		
215.	2,700	LB	CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL		
231.1.	1	MBM	WOOD SHEETING LEFT IN PLACE		
241.4	225	CY	CLASS D CEMENT CONC MASONRY		
295.	1,650	LB	STEEL REINFORCEMENT FOR STRUCTURES		
361.1	7	EA	CATCH BASIN ECC		
363.3	1	EA	MANHOLE ECC		
365.1	3	EA	SPECIAL MANHOLE ECC		
369.1	9	EA	GUTTER INLET ECC		
381.1	35	EA	CATCH BASIN, MANHOLE OR LEACHING BASIN ADJ. L/G ECC		
383.1	6	EA	CATCH BASIN OR MANHOLE REMODELED ECC		
385.1	8	EA	CATCH BASIN OR MANHOLE CHANGE IN TYPE ECC		
402.12	225	LF	12 IN. REINF. CONC. PIPE ECP		
442.10	50	LF	10 IN. HEAVY WEIGHT CAST IRON PIPE 3000D		
674.	1,800	LF	GRANITE CURB TYPE VA4 STRAIGHT		
674.1	390	LF	GRANITE CURB TYPE VA4 CURVED		
692.	18	EA	GRANITE CURB INLET -STRAIGHT		
692.1	1	EA	GRANITE CURB INLET -CURVED		
694.	5	EA	GRANITE CURB CORNER TYPE A		
698.	1,900	LF	CURBING REMOVED AND RESET		
702.	5	EA	CURB INLET REMOVED AND RESET		
709.	2,550	SY	CONCRETE SIDEWALKS -1-COURSE		

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PRELIMINARY ESTIMATE
DETAIL SHEET

PAGE 3 OF 7

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CAMBRIDGE (MASS. AVE.) 6-19-67

CONTRACT

ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION	UNIT PRICE	TOTAL
709.1	1,730	SY	CONCRETE SIDEWALKS -1-COURSE AT DRIVEWAYS		
710.	5	TON	BITUMINOUS CONCRETE WALK SURFACE		
753.01	1	EA	POLICE SIGNAL POST AND BOX R+R (EXCL. COST OF POST AND BOX)		
753.02	3	EA	FIRE ALARM POST AND BOX (R+R) (EXCL. COST OF POST AND BOX)		
754.	11	EA	STREET SIGNS REMOVED AND RESET		
754.1	5	EA	TRAFFIC SIGNS REMOVED AND RESET		
754.2	7	EA	CONCRETE BASES FOR TRAFFIC SIGNALS		
760.	5	CY	LOAM BORROW		
763.	45	SY	SEEDING		
897.1	25	EA	WATER SERVICE BOXES IN RDWY. ADJ. L/G (ECC)		
897.2	5	EA	WATER SERVICE BOXES IN S.W. ADJ. L/G (ECC)		
897.3	30	EA	WATER CURB STOPS ADJ. L/G ECC		
907.03	900	LF	3 IN. SIGNAL AND LIGHTING CONDUIT -TYPE F FIBRE		
908.21	1	LS	FLASHING BEACONS TYPE B		
960.	4	EA	CONCRETE FOUNDATIONS FOR MAST ARMS		

-PRELIMINARY ESTIMATE OF QUANTITIES-DETAIL SHEET-

CITY CAMBRIDGE

ROAD Mass Avenue

1967

8CBRDG9

DATE June

1967

ITEM NO.	QUANTITY	UNIT	ITEM
127		BITUMINOUS CONCRETE	EXCAVATION BY HEATER PLANER
			As directed by the engineer
			For High Crops and Side Streets
131		CLASS "A" TRENCH	EXCAVATION
			For relocations of hydrants and test pits
151		TREES REMOVED	DIA UNDER 24 INCHES
			As directed by the engineer
151.1		TREES REMOVED	DIA 24 in AND OVER
			Sta 99+50 Rt 36" E
152		STUMPS REMOVED	
			As directed by the engineer
142		CB's or MH's	REMOVED
			Sta 100+73 Lt
241.4		CLASS "D" CEMENT CONCRETE	MASONRY
			For divisional island
			Sta 82+06 to 83+81
			84+37 to 85+40
			87+02 to 88+52
			89+06 to 91+45
			92+00 to 93+72
			94+34 to 94+46
			94+91 to 96+31
			96+86 to 97+70
			98+25 to 99+41
			100+09 to 101+52
674		GRANITE CURB	TYPE VA-4 (Straight)
		Rt Side	Rt Side (con't)
		Sta 85+59 to 85+89	102+75 back 11'
		86+76 to 87+60	103+27 to 103+46
		87+71 to 88+35	103+26 back 13'
		88+87 to 89+40	103+48 back 13'
		89+87 to 90+43	Lt Side
		90+59 to 90+93	Sta 88+33 to 89+28
		91+70 to 91+88	89+56 to 90+20
		92+26 to 92+37	91+38 to 91+50
		92+64 to 92+82	92+24 to 92+55
		93+45 to 93+70	92+86 to 93+42
		94+18 to 94+62	93+74 to 94+44
		94+98 to 95+49	94+99 to 96+12
		95+86 to 96+25	96+23 to 96+49
		96+70 back 6'	96+60 to 97+68
		96+70 to 97+12	98+21 to 98+58
		98+12 to 98+26	98+70 to 99+40
		98+76 to 99+45	99+57 to 100+58
		99+91 to 100+80	101+14 to 101+32
		100+90 to 101+56	102+08 to 102+80
		102+02 to 102+73	

-PRELIMINARY ESTIMATE OF QUANTITIES-DETAIL SHEET-

TOWN - CITY CAMBRIDGE

ROAD Mass. Ave.

1967

8CBFDG9

DATE June

1967

ITEM NO.	QUANTITY	UNIT	ITEM
674.1	GRANITE CURB	TYPE VA-4 (Curved)	
Sta 88+35 to 88+46	Rt		
	Gold Star Rd. 0+54 to 88+87	Rt	
	90+93 to 0+47	Washburn Ave.	
	Washburn Ave. 0+50 to 91+35	Rt	
	93+70 Rt to 0+50	Rt Clarendon Ave.	
	Clarendon Ave. 0+48 Lt to 94+18	Rt	
	96+25 Rt to 0+55	Rt Churchill Ave.	
	Richard Ave. 0+48 Lt to 97+81	Rt	
	99+45 Rt to 0+50	Rt Newman St.	
	Newman St. 0+50 Lt to 99+91	Rt	
	101+56 Rt to 0+50	Rt Gladstone St.	
	Gladstone St. 0+50 Lt to 102+02	Rt	
	91+50 Lt to 0+50	Lt Edmund St.	
	Edmund St. 0+50 Rt to 91+99	Lt	
	94+44 Lt to 0+50	Lt Cottage Park Ave.	
	Cottage Park Ave. 0+50 Rt to 94+99	Lt	
	97+68 Lt to 0+50	Lt Brookford St.	
	Brookford St. 0+50 Rt to 98+21	Lt	
	Magoun St. 0+13 Rt. to 102+08	Lt.	
	102+80 Lt to 0+40	Lt Columbus Ave.	
692	GRANITE CURB	INLET (Straight)	
	Sta 82+84 Lt	Sta. 96+21 Rt	
	83+85 Rt	96+80 Lt	
	85+23 Lt	99+30 Lt	
	87+50 Lt	99+38 Rt	
	88+26 Rt	100+55 Lt	
	90+40 Rt	100+74 Rt	
	91+46 Lt	103+71 Rt	
	92+70 Rt	103+72 Lt	
	93+00 Lt		
	94+35 Lt		
692.1	GRANITE CURB	INLET - Curved	
	As directed by the engineer		
694	GRANITE CURB	CORNER TYPE A(R=2)	
	Sta 96+70 Rt		
	97+13 Rt		
	102+75 Rt		
	103+26 Rt		
	103+46 Rt		
698	CURBING REMOVED AND RESET		
	Sta 82+18 to 83+96		
	83+96 to 0+50	Lt Cameron Ave	
	Cameron Ave 0+50 Rt to 84+56	Rt	
	84+56 Rt to 85+15	Rt	
	82+00 Lt to 82+35	Lt	
	82+35 Lt to 0+50	Lt Alberta Terr	
	Alberta Terr 0+50 Rt to 82+80	Lt	
	82+86 to 83+82	Lt	
	83+82 Lt to 0+60	Lt Harvey St.	
	(con't next sheet)		

NOTE: All drop stones to be removed and reset with 1 (one) inch lip. Any drive that does not have existing drop stone; old curbing on the project will be used at these locations.

-PRELIMINARY ESTIMATE OF QUANTITIES-DETAIL SHEET-

TOWN - CITY CAMBRIDGE

ROAD Mass Avenue

1967

8CBRDG9

DATE June

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ITEM NO.	QUANTITY	UNIT	ITEM
698	CURBING REMOVED AND RESET (con't)		
	Harvey St.	0+60	Rt to 84+63 Lt
	84+63	to 85+43	Lt
	Cedar St	86+46	to 87+12 Lt
	103+32	to 103+81	Lt
702	CURB INLET REMOVED AND RESET		
	As directed by the engineer		
709.	CONCRETE SIDEWALKS (1 course)		
	Lt Side		Rt Side
Sta	82+00	to 82+47	Sta 82+18 to 84+06
	82+67	to 84+00	84+45 to 85+15
	84+00	to 84+09	85+70 to 85+90
	84+37	to 84+60	86+77 to 87+62
	84+60	to 85+43	87+72 to 88+45
	86+45	to 86+77	88+75 to 89+40
	86+77	to 87+15	89+88 to 90+43
	88+33	to 89+28	90+69 to 91+03
	91+83	to 91+99	94+05 to 94+62
	92+24	to 92+55	94+98 to 95+50
	92+86	to 93+41	95+86 to 96+38
	93+77	to 94+58	96+70 to 97+13
	94+86	to 96+13	98+76 to 99+57
	96+23	to 96+48	99+78 to 100+80
	96+60	to 97+81	100+90 to 101+69
	98+08	to 98+58	101+89 to 102+75
	98+70	to 99+40	103+25 to 103+47
	99+56	to 100+60	
	101+93	to 102+96	
709.1	CONCRETE SIDEWALKS (1 course at driveways)		
	Lt Side		Rt Side
Sta	87+15	to 88+83	Sta 85+90 to 86+77
	89+28	to 91+82	87+62 to 87+72
	91+99	to 92+24	89+40 to 89+88
	92+55	to 92+86	90+43 to 90+69
	93+41	to 93+77	91+23 to 93+77
	96+13	to 96+23	94+62 to 94+98
	96+48	to 96+60	95+50 to 95+86
	98+58	to 98+70	96+56 to 96+70
	99+40	to 99+56	97+13 to 97+40
	100+60	to 101+60	97+68 to 98+76
			100+80 to 100+90
			102+75 to 103+25
710	BITUMINOUS CONCRETE WALK SURFACE		
	As directed by the engineer		
754.	STREET SIGNS REMOVED AND RESET		
754.1	TRAFFIC SIGNS REMOVED AND RESET		
	As directed by the engineer		

-PRELIMINARY ESTIMATE OF QUANTITIES-DETAIL SHEET-

TOWN - CITY CAMBRIDGE

ROAD Mass. Ave.

1967

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DATE June 19 67

ITEM NO.	QUANTITY	UNIT	ITEM
754.2			CONCRETE BASES FOR TRAFFIC SIGNALS
	Sta 93+74	Lt	
	93+73	Rt	
	94+15	Rt	
	96+26	Lt	
	96+67	Lt	
	96+26	Rt	
	96+73	Rt	
753.02			FIRE ALARM POST AND BOX REMOVED AND RESET
			EXCL COST OF POST AND BOX
	Sta 88+90	Rt	
	93+75	Rt	
	101+62	Rt	
753.01			POLICE SIGNAL POST AND BOX REMOVED AND RESET
			EXCL COST OF POST AND BOX
	Sta 101+23	Lt	
760			LOAN BORROW
763			SEEDING
			As directed by the engineer
897.1			WATER SERVICE BOXES IN RDWY ADJ TO L/G ECC
897.2			WATER SERVICE BOXES IN S.W. ADJ TO L/G ECC
897.3			WATER CURB STOPS ADJ TO L/G ECC
			As directed by the engineer
908.21			FLASHING BEACONS TYPE B
	Sta 101+50		(end of island)
907.03			3in SIGNAL AND LIGHTING CONDUIT - TYPE F (Fibre)
	Edmunds St. Vic. sta 91+50		
	Clarendon Ave Vic. sta 94+00		
	Churchill Ave Vic. sta 96+50		
	Newman St Vic. sta 99+50		
	From flashing beacon to EMH sta 102+03	Lt	
960			CONCRETE FOUNDATIONS FOR MAST ARMS
	Sta 93+89	B/L	
	94+86	B/L	
	96+28	B/L	
	96+89	B/L	

THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
100 NASHUA ST. - BOSTON, MASS.

8CBRDG9

PRELIMINARY ESTIMATE

City Cambridge

Sta. 82+00	to Sta. 103+81	Road Mass. Ave.	1967
Sta.	to Sta.	Class Chapter 90	67
Sta.	to Sta.	Length { Contract 2,181'	
Allotment \$ 118,000.00		Fed. Aid Date June 27, 1967	

Allotment \$ 148,000.00

Length _____ Fed. Aid _____ Date June 27, 19 67

Item No.	Quantity	Unit	Item	Unit Price	Amount
			From Contract Sheet		107184.25
			Plus Contingencies		5355.75
			Plus Police		8000.00
			Plus Materials Furnished		2928.50
					123472.50
			Less Non-Part. Work		3330.00
			Total Chapter 90		120142.50
			Materials Furnished		
402.12	225	L.F.	12 inch Reinf. Concrete Pipe	1.46	328.50
	25	Ea.	Frames and grates	50.00	1250.00
	12	Ea.	Frames and Covers	50.00	600.00
	15	Ea.	Traps and Hoods	50.00	750.00
					2928.50
			Non-Participating Work		
131	30	Cy	Class "A" Trench Excavation	4.00	120.00
709	300	Sy	Concrete Sidewalks 1-Course	4.80	1440.00
753.01	1	Ea.	Police Signal Post and Box R & R (Excl. Cost of P & B)	200.00	200.00
753.02	3	Ea.	Fire Alarm Post & Box R&R (Excl. Cost of Post and Box)	200.00	600.00
754	11	Ea.	Street Signs Removed and Reset	10.00	110.00
897.1	25	Ea.	Water Service Boxes in Rdwy. Adj. to L/G ECC	20.00	500.00
897.2	5	Ea.	Water Service Boxes in S.W. Adj. to L/G ECC	10.00	50.00
897.3	30	Ea.	Water Curb Stops Adj. to L/G E.C.C.	5.00	150.00
					3170.00
			Plus Contingencies		160.00
			Total		3330.00

Made by	F.W. Larrobino
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Checked by A. DiPasquale
J.L. Ecker

Submitted by P. J. Hunt
Office Engineer

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PRELIMINARY ESTIMATE

PAGE 2 OF 3

8CB RDG9

CAMBRIDGE (MASS. AVE.) 6-19-67

CONTRACT

ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION	UNIT PRICE	TOTAL
122.	3,000	CY	UNCLASSIFIED EXCAVATION	1.75	5,250.00
125.	15	CY	CLASS B ROCK EXCAVATION	20.00	300.00
127.	6,000	SY	BITUMINOUS CONCRETE EXCAVATION -BY HEATER-PLANNER	1.60	9,600.00
131.	40	CY	CLASS A TRENCH EXCAVATION	4.00	160.00
142.	1	EA	CATCH BASIN OR MANHOLE REMOVED	75.00	75.00
151.	1	EA	TREE REMOVED-DIA. UNDER 24 IN.	125.00	125.00
151.1	1	EA	TREES REMOVED -DIAM 24 IN. AND OVER	150.00	150.00
152.	1	EA	STUMP REMOVED	50.00	50.00
155.	2,200	CY	GRAVEL BORROW	2.75	6,050.00
161.12	6,500	SY	FINE GRADING, COMPACTING AND FINISHING	0.15	975.00
166.7	1,750	GAL	BITUMEN FOR PRIME COAT	0.40	700.00
175.	1,700	TON	CLASS I BIT CONC PAVEMENT TYPE I-1	7.25	12,325.00
179.	500	TON	BIT CONC FOR PATCHING	12.00	6,000.00
215.	2,700	LB	CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL	0.05	135.00
231.1	1	MBM	WOOD SHEETING LEFT IN PLACE	1,000.00	1,000.00
241.4	225	CY	CLASS D CEMENT CONC MASONRY	60.00	13,500.00
295.	1,650	LB	STEEL REINFORCEMENT FOR STRUCTURES	0.25	412.50
361.1	7	EA	CATCH BASIN ECC	150.00	1,050.00
363.3	1	EA	MANHOLE ECC	150.00	150.00
365.1	3	EA	SPECIAL MANHOLE ECC	450.00	1,350.00
369.1	9	EA	GUTTER INLET ECC	75.00	675.00
381.1	35	EA	CATCH BASIN, MANHOLE OR LEACHING BASIN ADJ. L/G ECC	25.00	875.00
383.1	6	EA	CATCH BASIN OR MANHOLE REMODELED ECC	100.00	600.00
385.1	8	EA	CATCH BASIN OR MANHOLE CHANGE IN TYPE ECC	50.00	400.00
402.12	225	LF	12 IN. REINF. CONC. PIPE ECP	4.00	900.00
442.10	50	LF	10 IN. HEAVY WEIGHT CAST IRON PIPE 3000D	7.00	350.00
674.	1,800	LF	GRANITE CURB TYPE VA4 STRAIGHT	4.25	7,650.00
674.1	390	LF	GRANITE CURB TYPE VA4 CURVED	5.50	2,145.00
692.	18	EA	GRANITE CURB INLET -STRAIGHT	40.00	720.00
692.1	1	EA	GRANITE CURB INLET -CURVED	50.00	50.00
694.	5	EA	GRANITE CURB CORNER TYPE A	30.00	150.00

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
PRELIMINARY ESTIMATE

PAGE 3 OF 3

8C3 RDG9

CAMBRIDGE (MASS. AVE.) 6-19-67

CONTRACT

ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION	UNIT PRICE	TOTAL
698.	1,900	LF	CURBING REMOVED AND RESET	1.75	3,325.00
702.	5	EA	CURB INLET REMOVED AND RESET	10.00	50.00
709.	2,550	SY	CONCRETE SIDEWALKS -1-COURSE	4.80	12,240.00
709.1	1,730	SY	CONCRETE SIDEWALKS -1-COURSE AT DRIVEWAYS	5.60	9,688.00
710.	5	TON	BITUMINOUS CONCRETE WALK SURFACE	15.00	75.00
753.01	1	EA	POLICE SIGNAL POST AND BOX R+R (EXCL. COST OF POST AND BOX)	200.00	200.00
753.02	3	EA	FIRE ALARM POST AND BOX (R+R) (EXCL. COST OF POST AND BOX)	200.00	600.00
754.	11	EA	STREET SIGNS REMOVED AND RESET	10.00	110.00
754.1	5	EA	TRAFFIC SIGNS REMOVED AND RESET	10.00	50.00
754.2	7	EA	CONCRETE BASES FOR TRAFFIC SIGNALS	70.00	490.00
760.	5	CY	LOAM BORROW	4.50	22.50
763.	45	SY	SEEDING	0.25	11.25
897.1	25	EA	WATER SERVICE BOXES IN RDWY. ADJ. L/G (ECC)	20.00	500.00
897.2	5	EA	WATER SERVICE BOXES IN S.W. ADJ. L/G (ECC)	10.00	50.00
897.3	30	EA	WATER CURB STOPS ADJ. L/G ECC	5.00	150.00
907.03	900	LF	3 IN. SIGNAL AND LIGHTING CONDUIT -TYPE F FIBRE	4.50	4,050.00
908.21	1	LS	FLASHING BEACONS TYPE B	700.00	700.00
960.	4	EA	CONCRETE FOUNDATIONS FOR MAST ARMS	250.00	1,000.00
					107,184.25

C.C. 4944

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Inhabitants of Cambridge, Petrs.,
for the specific repairs of
Massachusetts Avenue, Pine Street
Washington Street, Blakeslee
Street and Charles Street.

C O P Y

FURTHER RETURN

December 8, 1967

12/8/67

Placed on File -