Strange to say the roof and a glass lantern on the roof escaped without injury, probably owing to the lantern being open on all sides. The roof of the monkey house, which has a similar lantern, escaped with trilling damage, whilst the front and ends of the house were very severely damaged.

The parrot house lad a tremendous shaking, and a portion of the stone carving on the top of the

red brick lobby was thoun down. I am inclined to think it must have been struck by some of the flying debris, as portions of the ill-fated "Tilbury" were picked up by myself (soon after the disaster) between my office and the eleXert QuR 3 boff (Archites such as sheet-iron twisted and torn about, fell in the gardens, A piece of stone of considerable size was found, on the roof of the

he work of restoration was commenced by the whole of our staff of workmen immediately on the morning of the explosion, and has been continued unceasinly up to the present time, but we find still much to be done; in fact, from day to day we discover damage that had escaped nonce in the first

APPENDIX A. The injuries done to the animals, I am giad to sev bave been trifling, and I attribute their escape principally to the utter darkness of the morning, and to the impossibility, in the awful confusion, of

1. (anothing out in 1991s of Gunpowder Explosion, Regent's Canal. driw good. singil gainistdo out at a guidand out of the control of the cont

RETURN furnished by Metropolitan Police of Districts affected by Explosion.

Division.	from the s Gunpowder at which	est distance cene of the Explosion damage to was done.	The greatest distance from the scene Explosion at which the shock or sound from reliable evidence to have been s	of the is known ensible.	A considerable number of
y surrounding the their gardens, &c.,	Structural Damage.	Breakage of Windows.	Locality. Dereveden	Miles.	I'er many days after the metropolis, informing me of and by their kindness sever It is impossible at this y
A or Whitehall B ,, Westminster - C ,, St. James' - D ,, Marylebone - E ,, Holborn - G ,, Finsbury - H ,, Whitechapel - K ,, Stepney - L ,, Lambeth - M ,, Southwark - N ,, Islington - P ,, Camberwell - R ,, Greenwich - S ,, Hampstead - T ,, Kensington - V ,, Wandsworth - W ,, Clapham - X ,, Paddington - Y ,, Highgate -	None None None None None None None None	None None None 1½ mile 2½ miles None None None None None None None None	The whole area of the division """""""""""""""""""""""""""""""""""	2	carefully noting what has 5 sold (times bindred pound). The distance from the next 252 yards, from the ostived 440 yards, and from the last. November total 1874.

^{* &}quot;Eyre Arms" Tavern; large portion of ceiling of coffee-room fell down. Other material damage limited to 400 yards.

Metropolitan Police Office, and Hill works 4, Whitehall Place, M. Agingell

12th February 1875.

Townshend Cottages, Lower William Street. Teinfeld Lerrage. William's Cottages. (Signed)

Chief Inspector.

Lower William Street.

APPENDIX B.

STATEMENT of DAMAGE done to Zoological Gardens.

SUPERINTENDENT'S REPORT upon the DAMAGE done by the Explosion in the REGENT'S CANAL.

With reference to the damage done to the buildings by the explosion, I may mention that no building has entirely escaped injury. Not only the glass, and in many instances the frames or sashes have been entirely destroyed, but a considerable amount of damage has been done by the cracking of the brickwork, and by the loosening of the fastenings of the doors and windows.

The buildings furthest removed from the locality where the explosion occurred have suffered quite as much (or nearly so) as the buildings nearest to the explosion; for instance, the reptile house

and the workshops immediately behind, and the glass and frames, completely destroyed. It will be observed that the reptile house is close to the canal, in fact, on its bank. damage was not confined to any particular spot will be seen by the fact, that the glass was destroyed at the south entrance, on the broad walk of the Regent's Park. I am inclined to think that the shock was most severe along the banks of the canal. The windows and doors of my own house were smashed and blown open; the locks, bolts, chains, and other fastenings of the doors were torn out.

Strange to say the roof and a glass lantern on the roof escaped without injury, probably owing to the lantern being open on all sides. The roof of the monkey house, which has a similar lantern, escaped

with trifling damage, whilst the front and ends of the house were very severely damaged.

The parrot house had a tremendous shaking, and a portion of the stone carving on the top of the red brick lobby was thrown down. I am inclined to think it must have been struck by some of the flying débris, as portions of the ill-fated "Tilbury" were picked up by myself (soon after the disaster) between the disaster of the flying debris, and the elephant house; other fragments, such as sheet-iron twisted and torn about, fell in the gardens. A piece of stone of considerable size was found on the roof of the hippopotamus house.

The work of restoration was commenced by the whole of our staff of workmen immediately on the morning of the explosion, and has been continued unceasinly up to the present time, but we find still much to be done; in fact, from day to day we discover damage that had escaped notice in the first LPPENDIX

The injuries done to the animals, I am glad to say, have been trifling, and I attribute their escape principally to the utter darkness of the morning, and to the impossibility, in the awful confusion, of obtaining lights. Along with two or three assistants (the only persons who sleep in the gardens), I went into the different houses after the explosion occurred, and by calling and speaking to the different animals, caused them to stop jumping and rushing about M vd

As daylight gradually appeared, and their several keepers arrived, they became (some but slowly)

reconciled, and their condition of nervous excitement appeared to subside in a day or two.

A considerable number of the birds escaped through the openings in the roof of the western aviary. Many of these, however, were returned, and others allowed themselves to be caught, and restored to their former abode. Others flew long distances, and have been lost; but these do not happen to be birds of much value, and can therefore be easily replaced.

For many days after the explosion I received letters from persons in the country surrounding the metropolis, informing me of the strange and beautiful birds that had appeared in their gardens, &c.,

and by their kindness several were recovered.

Reliable evidence cannot be

obtained.

It is impossible at this moment to fix the amount of damage done with any great accuracy, but after carefully noting what has been repaired, and what remains to be done, I believe the cost will be about 300l. (three hundred pounds).

The distance from the north bridge to the ostrich house, the building nearest to the explosion, is 352 yards, from the ostrich house to the extreme end of the gardens, as marked on the enclosed map,

440 yards, and from the ostrich house to the south entrance, 500 yards.

A. D. BARTLETT, SHOW (Signed) November 5th, 1874. Hog Hill, Degenham The whole area of the division

Superintendent, Zoological Gardens, Regent's Park. venget None

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Orpington APPENDIX China solid 2 miles South Marquet 8

Wandsworth - None None Merton Road, Wimbledon None Croydon -LIST of principal Streets and Places in which Relief was given by the Regent's Park Relief Fund. None

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Powis Place. Alma Terrace. Park Street. Barrow Hill Road off O coilo 9 matilogosto M Bentink Mewspall Placewell W. 4 St. John's Wood Terrace. Fleet Road. Frederick Street. Townshend Cottages. Chalk Farm Road. Lower William Street. Cochrane Street. Tichfield Terrace.

Charles Lane. William's Cottages. Upper William Street. North Lodge. PENDIX B. Asinger Terrace. Lower William Street.

Henry Place. Abbey Gardens. Lodge Road, Hanover Cottages. Avenue Road MARKAT LANGOLOON of one a Fitzroy Road WHITATE

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as much (or nearly so) as a Place York Place to the explosion; for insafec radar bulse house John Street, Lisson Grove, dean of the Street, Lisson Grove, design of the street, design of the

It will be .nwoT disting X .soaring TebersM is close to the canal, in fachson binearwood That the damage was not confined to any particular spot will be seen by the fact, that the glass was destroyed at the south entrance, on the broad walk of the Regent's Park. I am inclined to think that the shock was most severe along the banks of the canal. The windows and doors of my own house were smashed and blown open; the locks, bolts, chains, and other fastenings of the doors were torn out.

RECENT'S PARK EXPLOSION.—RELIEF FUND. THE REGENT'S PARK EXPLOSION.—RELIEF FUND.

THE REPORT to the General Committee from the Executive Committee and le la some of

Just noitgired William Forsyth, Esq., Q.C., M.P., Chairman.

Sir Thomas Chambers, Q.C., M.P. Samuel Gurney, Esq. 10 8110 719 71 10 J. Gerstenberg, Esq.

W. E. Greenwell, Esq. Rev. Professor D. W. Marks.

Rev. A. R. Godson, M.A.

1 809

Rev. Ll. Davies, M.A. Advertising Edwin H. Galsworthy, Esq., J.P.

Rev. L. Cappel, D.D. Peter Graham, Esq.

Rev. E. H. Nelson, M.A.

Colonel H. A. Trevelyan. James Hoppey, Esq.

W. S. Burton, Esq., R. Ruthven Pym, Esq. (Messrs. Sir S. Scott, Bart., & Co.), Treasurers. House List

John Leighton, Esq., F.S.A., Hon. Secretary. gaining bas yre Victor Bauer, Esq., Assistant Hon. Secretary.

The Executive Committee having now terminated their labours, beg to report that the sum collected for the relief of the sufferers by the Regent's Park explosion has amounted to a total of 6,333l. 8s. 1d. (including a contribution of 1691. 4s. 7d. from St. Pancras parish), for which the Committee offer their grateful acknowledgments to the benevolent donors.

The distribution of the fund commenced as soon as the necessary data had been collected, and it was continued without intermission as speedily as reliable evidence could be obtained of the nature of

the manifold claims for relief which were brought under the notice of the Committee.

Office expenses

In dispensing aid, the Committee felt bound to give their first consideration, under the guidance of a professional surveyor, to cases where structural damage had been sustained in the abodes of those applicants who were wholly or partially unable to bear it.

With respect to those cases also which involved the destruction of furniture and the loss of goods, on

the sale of which the livelihood of the sufferers depended, immediate relief was granted.

The total amount of the claims brought forward exceeded by far the proceeds of the subscriptions to the fund, but after diligent inquiry and mature consideration some of them were put aside; and in a considerable number of instances the sums awarded were much below what was sought to be obtained. There were found to exist a few special and exceptional cases which required relief on a comparatively large scale to enable the claimants to retrieve their position and to support themselves in future by their own industry. Amongst the claimants on the fund there were-

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The total number of recipients was 1,103, and the amount received by them 5,230l. 11s. 6d.

In addition, the sum of 33l. 5s. 4d. was expended immediately after the explosion in the distribution of coals, &c. to cases of urgent necessity.

Of the outlay which has been incurred in the working expenses, advertisements constitute the chief item, it having been found expedient to keep the calamity constantly before the public eye until the requisite amount could be raised.

A statement of receipts and expenditure is annexed hereto.

Whilst the Committee appointed to distribute the fund have cheerfully devoted themselves to the task assigned them, their labour has for the most part been light when compared with that which has fallen on three of their members, the Rev. Dr. Cappel, the Rev. Mr. Nelson, and Colonel Trevelyan. These three gentlemen, who composed a Sub-Committee, have been indefatigable in the discharge of the duties of their onerous office, which must have absorbed the larger portion of their time for many consecutive weeks. They will undoubtedly find their reward in the consciousness of having done a good and acceptable work, since any expression of thanks would be but a feeble tribute for services such as they have rendered in the cause of benevolence.

The Committee also record their deep sense of the arduous and valuable services rendered by Mr. John Leighton, as Honorary Secretary to the fund. They likewise desire to thank Mr. Victor Bauer for the aid rendered by him as Assistant Honorary Secretary. Nor can the Committee close their report without acknowledging the kindness of Mrs. Boucicault for having freely placed at the disposal of the Committee premises in Regent Street for several months, for the holding of meetings and for the transaction of the general business connected with the operations of the fundament

By order,

1st May 1875.

2 18 0 18

WILLIAM FORSTTH, Chairman.

REGENT'S PARK EXPLOSION.—RELIEF FUND.

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Rev. L. Cappel, D.D.	for Nervous Diseases
Peter Graham, Laq.	" coals, &c ped gradnown 33 5 4
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ader the notice of the Committee.	the manifold claims for relief which were brought a

To balance in the hands of Treasurers 123l. 1s. 8d.

Submitted by

WILLIAM S. BURTON,

R. RUTHVEN PYM,

Treasurers.

R. RUTHVEN PYM,

W. E. GREENWELL,

R. RUTHVEN PYM,

Finance Committee.

87

considerable number of instances the

considerable number of instances the same and led wate much below what was sought to be obtained. There were found to exist a few special and exceptional cases which required rehief on a comparatively large scale to enable the claimants to retrieve de XIGHAGGAnd to support themselves in future by their own industry. Amongst the claimants on the fund there were—

COPY OF INVOICE. -Boat "READY." -Master, W. HARDING, 1st October 1874.

FROM LONDON TO BIRMINGHAM.

Senders.	10 each	And Alexand	No. of		Marks and	Wei	ight.	REMARKS.
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COPY OF INVOICE.—Boat "JANE."—Master, T. Boswell, 1st October 1874—cont.

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COPY OF INVOICE.—Boat "DEE."—Master, J. EDWARDS, 1st October 1874, Coffectul. Not Collected.

REMARKS.

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COPT OF INVOICE. -- Bont "LIMEHOUSE." -- Master, E. HALL, 1st October 1874.

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		Copy of Invoice		282 AWK	ESBURY."—Mas	ter, J. Br	16 13 3 18 EWER, 1st Oct	tober 1874.	, "
Sudgetts -			ce.—Boat "H	k l	133	ter, J. Br.	EWER, 1st Oct		HAMPTON.
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APPENDIX F.

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t sex higher from	the landing of the		70 .	
if the wood.	l to silver grain o	4.0 Cut paralle	Date	Width
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at the said goods of Company from damage of, to, of ther agree that, aveyed as above, the advice of arrections can be consignee's placed goods shall remotion Canal Conse may be, withing the Grand Junctice consignees for the charges of the consignees for the co	are carried atall liability, and r in respect of the on the arrival at the said goods she ival to consigned goods are of business, the green agreemain in the Company as and for a twelve working ges thereon, and report can Canal Company and reficiency of oil the said said said said said said said said	any accepting the said g sole risk in a can make no claim agai e said goods, from wha the Company's station in all be removed therefrom all be removed therefrom and in case the said go e consignee shall immed to pay a sum of five sh cany's possession, to be liquidated damages; and hours, etain all sums of money y not to be responsible through leakage or evapor	all respects, and anst them for an antever cause arisis the town or pla me within two wo coods are carted liately take deliviallings per ton precovered or retain the event of authorise the payable under or in the event of ration.	that relicy loss, delay, destructing; and ce to which they are to rking hours after delively the Company's carts ery of them from the cer hour for every hour ained by the said Grafrom wharf or cart, as a Company to sell the sell by virtue of this contra any claim being made
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APPENDIX E.

Details of Experiments on the under-mentioned Pieces of Timber relative to their absorbing of Linseed Oil, being immersed 24 hours, the ends of which were coated with Pattern Makers' Varnish to prevent the oil penetrating, so that the sides and edges only were open to penetration.

JANALO MOITSMAN GRAND

(87)

Conserver Normann Contract for the forwarding of Petroleum or the produce thereof, including Rock Oil, Rangoon Oil, Burmah Oil, any product of them, and any Oil made from Petroleum. Coal, Schist, Shale, Peat, or other college and any product of them, that gives off an inflammable vapour, at a temperature of less than 100 degrees of Fabranheit's thermometer.

Width - 14.4 inches

Width - 4.0 ,,

Thickness evisper of vargant 0 inch

With thickness evisper of vargant 1.0 inch

15 10 30 40 April 10		1 1		1. F	- spood bandrians
Mature of Timber	Weight ⇒ V.before Immersion.	Weight lo no cafter annual immersion in a memoral is	Weight of Oil absorbed in each Piece.	Com- parative Absorption, taking Quebec Oak as 1.	REMARKS
Q. Dist	T. Gwt.		-5-T	1 1	
	Lbs. ozs.	L' Szs.	Lbs. ozs.		
1. Quebec Oak	1 9	93	$0 0^{3}_{16}$	1.	
2. Teak	$1 9_{1}^{2}$	$1 9\frac{6}{16}$	0 04	1.33	2. 4 0
3. English Ash	1 13	1 1314	$0 0_{16}^{4}$	1.33	4. 41
4. Spanish Mahogany -	1 13	$113\frac{4}{16}$	$0 0_{16}^{4}$	1.33	A STATE OF THE PARTY OF THE PAR
5. White Deal	0 14 8	$0.14\frac{13}{16}$	$0 0_{\overline{16}}$	1.66	
6. American Hickory -	1 81	$1 8\frac{13}{32}$	$0 0\frac{12}{32}$	1.833	
7. Bosma Oak	$1 5\frac{7}{16}$	$1 5\frac{13}{16}$	$0 0_{\overline{16}}$	2.	
8. Yellow Deal	$1 1\frac{13}{16}$	$1 2\frac{4}{16}$	$0 0_{\overline{16}}$	2.33	
9. Memel Oak	$1 7\frac{5}{16}$	$1 7\frac{14}{16}$	$0 0_{16}^{9}$	3.	The second secon
10. Dantzic Fur	$1 \ 3\frac{9}{16}$	$1 4\frac{2}{16}$	$0 0_{16}^{9}$	3.	
11. American White Wood -	0 13 5	0 1315	$0 0^{10}_{16}$	3.3	
12 Tas et li brasiols as beiras	$\begin{array}{c} 0 & 12\frac{8}{16} \\ 1 & 11\frac{13}{16} \\ 1 & 2\frac{2}{16} \end{array}$	$0.13\frac{3}{1.6}$	$0 0^{\frac{11}{16}}_{0}$	3.66	And in consideration
13. English Oak -	1 1113	$1 \ 12 \frac{8}{16}$ $2 \frac{13}{16}$	10	3.66	that the said goods are c
14. Cuba Cedar	$1 2\frac{2}{16}$	1 213 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$0 0^{11}_{16}$	3.66	the Company from all lis
19. Stettin Oak	$1 \ 12 \frac{16}{16}$	1 1016			
16. Sycamore - hits - Builts	$1 3\frac{5}{16}$	$1 \frac{4^{3}}{16}$	0 014		or damage of, to, or in r
17. Dantzie Oak sidw of easig re	$1 6\frac{7}{16}$	11075 AV	0 014	14.018	further agree that, on th
18. American Ash	0 8 8	$9\frac{7}{16}$	0 16	7.99	conveyed as above, the s
19. Honduras Mahogany	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	101216	0 0 3	11.66	of the advice of arrival t
20. Lime-tree medi 10 vieviles	1 4 5	0 114 1	0 0 5 1	19.41	
21. Box-woode-rol mod req mod	1 10 16	1 10 3	$0 \ 2_{16} - 32$	12.66	Failing which
22. American Birch based of signature	1 415	1 01	0 2 6 16 18 q n	12:66	said goods shall remain
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24. Beeches of vnasmo) odi-	1 1 9 3	$1 \ 13\frac{10}{16}$	0 54	19:6	may be, within two
25. Aldereidt le out iv zel vo ash				erenn, and	goods for the charges th
tof any claim being made by	n the ever	n reaponsible i	d of ton goe	amo'l len	The Grand Janetion C

Number of superficial inches open to penetration on each of the above pieces 144, and the Number of superficial inches open to penetration on each of the above pieces 144, and the low times whereof superficial inches of the above pieces 144, and the low times whereof superficial inches open to penetration on each of the above pieces 144, and the

The above details copied from memorandum of experiments made 13/12/65.

Wood Department, Royal Laboratory, 2nd February 1875.

(5) A rather larger quantity of retrolog XIGNAGA oured into box (three-quarters of an ounce by measure), and the gas-light held opposite to the ornec outside.

(6.) Hox cicared out. Seems more spirit put in, and some repealed -no results.

MEMORANDUM of EXPERIMENTS made with Petroleum in connexion with Regent's Park maide was gradual. This was continued by ser obtail Expression. define our to marine our than confidence

queriers of a minute; the space being by no race Sairs Atting, and the hole through which the vapour travelled not so large as the halo caused by a same knot falling out of the wood.

6/10/1874. In Royal Arsenal with Professor Abel.

(1.) A little light petroleum spirit poured into a tall thin glass vessel 11" high; at end of about a minute flame applied, and it ignited at top of vessel and burnt down.

(2.) Poured some of the vapour which had formed into a large glass jar, and in 15 seconds applied a light and got a small explosion.

(3.) A few drops deposited carefully at bottom of 11" jar, and in 20 seconds light applied. It ignited at six inches from the bottom of jar.

(4.) A few drops repeated in a 12" jar, but using rather more spirit; in 12 seconds a light applied and ignited at top.

(5.) Some petroleum spirit placed in large jar, and light applied in 10 seconds gave an explosion; (no smoke, or hardly any).

6/10/74. Grand Junction Canal Company's Wharf, City Basin.

Was shown (by Mr. Warlow and Mr. Witton) a cask of benzoline. It was standing on its end, and although its bung was covered with a tin patch there was considerable "weeping" or leakage therefrom. The benzoline was from Leon, Clere, and Charles, 21, Commercial Street, Spitalfields. The "weeping" was rapid. In about half a minute enough came out to thickly coat a finger. Put some on pieces of sponge into a bottle. On following morning on examining the bottle I found it broken, (on burning a bit of the sponge I found it very inflammable).

Transferred the remainder of the sponge to another stoppered bottle, and took it up to Dr. Keates, who in my presence removed stopper and applied a light, and produced a small explosion.

8/10/74. Went with Mr. Keates to Barringer and Co's., Hackney Wick. Mr. Barringer (junior) gave us two samples of the material, one of which was refined benzoline, the same as delivered to the Grand Junction Canal Company (and one of "naphtha.")

He said they delivered the two casks of benzoline to the Company on 14th September, and on 29th two more, because the first two had not gone. On October 7th Mr. Hughes wrote that all four were

on board the "Tilbury."

Afterwards I returned with Mr. Keates to his laboratory. Dropped 20 drops of refined benzoline into a long glass; it took about 18 seconds to drop, and at one minute from first dropping applied a light, and a sharp explosion occurred.

Then dropped 20 drops of crude benzoline into glass, almost immediately applied a light, and it burnt

down in blue flame.

.(tdgile) noisolax SERIES B.

10/10/74. Took some of the refined benzoline over to the Arsenal, and there carried out with Mr. Abel some experiments in his laboratory; temperature 61° Faht.

(1.) (This had been commenced by Mr. Abel before I came) with petroleum spirit.

Placed some in a saucer in a box, $20\frac{1}{2}$ inches \times $8\frac{3}{4}$ inches \times $5\frac{3}{4}$ inches deep (total cubic content

1031.4062 inches = rather over half a cubic foot).

The lid was laid loosely on, and at the end of 10 minutes a lighted wax taper was slowly introduced, and on arriving at about one and a half inch from bottom of box an explosion took place throughout the box.

(2.) Same repeated, but using some of the same benzoline as was on board the "Tilbury."

Result.—A more violent explosion, and this was obtained when taper was about half way down the

(This experiment seemed to show that this sample of benzoline was rather more volatile than the "petroleum spirit" previously used.)

(3.) A few drops of benzoline were placed in the bottom of a glass jar 12" deep and 12" wide.

At end of half a minute a taper was introduced, and at 9 inches from bottom explosion occurred, and flame flashed down to the bottom.

(4.) Some benzoline in saucer placed in wooden box as before. Hole bored in end of box, and gas flame introduced. No result at end of 10 minutes (apparently volatilisation not sufficiently rapid to produce explosive mixture). Idw gooled gas dog-column 8 da misus rideo ni ragat bar

(5.) The same repeated, except that the benzoline (a little) was poured into the box, and the gas flame applied through the hole.

After one minute two minutes

No results. three ,,

four

- (6.) Box cleared out. Some more spirit put in, and same repeated-no results.
- (7.) A rather larger quantity of "petroleum spirit" was poured into box (three-quarters of an ounce by measure), and the gas-light held opposite to the orifice outside.

In three-quarters of a minute a sharpish explosion took place at the orifice (outside), and the flame flashed backwards and consumed all the spirit in the box, which was filled with flame. The explosion was sharpish, and the burning of the inflamed vapour inside was gradual. This was obtained by volatilisation of three-quarters of an ounce (by measure), in space of 1,031 cubic inches, in threequarters of a minute, the space being by no means tight fitting, and the hole through which the vapour travelled not so large as the hole caused by a small knot falling out of the wood.

(1.) A little light potroleum spirit poured into a tall thin class vessel 11" high; at end of about a binnet llame applied, and it ignised at top of SERIES reque down.

6/10 1874. In Royal Arsenal with Professor Abel

17/10/74. Had model of sister boat to "Tilbury" made in Royal Laboratory, on scale of threequarters of an inch to the foot. (The man on board the boat stated that it was identical with the "Tilbury.")

Dimensions of model (about)— Stowage part and a state of the Width (internal) - - 4 ,, god as collection below the Depth of Food - - - 1\frac{3}{4} ,, you when height of roof - - - 1\frac{3}{4} ,, you when no colors on) Total depth

Took the barge to Mr. Abel's office and with him made the following experiments:-

(1.) Put half an ounce of spirit (by measure) into the boat, and applied a lighted taper in the cabin at every half minute up to five minutes; again at six, eight, and nine minutes.

At nine minutes got explosion in the cabin, which ran down rapidly throughout the body of the boat, and produced a flame in the same.

(2.) Same repeated, with a small pinch of gunpowder (in brown paper) placed a little in advance of

Light applied in cabin at seven minutes. Got a slight "puff" in the cabin, but it did not extend. Applied light again in cabin at 10 minutes, and got explosion and inflammation throughout boat; and in about three or four seconds this was followed by the explosion of the powder.

19/10/74. Repeated last experiment (but without powder), at inquest, and got a sufficiently considerable explosion to blow off the lid of the model.

8/5/75. Took boat to Mr. Abel's office, and there made an experiment with it packed (with little imitation barrels, bales, &c.). Mr. Dent and Dr. Kellner present.

(1.) Put half an ounce of petroleum spirit on to a sponge, applied lighted taper in cabin at

No results.

No results.

Significant of the state of the

(2.) Then took half an ounce of petroleum spirit and poured into bow of boat; boat not packed.

Placed two little tufts of gun cotton on floor of model.

**Applied taper at 3 minutes

**Solution of the second o

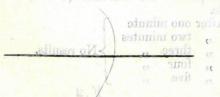
Took off cover and found the spirit was not all absorbed or evaporated, so put on cover again, and applied light at-

No results. One of bodies inautrogy and T)

(3.) Had the boat thoroughly cleansed and aired.

Then put half an ounce of petroleum spirit in it in open dish, in centre, and two bits of guncotton Applied lighted taper in cabin at 5 minutes—no result.

Applied lighted taper in cabin again at 8 minutes-got explosion, which flashed through the boat The same repeated, except that the benzoline (a linke) was poured in notice that the guncotton.



Maid through the mile.

Statement of Goods as below, carried in the feature A restign X anni A Sampany's Borts during the Months of July

APPENDIX H.

STATEMENT of GOODS, as below, carried in the Grand Junction Canal Company's Boats during the Months of July, August, and September 1874.

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Date.	Steerer.	Gunpowder.	Benzoline.	Petroleum.	Spirit.	Naphtha.	Paraffin.	Oil.	REMARKS.
July 1 """ """ """ """ """ """ """	E. Hill - T. Fereday - T. Rogers - A. Cleaver - W. Kite - J. Willington - J. Edwards - J. Pumphrey - J. Noden - J. Lea - J. Wickson - J. Tonks - G. Mupon - W. Day - W. Wood - J. Thompson - A. Lloyd - C. Bexon - J. Noden - J. Noden - J. Noden - J. Thacker - J. Blakeman - G. Moore - T. Clarke - J. Blakeman - G. Hodson - D. Bates - G. Holford - H. Westwood - J. Woodhouse - J. Randle - S. Chambers - J. Dutfield - W. Hawkins - J. Dutfield - W. Hawkins - J. Noden - J. Moore - E. Hill - W. Kite - W. Kite - W. Brewerton - A. Jones - W. Lowe	Silvar S	Benzoline. Substitute Subs	Tous. To	Spirit. Long. Comp. Comp.	Naphtha. Naphtha. 1 O Tous. 1 O Sur. 1 O S	Paraffin. Tour Survey	Tons. Cwt. Cwt. Lbs.	From North Hyde, G.P., 5 tons 11 cwt. 3 qrs. 9 lbs. From North Hyde, G.P., 6 tons.
10 10 10 10 10 10 10 10 10 10 10 10 10 1	T. Rogers A. Cleaver J. Stokes T. Davis W. Key J. Noden J. Lea J. Tonks G. Hodson W. Wood G. Masson S. Chambers W. Fereday J. Thompson G. Parrott T. Green W. Lowe J. Noden A. Lloyd C. Bexon H. Westwood J. Thacker G. Hodson S. Chambers W. Thompson D. Bates G. Holford T. Boswell J. Noden	0 4 0 0 0 8 0 24	0 0 3 5	0 3 0 8 4 0 3 6		=		- diagna - d	

Statement of Goods, as below, carried in the Grand Junction Canal Company's Boats during the Months of July, August, and September 1874—continued.

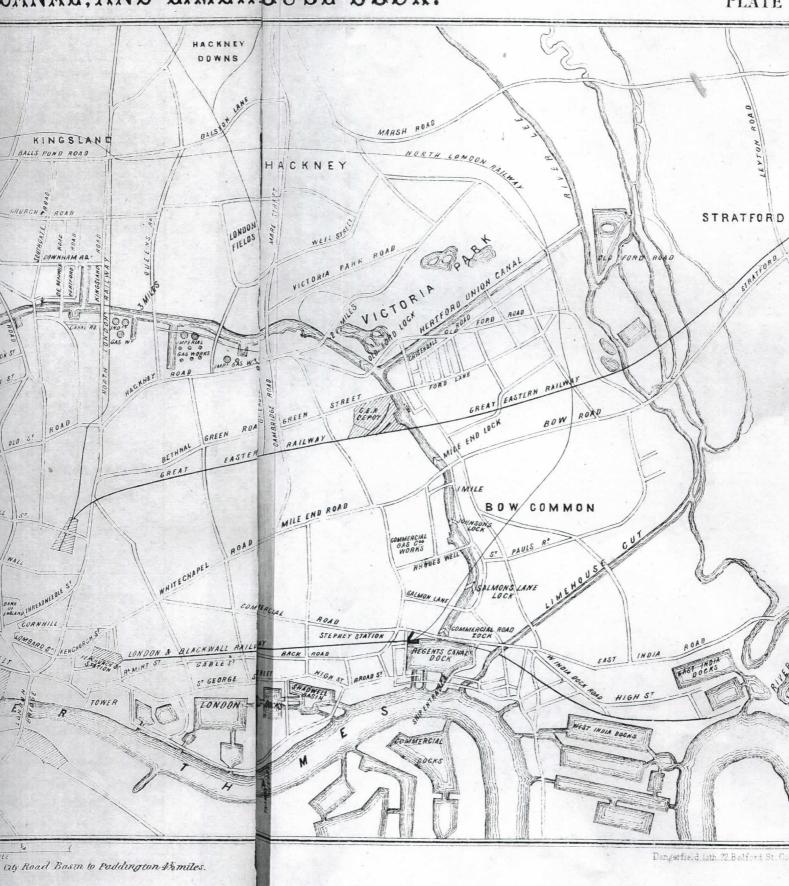
Date.	Steerer.	Gunpowder.	Benzoline.	Petroleum.	Spirit.	Naphtha.	Paraffin.	Oil.	REMARKS.
July 28 "" 29 "" 29 "" 30 "" 31 "" 30 "" 31	T. Green J. Wakefield E. Hill J. Stokes S. Chambers W. Lowe W. Hardy W. Busby A. Cleaver W. Brewerton G. Hodson J. Noden W. Tonks J. Wickson W. Hardy W. Chater J. Edwards S. Chambers H. Goddard C. Coleman W. Wood A. Lloyd J. Noden J. Moore J. Thompson H. Westwood W. Fereday C. Bexon T. Lacey J. Hill J. Noden J. Widsmith T. Green J. Thacker T. Fereday J. Widsmith T. Green J. Widsmith T. Green J. Hardy W. Brooks E. Hill J. Noden G. Musson W. Tonks J. Edwards D. Bates W. Hardy E. Roberts J. Woodhouse Jas. Moore G. Hodson A. Cleaver J. Lewis J. Wickson W. Lowe S. Chambers J. Wakefield W. Wood T. Rogers W. Thrasher J. Thompson J. Noden W. Kite G. Musson S. Chambers J. Wakefield W. Wood T. Rogers W. Thrasher J. Thompson J. Noden W. Lowe F. Fereday F. Gardner F. Gardner J. Fereday F. Gardner		0 1 2 3 0 1 2 2 10 0 1 2 3 6 0 1 2 3 6 0 7 1 25 0 4 1 1 6 0 1 2 2 0 1 -2 22 0 1 -2 22 0 5 -1 22 0 2 3 16 0 14 -2 10 0 5 3 5 0 0 3 7 0 3 -1 1 0 17 0 8 0 3 0 6 0 3 0 6 0 3 0 0 0 3 0 4 0 12 0 14 0 13 3 17 0 3 -2 21 0 3 0 0 0 3 0 4 0 12 0 14 0 15 3 4 0 2 3 0 0 4 3 5 0 5 3 14 0 3 0 0	0 3 1 8	0 0 -3 23 0 0 -3 23 0 0 -3 23 0 0 -3 23	TO O O O O O O O O O O O O O O O O O O		Pare	Date. Da
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Statement of Goods, as below, carried in the Grand Junction Canal Company's Boats during the Months of July, August, and September 1874—continued.

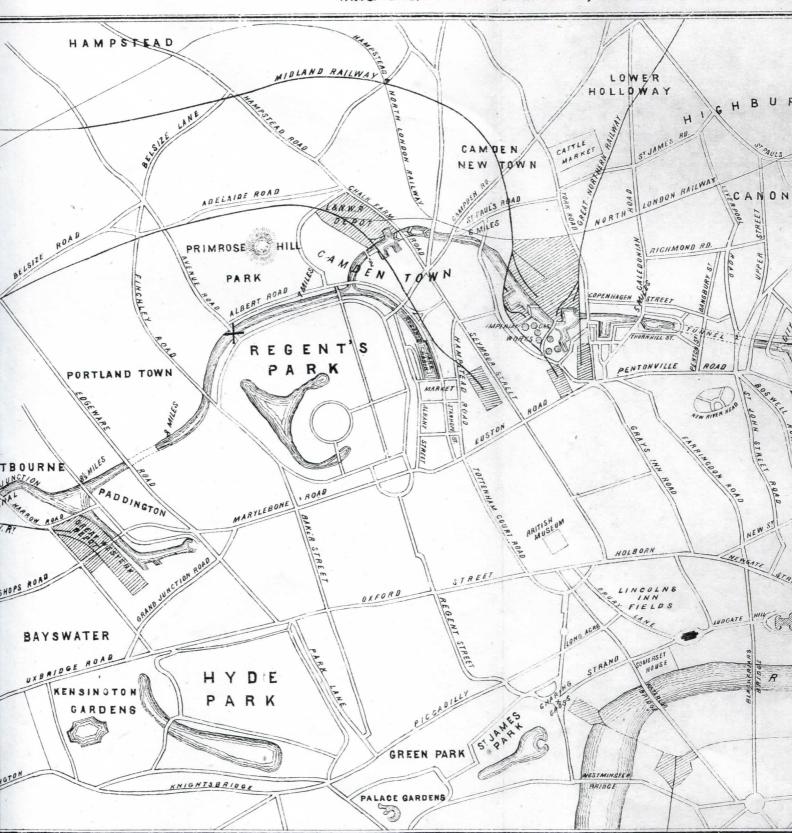
Date.	Steerer. HO	Gunpowder.	Benzeline.	Petroleum.	3	Spirit.fort	11	Naphtha:	I :	Paraffin, qui	0	Oil.,1919	REM	ARKS. ([
Aug. 26	W. Key D. Bates Jas. Moore W. Lowe E. Roberts C. Busby J. Noden A. Jones J. Pumphrey G. Hodson A. Cleaver H. Bland T. Green S. Phipkin W. Wood S. Chambers W. Kite	0 0 2 14 11 3 2 18 0 0 1 24 2 4 0 15 0 0 2 22 0 15 1 0 1 4 2 19 0 0 1 7 0 1 3 9 2 15 1 17 7 10 0 0 0 1 2 1 0 1 1 16	9 3 0 14	0 3 0 26 0 6 1 26 1 2 3 0 0 3 1 4 1 3 0 4	0 0 1	3 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	de constant de con	2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	0	0 - 1 11 16 1 26	Tons.	en — con bers — con be	G. Nort	?. from
Sept. 1 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4	W. Fereday H. Westwood J. Thompson T. Fereday W. Lowe J. Noden J. Wickson C. Bexon J. Newry W. Key J. Thacker S. Chambers T. Lacey A. Lloyd G. Hodson J. Wakefield W. Harry E. Hill G. Musson J. Noden W. Hawkins J. Woodhouse D. Bates W. Lowe S. Chambers G. Holford J. Pumphrey J. Randle J. Moore C. Coleman G. Hodson C. Busby W. Busby A. Jones S. Phipkin W. Fereday W. Day G. Musson S. Chambers J. Hanley T. Rogers J. Hlewer	0 2 1 0 0 12 3 8	0 2 3 19 0 5 3 19 0 5 2 20 0 11 3 6	0 2 3 20 1 10 3 21 4 3 0 4 0 3 0 20 0 9 2 0 0 6 1 20 3 6 0 13 2 17 2 2 0 6 2 11 1 19 3 23	0	5 3 14		пининининининини	0	12 3 24 — 13 0 10 3 1 12 — 16 2 8 — 1 — 16 0 14 — 16 0 1	0	16 1 5		
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Statement of Goods, as below, carried in the Grand Junction Canal Company's Boats during the Months of July, August, and September 1874—continued.

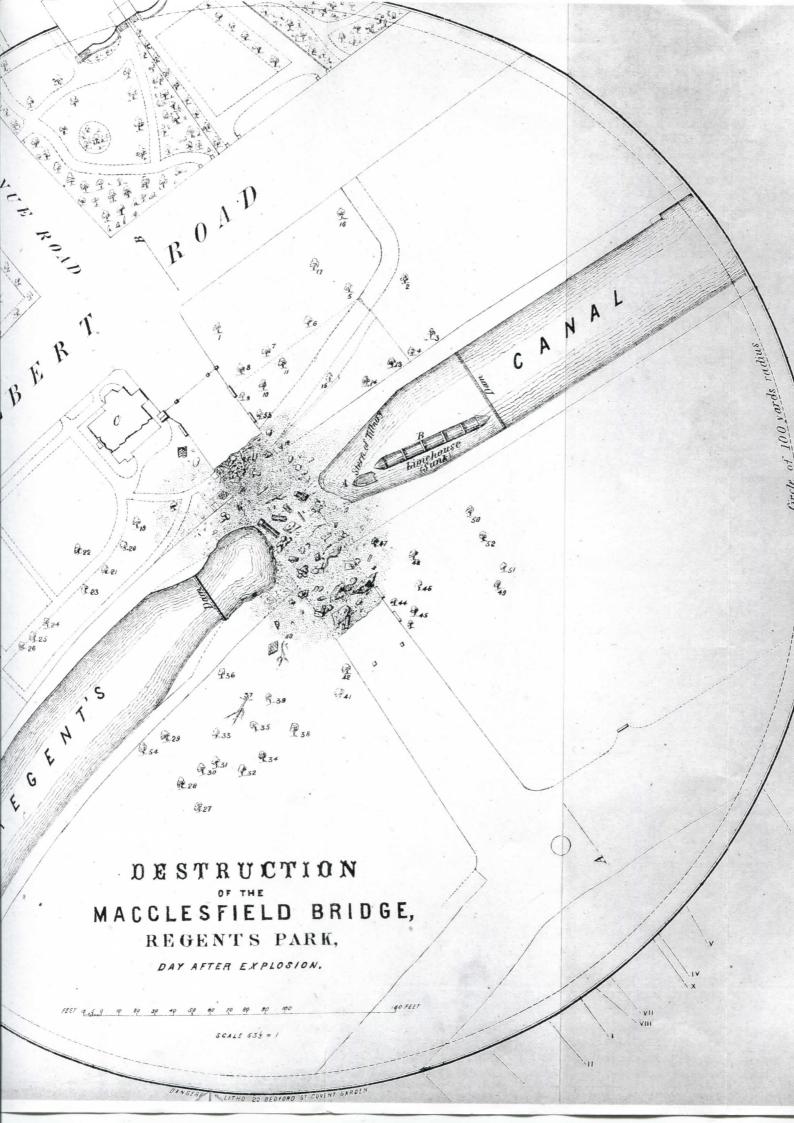
Date.	Steerer. II()	Gunpowder.	Benzoline.	Petroleum.	Spirit.	Naphtha.	Paraffin.	Oil, 1918 REM
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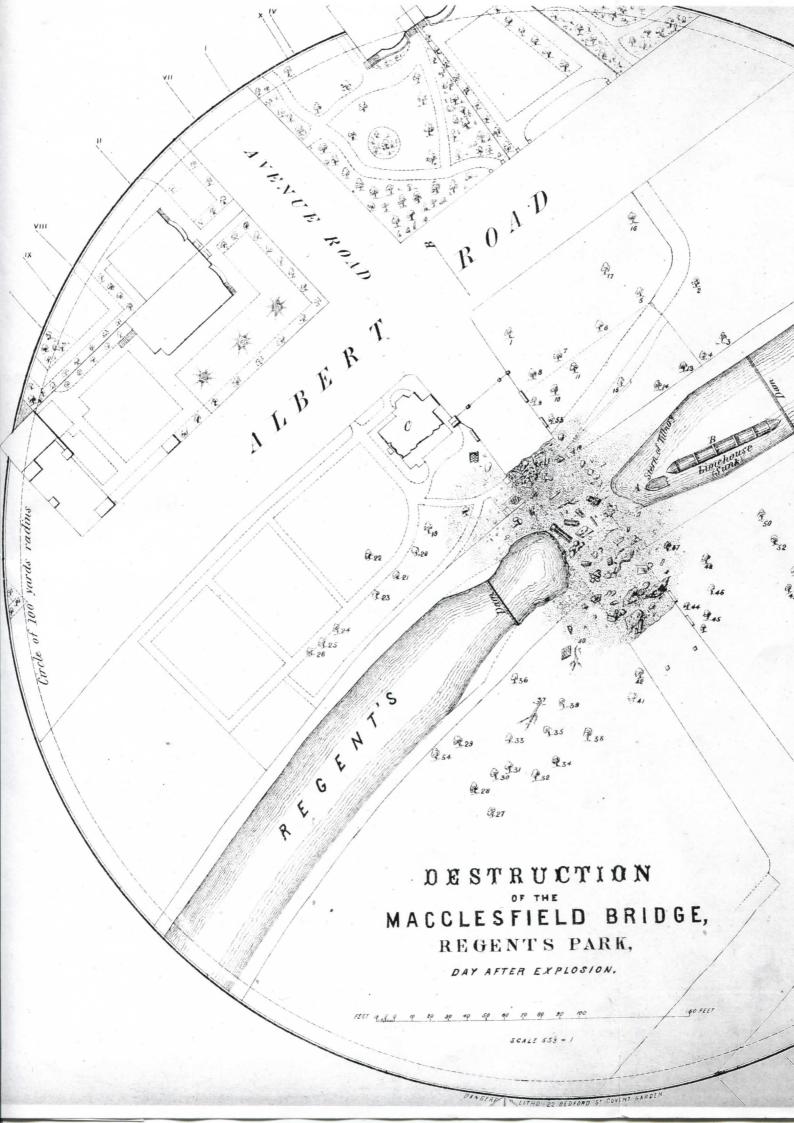


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Distance from the Thames to City Road Ba

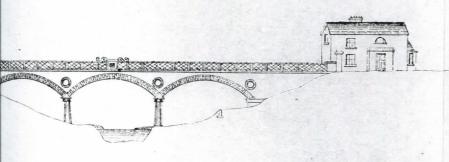




REGENT'S PARK EXPLOSION.

BRIDGE BEFORE EXPLOSION.



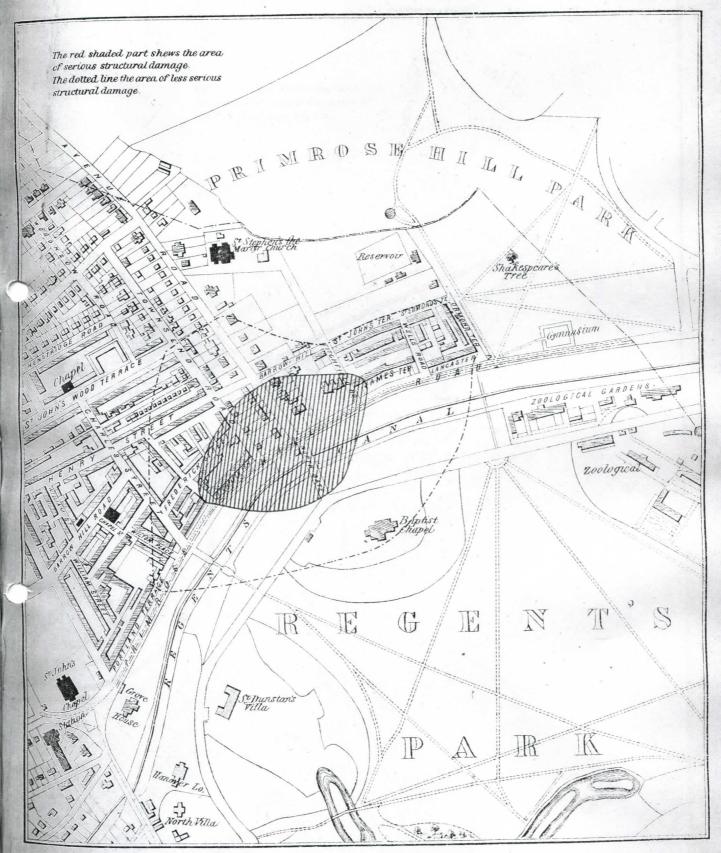


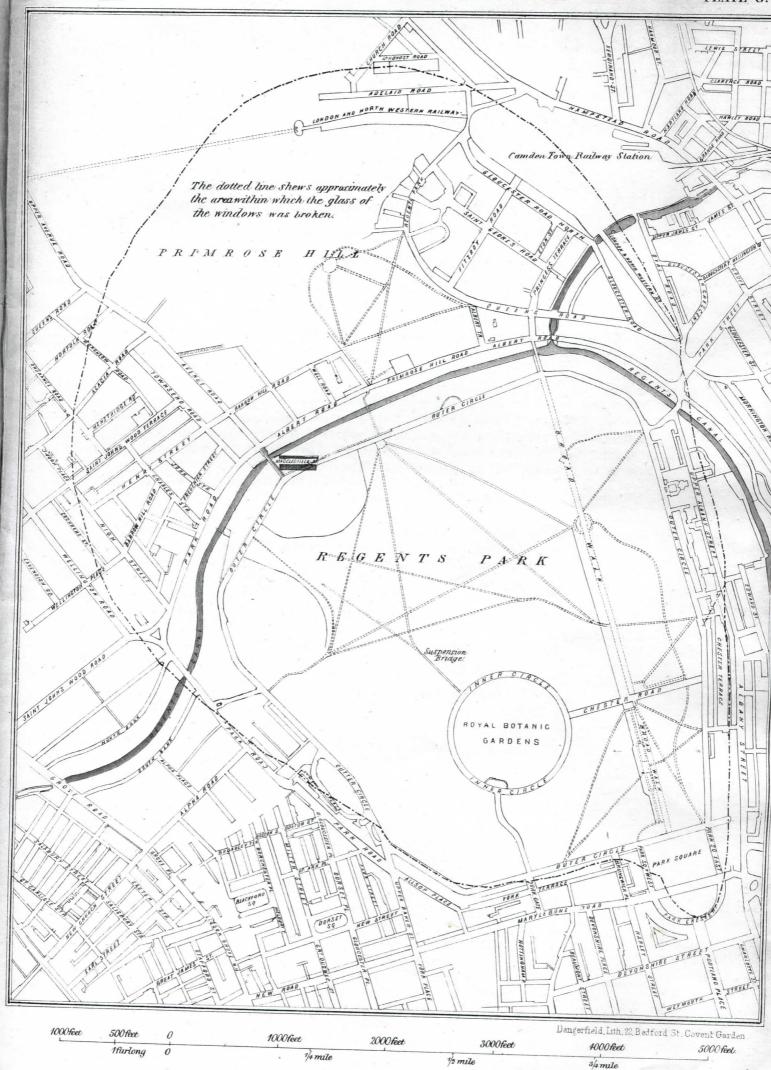
CTION AND ELEVATION ON A.B (DRAWING C.)

. . SCALE 40=1"

49 50 60 70 80 30 100 110 120 130 140 150 160 170 180 120 200 210 220 230 240 FEE.

(Signed) Hohn Tresidder, Lieut R. Engrs.





Scale 6 inches to the statute mile, or 880 feet to 1 mile. = 10560