

WAIVER OF DAMAGES
INSTRUCTIONS TO APPLICANT

FOLLOW THESE INSTRUCTIONS CAREFULLY. FAILURE TO DO SO MAY RESULT IN ADDITIONAL
PAYMENT OF RECORDING FEES AND COMPLETE REPROCESSING OF WAIVER.

Check when
complete.

1. The Engineering office will prepare an original and three (3) typewritten
copies of the waiver form, (Engineering Form 3.685).

2. The Engineering office will advise you as to the correct acknowledgement form
which the notary is required to complete. This form will be Engineering Form
3.685A (Corporation) for corporations or Engineering Form 3.685B (Private)
for individuals. If the corporation form is used, the names of the Company
representatives must be typed below each signature line and the name of
your organization must be typed in the appropriate space above the signature
line. If the "Private" form is used, the typewritten name of the applicant
(owner) must appear in the appropriate space above the signature line.

3. Take all copies of both the Waiver of Damages form and the appropriate
additional sheet (Corporation or Private) for notarization.

4. After notarization, return all copies of the Waiver Form to the Engineering
office for further processing.

5. After acceptance by City Engineer and entry of plan and map data have been
accomplished by the Engineering office, take all copies of the waiver to
the County Recorder. Pay the recording fee and have the waiver recorded. The
County Recorder will retain the original copy and return all other copies to
you.

6. Return two (2) copies of the waiver form to the Engineering office and retain
the third copy for your own files.

THANK YOU FOR YOUR COOPERATION IN THIS PROCEDURE. THESE STEPS ARE NECESSARY FOR
THE PROTECTION OF BOTH YOUR INTERESTS AND THOSE OF THE CITY.

Eng. 3.685C

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING

WAIVER OF DAMAGES, INDEMNIFICATION AGREEMENT AND RIGHT OF INGRESS AND
EGRESS — COVENANT TO RUN WITH THE LAND.

WHEREAS, the _____

(A corporation—A person), is the owner of real property, located at _____
_____ in the City of Los Angeles, County of Los Angeles, State of California, described as

_____ in the official records of the County of Los Angeles in Book _____, Page _____,

_____ which land is bounded by or subject to an easement or right of way owned by the City of Los Angeles;
and whereas, said owner has applied to the City of Los Angeles, hereinafter referred to as the City, for
permission to install, construct, maintain, _____ and/or use as temporary improvements

_____ in the right of way or easement at the above described property.

NOW THEREFORE, in consideration of the City granting revocable permission to the applicant to
install, construct, maintain and/or use the said improvement in the right of way or easement, the
undersigned owner, for (himself—itself) and for (his—its) heirs, successors in interest and assignees,
does hereby agree as follows:

1) To indemnify and hold harmless the City, its officers, agents, and employees, from and against
all cost, liability, loss, damage or expenditure of whatsoever kind and nature sustained or incurred by
the public or other person and from and against all damage, loss, or expense of whatsoever kind and
nature sustained or incurred by the City by reason of this grant of revocable permission in, on, through
and/or over said easement or right of way of the City. Permittee hereby further agrees to assume, at its
own expense, the defense of any of the aforesaid losses, damages or claims or of any action or actions
based thereon.

2) To waive any right to make or prosecute any claims or demands against the City, or any of its
Boards, Departments, Officers, Employees, or Agents for any damage that may occur to said improve-
ment, or any adjacent properties, or relate to permissive use granted, by virtue of the use, construction,
maintenance or other act within said easement or right of way by or under authority of said City, or for
any damage due to substances or activities emanating from within or without such City facilities.

3) To remove all said improvements, and restore the affected Right of Way or Easement, without
expense to the City at the request of the Board of Public Works of said City, or its Officers, Employees,
or Agents by virtue of revocation of the permit.

4) To maintain the improvement at all times to the satisfaction of the City or to reimburse the City
for expenditures for maintaining the improvements should the undersigned fail to do so.

5) To grant to the City, its Agents, Representatives, Officers and Employees the right of ingress and
egress over the above described improvement to any or all portions of said street, easement or right of
way including the portions covered by buildings, furnishings, or equipment, for the purpose of con-
struction, maintenance, repair, reconstruction or removal, or other lawful acts in or to said easement
or right of way.

6) This permission is not in lieu of and in no way relieves the property owners, their heirs,
successors, in interest or assigns from contributing to or assessments for city improvements at, in, on
or about said Right of Way or easement.

7) This agreement shall remain in full force and effect until released by the Board of Public Works
Commissioners of the City of Los Angeles.

100-0322.1(6)

This waiver shall be and constitute a covenant running with the land and be binding upon the heirs, executors, administrators, successors in interest, assignees as their interest may appear, and may be recorded by either said owners or the City of Los Angeles.

OWNER ADDRESS
(Type)

OWNER ADDRESS
(Signature)

OWNER ADDRESS
(Signature)

STATE OF CALIFORNIA }
COUNTY OF LOS ANGELES } ss.

On this day of 19....., before me,

....., a Notary Public in and for said County and State, personally appeared

known to me to be the person... whose name... subscribed hereto, and acknowledged that ...he... executed this instrument.

IN WITNESS WHEREOF I HAVE HEREUNTO SET MY HAND AND AFFIXED MY OFFICIAL SEAL THE DAY AND YEAR HEREINABOVE FIRST WRITTEN.

(Seal)

.....
Notary Public in and for said County and State

My license expires on, 19.....

Accepted by the City Engineer of the City of

Los Angeles on, 19..... Plan No.

BY Y Map No.

..... Dist. Map No.

(Division and District Office)

Plans submitted

YES NO.

WAIVER NUMBER W-

This waiver shall be and constitute a covenant running with the land and be binding upon the heirs, executors, administrators, successors in interest, assignees as their interest may appear, and may be recorded by either said owners or the City of Los Angeles.

IN WITNESS WHEREOF, the owner has caused these presents to be executed this day of, 19.....

Corporation Name (Type)

By

By

(Seal)

STATE OF CALIFORNIA }
COUNTY OF LOS ANGELES } ss.

On this day of, 19....., before me a Notary Public in and for the said County and State, personally appeared known to me to be the and, respectively, of the Corporation that executed the within instrument, known to me to be the persons who executed the within Instrument, on behalf of the Corporation herein named, and acknowledged to me that such Corporation executed the within Instrument pursuant to its by-laws or a resolution of its Board of Directors.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY OFFICIAL SEAL THE DAY AND YEAR HEREINABOVE FIRST WRITTEN.

(Seal)

.....
Notary Public in and for said County and State

My license expires on, 19.....

Accepted by the City Engineer of the City of

Los Angeles on, 19.....

BY

Plan No.

Y-Map No.

Drainage Map No.

District Map No.

Plans Submitted YES..... NO.....

INSURANCE REQUIRED BY CITY OF LOS ANGELES

PURSUANT TO CITY ORDINANCES
FOR CONTRACTS OR PERMITS UNDER
THE JURISDICTION OF THE BOARD OF PUBLIC WORKS

1. COVERAGE - LIABILITY

(a) Comprehensive general liability, including
Explosion, Collapse and Underground.

(b) SPLIT LIMITS MINIMUM COVERAGE

\$300,000 Bodily Injury per occurrence with
no aggregate.

\$50,000 Property Damage per occurrence. Please
state whether this coverage has an aggregate. If
aggregate is included, it should be no less than
\$250,000.

(c) COMBINED SINGLE LIMIT MINIMUM COVERAGE

Minimum Coverage is \$350,000 per occurrence with
no aggregate.

2. ENDORSEMENTS

Attached are endorsement forms which meet all the
Ordinance requirements for liability insurance.

Endorsements in substantially this form must be attached
to the certificates submitted to the City.

Appropriate changes may be made only to conform to policy
limits or conform possible non-aggregate coverage.

If you have both Primary and Excess, please include an
endorsement for each policy.

3. SIGNATURE OF AGENT

All Certificates and all Endorsements must be HAND SIGNED
by an authorized Agent of the Insurance Company. FACSIMILE
SIGNATURES WILL NOT BE ACCEPTED.

4. WORKER'S COMPENSATION

() Needed only if marked in this box.

Certificates only are needed in TRIPLICATE, but must provide
as follows:

"THE POLICY SHALL NOT BE SUBJECT TO CANCELLATION OR REDUCTION IN
COVERAGE UNTIL AFTER 30 DAYS NOTICE IN WRITING SHALL HAVE BEEN
SENT BY REGISTERED MAIL TO THE CITY ATTORNEY, ROOM 2019, CITY
HALL, LOS ANGELES, CALIFORNIA."

Figure C 372.2(a)

(SPLIT LIMIT COVERAGE ENDORSEMENT)

SPECIAL ENDORSEMENT

CITY OF LOS ANGELES

"B" PERMIT EXCAVATION PERMIT CONTRACT

"NOTWITHSTANDING ANY INCONSISTENT STATEMENT IN THE POLICY TO WHICH THIS ENDORSEMENT IS ATTACHED OR ANY ENDORSEMENT NOW OR HEREAFTER ATTACHED THERETO, IT IS AGREED THE CITY OF LOS ANGELES IS A CO-INSURED HEREUNDER COVERING ALL OPERATIONS OF THE INSURED OR PERMITTEE OR CONTRACTORS AND SUBCONTRACTORS OR ANYONE ACTING ON THEIR BEHALF UNDER THE PERMIT OR CONTRACT, UNDER ANY "B" PERMIT, OR EXCAVATION PERMIT, OR CONTRACT, FROM OR WITH THE CITY FOR WORK IN OR ABOUT SAID CITY, WHETHER LIABILITY IS ATTRIBUTABLE TO THE INSURED OR TO THE CITY".

THE LIMIT OF LIABILITY FOR BODILY INJURY IS.

\$300,000. each accident

THE LIMIT OF LIABILITY FOR PROPERTY DAMAGE IS.

\$ 50,000. each accident
\$250,000. aggregate operation
\$250,000. aggregate protective
\$250,000. aggregate products
\$250,000. aggregate contractual

"SHOULD THE COMPANY PAY PROPERTY DAMAGE REDUCING THE AGGREGATE TO \$50,000. OR LESS, THE COMPANY SHALL NOTIFY THE CITY ATTORNEY OF LOS ANGELES AND THE BOARD OF PUBLIC WORKS IN WRITING IN ORDER THAT THE CITY MAY REQUIRE THE AGGREGATE COVERAGE BE RESTORED OR CANCEL THE PERMIT OR THE PERMITTEE OR STOP WORK UNDER THE CONTRACT. COVERAGE HEREIN AS TO THE CITY SHALL REMAIN UNCHANGED UNTIL RECEIPT OF SAID NOTICE"

THE POLICY SHALL NOT BE SUBJECT TO CANCELLATION UNTIL AFTER 30 DAYS NOTICE IN WRITING SHALL HAVE BEEN SENT BY REGISTERED MAIL TO THE CITY ATTORNEY, ROOM 2019, CITY HALL, LOS ANGELES, CALIFORNIA. 90012.

NAME OF INSURED: _____

NAME OF COMPANY: _____

POLICY NUMBER: _____

Signature of Agent.

(CITY ATTORNEY-SPECIAL ENDORSEMENT 2-26-75)

NOTE. Two copies of certificates of insurance with a copy of this endorsement attached to each is required. Both the certificates and endorsements must be hand signed by the authorized insurance agent.

SEWER/STORM DRAIN CONNECTION BOND

KNOW ALL MEN BY THESE PRESENTS

That we, _____
as principal _____, and _____
_____ as surety, are held and firmly bound unto the City of Los Angeles, a municipal corporation, in the sum of _____ Dollars,
for the payment of which well and truly to be made, we bind ourselves, our and each of our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above bounden principal ___ ha ___ applied or will apply for permits for the purpose of making sanitary sewer house connections or storm drain connections, and pursuant to Municipal Code Section 64.15.1(b) is required to furnish bond as therein provided.

NOW THEREFORE, the condition of this obligation is such that if the above bounden principal ___ shall pay all charges required by Sections 64.12 to 64.22, inclusive, of the Los Angeles Municipal Code, and shall faithfully and properly perform the work of making such connections under all permits issued to said principal ___, to the satisfaction of said Board of Public Works, and shall pay any and all damages sustained by the City of Los Angeles by reason of faulty or defective work under such permits, then this obligation shall be null and void, otherwise to remain in full force and effect.

The term of this bond is continuous until cancelled by giving 60 days advance notice by registered mail to the City Attorney.

THIS BOND SHALL BE EFFECTIVE FROM AND AFTER _____, 19__

SIGNED, SEALED AND DATED THIS _____ day of _____, 19__

Principal

Surety

Principal

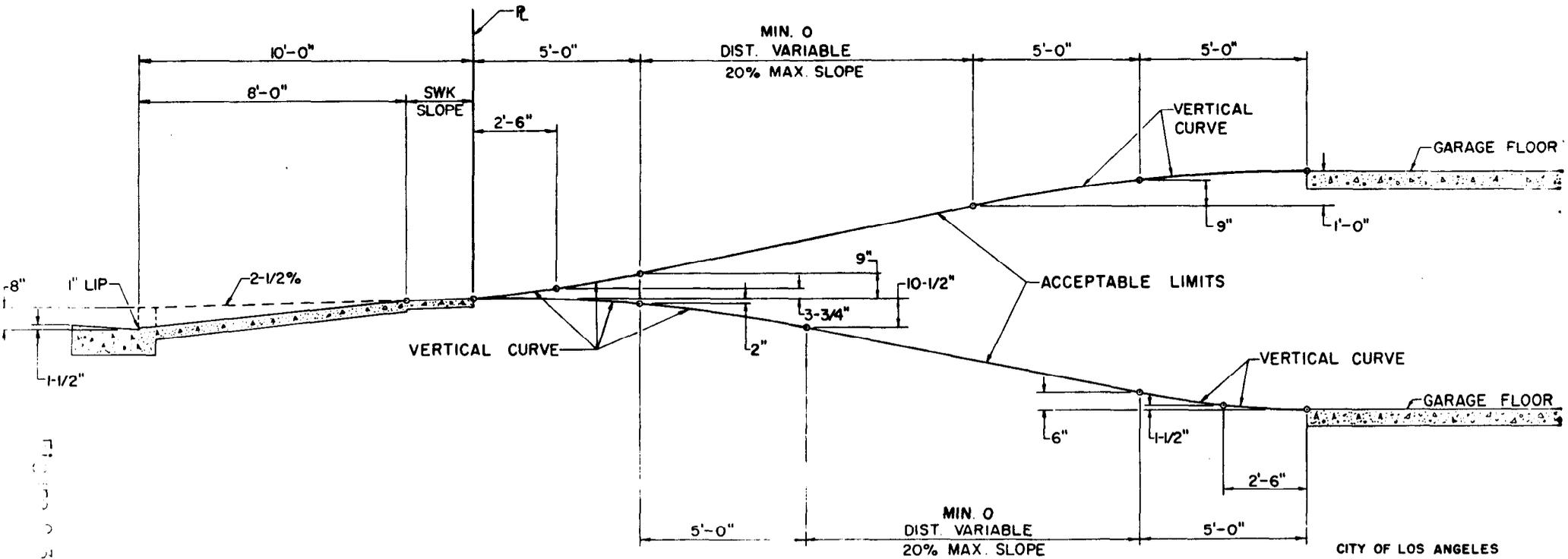
Surety

INSTRUCTIONS: All signatures must be acknowledged before a Notary Public. If a corporation, two officers must sign and impress corporate seal. If a partnership, one general partner must sign. **USE APPROPRIATE NOTARY FORM ON BACK OF THIS BOND FORM.**

ACCEPTABLE DRIVEWAY SLOPES ON PRIVATE PROPERTY

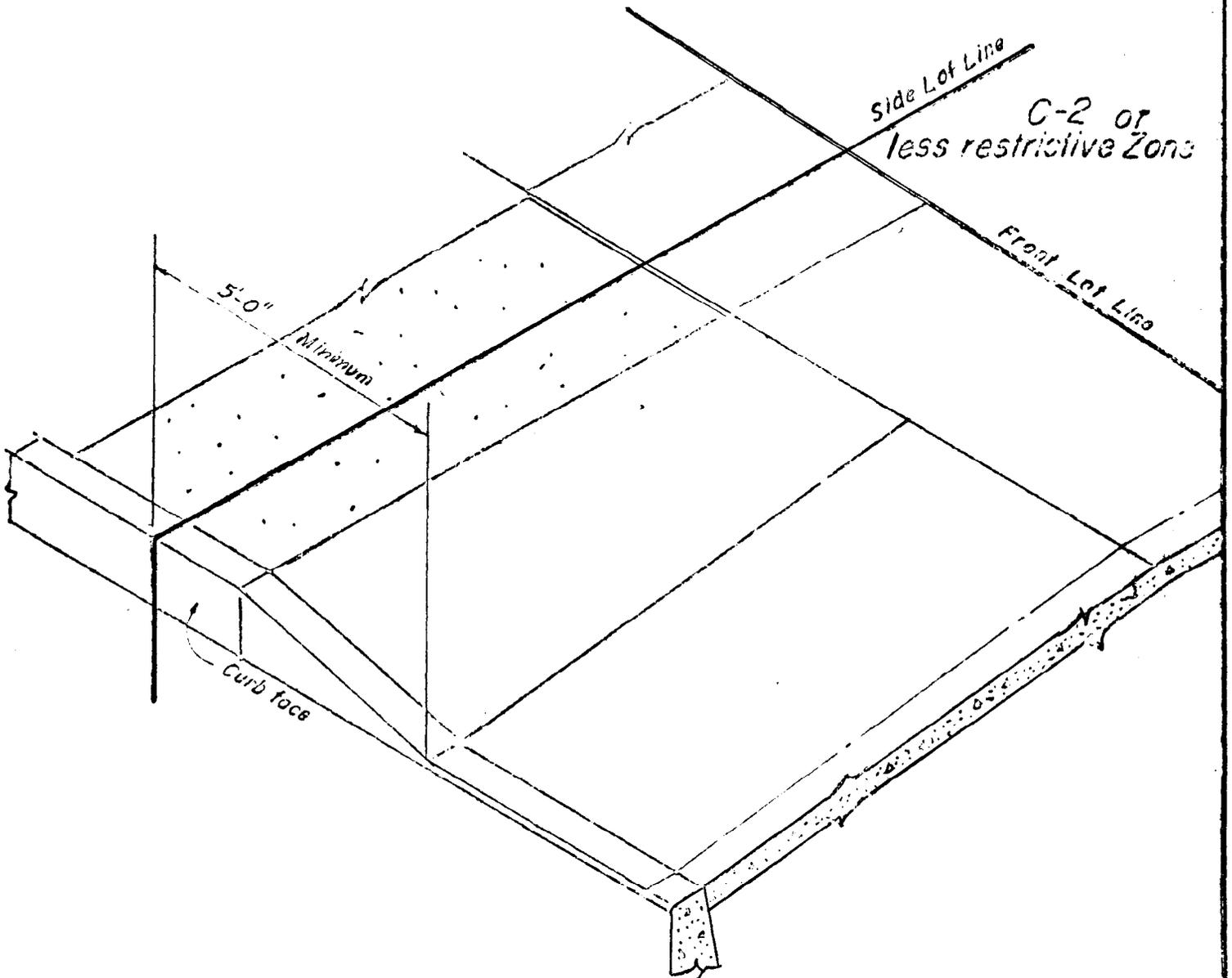
TYPICAL 8" CURB FACE AND 10' CURB TO PROPERTY LINE

SCALE: 1" = 2'-0"



CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORK
BUREAU OF ENGINEERING
UTILITY & ESTIMATING DIVISION

A or R
Zone



REQUIREMENTS APPLY TO ANY AUTOMOTIVE SERVICE STATION, TIRE AND TUBE REPAIRING, BATTERY SERVICE, AUTOMOBILE LUBRICATION, AUTOMOBILE LAUNDRY OR WASH RACK ESTABLISHMENT PROPOSED TO BE CONSTRUCTED IN A C-2 OR LESS RESTRICTIVE ZONE ADJOINING AN A-OR R ZONE. SEE MEMORANDUM NO. MO11-0269.

Figure C 331.314

USE TYPEWRITER OR BALL POINT PEN — PRESS FIRMLY — PRINT ONLY

DISTRIBUTION: 1. WHITE—Permittee
2. WHITE—Contract Admin.

3. WHITE—Issuing Office
4. YELLOW—Contract Admin.

ENG. 3.668 (R. 2-76)

City of Los Angeles
DEPT. OF PUBLIC WORKS
Bureau of Engineering

CLASS "A"
APPLICATION/PERMIT

SEE REVERSE
SIDE FOR
SPEC. REQMTS.

For the Construction of Curbs, Driveways, Sidewalks and other Structures in Public Streets

APPLICANT/PERMITTEE	TELEPHONE
APPLICANT'S ADDRESS	CITY OR TOWN ZIP

I hereby agree to observe all requirements of the Municipal Code of the City of Los Angeles and Gen. Info. Form 5.902.

SIGNATURE: **X** DATE: **?**

DIMENSIONS MAY BE OBTAINED FROM OFFICIAL RECORDS:	FRONTAGE STREET	INTERSECTING STREET
	Curb face to front edge of walk.....	FT. IN. FT. IN.
	Width of sidewalk.....	FT. IN. FT. IN.
	Back edge of walk to property line.....	FT. 3 IN. FT. 4 IN.
	Curb face to property line.....	FT. IN. FT. IN.
Height of curb face (subject to field check).....	INCHES INCHES	

WORK DESCRIPTION:

SKETCH ATTACHED

5 **10** **6**

JOB ADDRESS: **7** PERMIT NO. **A7** **12**

STD. PLAN	ITEM	QUANTITY	UNIT	RATE	FEE
8	CONCRETE CURB		LIN. FT.	\$	\$
DRIVEWAY	CONCRETE GUTTER	"	SQ. FT.		
CASE NO.	CONCRETE DRIVEWAY	13	SQ. FT.		
W =	CONCRETE SIDEWALK	"	SQ. FT.		
Y = 9	ASPHALT PAVEMENT	"	SQ. FT.		
X =	CONCRETE PAVEMENT	"	SQ. FT.		
a =	POOF DRAINS	"	LIN. FT.		
t =	ADD'L. ITEMS - REMARKS				
REMOVE GUTTER					
GUTTER REMAINS					
INSPECTION REQD. BEFORE CONSTRUCTION (See reverse side)				TOTAL FEES:	\$ 15

JOB ADDRESS: _____ Location Code: **11** PERMIT NO. **A7** **12**

THIS PERMIT NOT VALID UNLESS REGISTER VALIDATED OR RECEIPT SHOWN
RECEIPT NO.

PERMIT EXPIRES 6 MONTHS FROM DATE OF ISSUE
EXCEPTION: MUST BE COMPLETED WITHIN THE TIME PRESCRIBED IN THE NOTICE.
WORK REQUIRED BY CITATION FROM STREET USE INSPECTION DIVISION

(16)

INSTRUCTIONS TO PERMITTEE

- 1. Inspection must be requested in advance of the work, and no later than noon of the preceeding workday. Give job address, permit number, and fees.
- 2. If starting time is changed, notify the inspection office immediately.
- 3. Edges to be joined must be sawcut.
- 4. Barricades and lights must be on job from start of removals to completion of work.
- 5. Pedestrian and vehicular access must be maintained at all times.
- 6. No concrete to be placed without approval of Inspector.
- 7. Permit must be on job at all times for Inspector's use.
- 8. Telephone for inspection according to location:
 Central, Hollywood, Harbor, Westchester-Venice and West Los Angeles: 485-3002.
 East Valley and West Valley: 782-6125, Sta. 335.

SPECIAL REQUIREMENTS

(5)

INSPECTOR'S REPORT

WORK DONE BY						TELEPHONE		
ADDRESS						CITY OR TOWN		
CONCRETE BUNKER				SOURCE OF BITUMINOUS PAVEMENTS				
CONCRETE MIX			DELIVERY TICKET NO.			KIND OF BITUMINOUS MATERIAL		
DATE	CURB LIN. FT.	GUTTER SQ. FT.	DRIVEWAY SQ. FT.	3-INCH SIDEWALK SQ. FT.	PAVEMENT		ROOF DRAINS	INSPECTOR'S SIGNATURE
					TYPE	SQ. FT.		
TOTAL WORK INSTALLED								
COVERED BY PERMIT								
JOB COMPLETED (DATE)					INSPECTOR			
REMARKS							<input type="checkbox"/> WATER METER WORK REQUIRED <input type="checkbox"/> ASPHALT PATCH WORK REQUIRED	

CLASS "A" APPLICATION/PERMIT

Eng. 3.668

1. Applicant or permittee's name, address and telephone number. (May be filled in by applicant.)
2. Fill out items 3 through 16 then get applicant's signature and date. (To be filled in by counter personnel.)
3. Frontage street is same as 7 and dimensions as indicated.
4. Intersecting street nearest to job address and dimensions indicated.
5. Description of work to be done. Indicate special requirements.
6. Check box if a sketch is attached.
7. Address where work is to be done.
8. Applicable standard plans.
9. Driveway Case No. and width.
10. Bureau of Street Maintenance repair notice number, if applicable.
11. Locator Code
12. Permit Number
13. Applicable quantities. Estimate if necessary. Enter rate and subtotal fees.
14. Items other than curb, driveways, and sidewalks. May include gutter, roof drains, special inspection, etc. Enter rate and subtotal.
15. Total fees. Charge at least the current minimum fee. If minimum fee permit, write, "Minimum", above, "Total Fees".
16. Inform permittee of instructions on back of permit.

DESCRIPTION OF ENTRIES

- a. Name of permittee with General Deposit.
- b. Address of permittee.
- c. Phone number of permittee.
- d. Job address - generally ties from a street intersection.
- e. Purpose of excavation.
- f. Number of cuts required, give square feet of area to be resurfaced and check material for resurfacing.
- g. Is work related to a City notice of proposed improvement? (Explanation.)
- h. Title of City job, if applicable.
- i. Work order of City job, if applicable.
- j. Is street now under construction?
- k. Storm drain approval by Drainage Systems Personnel, sewer approval by Wastewater System Engineering Division personnel, location approval by authorized personnel in issuing office.
- l. Approval stamp here.
- m&n. Signature and date of authorized agent for permittee.

3. Purpose of excavation - (e.g., basement excavation, building footings.)
4. Applicant/permittee - must be the insured party.
5. Address - of applicant/permittee.
6. City or town.
7. Authorized signature - of insured or authorized representative of insured.
8. Special Requirements-List on rear of permit form.
9. General notice to permittee.
10. Inspection Requirements- Note which agency will do the inspection.
11. Are streets being improved?
12. Plat filed?
13. Zip code number.
14. Telephone number.
15. Work order number - obtain from Administration Division, Bureau of Engineering, ext. 3037 at initial plan submittal if combined estimated plan check fee and special inspection fee is \$100 or over.
16. "A" permit number - in conjunction with Special Deposit when sidewalk along entire frontage of project replaced and when a "B" Permit is not required.
17. Liability insurance - City Attorney's number.
18. Surety bond - City Attorney's number.
19. Miscellaneous Cash Bond Number - obtain from Cashier, Bureau of Accounting, ext. 2769, for all monies deposited for fees under a Work Order.
20. Misc. receipt number - receipt for all monies deposited under a Work Order.
21. Waiver recording number.
22. Report number - Board report number, bureau, date.

23. Special Inspection Number - used when construction not under a Work Order.
24. Special Deposit Permit Number.
25. Excavation size and type and fee breakdown.
26. Special Inspection - for inspection not under a Work Order.
27. Testing Fees - testing fees not under a Work Order.
28. Plan Check - fee for structural plan check not under a Work Order determined by Bridge and Structural Division.

(NOTE: Total of items 26, 27, and 28 may be receipted together as "Special Inspection".)

29. Bureau of Engineering issuing clerk's signature and date.
30. Receipt number and cashier's signature, or cash register imprint.
31. State Division of Industrial Safety Permit Number-Permittee must have proof of this permit before the Excavation Permit is issued.
32. Locator Code-For future use by the Bureau of Engineering .

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

OFFICE MEMORANDUM

TO _____
Director, Street Maintenance
Room 700, City Hall South

DATE _____, 19_____

Attention: Mr. L. E. Wilcox

UTILITY TRENCH - REQUEST FOR PERMISSION TO PERMANENTLY RESURFACE

The _____ has requested permission to permanently resurface the sidewalk, driveway and curb portions of their utility trench as outlined in the enclosed copy of their letter, permit application and drawings. Resurfacing will be in accordance with standard procedures.

Please indicate your approval or disapproval on this memo and return one copy to Frank V. Bonoff, Room 460, City Hall.

DONALD C. TILLMAN
City Engineer

by

Division/District
Engineer

JRP/jrp

Enclosure

We have reviewed the above request and we

_____ Approve

_____ Disapprove

By _____
Director, Street Maintenance

BOND
EXCAVATION - LATERAL SUPPORT

KNOW ALL MEN BY THESE PRESENTS.

That we, _____
(hereinafter called the Principal), as principal, and the _____
_____, a corporation organized and existing under
and by virtue of the laws of the State of _____, as Surety,
and duly licensed for the purpose of making, guaranteeing, or becoming sole
Surety upon the bonds or undertakings required or authorized by the laws of the
State of California, as Surety, are held and firmly bound unto the City of Los
Angeles, California (Hereinafter called the Obligee) in the just and full sum
of _____ Dollars

(\$ _____) lawful money of the United States of America, for the
payment of which, well and truly to be made, we hereby bind ourselves and each
of our heirs, executors, administrators, successors and assigns, jointly and
severally, firmly by these presents.

WHEREAS, the Principal contemplates construction of _____
located at _____, in the City of Los Angeles, California,
and in so doing plans to excavate into or adjacent to the public street areas at
said location, as shown on the plans and profiles on file with said City; and

WHEREAS, such excavation and construction operations are hazardous to the pub-
lic and adjacent buildings, substructures, streets, street improvement and
public utilities, and

WHEREAS, Section 62.02(j)4 of the Los Angeles Municipal Code requires the
posting of a bond where such excavation imperils the lateral support of pub-
lic street, or improvements or property therein;

NOW, THEREFORE, the condition of this obligation is such that if the principal
shall pay to the City of Los Angeles any and all loss, cost or damage sustained
by the City by reason of the excavation and construction by the principals at
the above described location, then this obligation shall be void; otherwise to
remain in full force and effect.

This bond is effective from the date hereof and for the period the excavation
remains open and incomplete, and for the further period of two years after the
completion thereof.

Dated the _____ day of _____ 19__.

(Principal)

(Surety)

NOTE:

1. If Principal is a corporation, two officers must sign and impress corporate seal.
2. All signatures must be acknowledged by a Notary Public.
3. File in triplicate.
4. Present the bond to the City Attorney for approval, Room 2100, City Hall, Los Angeles.

LOS ANGELES CITY FIRE DEPARTMENT LIST OF APPROVED
MIXTURES USED TO ABANDON UNDERGROUND ATMOSPHERIC TANKS

Formula "A"

Based on Tons of Sand

12 oz. of W.R.D.A.*
16 oz. of DAREX-AEA**
94 lbs. of Portland Cement
31.2 Gallons of water
1 ton of sand

Based on Cu. Yards of Sand

18 oz. of W.R.D.A.*
24 oz. of DAREX-AEA**
1.5 sacks of Portland Cement
47 Gallons of water
1 cu. yard of sand

- * W.R.D.A. - Water-Wetting admix
** DAREX-AEA - Air entraining admix

Method of Mixing:

Ingredients may be loaded into the transit truck and mixed, except the DAREX-AEA, which must not be used until permission is given by the Fire Inspector. It is recommended that drum revolutions of 6-10 RPM be used after the DAREX-AEA is added. Approximately 60 revolutions is required to properly loosen the material. Periodic drum reversal to aid flow of material may be necessary.

The total water content is very critical. This requires proper computation of the free-moisture content of the sand in order to provide the specified amount in the formula.

The Fire Department will greatly appreciate your cooperation in furnishing this information to all parties concerned. For additional information, call 628-6161, and ask for the Industrial and Commercial Section.

RAYMOND M. HILL
Chief Engineer and General Manager

William R. Goss
Fire Marshal

FPB #61