

# RESOLUTION OF THE CITY COUNCIL

*No.* 571

*Approved* September 28, 1998

WHEREAS, Canal Street Properties (hereinafter "Petitioner"), has sought:

(a) to construct a handicapped access ramp adjacent to its real estate located at 189 Canal Street; and

WHEREAS, said access ramp will encroach upon the public walkway; and

WHEREAS, after study of Petitioner's request, the City, acting through its appropriate authorities, has determined that the proposed encroachments are not adverse to the public interest,

NOW, THEREFORE, BE IT RESOLVED That the Petitioner is granted permission to encroach upon the public way for the purpose of constructing and maintaining a handicapped-access ramp at or near the entrance to the building located at 189 Canal Street. Provided, however, that said grant is specifically conditioned upon:

1. All construction with relation to the said ramps is to be completed in accordance with plans and specifications submitted by the Petitioner to the city Department of Inspection & Standards as those plans may have been modified and/or approved by said department, the City Department of Public Works, and the Council Committee on Public Works. (Copies of the subject plans are attached hereto).

2. The Petitioner shall supply and retain in effect a certificate of insurance in an amount of not less than one hundred thousand dollars (\$100,000.00) protecting the City of Providence and its successors and assigns, its agents, servants, officers and employees as additional-named insureds against claims for the construction, maintenance and/or existence of said ramp and wall encroachments. Said insurance shall be acceptable to the Department of Law.

3. The Petitioner shall execute an indemnification and hold harmless agreement satisfactory to the City Solicitor.

IN CITY COUNCIL  
*Aug 6, 1998*  
FIRST READING  
REFERRED TO COMMITTEE ON  
PUBLIC WORKS

*Michael R. Jones* CLERK

THE COMMITTEE ON  
PUBLIC WORKS  
Approves Passage of  
The Within Resolution

*Barbara A. Quinn*  
8/14/98 Clerk

*Councilman Fessell (By request)*

4. The Petitioner shall grant to the appropriate public utility(ies) and/or governmental agency(ies), by pertinent document, any easements, licenses, or the like, so as to maintain public services.

5. A certified copy of the within Resolution shall be recorded in the Office of Land Evidence of the City of Providence.

6. Any rights or obligations granted hereunder shall be deemed to run with the land and shall operate against any and all successors in interest and/or title .

7. Any rights or obligations granted hereunder shall remain in full force and effect for so long as the encroachment permitted hereby does not cease to be utilized for the purposes for which it was granted.

8. Such other reasonable conditions as the Mayor and/or the Department of Law may impose hereunder.

IN CITY COUNCIL  
SEP 17 1998  
READ AND PASSED

*Richard H. Fargnoli*

PRES.

*Richard H. Clement*

CLERK

**APPROVED**  
SEP 28 1998  
*Vincent A. Cianci*  
MAYOR



**YODER +  
TIDWELL, Ltd.**

**Architects and Engineers**

14 Imperial Place Suite 202  
Providence, Rhode Island 02903  
(401) 751-2480 FAX (401) 274-7517

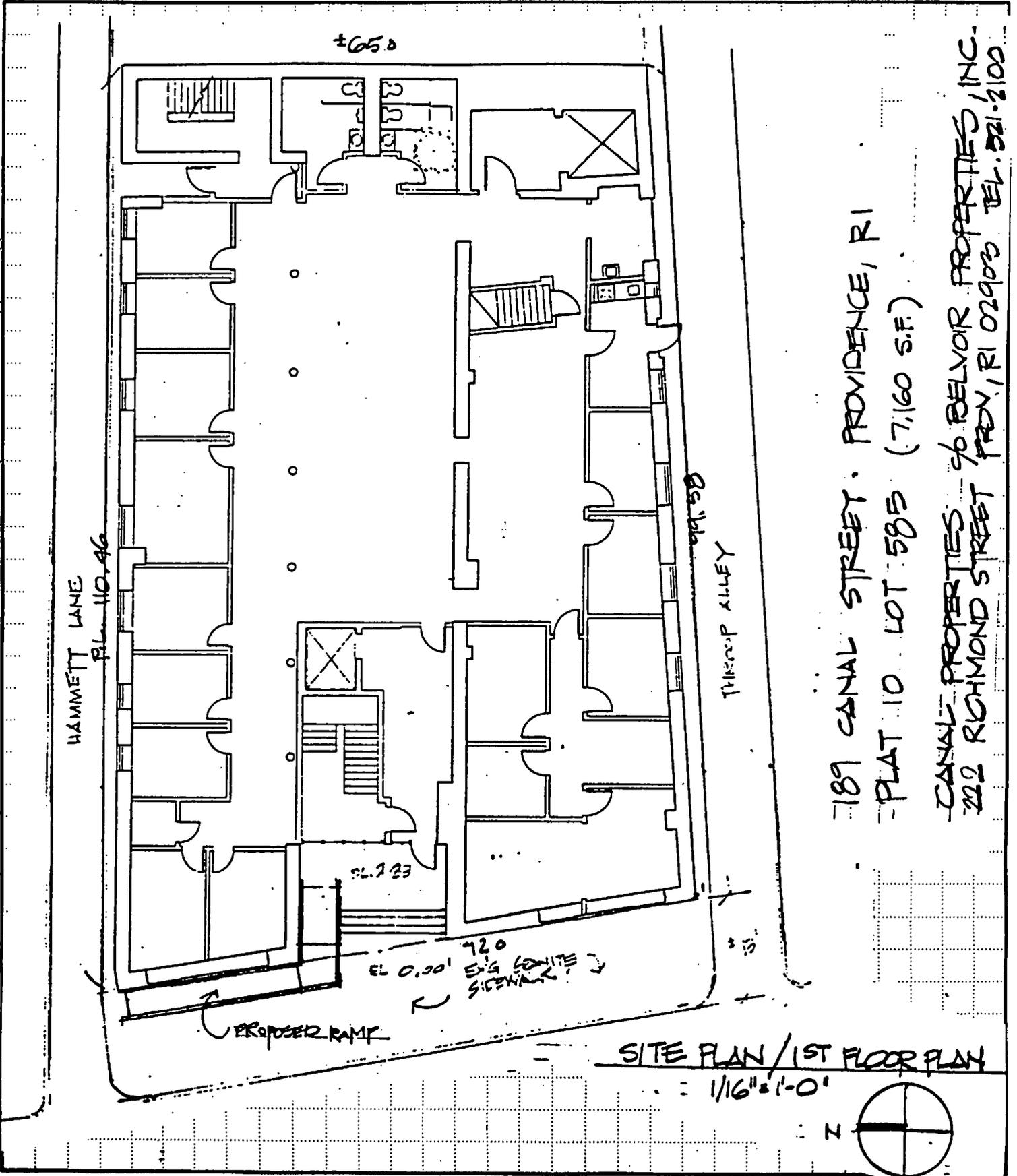
Project 189 CANAL ST. - RAMP : C. FINK, ARCHT

Sheet No. 1 of 5

Calculated by NEY Date 9/11/98

Checked by \_\_\_\_\_ Date \_\_\_\_\_

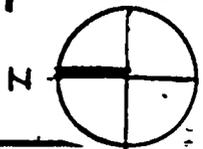
STRUCTURAL REVIEW



189 CANAL STREET, PROVIDENCE, RI  
 PLAT 10 LOT 58B (7,160 S.F.)  
 CANAL PROPERTIES - c/o BELVOIR PROPERTIES, INC.  
 222 RICHMOND STREET PRVD, RI 02903 TEL. 821-2100

SITE PLAN / 1ST FLOOR PLAN

1/16" = 1'-0"





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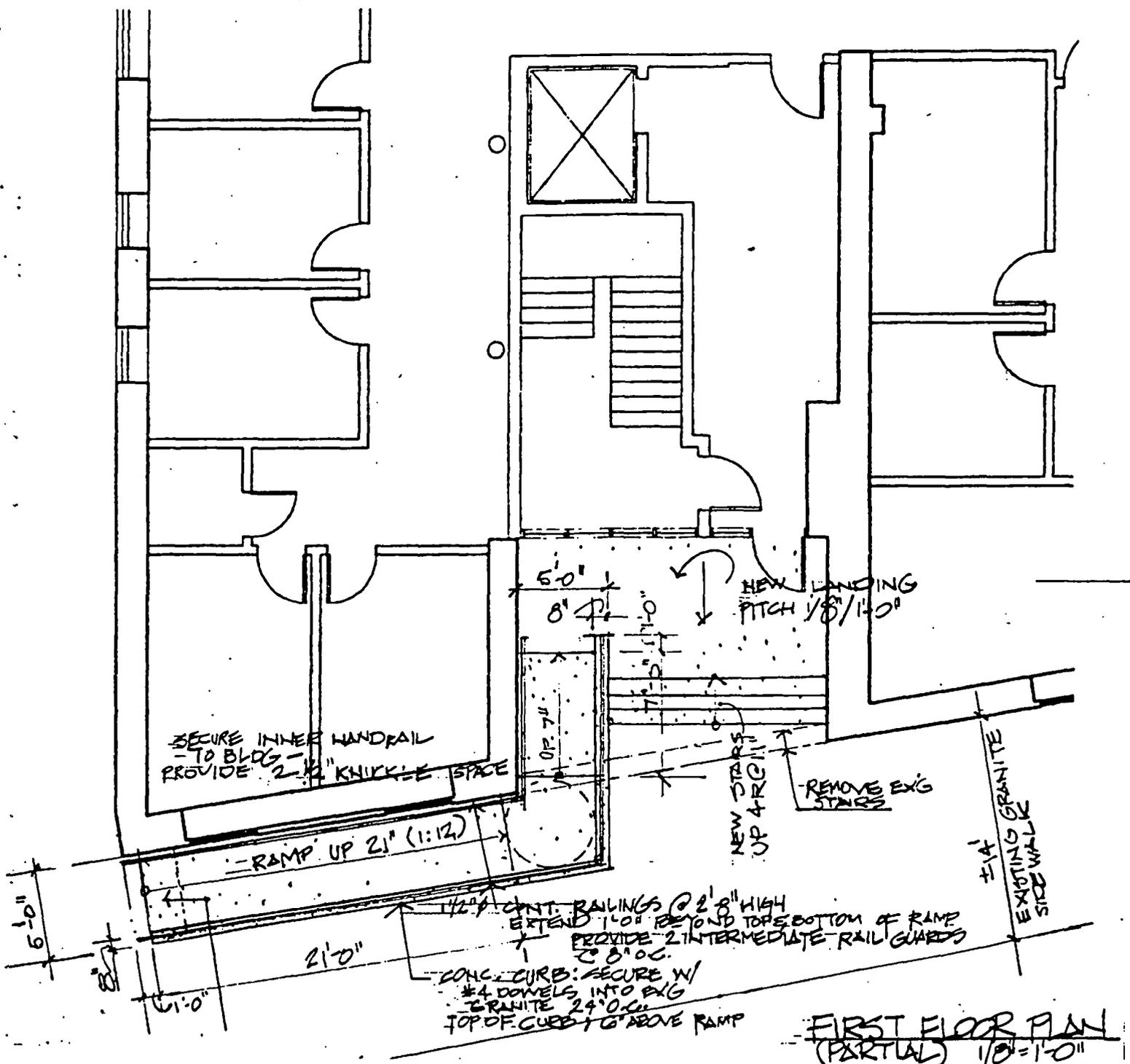
Project 189 CANAL ST. - RAMP - C.F.N.K. AREA

Sheet No. 2 of 5

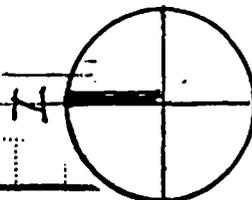
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STRUCTURAL REVIEW



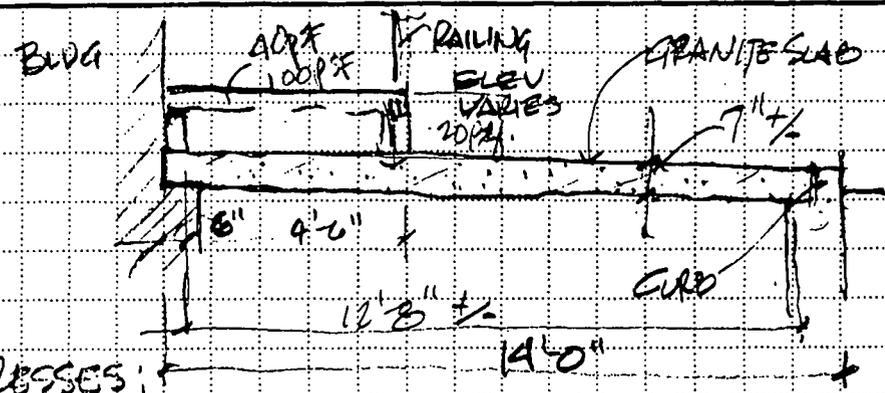
**PROPOSED RAMP FOR PHYSICALLY  
HANDICAPPED ACCESSIBILITY**





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CROSS-SECTION OF  
SIDEWALK @ RAMP  
(INFO FROM G.F.I.N.K.)



1. EXIST'G CONDITIONS & STRESSES:

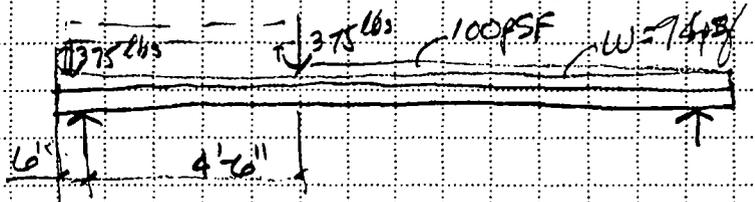
7 1/2" GRANITE SLAB DEAD LOAD = 94 psf +/- } TOTAL = 194 psf  
DESIGN LOAD (LIVE) REQ'D BY CODE = 100 psf }

MAX BENDING MOM. = 3893 FT-lbs @ 7" depth,  $S = \frac{12(7)^2}{6} = 98 \text{ IN}^3$

$f_b = \frac{M}{S} = \frac{3893(12)}{98} = 476.7 \text{ psi}$  —  $\left\{ \begin{array}{l} P.L. = 281.0 \text{ psi} \\ L.L. = 245.7 \text{ psi} \end{array} \right.$

2. PROPOSED INSTALLATION (KEEPING DEAD LOAD TO A MINIMUM):

MAX. BENDING MOM. = 4238 FT-lbs

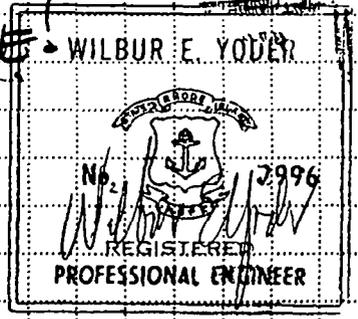


INCREASE IN STRESS  
 $= \frac{4238}{3893} = 1.089$  — 8.9% INCREASE

$f_b = 519 \text{ psi} < 600 \text{ psi}$  — SEE NEXT PAGE —

THE % INCREASE IS SLIGHT — ACCEPTABLE!

USE LIGHT CONSTRUCTION — SEE  
DETAILS ON SHEET 5 OF





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Project 189 CANAL ST. - RAMP - C. FINE, ARCHT  
 Sheet No. 4 of 5  
 Calculated by WEY Date 9/12/98  
 Checked by \_\_\_\_\_ Date \_\_\_\_\_  
STRUCTURAL ANALYSIS -

PROPERTIES/TABLES FROM "STRUCTURAL DESIGN & CONSTR. HANDBOOK"  
 5TH. ED. MCGRAW HILL 1994

**TABLE 4.9 Strength Characteristics of Commercial Building Stones**

Stone	Compressive strength, psi, range	Modulus of rupture, psi, range	Shear strength, psi, range	Tensile strength, psi, range	Elastic modulus, psi, range	Toughness		Wear resistance	
						Range	Avg	Range	Avg
Granite	7,700-60,000	1,430-5,190	2,000-4,800	600-1,000	5,700,000-8,200,000	8-27	13	43.9-87.9	60.8
Marble	8,000-50,000	600-4,900	1,300-6,500	150-2,300	7,200,000-14,500,000	2-23	6	6.7-41.7	18.9
Limestone	2,600-28,000	500-2,000	800-4,580	280-890	1,500,000-12,400,000	5-20	7	1.3-24.1	8.4
Sandstone	5,000-20,000	700-2,300	300-3,000	280-500	1,900,000-7,700,000	2-35	10	1.6-29.0	13.3
Quartzite	16,000-45,000					5-30	15		
Serpentine	11,000-28,000	1,300-11,000		800-1,600	4,800,000-9,600,000			13.3-111.4	46.9
Basalt	28,000-67,000					5-40	20		
Diorite	16,000-35,000					6-38	23		
Syenite	14,000-28,000								
Slate		6,000-15,000	2,000-3,600	3,000-4,300	9,800,000-18,000,000	10-56		5.6-11.7	7.7
Diabase						6-50	19		
Building limestone						3-8	4.4		

**4.24 PROPERTIES OF BUILDING STONES**

Data on the strength of building stones are presented in Table 4.9, summarized from *U.S. National Bureau of Standards Technical Papers*, No. 123, B. S. Vol. 12; No. 305, Vol. 20, p. 191; No. 349, Vol. 21, p. 497; *Journal of Research of the National Bureau of Standards*, Vol. 11, p. 635; Vol. 25, p. 161). The data in Table 4.9 pertain to dried specimens. Strength of saturated specimens may be either greater or less than that of completely dry specimens.

The modulus of rupture of dry slate is given in Table 4.9 as ranging from 6000 to 15,000 psi. Similar slates, tested wet, gave moduli ranging from 4700 to 12,300 psi. The ratio of wet modulus to dry modulus varied from 0.42 to 1.12 and averaged 0.73.

Data on the true specific gravity, bulk specific gravity, unit weights, porosity, and absorption of various stones are given in Table 4.10.

**TABLE 4.10 Specific Gravity and Porosity of Commercial Building Stones**

Stone	Specific gravity		Unit weight, lb per cu ft	Porosity, %	Absorption, %	
	True	Bulk			By weight	By volume
Granite	2.599-3.080	2.60-3.04	157-187	0.4-3.8	0.02-0.58	0.4-1.8
Marble	2.718-2.879	2.64-2.86	165-179	0.4-2.1	0.01-0.45	0.04-1.2
Limestone	2.700-2.860	1.87-2.69	117-175	1.1-31.0		6-15
Slate	2.771-2.898	2.74-2.89	168-180	0.1-1.7	0.00-1.63	0.3-2.0
Basalt		2.9-3.2				
Soapstone		2.8-3.0				
Gneiss		2.7-3.0				
Serpentine		2.5-2.8	158-183			
Sandstone		2.2-2.7	119-168	1.9-27.3		6-18
Quartzite			165-170	1.5-2.9		



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Project 189 CANAL ST. - RAMP CIVIL ARCHT.

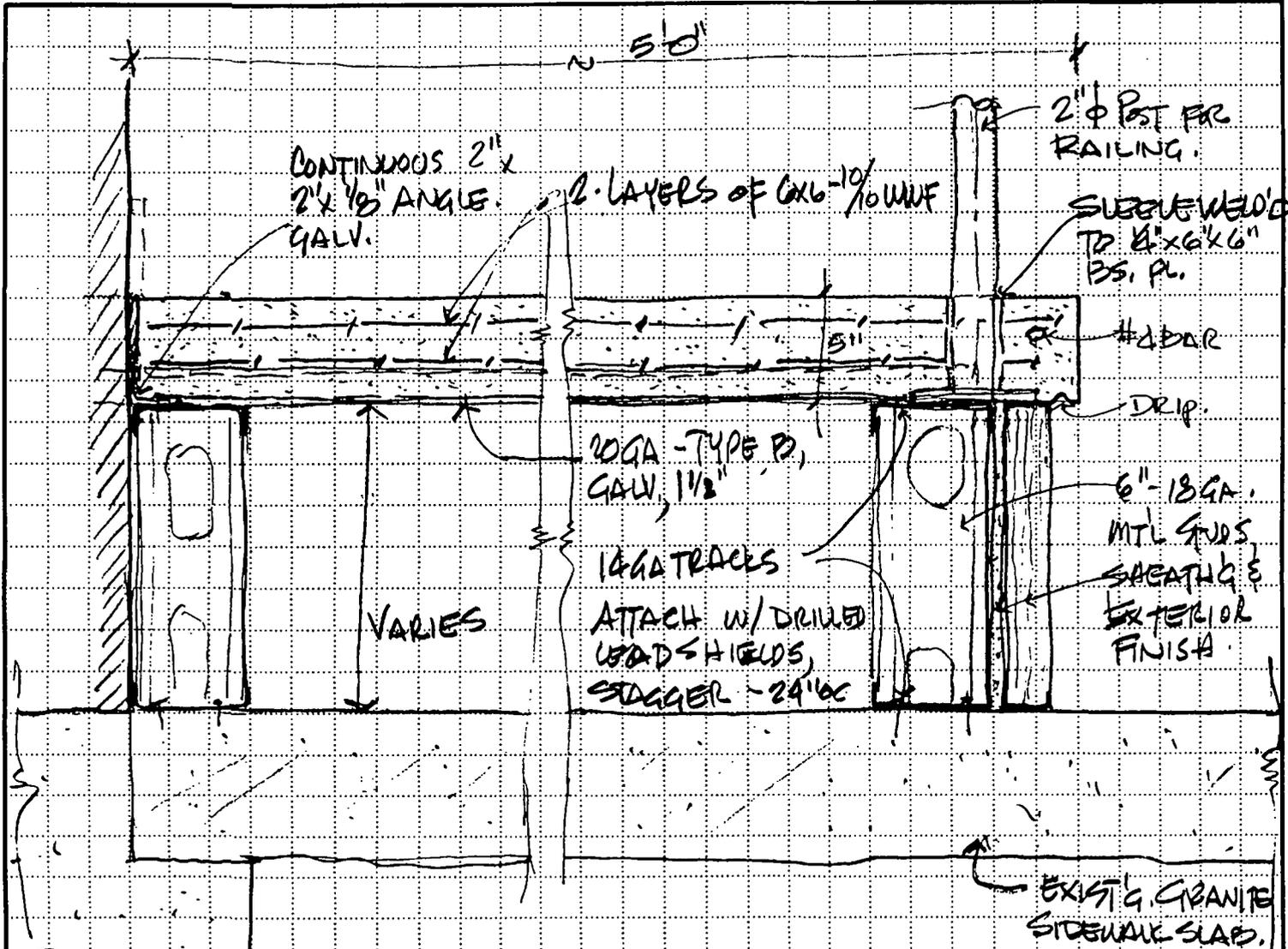
Sheet No. 5 of 5

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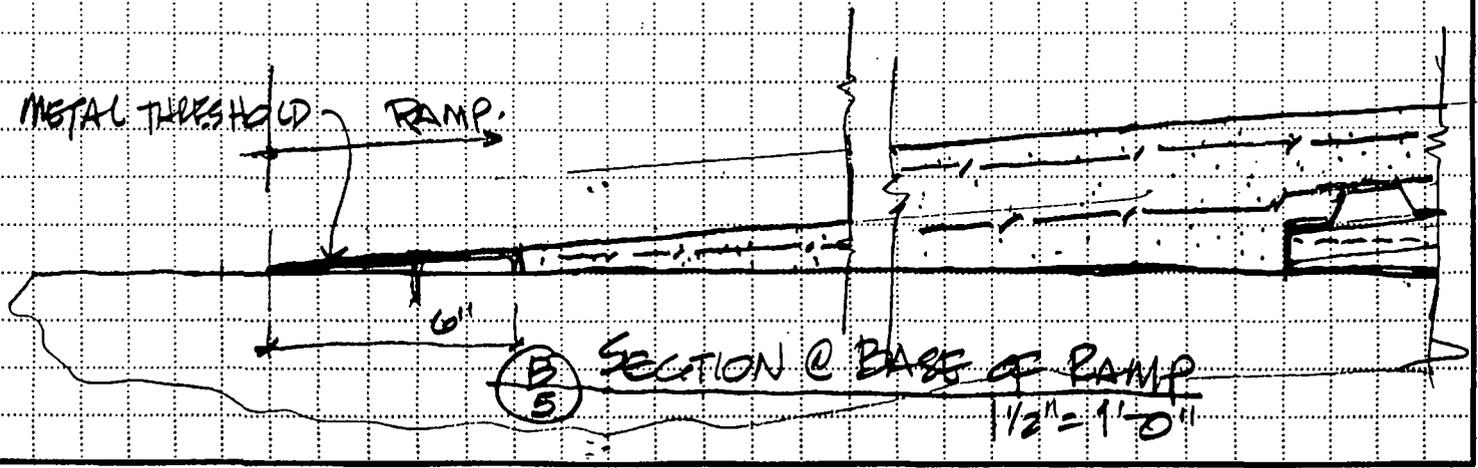
Checked by \_\_\_\_\_ Date \_\_\_\_\_

STRUCTURAL DETAILS

14 Imperial Place Suite 202  
Providence, Rhode Island 02903  
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(A) CROSS-SECTION - RAMP  
1/2" = 1'-0"



(B) SECTION @ BASE OF RAMP  
1/2" = 1'-0"



## Department of Inspection and Standards

*"Building Pride In Providence"*

### MEMO

To: Councilman Robert M. Clarkin  
Chairman, Committee on Public Works

From: Ramzi J. Loqa, Director *RJL*

Date: September 10, 1998

Re: Handicap Ramp at 189 Canal Street

Please be advised that the proposed ramp is in compliance with the R.I. State Building Code, SBC-16 Handicap Regulations, except for the following:

1. Top of handrail gripping surfaces shall be mounted between 34" and 38" above ramp surfaces and not 32", as indicated on attached sketch. Also, the size of the handrail gripping surface is not indicated.
2. Since the ramp is rising 21" and 7" from sidewalk level, vertical guards must be placed at 4" clear spacing between handrails.
3. Ramp edge protection is not shown on attached sketch.
4. Architect must investigate whether there is a vault under this particular sidewalk, and if it exists then its structural roof framing must be reviewed to insure it can withstand the additional dead load generated by this ramp.

Also, this location happens to fall within the Downcity Overlay Zone and, therefore, it requires an approval from the Downcity Review Committee located at the Planning Department.

RJL:np

James F. Rattigan  
Chief of Department  
David D. Costa  
Fire Marshal



Vincent A. Cianci Jr.  
Mayor  
John J. Partington  
Commissioner

**PROVIDENCE FIRE PREVENTION DIVISION**  
*"Smoke Detectors Save Lives"*

August 24, 1998

Chairman Robert M. Clarkin  
Committee on Public Works  
City Hall  
Providence, RI 02903

Re: Handicap Ramp – 189 Canal Street

Dear Chairman Clarkin,

After review of the proposal to use a portion of the sidewalk in front of 189 Canal Street for a handicap ramp (see attached), the Fire Department has no objection provided the ramp is constructed to meet the requirements of the 1997 Edition of the Life safety code.

A handwritten signature in black ink, appearing to read "David D. Costa".

David D. Costa  
Fire Marshal

IRENE J. TESTA  
Traffic Engineer



VINCENT A. CIANCI, JR.  
Mayor

JOSEPH W. CAPRIO  
Deputy Director

Department of Traffic Engineering  
"Building Pride In Providence"

MEMORANDUM

TO: Councilman Robert Clarkin, Chairman  
Committee on Public Works

FROM: Irene J. Testa *Irene J. Testa*

DATE: 9/8/98

RE: PENDING RESOLUTION

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Request: RESOLVED, that the Providence City Council authorizes Canal Street Properties, c/o Belvair Properties, Inc., to construct a Handicap Ramp at 189 Canal Street and permit the use of a certain portion of the sidewalk.

Disposition: No objection to said ramp provided that the remaining portion of the sidewalk can accommodate wheel chair passage.