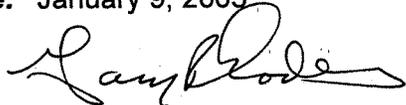


1/13
3

TOWN OF ACTON
Building Department

INTERDEPARTMENTAL COMMUNICATION

To: Board of Selectmen **Date:** January 9, 2003
From: Garry A. Rhodes, Building Commissioner 
Subject: Restaurant Special Permit #11/04/02-385/Common Victuller's (Hunter)
Starbucks Coffee, 411 Mass Ave.

The Board of Selectmen continued the hearing from December 16, 2002 until January 13, 2003 at 7:10 PM. The hearing was continued to allow the applicant time to revise the plans. The Board of Selectmen were concerned about sidewalks and traffic flow.

The plans have been revised in an attempt to address your concerns. The sidewalk has been extended to allow for better pedestrian access from Mass. Ave. and Roche Plaza. The layout of the driveway has been revised. They have created a bypass as well as some queuing room for the ATM. They also removed all parking from No-name.



FSL Associates, Inc.

18 Shepard Street, Brighton, MA 02135

Environmental Consultants & Remediation Contractors

617-787-1440

Fax 617-787-5843

Fax Cover Sheet

DATE: January 6, 2003

TIME:

TO: Cory
Acton Engineering Dept

PHONE: 978-264-9628

FAX: 978-264-9630

FROM: Ron Tiberi

RE: Starbucks Revised filing

Number of pages including cover sheet: 7

MESSAGE :

Good morning- I am faxing the backup drainage computations for the site plans
 You should have original drawings Today.
 I did make the change to a drywell as you requested to pick up the incremental change in
 the drainage runoff.
 We have also made an effort to address the comments presented in the original filing

Should you have any questions or comments please call

Thank You

Ron



18 Shepard Street
Brighton, MA 02135
(617) 787-1440
Fax: (617) 787-5843

MEMORANDUM

Date: 1/6/02
Re: 411 - Mass Ave
To: SF Dept
From: Ron T.
Copies to: ACTON Eng Dept

Summary -

- 1) Net additional Impervious Area = 150 SF (see Attached)
- 2) slope remain consistent
- 3) 100 yr Flow Rate computed by Rational method

Pre = 0.25 CFS
Post = 0.30 CFS

Net Increase 0.5 CFS.

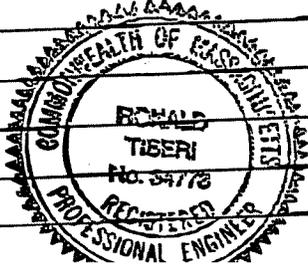
- 4) As request by engineering we have called for a catchbasin w/ 4' sump & hood to location, Drywell

- 5) Storage capacity for rain event required - 35 cu

Storage available by drywell and stone at 30% porosity exceeds 57 cu

Provides adequate storage and recharge.

OK ✓



ACTON Pre Post Dev Runoff

Rational Method

Given Input Data:

Description acton

Area ity Description	Flow Description cfs	Area mi2	Coef	Tc hrs	Intens in/hr
00 AA	0.2955	0.0001	0.9500	0.0134	8.10
00 BB	0.2462	0.0001	0.9500	0.0134	8.10

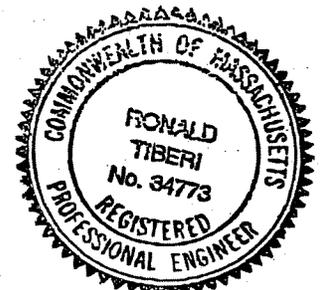
Support Data:



Storage Basin Required

Basin Output

Pond Name	Type III
Distribution Type	100 years
Frequency Type	0.0001 mi ²
Area	0.2955 cfs
Peak Inflow	0.2462 cfs
Peak Outflow	1.0000 in
Runoff	232.4114 ft ³
Runoff Volume	38.1172 ft ³
Storage Volume	0.0000 ft
Maximum Storage Elevation	



Plan For:



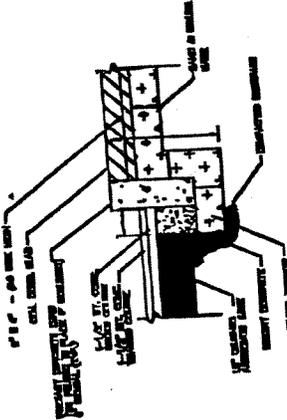
Detail Sheet
411 Massachusetts Ave.
Acton MA



18 Shappard Street
Boston MA 02196
(617) 781-1440

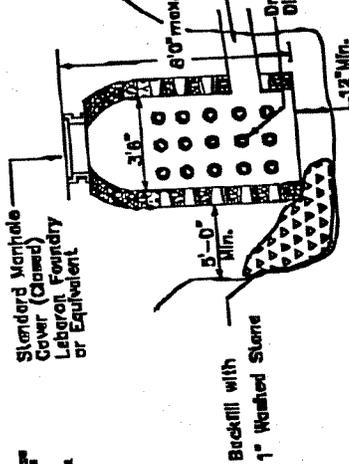
Soalan, An. Richard
Boston 18-10-08
Drawn By: RL

CONCRETE CURB, PAVEMENT AND SIDEWALK
1. CONCRETE SHALL BE 4000 PSI MIN. AFTER 28 DAYS
2. FRAMES & COVER SHALL BE #20 RATED
3. DRYWELL- SHAW CONCRETE ITEM NO. DW-MDW35WC OR EQUIVALENT

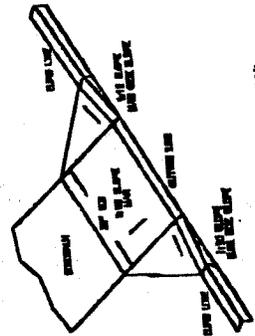


CONCRETE CURB, PAVEMENT AND SIDEWALK
N.T.S.

- Notes:
- 1. Concrete 4000 PSI Min. After 28 Days
 - 2. Frames & Cover Shall Be #20 Rated
 - 3. Drywell- Shaw Concrete Item No. DW-MDW35WC or Equivalent

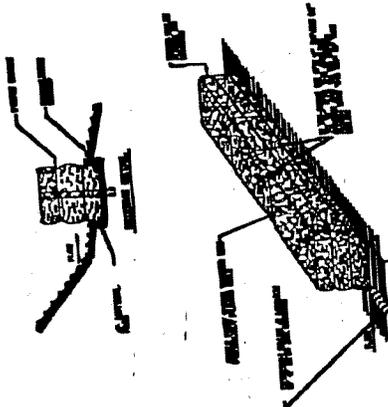


DRYWELL DETAIL
N.T.S.

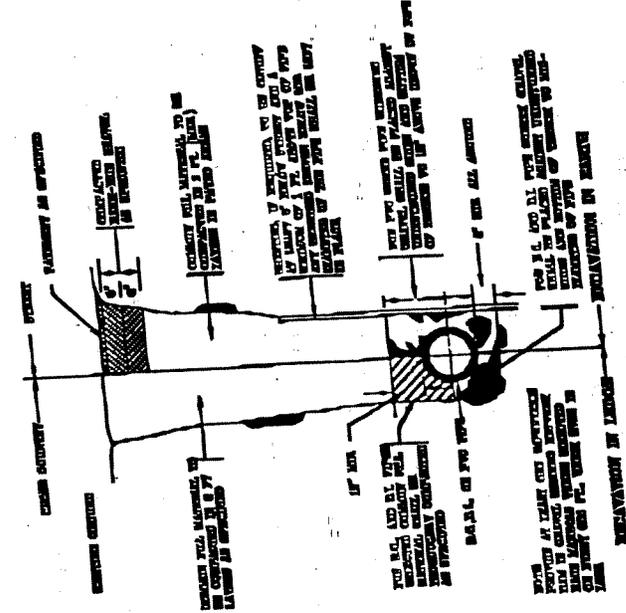


HANDICAP RAMP DETAIL
N.T.S.

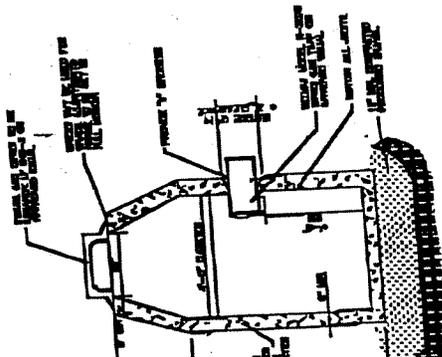
All dimensions & materials shall conform with the latest International Building Code.



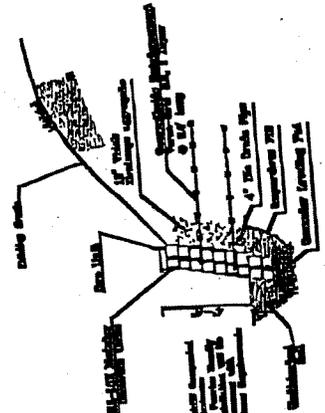
STRAW BALE DIKE
N.T.S.



TYPICAL TRENCH DETAIL
N.T.S.



PRECAST CATCH BASIN
N.T.S.



VERTICAL SECTION OF PRECAST CATCH BASIN
N.T.S.