

**PROJECT:                    BRANDON TOWN CENTER  
                                  BRANDON, FL**

**DATE:                        FEBRUARY 10, 1994**

**Air infiltration test per ASTM E283-86**

**Static water penetration test per ASTM E331-86**

**Uniform structural load test at 1.5 x design overload ASTM E330-84**



781 East Washington Boulevard  
P.O. Box 880550, Hunter's Point Shipyard Bldg. 114  
5427 East La Palma Avenue

• Los Angeles, California 90021 • (213) 749-3411 • Fax: (213) 746-7228  
• San Francisco, California 94188 • (415) 330-3000 • Fax: (415) 822-5864  
• Anaheim, California 92807 • (714) 693-1026 • Fax: (714) 693-1034

File No. 63587  
Laboratory No. 94-E-111  
P.O. #4619

February 18, 1994

Metcoe Specialties  
1715 W. 135th Street  
Gardena California 90249  
Attn: Morris

PROJECT: Brandon Town Center

SUBJECT: Mock-Up Test

### REPORT OF TESTS

Location of Test: Smith-Emery Company  
Los Angeles, California

Date: February 10, 1994

AIR INFILTRATION TEST (Ref: ASTM E 283)

#### Test Procedure

The window system was covered with polyethylene sheeting. A positive pressure of 6.24 PSF was developed. The air flow, in CFM, required to maintain this pressure was recorded. This number represents the air flow through the chamber. The sheeting was removed and the positive pressure of 6.24 PSF was reestablished. The air flow was recorded.

NOTE: The difference between the air flow with and without the sheeting represents the air flow through the window system.

#### Acceptance Criteria

The maximum amount of air infiltration is 0.06 CFM per square foot of window area. Maximum flow = 70 S.F x 0.06 CFM/S.f of fixed wall area = 4.2 CFM.

#### Test Results

Initial Reading = 6 CFM  
Gross Reading = 7 CFM  
Net = 1 CFM

ACCEPTABLE

SMITH-EMERY COMPANY

File No. 63587  
Laboratory No. 94-E-111  
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Page 2

STATIC WATER PENETRATION TEST (ASTM E 331)

Test Procedure

A positive test pressure of 12 PSF was established. Water was applied to the exterior of the mock-up at a rate of 5 GPH per square foot for a period of fifteen minutes. During this period, the interior of the mock-up was inspected for water penetration.

Acceptance Criteria

No water infiltration is allowed.

NOTE: AAMA 501-83-1.3- "For these specifications water leakage is defined as any uncontrolled water that appears on any normally exposed interior surfaces that is not contained or drained back to the exterior, or that can cause damage to adjacent materials or finishes. Water contained within drained flashings, gutters and sills is not considered water leakage. The collection of up to one half ounce of water (14.8cc) in a 15 minute test period on top of an interior stop or stool integral with the wall system shall not be considered water leakage.

Test Results

ACCEPTABLE

NOTE: Perimeter flashing was caulked to chamber prior to performance of tests.

Respectfully submitted,

SMITH-EMERY COMPANY

  
James E. Parker

Registered Civil Engineer #41507  
Registration Expires 12/31/95

JEP/jt

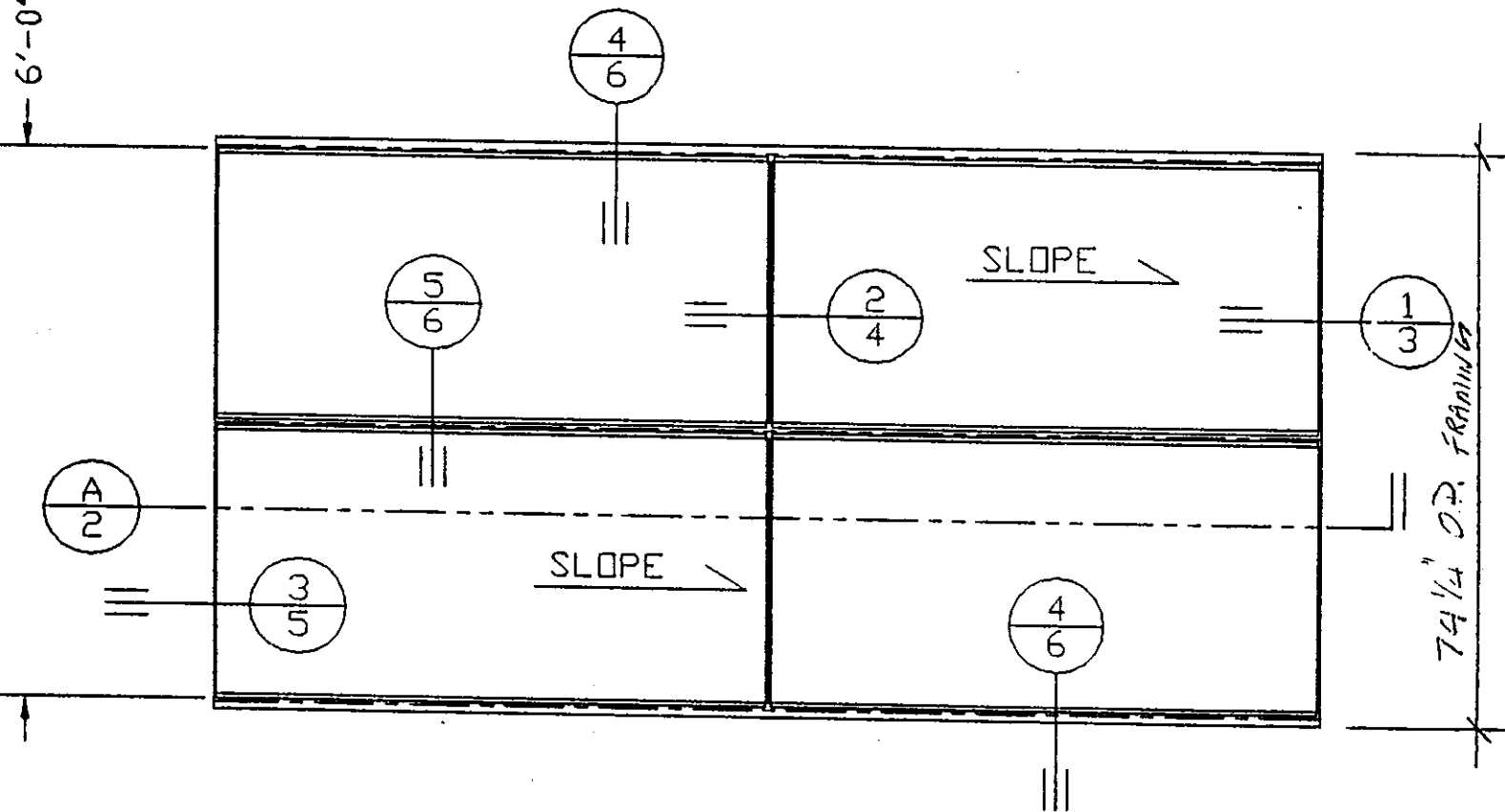
# SPECIFICATIONS

Air Infiltration: Air leakage shall not exceed 0.06 cfm per square foot of surface area when tested in accordance with ASTM E283 at differential static pressure of 20% of full positive design wind load with minimum of 6.24 psf.

MAXIMUM DESIGN WIND LOAD: 58.2 psf.

Water infiltration: No uncontrolled leadage when tested in accordance with ASTM E331 at test pressure of 20% of full positive design wind load with minimum of 6.24 psf.

6'-0" CL TO CL RAFTER



## MOCK-UP PLAN

SCALE: 1/2" = 1'-0"



1715 West 135th Street  
Gardena, CA 90249  
FAX: [REDACTED]  
Phone: 213/770-0639

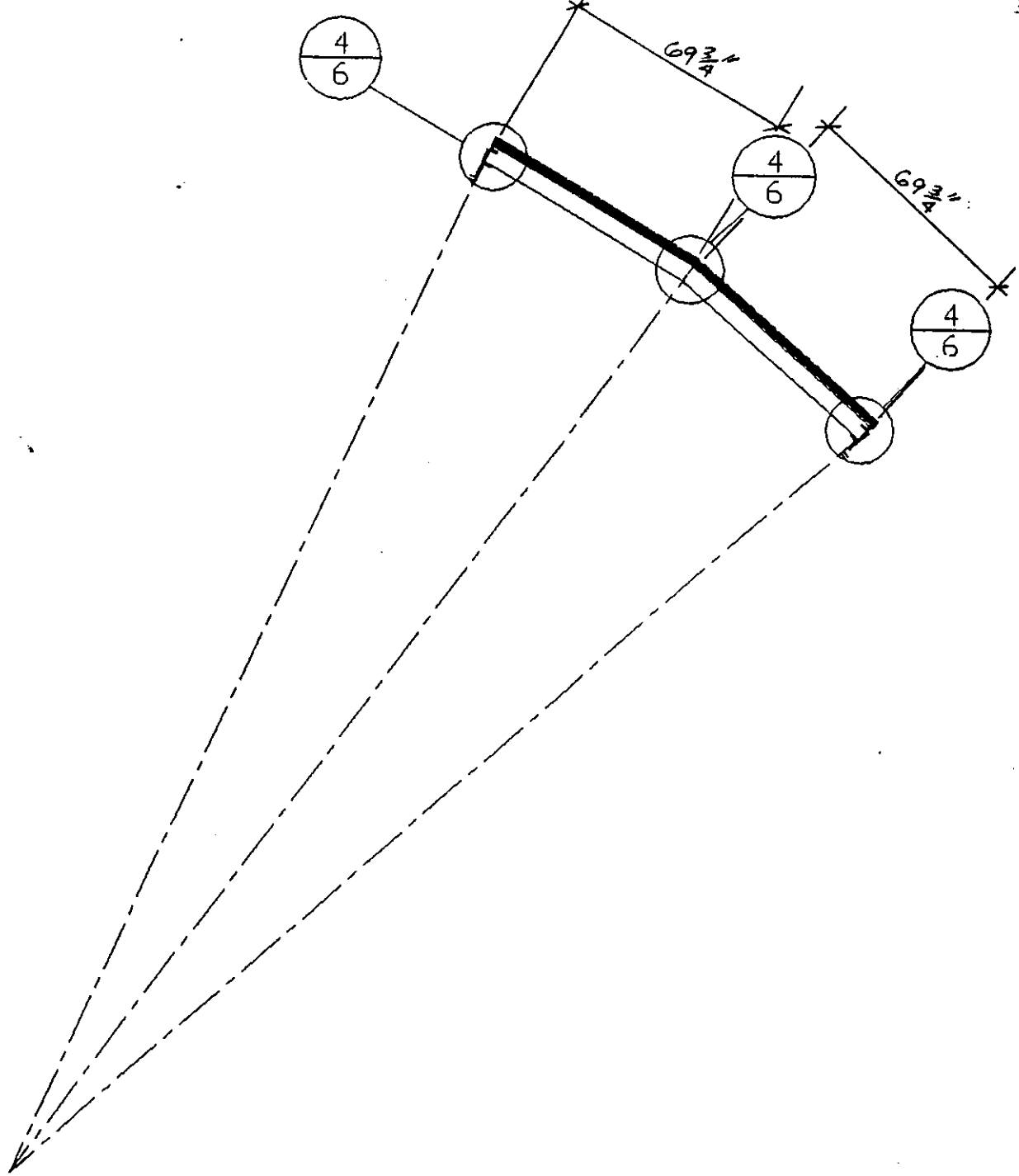
## DETAILS

**JOB NAME:** BRANDON TOWN CENTER  
**CONTR.** HARDIN CONSTRUCTION CO.

**JOB NO:** 93710

**DATE:** 01-13-94

**SHEET NO:** 1 OF 6



SECTION

SCALE: 1/4" = 1'-0"



1715 West 135th Street  
 Gardena, CA 90249  
 FAX: ~~XXXXXXXXXX~~  
 Phone: 213/770-0639

**DETAILS**

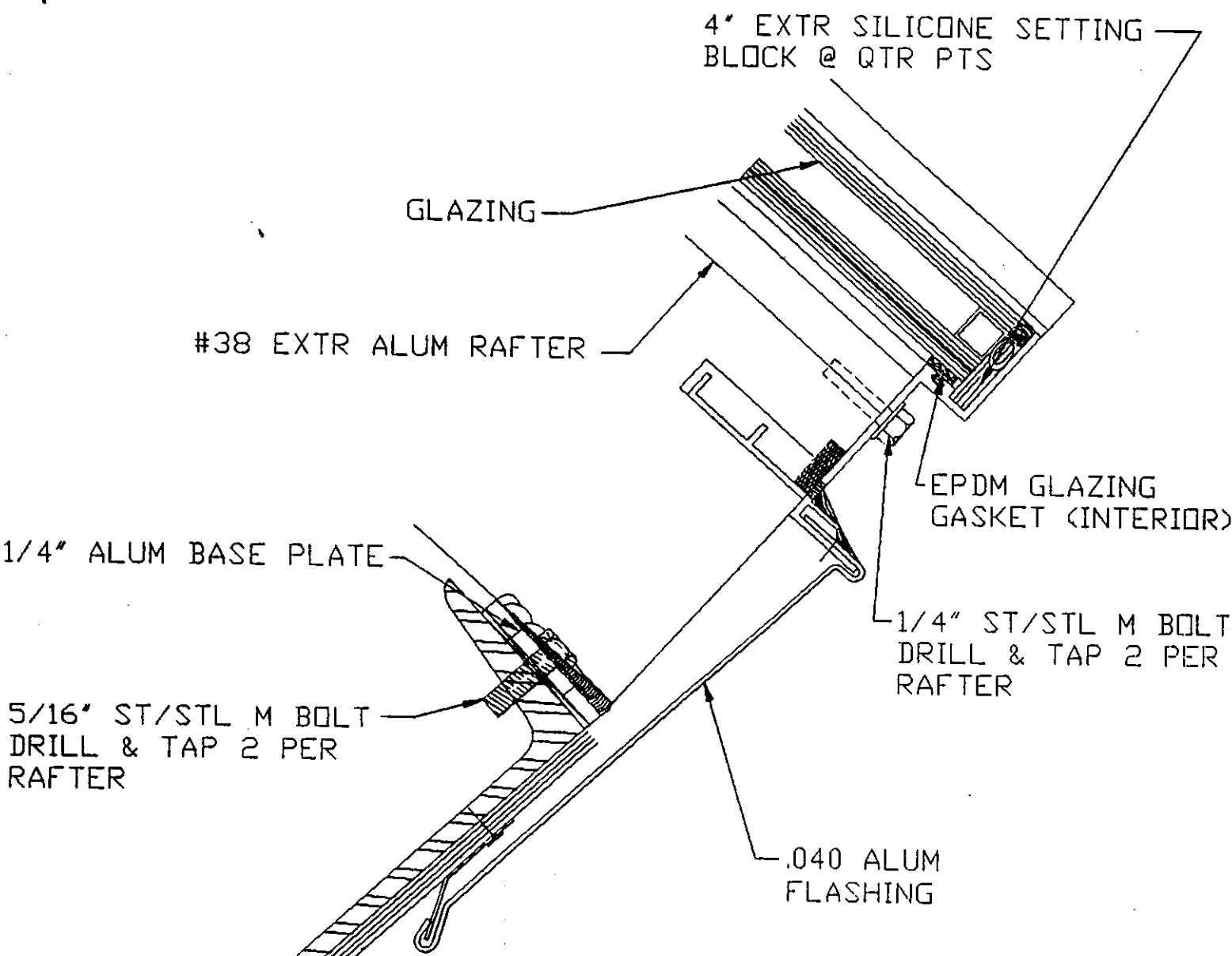
**JOB NAME:** BRANDON TOWN CENTER  
**CONTR.** HARDIN CONSTRUCTION CO.

**JOB NO:** 93710

**DATE:** 01-19-94

**SHEET NO:** 2 OF 6

NOTE: SKYLIGHT MOCK-U. PERIMETER AND CURB BY TESTING LABORATORY PER THEIR REQUIREMENT.



# SILL DETAIL

HALF SCALE

1



1715 West 135th Street  
Gardena, CA 90249  
FAX: [REDACTED]  
Phone: 213/770-0639

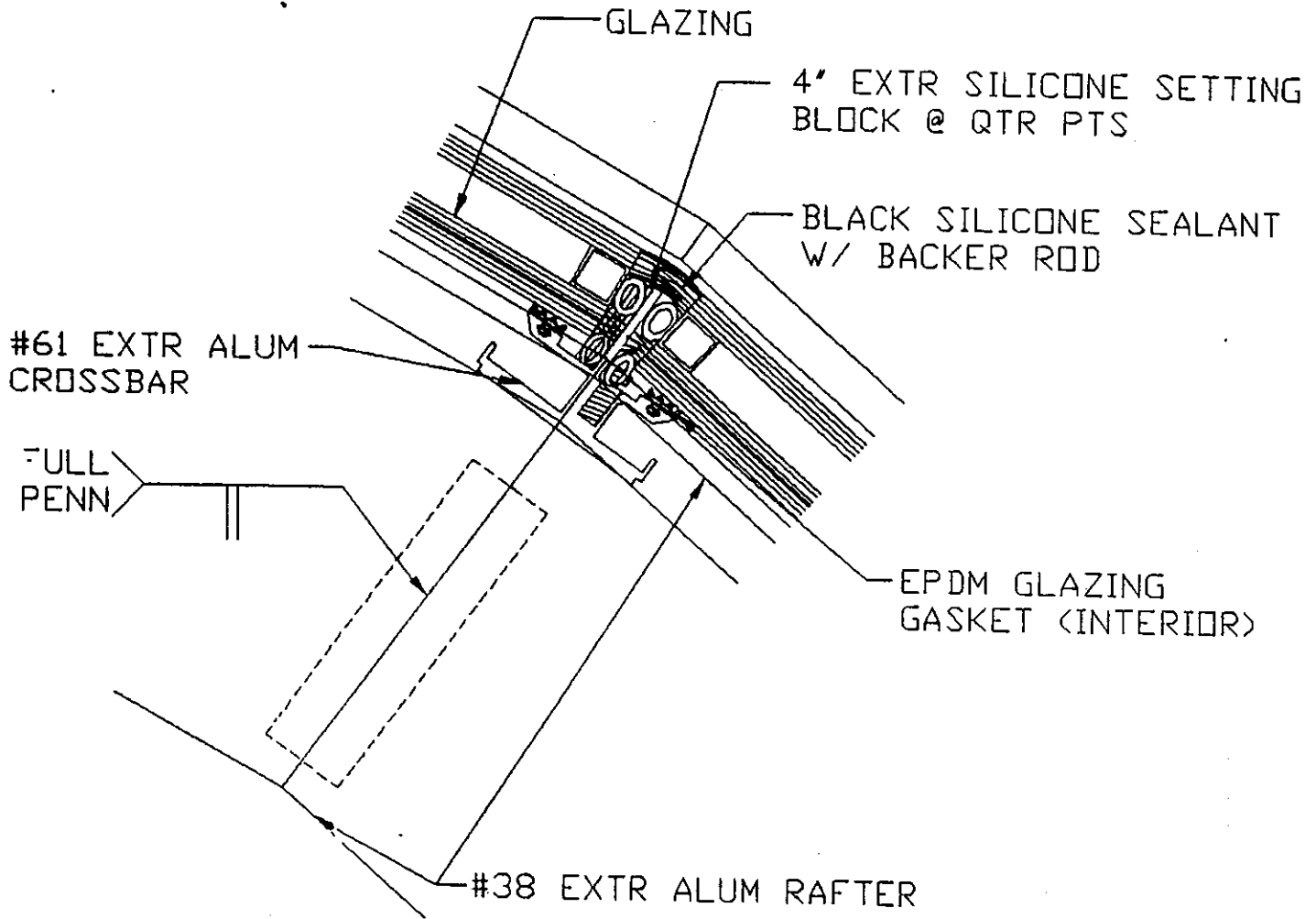
## DETAILS

JOB NAME: BRANDON TOWN CENTER  
CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-13-94

SHEET NO: 3 OF 6



# CROSSBAR DETAIL

HALF SCALE

2



1715 West 135th Street  
 Gardena, CA 90249  
 FAX: [REDACTED]  
 Phone: 213/770-0639

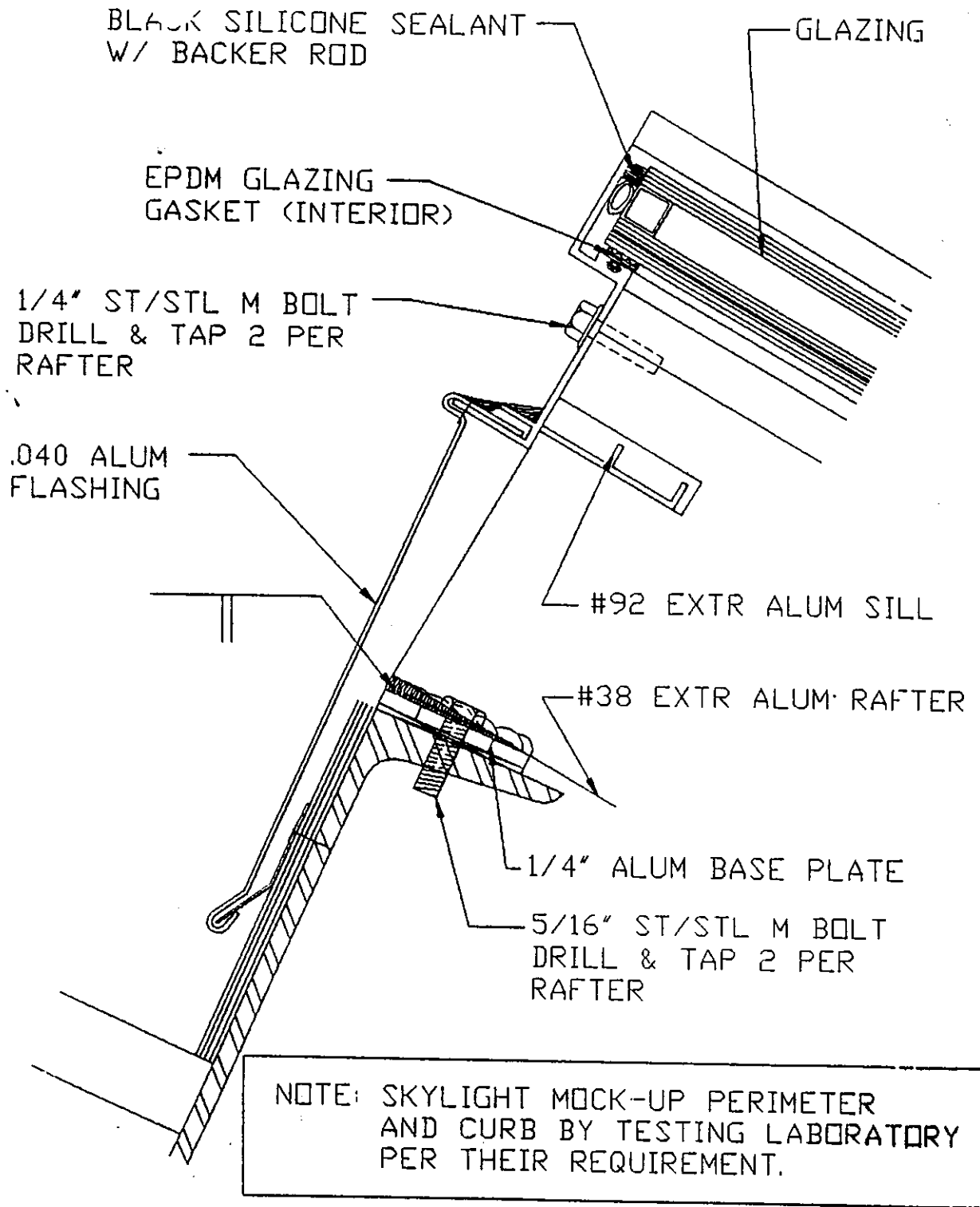
## DETAILS

JOB NAME: BRANDON TOWN CENTER  
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-19-94

SHEET NO: 4 OF 6



# HEAD DETAIL

HALF SCALE

3



1715 West 135th Street  
 Gardena, CA 90249  
 FAX: ~~213/770-0639~~  
 Phone: 213/770-0639

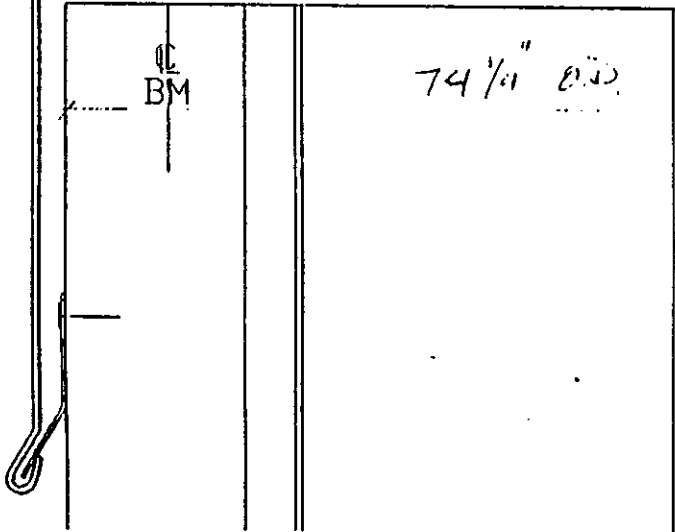
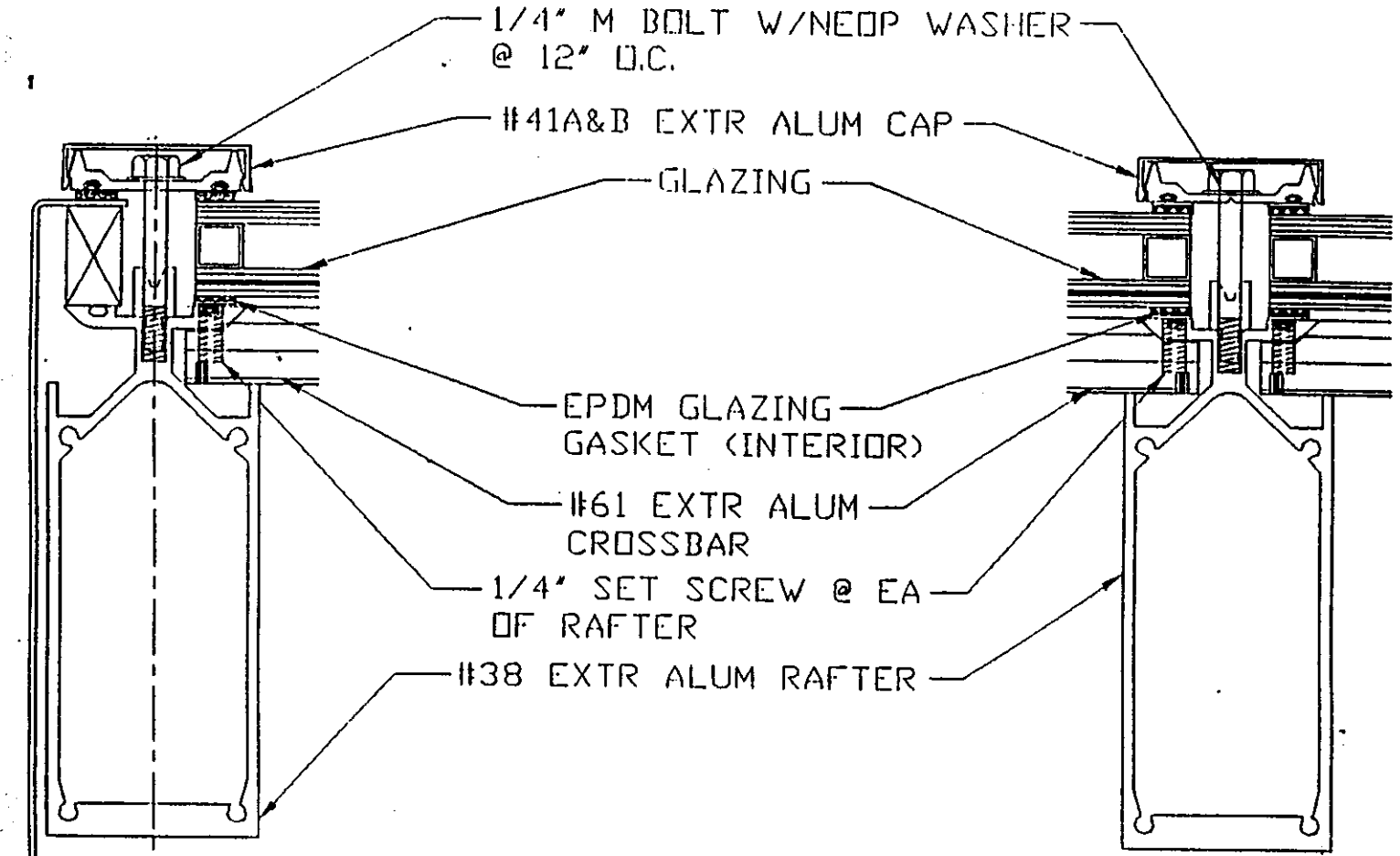
## DETAILS

JOB NAME: BRANDON TOWN CENTER  
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710

DATE: 01-19-94

SHEET NO: 5 OF 6



TYP RAFTER 5  
 HALF SCALE

NOTE: SKYLIGHT MOCK-UP PERIMETER AND CURB BY TESTING LABORATORY PER THEIR REQUIREMENT.

END DETAIL 4  
 HALF SCALE



1715 West 135th Street  
 Gardena, CA 90249  
 FAX: 213/770-0639  
 Phone: 213/770-0639

**DETAILS**

JOB NAME: BRANDON TOWN CENTER  
 CONTR. HARDIN CONSTRUCTION CO.

JOB NO: 93710  
 DATE: 01-19-94  
 SHEET NO: 6 OF 6



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REVISED: February 23, 1994

File No. 63587  
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February 18, 1994

Metcoe Specialties  
1715 W. 135th Street  
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Attn: Morris

PROJECT: Brandon Town Center

SUBJECT: Mock-Up Test

REPORT OF TESTS

Location of Test: Smith-Emery Company  
Los Angeles, California

Date: February 10, 1994

Uniform Structural Load test at 1.5 x design per ASTM E 330  
Design Load 58.3 PSF  
1.5 x design 87.4 PSF

A positive uniform of 87.4 PSF was applied to the sky lite for a period of 10 seconds after load was reached. Deflection readings were taken. See attached sheet for locations and readings.

ACCEPTANCE CRITERIA

Deflection of aluminum members shall not exceed  $L/175$  or  $3/4"$  whichever is less.

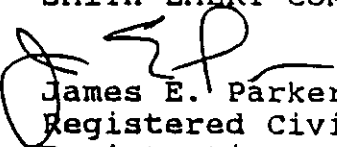
No failure to structural members or glass breakage is allowed.

TEST RESULTS

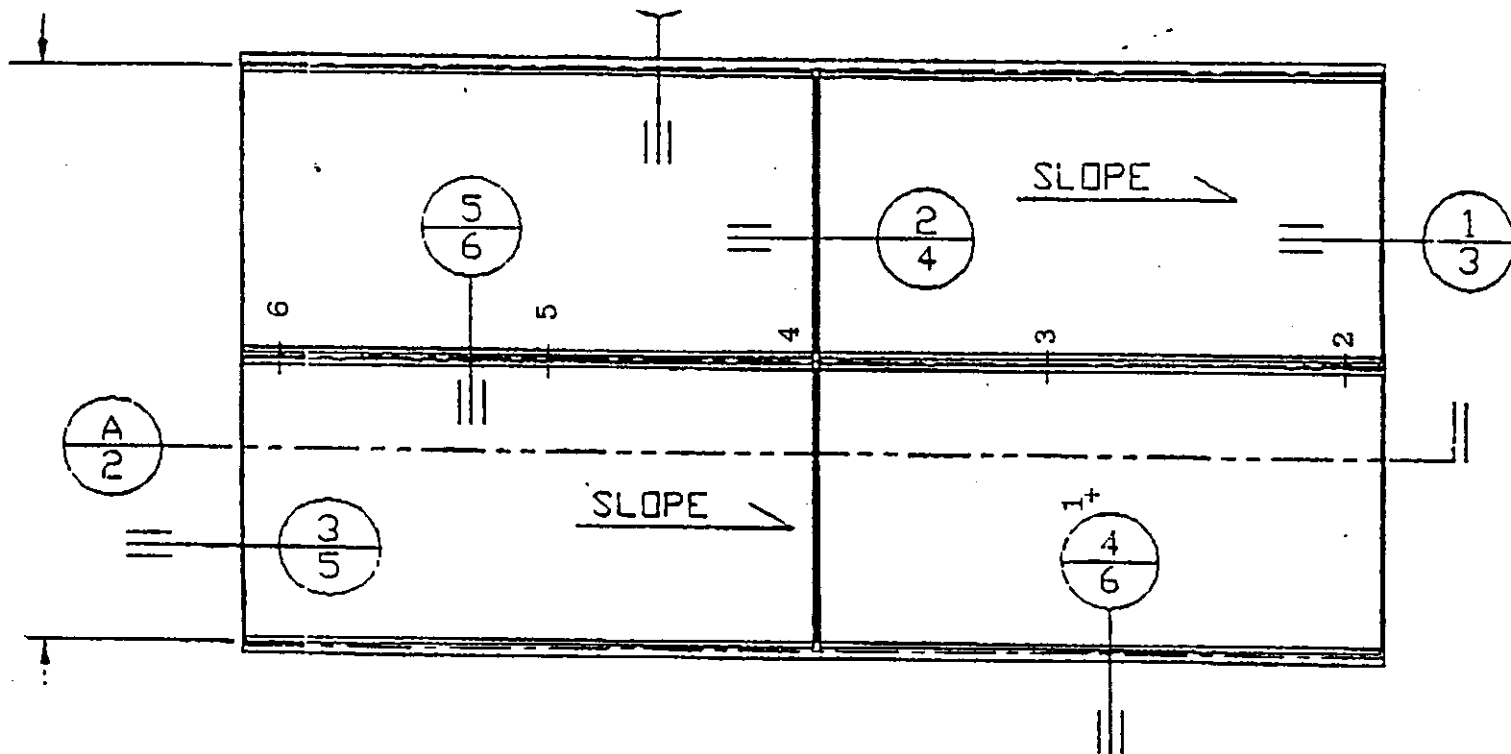
ACCEPTABLE

Respectfully submitted,

SMITH-EMERY COMPANY

  
James E. Parker  
Registered Civil Engineer #41507  
Registration Expires 12/31/95

JEP/jt



## MOCK-UP PLAN

### Deflection at 87.4 PSF Positive Load

1.	.484
2.	.025
3.	.440
4.	.608
5.	.440
6.	.014

### Final Set after Load was Released

1.	.012
2.	.007
3.	.019
4.	.033
5.	.020
6.	.005

