

Partner for Professional Solutions
in Roofing and Waterproofing



KEMPER
SYSTEMS

Via Fax (212) 219-0059
& Regular Mail

September 12, 1998

Mr. Juan M. Mejia, AIA
Swanke Hayden Connell & Partners LLP
295 Lafayette Street
New York, NY 10012

Re: OEM Radio Equipment Room
7 World Trade Center, NY, NY

Dear Juan:

As discussed, the new concrete curbs for the above project may be poured directly on the existing Kemperol membrane. Before pouring the new concrete, the existing membrane must be protected from alkalinity in the cement by applying two (2) coats of Primer D (@ 0.8-1.0 gal/100 SF) and broadcasting kiln-dried silica sand into second wet coat of primer. The above protective measures are mandatory in all areas where concrete is to be placed over Kemperol waterproofing membrane. In addition, care should be taken to clean adjacent areas of Kemperol with continuous water and brush (high-pressure water if necessary) to eliminate settlement of concrete residues on membrane.

Once installed, the new concrete curbs may be flashed with one of the attached details. Detail "D-1" shows a metal/Kemperol membrane composite flashing used to flash the new concrete curbs while the concrete is still green. Detail "D-2" would be used to flash the curbs after the concrete has completely cured. As discussed, detail "D-2" would require a bead of polyurethane sealant applied between the bottom edge of the concrete curb and existing Kemperol membrane to form a temporary water seal. Then, after the new concrete cures (with a maximum 5% moisture content), the Kemperol membrane flashing could be installed.

Both flashing details require a tie-in of the new Kemperol membrane onto the existing Kemperol field membrane. To accomplish this, the sand aggregate surfacing must be completely removed from the surface of the existing in-place membrane. The area of sand aggregate removed should be approximately 6" wide to accommodate the new flashing. After removing the aggregate, the top surface of the membrane must be thoroughly cleaned with toluene or acetone. After the solvent has been allowed time to

KEMPER SYSTEMS, INC., East Coast Office, 1182 Teaneck Road, Suite 206, Teaneck, NJ 07666
TEL: (201) 833-8898 FAX: (201) 833-8422 E-MAIL: kemperays@aol.com

NOV 13 1998 14:34
NOV 12 1998 05:10 PM

PHONE NO. : 9733477964

FROM : D.R. WILDRON-KEMPER SYSTEM

2122190256

PAGE.02

NOV 13, 1998 15:05 FR AMBASSADOR CONSTR. CO212 949 9762 TO 6191196
 11/13/98 14:31 FAX 2122190258 SWANKE HAYDEN CONNELL

P.03/05

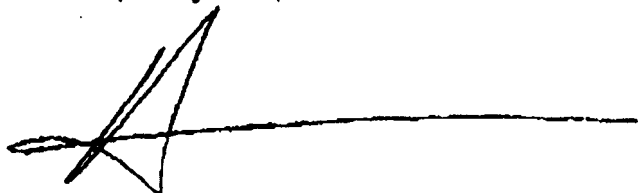
003/005

Mr. Juan M. Mejia, AIA
 September 12, 1998
 Re: OEM Radio Equipment Room
 7 World Trade Center, NY, NY
 Page 2 of 2

fully evaporate, apply Kemperol primer over the in-place membrane and allow the primer to cure for a minimum of twelve (12) hours. After the primer has cured, the new Kemperol membrane flashing may be applied. Once the membrane cures, the new membrane may be surfaced with sand aggregate to match the existing membrane.

I hope this information will be of assistance. Should you have any further questions, please feel free to call.

Sincerely,
 Kemper System, Inc.



David R. Waldron
 Technical Manager

Cc: Steve Cortazzo, KSI
 Mike Doran, KSI
 Piotr Zych, KSI
 Walter J. Weems, Silverstein
 DRW/mvhj111298W0

ALKALINITY PROTECTION NOTES:

1. WHERE PLACEMENT OF CONCRETE IS REQUIRED OVER SECTIONS OF KEMPEROL MEMBRANE, APPLY (2) COATS KEMPEROL PRIMER D (60.8-1.0 GAL. PER 100 SF) WITH BROADCAST KLN-ORIED SILICA SAND INTO SECOND WET COAT OF PRIMER.
2. PROVIDE CONTINUOUS CLEANING WITH WATER AND BRUSH TO ELIMINATE SETTLEMENT OF CONCRETE RESIDUE ON IN-PLACE MEMBRANE ADJACENT TO AREA OF CONCRETE PLACEMENT.

KEMPEROL FLASHING
SYMBOL ABOUT

NOTE:
ALL PENETRATIONS THROUGH METAL CAP FLASHING TO BE CAULKED WITH POLYURETHANE SEALANT AND FLASHED WITH KEMPEROL MEMBRANE AS REQUIRED TO FORM A WATERTIGHT SEAL. THIS SHALL INCLUDE ALL STEEL, ANGLES, CLIPS AND FASTENERS.

NEW METAL PANEL WALL SYSTEM
(BY OTHERS)

FASTEN TOP OF METAL/MEMBRANE FLASHING
12" O.C. MINIMUM OR AS REQUIRED TO
MAINTAIN A TIGHT SEAL AGAINST CURB.

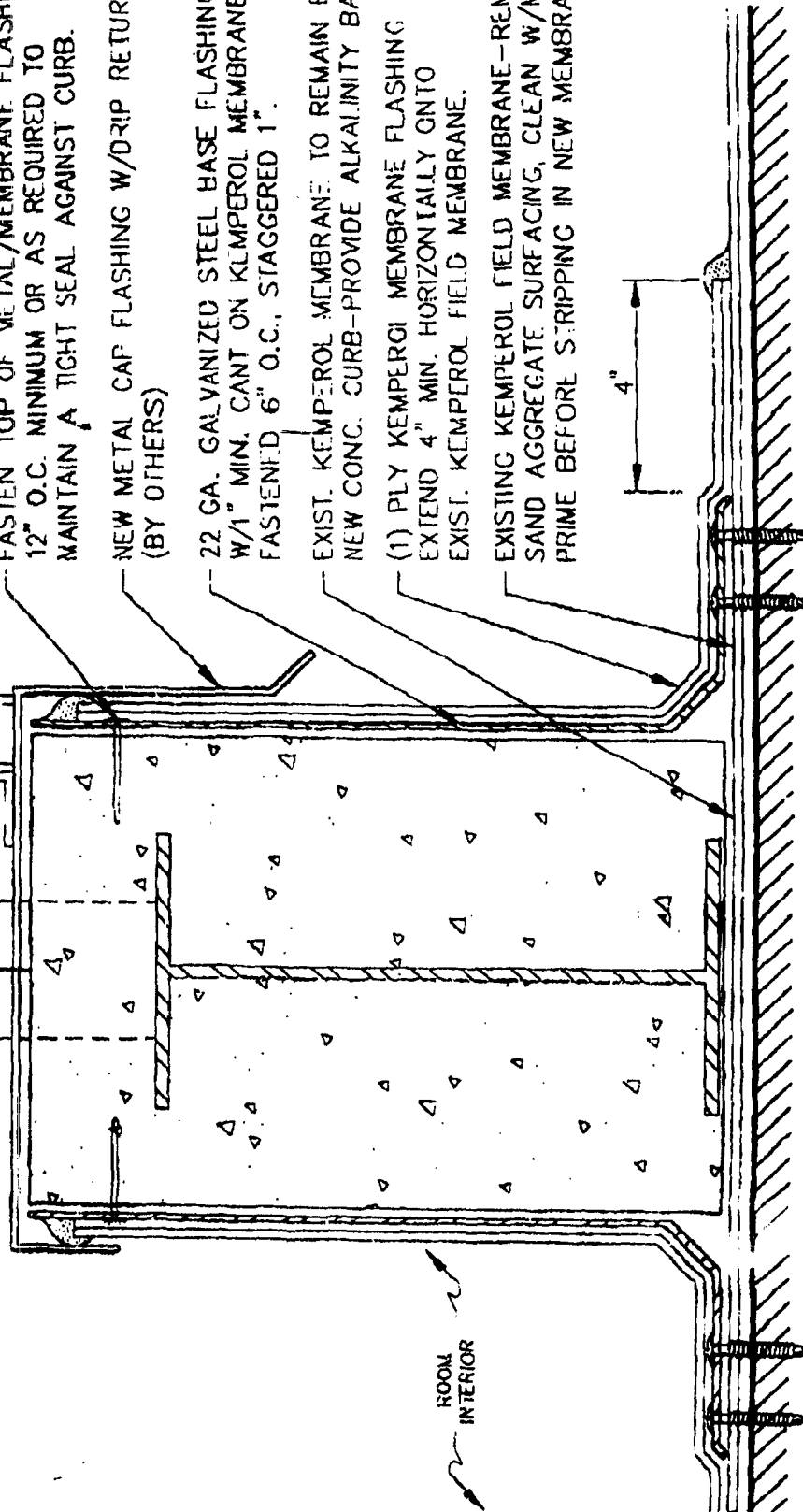
NEW METAL CAP FLASHING W/D RIP RETURN
(BY OTHERS)

22 GA. GALVANIZED STEEL BASE FLASHING
W/1" MIN. CANT ON KEMPEROL MEMBRANE &
FASTENED 6" O.C., STAGGERED 1"

EXIST. KEMPEROL MEMBRANE TO REMAIN BELOW
NEW CONC. CURB-PROVIDE ALKALINITY BARRIER.

(1) PLY KEMPEROL MEMBRANE FLASHING
EXTEND 4" MIN. HORIZONTALLY ONTO
EXIST. KEMPEROL FIELD MEMBRANE.

EXISTING KEMPEROL FIELD MEMBRANE-REMOVE
SAND AGGREGATE SURFACING, CLEAN W/MEK &
PRIME BEFORE STRIPPING IN NEW MEMBRANE.



**NEW CONCRETE CURB SUPPORT
TIE-IN TO EXISTING KEMPEROL MEMBRANE**

SCALE: NTS

DRAWING NO.

D-1

**OEM RADIO EQUIPMENT ROOM
SEVEN WORLD TRADE CENTER, NY, NY**

REVISION
0

ISSUE DATE
11-12-98

SCALE
N.T.S.

DRAWN BY
D.R.W.

**KEMPER
SYSTEM**

Nov. 12 1998 05:11PM P3

PHONE NO. : 9733477964

FROM : D.R. WALDRON-KEMPER SYSTEM

AIRFLEX INDUSTRIAL, INC.

965 Conklin Street • East Farmingdale, NY 11735 • Tel: (516) 752-1219 • Fax: (516) 752-1309

FAX TRANSMISSION

TO: Ambassador Construction Attn: Steve Kleinberg

FAX NUMBER: (212) 949-9762

FROM: Fred Fogelman

DATE: 11/19/98

[illegible]

TOTAL NUMBER OF PAGES INCLUDING THIS COVER SHEET:

Please call if there is a discrepancy in the number of pages or if the reception is unclear.

11/19/1998 15:38 15167521309

PAGE 02

AIRFLEX INDUSTRIAL, INC.

965 Conklin Street • East Farmingdale, NY 11735 • Tel: (516) 752-1219 • Fax: (516) 752-1309
November 19, 1998

Ambassador Construction
317 Madison Ave
New York, NY

Attn.: Steve Klienber

Re: 7 World Trade Center
Mayor's Office

Gentlemen:

We are submitting herewith our price for installing a new metal cap flashing with drip return as shown on the Kemper System drawing is \$1,200.00. Please issue your formal purchase order.

Very truly yours,

AIRFLEX INDUSTRIAL,


Fred Fogelman