twin city testing
and engineering laboratory, inc.
662 CROMWELL AVENUE
ST PAUL MN 55114
PHONE 612/645-3601

I hereby certify that this plan, specificat
or report was prepared by me or under
direct supervison and that I am a d
Registered Professional Engineer under t
laws of the State of Minnesota.

Lewis G Jg

Date 6-28-85 Reg. No. 01692

REPORT OF: TEST OF WELDED STEEL WIRE FABRIC

PROJECT: MATERIAL EVALUATION

REPORTED TO: ECS
Attn: Dale Johnson
13330 Newlander
Lindstrom, MN 55045

DATE: June 27, 1985

FURNISHED BY:

COPIES TO:

LABORATORY No. 4113 86-181

GENERAL:

On June 12, 1985, we received a section of welded steel wire fabric removed from a 9'-10 1/2" wide by 21'-4" high concrete/metal stud wall panel. The composite wall panel was load tested, and the results were reported on our Laboratory Number 4-5792 dated March 5, 1985 (revision date). The wire fabric was identified as 6 gauge SP-3 modified Boister steel wire. It consisted of W3 (6 gauge) wire welded to W4 (4 gauge) circumferential wire.

A tensile test was conducted on two samples of the W4 circumferential wire according to AASHTO Specification M32-81. A shear test was conducted on four sample welds according to AASHTO Specification M55-81.

TEST RESULTS:

Tensile Test Results -

Sample Number	Nominal Diameter of Circumferential Wire, in.	Nominal Area of Circumferential Wire, in.^{2}	Yield Strength (0.5% Ext), psi	Tensile Strength, psi	Reduction in Area,%
1	0.226	0.040	89,700	95,800	69.3
2	0.226	0.040	89,200	95,300	71.8

Shear Test Results -

Sample Number	Nominal Diameter of Circumferential Wire, in.	Nominal Area of Circumferential Wire, in.^{2}	Shear Load, lb	Shear Strength, psi	Location of Failure
3	0.226	0.040	1850	46,200	Base Metal
4	0.226	0.040	2166	54,100	In Weld
5	0.226	0.040	1616	40,400	In Weld
6	0.226	0.040	1904	47,600	Base Metal

REMARKS:

According to the above test results, this wire fabric conforms to AASHTO Specifications M32-81 and M55-81.

test material will be retained for thirty days.

Twin City Testing and Engineering Laboratory, Inc.

By