

(1976).

K/J

Aug 17, 76	Tom Shaw Letter
Aug 3, 76	Tom Shaw Letter
Dec 8, 76	Arbitrator notice
Nov. 30 76	Arbitration notice
Nov. 22 76	Arbitrator Letter
Dec 8, 76	Arbitration notice
June 8, 76	pro memo.
May 19, 76	pro memo
(7) July 16 76	receipt bill (pink)
April 21, 76	proj memo
March 10, 76.	proj memo.
Feb. 18, 76	Tom Shaw Letter
Feb. 23 76.	Plumbing Heating Letter
Feb 24, 76	Caspian Construction
Jan 29, 76.	Daverman Letter

[REDACTED]  
[REDACTED]  
[REDACTED]

## SOIL TESTING SERVICES OF WISCONSIN, INC.

540 LAMBEAU ST.

GREEN BAY, WIS. 54303

February 4, 1976

Daverman & Associates, Inc.  
601 Ingalls Street  
Petoskey, Michigan 49770

Attention: Mr. Leo Brady

M-6908-B

Re: Nelson stud welding inspection at the Marquette County Court House Annex in  
Marquette, Michigan.

Gentlemen:

On January 29 and 30, 1976, at the request of Mr. Leo Brady of Daverman & Associates, Mr. Hans Regnier, Chief Materials Inspector for Soil Testing Services of Wisconsin, Inc., inspected the in-place welded Nelson studs. Mr. Brady and Mr. Regnier met at the site, and discussed the procedures of the stud welding and inspection.

Please find enclosed the reports of the first and second floor stud weld inspection for the above referenced project.

The stud welding was conducted through a galvanized metal deck material into the steel beams. At the time of inspection the first and second floors were not closed in and the decking was covered with snow. After cleaning the snow from the stud welds, a visual inspection of the welds was conducted by Mr. Regnier, in the presence of Mr. Brady. The visual inspection of the studs indicated that the welds did not have the appearance of normal welds. That is, the following types of defects were noted

during the visual inspection:

- a) studs without a fillet around;
- b) studs with a partial fillet;
- c) studs not welded with the stud shaft flush to the beam;
- d) fillet material at significant distance from the required weld location.

AFFILIATE OF SOIL TESTING SERVICES, INC.

GREEN BAY PHONE (414) 494-9655  
WAUKESHA, WISCONSIN - 715-845-8388  
MARQUETTE, MICHIGAN - 505-225-1417  
MILWAUKEE, WISCONSIN - 414-354-1100

WILLIAM M. FERDICH, P.E.  
WILLIAM C. KWASNY, P.E.  
MERLE E. BRANDER, P.E.  
KEITH C. MAST

JOHN P. GNAEDINGER, P.E.  
CLYDE N. BAKER, P.E.  
PHILLIP C. BEST  
TIMOTHY K. DAHLSTRAND  
HANS J. REGNIER, C.E.I.

February 4, 1976

The visual inspection was started in the southwest area of the first floor of the building at column line 2K. The visual inspection indicated approximately 60% to 80% bad welds. A physical inspection with a hammer was performed to bend the studs 15 degrees from vertical, as suggested for Nelson stud testing. Numerous studs welds broke before reaching the 15 degree bend test. By examination of the welded stud ends after they were snapped off, the following internal weld defects were

noted: a) porosities;  
b) slag inclusions;  
c) incomplete welds.

The physical inspection with the hammer indicated over 50% failure of the stud welds in this southwest area. Mr. Brady requested Soil Testing Services to inspect and test 100% of the in-place stud welds on the first and second floor. Mr. Regnier arranged the personnel for the completion of inspection of stud welds for both floors. The stud weld inspection was completed by Mr. Regnier on January 30, 1976.

Mr. Brady slated his opinion that the high failure rate (41% overall) of the stud welds was due to performing the welding under unfavorable weather conditions. We would conceive that this is a possible contributing factor. Mr. Regnier observed that the welding contractor neglected to keep the studs and ferrules dry, by leaving the unused items in open boxes, exposed to the weather on the first floor.

If you have any questions regarding this report or if we can be of any further assistance to you, please do not hesitate to contact us.

Yours very truly,

SOIL TESTING SERVICES OF WISCONSIN, INC.



Hans J. Regnier  
Chief Materials Inspector, C.E.T.

HJR/dg

Enc.

## MARQUETTE COUNTY COURT HOUSE ANNEX

A. Nelson studs welded through metal decking

1st. Floor	Total placed studs	2111		
	Total failed studs		854	40.5%
2nd Floor	Total placed studs	2206		
	Total failed studs		924	41.9%
Total placed studs thru decking		<u>4317</u>		
Total placed studs failed			1778	<u>41.2%</u>


B. Nelson studs welded on steel beams

1st. Floor	Total placed studs	587		
	Total failed studs		86	14.7%
2nd Floor	Total placed studs	841		
	Total failed studs		172	20.5%
Total placed studs on steel beam		<u>1428</u>		
Total placed studs failed			258	<u>18.1%</u>

C. General total of studs inspected on the 1st. & 2nd floor

Through metal decking	4317 Studs	-	41.2% Failed
On steel beams	<u>1428</u> Studs	-	18.1% Failed

Total: 5745 Studs inspected



Hans J. Regnier  
Chief Materials Inspector, CET

## MARQUETTE COUNTY COURT HOUSE ANNEX

1st Floor

<u>Column Line</u>	<u>Column Line</u> 1-3			<u>Column Line</u> 3-4			<u>Column Line</u> 4-6		
	Total Studs	Failed Studs	% Failed	Total Studs	Failed Studs	% Failed	Total Studs	Failed Studs	% Failed
A-C	164	61	37.2%	180	57	31.7%	144	46	31.9%
B-Line (Studs on Beam)-	29	12	41.4%	30	13	43.3%	29	10	34.5%
C-D	115	62	53.9%	122	61	50.0%	113	49	43.4%
C-Line-	-	-	-	-	-	-	-	-	-
D-G	81	23	28.4%	206	74	35.9%	129	68	52.7%
D-Line-	54	4	7.4%	80	6	7.5%	30	2	6.7%
G-H	96	38	39.6%	155	60	38.7%	118	68	57.6%
G-Line-	39	3	7.7%	80	12	15.0%	54	4	7.4%
H-K	144	75	52.1%	180	46	25.6%	164	66	40.2%
H-Line-	54	6	11.1%	80	2	2.5%	-	-	-
K-Line-	-	-	-	-	-	-	28	12	42.9%
Total: Studs thru Metal Decking	600	259	43.2%	843	298	35.4%	668	297	44.5%
							Average		40.5%
Total: Studs on Steel Beam	176	25	14.2%	270	33	12.2%	141	28	19.8%
							Average		14.7%

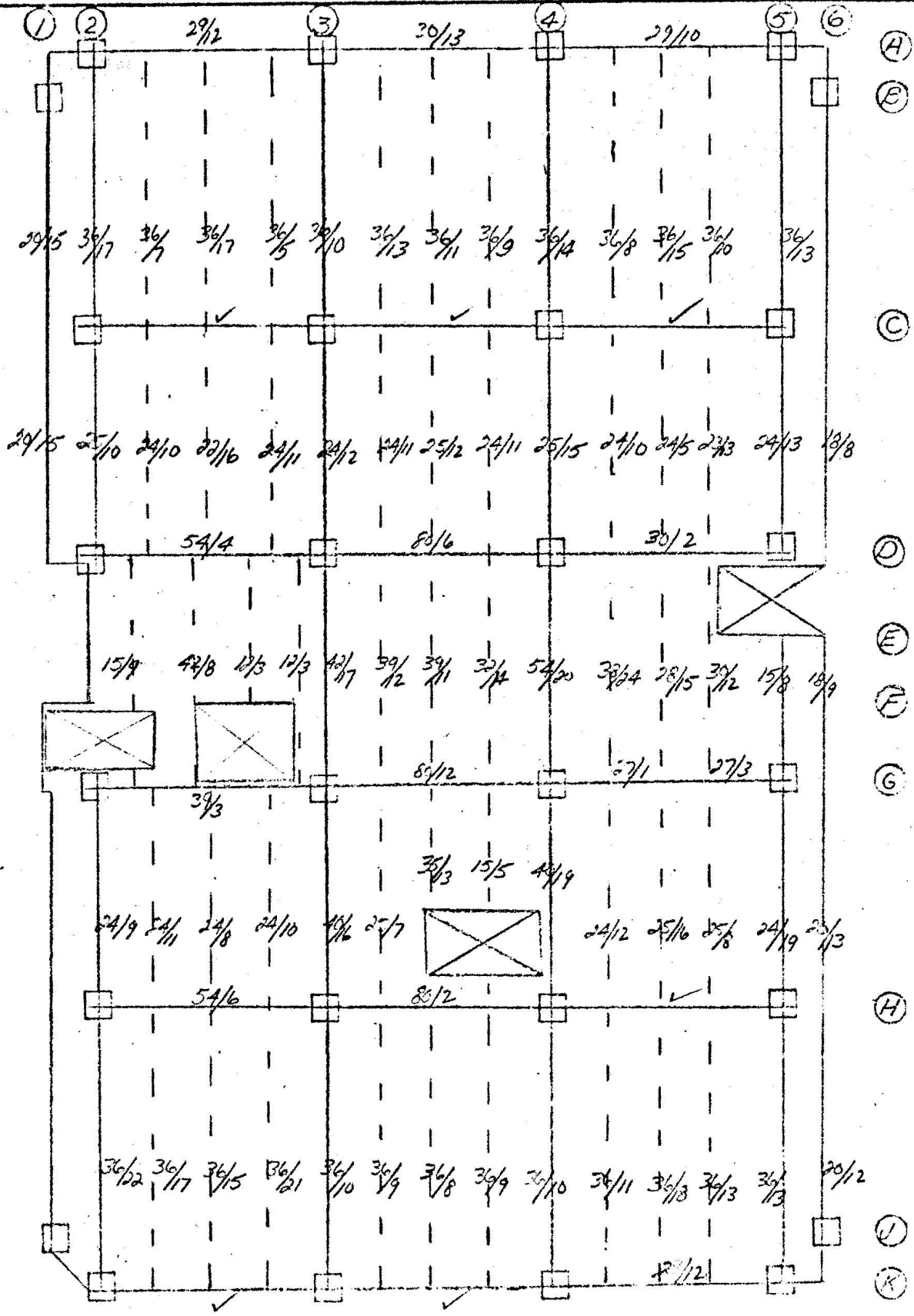
*Handwritten Signature*  
1/21/07

## MARQUETTE COUNTY COURT HOUSE ANNEX

2nd Floor

Column Line	<u>Column Line</u>			<u>Column Line</u>			<u>Column Line</u>		
	1-3			3-4			4-6		
	Total Studs	Failed Studs	% Failed	Total Studs	Failed Studs	% Failed	Total Studs	Failed Studs	% Failed
A-C	230	124	53.9%	213	101	47.4%	159	62	39.0%
B-Line (Studs on Beam)	39	6	15.4%	42	11	26.2%	32	5	15.6%
C-D	113	45	39.8%	175	70	40.0%	108	34	31.5%
C-Line	38	0	0%	84	4	4.7%	-	-	-
D-G	112	23	20.5%	186	67	36.0%	124	53	42.7%
D-Line	63	10	15.9%	80	22	27.5%	36	6	16.7%
G-H	115	44	38.3%	158	69	43.7%	116	33	28.4%
G-Line	48	13	27.1%	80	23	28.7%	40	5	12.5%
H-K	112	34	30.4%	230	95	41.3%	157	70	44.6%
H-Line	29	5	17.2%	80	21	26.3%	-	-	-
K-Line	-	-	-	38	24	63.2%	32	17	53.1%
Total: Studs thru Decking	582	270	46.4%	960	402	41.9%	664	252	37.9%
								Average	41.9%
Total: Studs on Steel Beams	217	34	15.7%	484	105	21.7%	140	33	23.6%
								Average	20.5%

*David J. [Signature]*



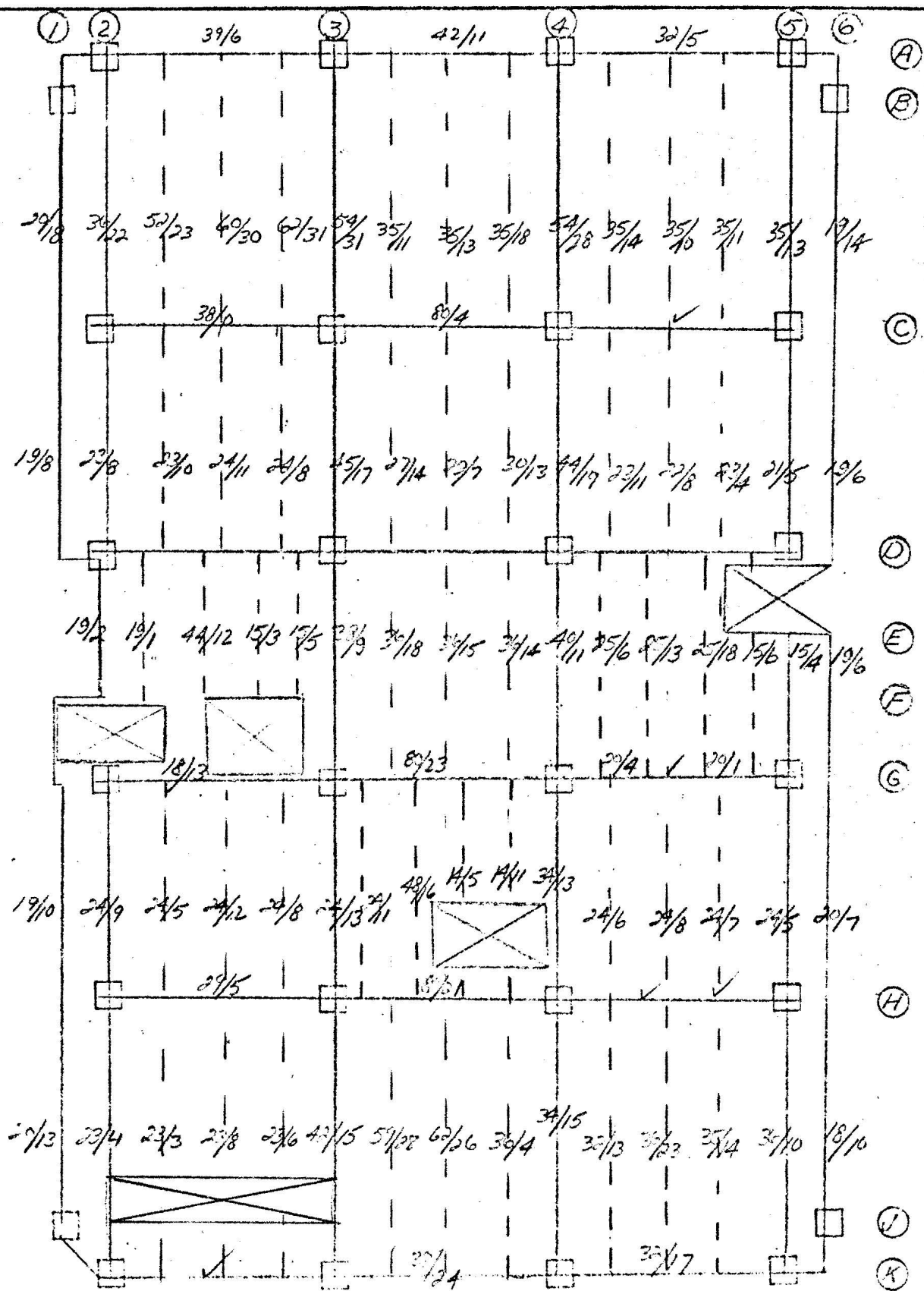
$\frac{36}{13}$     36 = TOTAL STUDS IN PLACE    ✓ = NO STUDS  
 13 = FAILED STUDS

NELSON STUD SHEAR CONNECTOR  
 INSPECTION 1ST FLOOR  
 MARQUETTE COUNTY COURTHOUSE ANNEX.  
 MARQUETTE MICHIGAN



SOIL TESTING SERVICES  
 OF WISCONSIN, INC.  
 520 LAMAR ST.    GREEN BAY, WISCONSIN 53001  
 KO 12-4761 NO SCALE

*[Signature]*  
 CMI CRT



NELSON STUD SHEAR CONNECTOR  
 INSPECTION 2ND FLOOR  
 MARQUETTE COUNTY COURTHOUSE ANNEX  
 MARQUETTE MICHIGAN

SOIL TESTING SERVICES  
 OF WISCONSIN, INC.

540 LAMPSON ST GREEN BAY, WISCONSIN 54903

KO 2-4-76 No Scale M6908-B

*Handwritten Signature*  
 CHIEF, C.E.T.



## CITY OF MARQUETTE

MICHIGAN 49855



THOMAS McNABB  
CITY MANAGER

(906) 228-8200  
EXT. 21

February 12, 1976


Mr. Gary Yoder  
County Controller  
Marquette County Courthouse  
Marquette, Michigan 49855

Dear Gary:

In accordance with the joint meeting held by the City Commission and County Commissioners, I am enclosing herewith for the County's review and approval rough drafts of a proposed agreement and covering letter concerning the County's need for additional parking at the County Courthouse Complex.

If you or any County Commissioner have any questions concerning the two enclosures, please contact my office.

Sincerely yours,

  
T. R. McNabb,  
City Manager

TRM:ml

Enclosures: 2

R O U G H      D R A F T    of a covering  
letter to the proposed parking agreement.

Marquette City Commission  
300 West Baraga Avenue  
Marquette, Michigan 49855

Dear Commissioners:

The Marquette City Commission and County officials met on February 11, 1976 and discussed the off-street parking requirements for the County buildings located in the 200 block of West Baraga Avenue.

It was agreed that the 13 on-site parking stalls at the new jail facility are in accordance with the City's zoning requirements; that the present County Courthouse required 38 parking stalls and that the new Courthouse Annex will require ~~an additional~~ 70 parking spaces, bringing the total parking requirements to 121 for the three buildings.

The County is now providing 13 on-site parking spaces at the jail site; approximately 40 spaces on the north side of Spring Street and is leasing an additional 12 spaces from the City at the southwest corner of Third Street and Baraga Avenue.

In accordance with the enclosed agreement, the County will provide the additional parking spaces to meet the City's zoning regulations.

Sincerely yours,

Clayton Anderson,  
Chairman  
Marquette County Commission

Enclosure: Agreement

*Corrected*

*OK to type in final  
form.  
Tom*

AGREEMENT

The Marquette County Board of Commissioners and the City of Marquette agree to the following items concerning the construction of the Marquette County Courthouse Annex:

1. The City of Marquette, Michigan will issue a building permit to the County for the construction of the building, although the County has not complied with the City's off-street parking requirements.
2. The County agrees to <sup>provide</sup> obtain 121 off-street parking spaces required by the City's Zoning Ordinance in effect on January 1, 1976 and agrees not to occupy the new County Annex building until the City's off-street parking requirements have been met or are in the process of being <sup>met</sup> constructed.

COUNTY OF MARQUETTE

CITY OF MARQUETTE

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x \_\_\_\_\_

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*Completed*

CITY OF MARQUETTE  
MICHIGAN 49855

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*Completed*

ROUGH DRAFT of a covering  
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Enclosure: Agreement

*Completed*

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Enclosure: Agreement



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COUNTY OF MARQUETTE

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March 10, 1976  
DA 7305-23A

Northern Michigan Soil & Material Testing, Inc.  
400 Spring Street  
Marquette, Michigan 49855

RE: Nelson Stud Connection Tests  
Marquette County Courthouse

Gentlemen:

Please forward a breakdown for your invoice No. 00828 showing dates  
and number of hours for each date.

I need this information before I can present this invoice to the Owner  
for payment.

Sincerely,

DAVERMAN ASSOCIATES, INC.

  
Leo Brady

LB/ga

CC: Mr. Gary Yoder  
Mr. Dave Tulos