ANSI

December 12, 1975

Mr. Marvin Hitt, Director
Office of Long Term Care
Department of Health, Education
and Welfare
300 South Wacker Drive
Chicago, Illinois 60606

Re: Proposed State of Minnesota
Criteria for Compliance with
ANSI Standards

Dear Mr. Hitt:

The following is an attempt to establish a formal set of State interpretations for use by surveyors and office staff for the determination of compliance with the ANSI Standards as applied to health care facilities. Some of the questions in the Federal survey form need definite interpretation as to application which is presently left to judgement of the individual surveyors. The Federal interpretations in the Long Term Care Manual provide only partial answers in terms of specific requirements, and do not provide a complete tool for uniform assessment of handicap provisions. Even the ANSI Standard is silent on specific requirements in certain areas. It is the intention with these interpretations to establish reasonable criteria for compliance which are MEASURABLE.

The Federal Survey Form requires responses in terms of "yes" or "no" or "met" or "not met". Determinations for compliance or non-compliance must obviously be based on specific criteria. It would therefore appear that the Department should first establish uniform conditions for acceptable compliance which can be observed and documented and which can be based on established policies and physical plant provisions that are measurable. Only in cases where compliance cannot be established in accordance with such criteria would a waiver request be processed. Such a procedure would reduce the number of waivers to be processed without jeopardizing the health and safety of the patients or residents.

There are basically two areas of special provisions for the handicapped which must be addressed: 1) Accessibility and useability of the physical plant by persons with mobility problems and 2) alarm signals and warning signs for persons who are deaf and blind.

A. Accessibility and Useability - General

State licensing regulations for all care facilities restrict the use of floors above or below an accessible entry floor level to AMBULATORY patients or residents in multi-story facilities, unless an elevator is provided. When the public and non-ambulatory patients have access to a floor which meets the proposed criteria and

UNIVERSITY OF MINNESOTA
TWIN CITIES

Boynton Health Service
410 Church Street S.E.
Minneapolis, Minnesota 55455

August 31, 1979

MEMORANDUM

To: Paul Maupin, Coordinator, Health Science Planning Office, 4104 Powell Hall, East Bank Campus

From: Donald Herron, University Safety Officer, Department of Environmental Health and Safety DH

Subject: Federal Inspection, July 18, 1979

My response to highlighted Items 8 and 12 in Federal Report, Minn.-18 (HP) Health Sciences Expansion B/C is as follows:

8. Provide a system of visual alarms in the fire alarm system for the benefit of persons with hearing disabilities.

Visual alarms were not provided for Unit B/C because Section 504 (April 1977) mandated compliance with the ANSI Standard only for facilities constructed after June 1977. (See enclosure dated 8-22-78.) It is my understanding that ground breaking is considered to be the cut-off date for purposes of determining "construction" date. Therefore, because Unit B/C ground breaking occurred in 1976, the requirements of 504 were not applicable. (Unit F will have a system of warning lights.)

To provide for the safety of handicapped individuals in clinic areas of Unit B/C, a fire warden program is in development where specific individuals will be assigned specific tasks, one of which is to provide for compromised individuals - temporarily or permanently handicapped.

12. The activation of a manual fire alarm system will cause the respective zone to negatize even though the fire hazard is not in the zone.

I know of no alarm system which can "read" a situation to determine if the proper pull station was pulled. Posted fire procedures in Unit B/C advise occupants who discover a fire to pull the nearest alarm pull box; additional instructions advise occupants of where the pull stations are located. Internal publications and instructions also emphasize the need to pull the nearest pull station. This problem is a recognized weakness of all zoned, coded fire alarm systems. In this case, it is even more important that a pull station on the fire floor is pulled, otherwise, an improper message will be aired for that floor.

DH: db

Enclosure

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
REGION V
300 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

OFFICE OF
THE REGIONAL DIRECTOR

April 23, 1976

ANSI

RECEIVED
APR 28 1976
DIVISION OF
HEALTH FACILITIES

Hans P. Larsen, Chief
Section of Engineering & Technical Services
Division of Health Facilities
Minnesota Department of Health
717 Delaware Street S.E.
Minneapolis, Minnesota 55440

Dear Mr. Larsen:

We regret the delay in responding to your letter concerning proposed State of Minnesota criteria for compliance with ANSI standards.

Federal regulations requiring compliance with ANSI specifications are to allow the one person in seven who has a permanent physical disability to have access to and use of buildings and facilities which house Federally funded long term care facilities. This segment of the general population represents human resources of inestimable value and of great economic significance to the nation that should not be excluded from these buildings and facilities. The specifications are purposely written in a general manner, leaving specific measurements and judgments to the surveyor on site who can then evaluate whether the facility, as built, is successful in allowing handicapped, as well as non-handicapped ambulatory visitors and patients to use the facility. We shall comment on each of the points which you made in your letter:

Section A - Accessibility and Useability - General

This Section does not address the philosophy underlying the ANSI requirements.

A State licensure provision restricting use of floors to ambulatory persons, etc. does not give a handicapped person access to these floors. The barrier floors may contain accommodations and services beyond basic requirements which give meaning to the program, and contribute to the quality of life in the facility. Thus, the total facility cannot be considered in compliance with ANSI requirements; only the floor or area that is accessible may be considered in compliance with ANSI requirements.

Again, restricting admissions to Supervised Living Facilities which are certified as ICF/MR does not address the needs of handicapped visitors.

out such special signals or signs, but licensed for supervised independent type living would be considered in compliance provided that such facilities do not house or employ persons with hearing or sight disabilities.

Sincerely yours,

Hans P. Larsen, Chief

Engineering Services Section
Division of Health Facilities

HPL:os

MEMORANDUM

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
HEALTH CARE FINANCING ADMINISTRATION
HEALTH STANDARDS AND QUALITY BUREAU
OFFICE OF STANDARDS AND CERTIFICATION

TO : Acting Directors
Health Standards and Quality
Regions I-X

DATE: AUG 22 1978

ANN MARIE
TO ALL RHS
STAFF +
RETURN TO
ME.

FROM : Acting Director
Office of Standards and Certification

SUBJECT: Division of Long Term Care Policy Memorandum No. 17, ANSI Requirements for Simultaneous Audible and Visual Warning Signals

This policy is issued as a result of the concern from Regional Offices with respect to the requirements for simultaneous audible and visual warning signals.

The current skilled nursing and intermediate care facility regulations for the physically handicapped, effective since January 17, 1974, require the facility to provide simultaneous audible and visual warning signals. This requirement has been discussed with the Department's Office of Civil Rights (OCR) which has the responsibility for the enforcement of Section 504 of the Rehabilitation Act of 1973. The OCR states that the visual warning signal requirement of the alarm system need not be enforced for facilities constructed prior to June 1977, the effective date of regulations implementing the Act. In that these regulations supersede the skilled nursing and intermediate care facility standards for the physically handicapped, the decision of the OCR will be followed. However, long-term care facilities are expected to provide other means of warning deaf patients of fire. There are several ways this can be accomplished. For example, all staff can be trained to quickly alert deaf patients of a fire; more frequent fire drills can be held; deaf patients can be located near the nurses' station to make them more accessible to the nursing service staff; and the facility can inform the patient, in writing, of the actions taken by the facility to protect them and what they are to do in case of fire. Other actions may be taken as well to protect the deaf patients.

Edward L. Kelly

Copy for Stec
Hall
Bennett

The intent of the regulation is to allow handicapped persons, including visitors, the same freedom of the entire facility that ambulatory persons enjoy. A waiver of this provision may be considered in some instances.

An appropriate number of toilet rooms must be supplied to accommodate patients, visitors and staff. ANSI specifications require an appropriate number of toilet rooms accessible to and useable by the physically handicapped. The ratio of at least one to eight generally will be sufficient; the surveyor on site must make a determination of adequacy.

Section B - Accessibility and Useability - Specifics

Your specifications for a handicap entrance door omit the recommendation for kick plates, the requirements for a 5 foot level area on the side of the door swing(s), and a level area one foot beyond the edges of the door. The eight pound pressure to open the door is a maximum; facilities should be encouraged to make adjustments which will reduce this to five pounds.

Exterior walks must be at least 48 inches wide, rather than the 32 inches specified in your letter, and 60 inches is preferable.

Stairs acceptable to Life Safety Code purposes should also conform to the recommendations in 5.4 of ANSI specifications which attempt to make buildings in their entirety, accessible and useable by handicapped persons who may be staff, or visitors, as well as patients.

Elevators used by physically handicapped should be 60x60 or 56x63, (not 56x53 inches) in order to allow turning space for a wheelchair. In addition to your specifications, the requirements for doors and doorways should be met.

Non-slip ramps in existing facilities would be satisfactory pursuant to the specifications in your letter. ANSI specifications recommend two handrails and extensions beyond the top and bottom. By merely stating the basic minimum requirement, these recommendations may not be considered when new ramps are constructed.

The specifications for toilet seats in existing facilities generally are satisfactory. The preferred depth of 5 feet should be stated as such. If Minnesota State regulation grab bars do not parallel specifics in ANSI 5.6.2(4), an amendment must be considered. Toilet seats must be 20 inches from the floor, and this may be accomplished by an inexpensive extension.

UNIVERSITY OF MINNESOTA
TWIN CITIES

University Hospitals and Clinics
420 Delaware Street S.E.
Minneapolis, Minnesota 55455

March 20, 1979

To: Wally Mellum, B/C Construction

From: Tom O'Dea, Biomedical Engineering

Subject: Ambulatory Surgery Rooms

The ambulatory surgery operating rooms and post-anesthesia recovery room were checked for equipotential grounding on March 20, 1979. There were less than 20 millivolts between any two conductive surfaces and any conductive surface and ground.

The isolated power systems for the operating rooms were also tested on March 20. All were found to be in compliance, except for the detection of a balanced resistive fault in all rooms. Mr. Coffin has informed me that the LIM's need not meet this criteria.

Thus, those rooms that are connected meet our requirements.

TO/cm

UNIT B/C - PHASE I

CHANGE ORDER ANALYSIS

As of July 31, 1979

FEDERAL Project #Minn - 18 - H.P.

I. Sheehy Construction (General Contractor):

Original Contract:	$15,305,000.00 12,191.00
Change Orders 1 through ~~27~~ 28	~~+12,564.00~~ ~~+9,211.00~~
Reimbursables #1 - 27559 #2 - 27558	- 5,499.00
	< 1,006.00 > = 6505
Revised Contract Amount	OK $15,312,065.00 15,286,304.00

II. Hayes Contractors (Mechanical):

Original Contract:	$ 6,878,650.00
Change Orders 1 through 29 mod 178-E #1 - 43975	(105,165.40)
	< 3,570.00 >
Revised Contract Amount	$ ~~6,779,484.60~~ 6,769,914.60

III. Premier Electric Company:

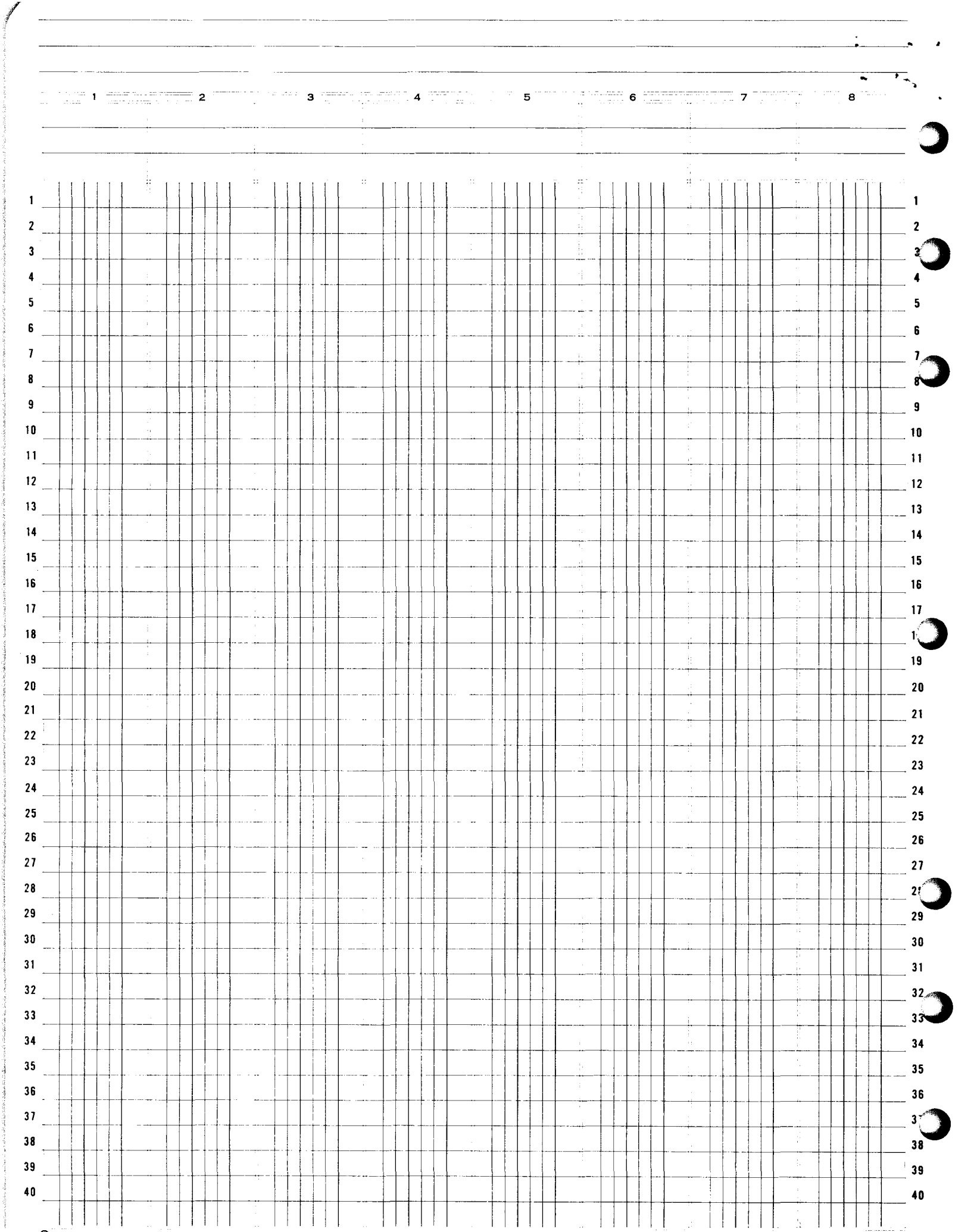
Original Contract:	$ 3,343,090.00
Change Orders 1 through ~~24~~ 25	~~+263,560.24~~ 262,516.24
Reimbursables	~~-198,956.65~~ <209,170.24>
Revised Contract Amount	$ ~~3,407,693.59~~ 3,396,436.00

Unit B/C

Change Orders Analysis

Premier Electric

Original Contract:		$3,348,090.00
Change Order #E-1 Deductive Alternate		$ 184,700.00
Change Order #E-2 Painstaker Alternate		68,900.00
Change Order #E-3 Mod 31-E		<3,007.71>
Change Order E-4 Mods, 17-E, 19-A & 60-A		<4,782.27>
Change Order E-5 Mods 68-P & 71-E		5,997.98
Change Order E-6 Mods 47-P, 52-P, 53-P, 67-P & 74-P		9,090.10
Change Order E-7 Mods 45-E, 56-P, 59-E, 64-A & 70-P		11,743.14
Change Order E-8 Mods 81-P, 82-P, 85-P, 90-P, 91-E 95-P, 112-P, 116-P		<18,620.00>
Change Order E-9 Mods - 69-P, 73-P, 94-P, 96-P, 97-P, 98-P & 102-P		8,353.00
Change Order #10 Mod 79-E, 106-A, 126-E & 131-P		<11,420.00>
Change Order E-11 Mod 125-P & 132-P		3,169.00



Unit B/c

Change Order Analysis

Commercial Electric

Change Order E-12		
mods 111-P, 120-P, 122-P		
129-P, 169-E & 170-P		358200
Change Order E-13		
Mod 55-A, 152-P, 154-P		158200
Change Order E-14		
Mod 144-P, 155-P, 164-P,		
167-P, 180-E, 182-E		90600
Change Order E-15		
Mod 153-P & 166-P		120200
Change Order E-16		
Mod 88-P, 186-A, 195-A		
& 202-P		16500
Change Order E-17		
Mod 86-P		15100
Change Order E-18		
Mod - 234-E		29000
Change Order E-19		
Mod 238-E		28600
Change Order E-20		
Mod 51-P, 66-P, 165-P		
241-E		71400
Change Order E-21		
Mod 150-E, 176-E & 242-E		131000
Change Order E-22		
Omission		(127900)
Change Order E-23		
Mod 81-P		15700

1 2 3 4 5 6 7 8

Unit B/C

Change Order Analysis

Brasmer Electric

Change Order E-24		
Mods 204E, 247-E + 80-P	24,760.00	
	263,560.24	263,560.24
Adjusted Contract Amt		$3079,629.76

Unit B/C - PHASE-I
Change Order Analysis

Premier Electric Co

			Contingency	Reimb	Total
Change Order #1:					
Mod. 3-D	Deduct allt.		1847000		1847000
#2: Reinstate allt				+6890000	6890000
#3: Mod.	21-E		<300771>		<300771>
#4: Mod	17-E		- 189726		
	19-A		+ 42162		
	60-A		+ 99747		<47827>
#5: Mod.	68-P		- 129852		
	71-E		+ 189650		59798
#6: Mod	47-P		53000		
	52-P		744745		
	53-P			54065	
	67-P			N/C	
	74-P		57200		
			854945	54065	909010
#7: Mod	45-E		157300		
	56-P		16614		
	59-E		304600		
	64-A		15600		
	70-P		680200		1174314
#8: Mod	81-P			6500	
	82-P			2476600	
	85-P		51400		
	94-P		234500		
	91-E		18400		
	95-P			8600	
	112-P			N/C	
	116-P			<2500000>	<1862000>

Final

Unit BK - Phase I
Change Order Analysis

Cumin Electric Co.

			Contingency	Reimb	TOTAL
Change Order #9:	Mod.	69-P		22600	
		78-P		30600	
		94-P		1693600	
		96-P		358400	
		97-P		175900	
		98-P		5122100	
		102-P		717200	8353400
Change Order #10:	Mod.	79-E	- 12490 0		
		106-P	- 17000		
		126-E	+ 4600		
		131-P		+ 23100	
			- 13730 0	23100	< 114200 >
Change Order #11:	Mod.	125-P	121300	121300	
		132-P		74300	
			121300	195600	316900
Change Order #10:	Mod.	111-P		257600	
		120-P		1296200	
		122-P		63190 0	
		129-P		928300	
		169-E		34800	
		170-P		279500	3531300
Change Order #13:	Mod.	55-P	20200		
		152-P		271100	
		154-P		1290800	
			20200	1561900	1582100
Change Order #14:	Mod.	144-P		499700	
		155-P		66500	
		164-P		9900	
		167-P		108500	
		180-E	72000		
		182-E	149600		
			221600	684600	906200

Unit B/C - Phase I
Change Order Analysis

Gemini Electric Co

		Contingency	Reimb.	TOTAL
Change Order #15:				
	Mod 153-P	661400		
	166-P		540700	
		661400	540700	1202100
Change Order #16:				
	Mod. 88-P	40700		
	136-A	54700		
	195-A	N/C		
	202-P		70500	
		954400	70500	1659400
Change Order #17: Mod. 86-P			151100	151100
Change Order #18: Mod. 234-E		290400		290400
Change Order #19: Mod. 238-E		286300		286300
Change Order #20: Mod. 51-P		164600		
	66-P	495100		
	165-P		4600	
	241-E		50100	
		659700	54700	714400
Change Order #21: Mod 150-E			1402800	
	176-E	-123500		
	242-E	31200		
		-92300	1402800	1310500
Change Order #22: Correct. Mod 150-E			<1402800>	
	176-E	123500		<1279300>
Change Order #23: Mod. 87-P		157800		157800
Change Order #24: Mod 204-E		48200		
	247-E	112400		
	80-P		87000	
		160600	87000	247600
S-TOTAL		6460359	1989665	$26356024

1 2 3 4 5 6 7 8

B/C - PHASE I
Change Order Analysis
Hayes CONTRACTOR

Original Contract:	$6,878,650.00
Chang Order # 1:	
Mod 2-D - deductive alternates M-21, M-22, M-23	36,550.00
Change Order #2:	
Mods 6-E, 21E, 22E, 23E, 24E, 27P, 34E	<157,687.00>
Change Order #3:	
Mod 20-E	<3,600.00>
Change Order #4:	
Mods 28-E, 32-E, 35-E & 49-A	29,000.00
Change Order #5:	
Mods 17-E, 19-A, 36-E, 37-A & 46-E	<38,600.00>
Change Order #6:	
Mod 54-E	<1,044.40>
Change Order #7:	
Mod. 57-E	1,019.00
Change Order #8:	
Mods 38-E & 47-P	<3,848.00>
Change Order #9:	
Mods 58-E, 59-E, 62-E & 64-A	<45,270.00>
Change Order #10:	
Mods 76-A, 85-P, 134-E	1,881.00
Change Order #11:	
Mod 101-P	<944.00>
Change Order #12:	
Mods 79-E, 126-E, 127-A	<29,430.00>

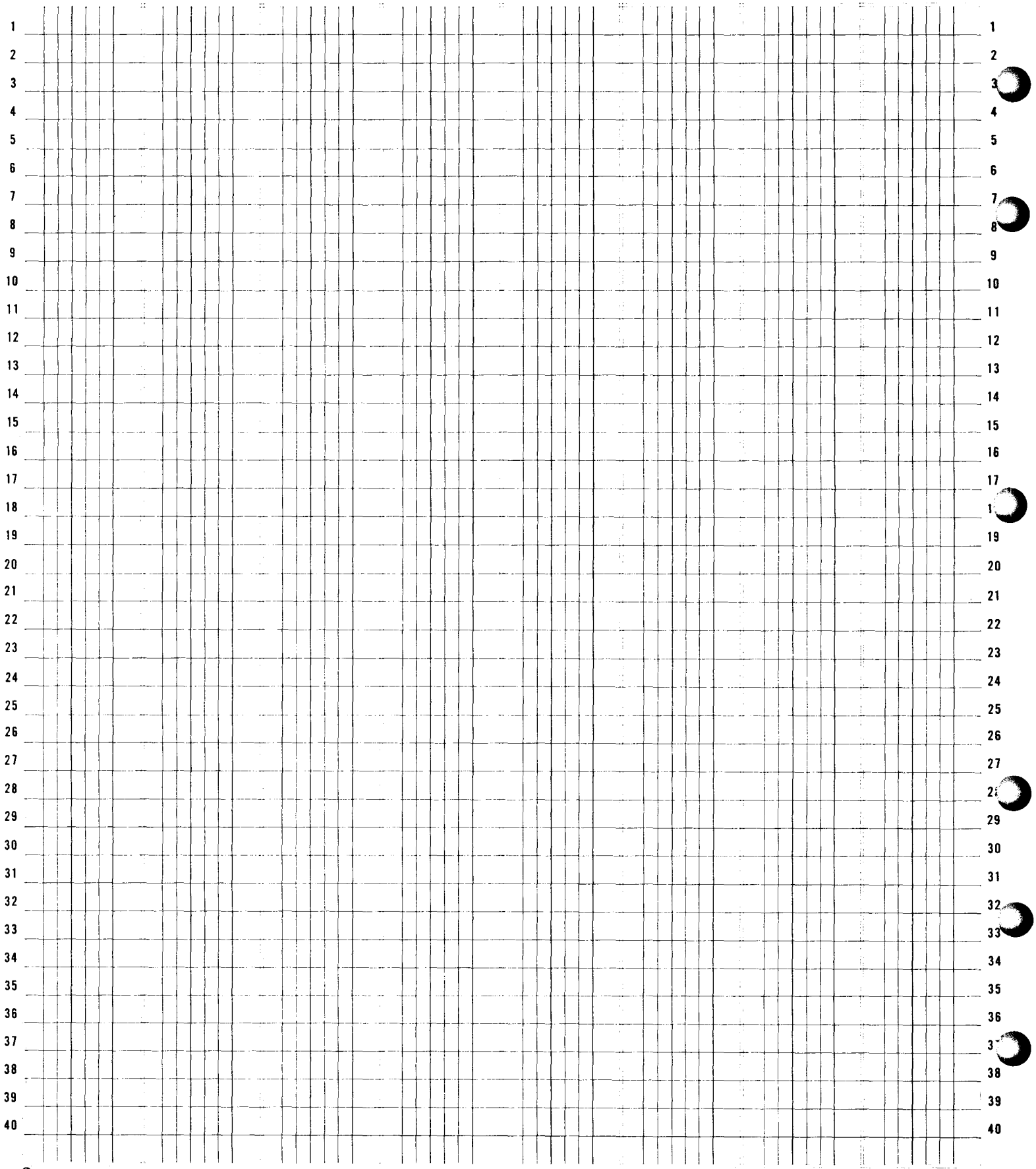
B/C - PHASE I
Change Order Analysis
Hayes Contractors

Change Order M-13 Mods 104-P, 107-E, 108-E, 109-A, 114-E, 157-A	811000
Change Order M-14 Mod. 168-E	<584600>
Change Order M-15 Mods 55-A + 178-E	2615400
Change Order M-16 Mods 139-A + 145-E	739600
Change Order M-17 Mod 179-E	70900
Change Order M-18 Mod 183-E + 194-E	731300
Change Order M-19 Mod 187-E, 193-E + 206-E	601100
Change Order M-20 Mod 199-E	124900
Change Order M-21 Mods 200-E, 215-A, 216-E, 223-E + 224-E	453600
Change Order M-22 Mods 205-E, 225-E + 227-E	<237[illegible]000>
Change Order M-23 Mods 228-E + 230-E	61500
Change Order M-24 Mod 225-E	17500
Change Order M-25 Mod 51-P + 124-A	1981300

1 2 3 4 5 6 7 8

B/C – PHASE I
Change Order Analysis
Hayes Contractors

Change Order M-26:	
Mods 150-B, 176-E & 244-E	1412500
Change Order M-27:	
Mods 150-E & 244E to Correct	<1536000>
Change Order M-28:	
Mod 212-A & 243-E	1371000
Change Order M-29-	
Mod 249-E	75800
	<105165-40>
	$ 6773484 60



UNIT B/C PHASE I
Change Order Analysis
Hayes Contractor

			Contingency	Total
Change Order 1:				
	Mod	2-D	3655000	3655000
2:	"	6-E	N/C	
	"	21-E	<1267500>	
	"	22-E	<350000>	
	"	23-E	<1600000>	
	"	24-E	<600000>	
	"	27-P	<22500>	
	"	34-E	<521200>	<5768700>
3:	"	20-E	<360000>	<360000>
4:	"	28-E	658200	
	"	32-E	702000	
	"	35-E	<768600>	
	"	49-A	<302600>	290000
5:	"	17-E	<325000>	
	"	19-A	230900	
	"	36-E	<34200>	
	"	37-A	83300	
	"	46-E	<890000>	<3860000>
6:	"	54-E	104440	104440
7:	"	57-E	1019000	1019000
8:	"	28-E	<384800>	
	"	47-P	N/C	<384800>
9:	"	58-E	272100	
	"	59-E	82100	
	"	62-E	<800000>	
	"	64-A	43100	<452700>
10:	"	76-A	38900	
	"	85-P	54600	
	"	134-E	94600	188100

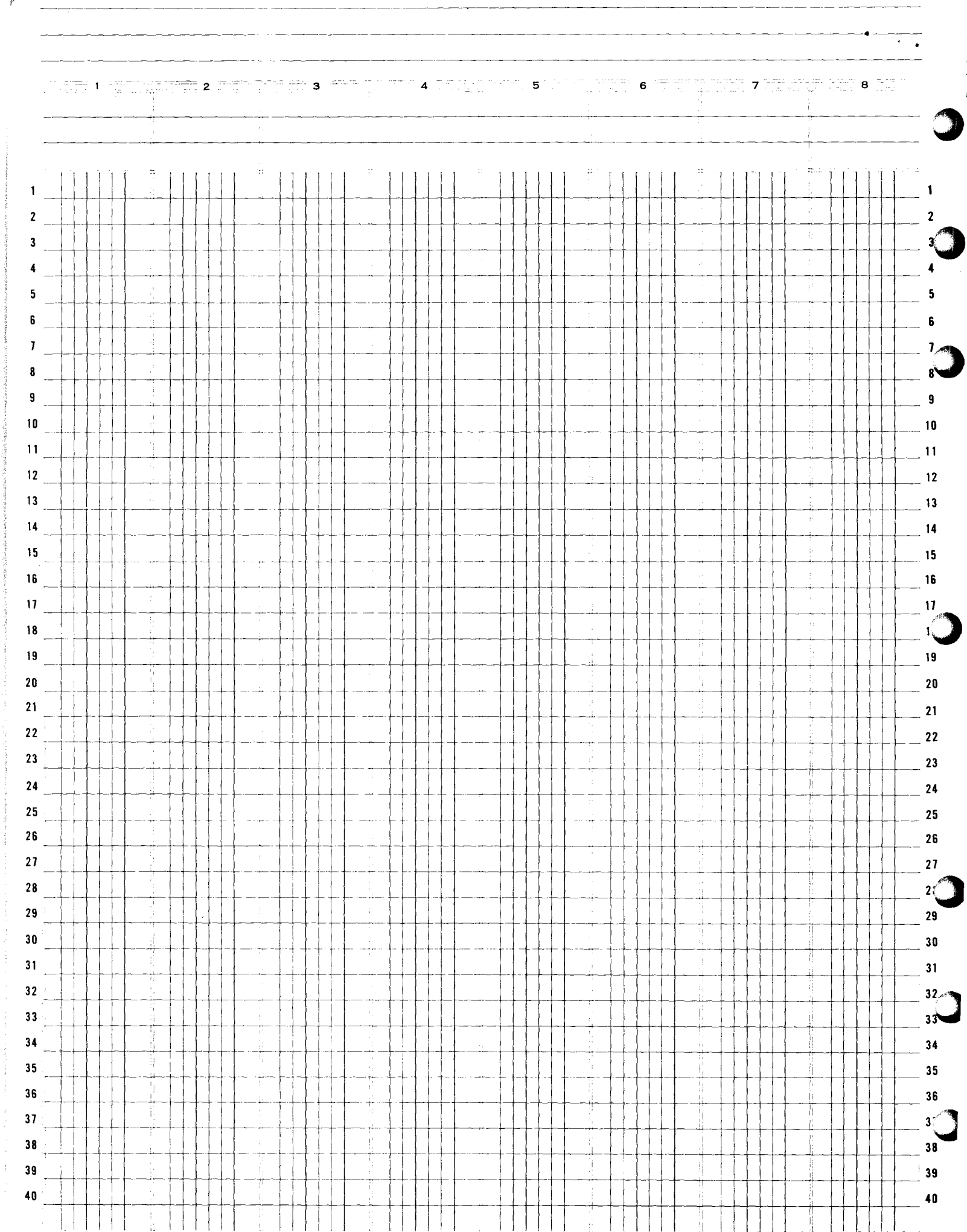
1 2 3 4 5 6 7 8

Unit B/C - Phase-I
Change Order Analysis
Hayes Contracting

				Contingency	Total
Chang. Order # 11:	mod.	101-P		(94400)	(94400)
12:	mod.	79-E		(581600)	
	"	126-E		86900	
	"	127-A		200400	(294300)
13:	mod.	104-P		N/C	
		107-E		(46100)	
		108-E		(292700)	
		109-A		(36500)	
		114-E		104750	
		157-A		138800	81100 00
14:	mod.	168-E		(584600)	(584600)
15:	mod.	65 R		2258400	
		178-E		357000	2615400
16:	mod.	139-A		190300	
		145-E		549300	739600
17:	mod.	179-E		70900	70900
18:	mod.	183-E		672500	
		194-E		58800	731300
19:	mod.	187-E		509800	
		193-E		65500	
		206-E		26300	601100
20:	mod.	199-E		124900	124900
21:	mod	200-E		194900	
		215-A		134700	
		216-E		50100	
		223-E		8800	
		224-E		65100	453600

Unit B/C - PHASE I
Change Order Analysis
Hayes Contractors

				Contingency	Total
Change Order #22:	Mod. #	205-E		<24000.00>	
		225-E		10000	
		227-F		11000	<23790.00>
23:	Mod. #	228-E		24600	
		230-E		36900	61500
24:	Mod #	235-E		17500	17500
25:	Mod. #	51-P		400000	
		128-A		1581300	1981300
26:	Mod #	150-P		1402800	
		176-E		<123500>	
		244-E		133200	1412500
27:	Corrections			<1536000>	<1536000>
28:	Mod #	212-A		101800	
		243-E		1269200	1371000
29:	Mod #	249-E		75800	75800
					10516540

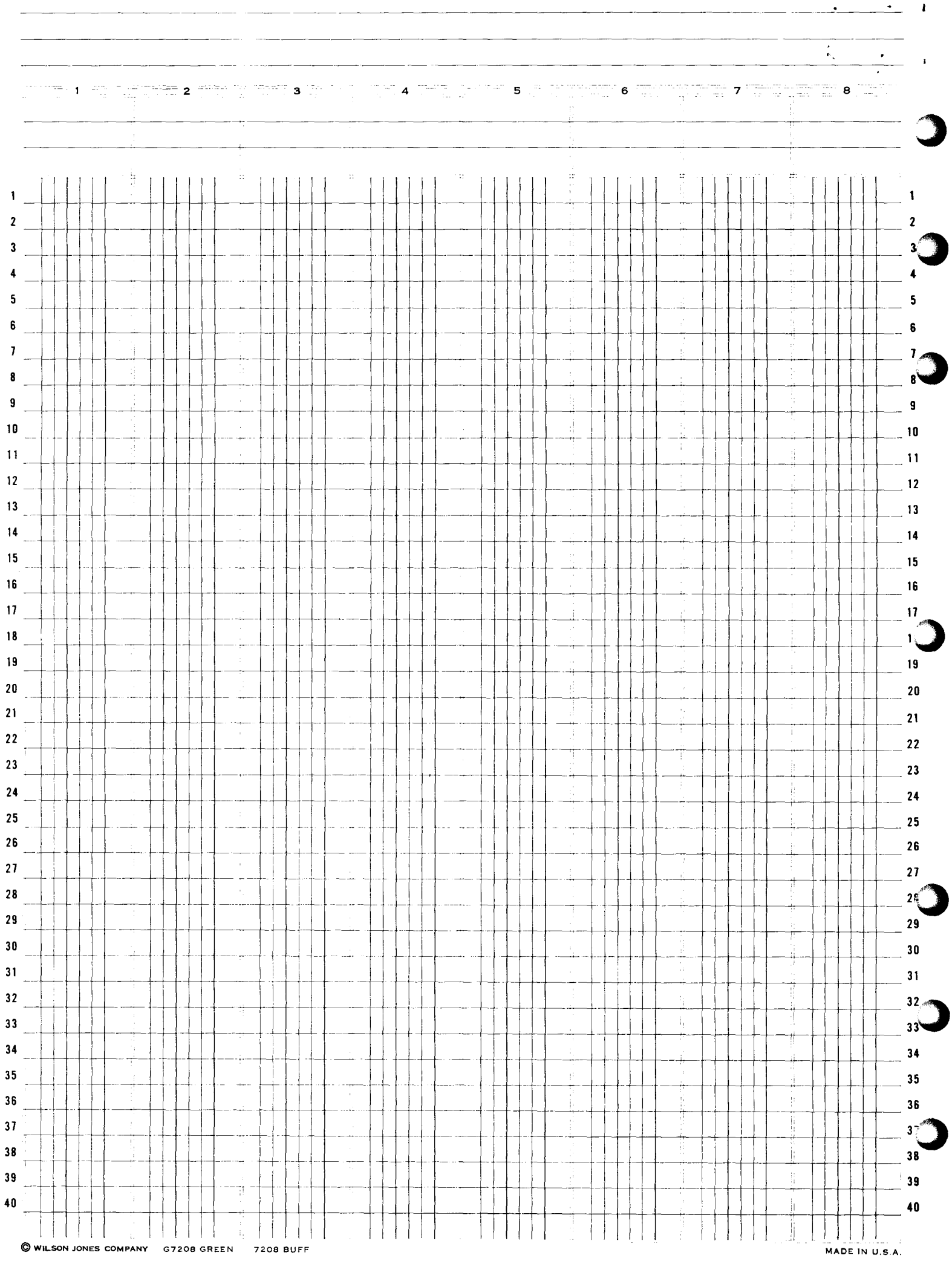


UNIT B/C - PHASE I
Change Order Analysis
Shelby Construction

Original Contract	$15,305,000.00
Change Order #1:	
Mod 1 D - deduct alternate	141,000.00
Change Order G-2	
Mods 14-P, 18-A, 26-P, 29-E & 30-E	(128,744.00)
Change Order G-3	
Mods 5-E, 27-P, 40-E & 16-P	(476,800.00)
Change Order G-4	
Mods 28-E, 32-E & 41-E	(550,730.00)
Change Order G-5	
Mods 17-E, 19-A, 37-A & 46-E	(1,108.00)
Change Order G-6	
Mods 43-A, 44-A & 48-A	108,190.00
Change Order G-7	
Mods 63-P & 65-P	N/C
Change Order G-8	
Mods 47-P, 74-P, 77-P, 92-E, 93-E & 100-E	354,260.00
Change Order G-9	
Mods 42-E, 58-E, 64-A, 115-E, 117-P & 118-E	(186,840.00)
Change Order G-10	
Mods 76-A, 90-P, 91-E & 137-A	(2,340.00)
Change Order G-11	
Mods 99-A, 124-E, 143-E, 146-E, 148-E	(122,580.00)

Unit B/C - Phase I
Change Orders Analysis
Shirley Construction

Change Order C-12 - Mods 127-A, 136-A, 149-P + 158-E	1683300
Change Order C-13 - Mod. 156-P	N/C
Change Order C-14 - Mod. 66-P + 162-P	100600
Change Order C-15 Mod 55-P + 128-P	438900
Change Order C-16 Mods 139-A, 181-E + 184-E	551700
Change Order C-17 Mod 179-E + 188-E	88500
Change Order C-18 Mods 186-A, 198-P + 203-E	111100
Change Order C-19 Mods 208-E, 209-E, 210-E + 211-E	570900
Change Order C-20 Mods 199-E + 214-P	160600
Change Order C-21 Mods 219-E + 220-P	2443200
Change Order C-22 Mods 201-E + 229-E	(170500)
Change Order C-23 Mod. 236-E	(400000)
Change Order C-24 Mods 51-P + 239-E	1593700



Unit 6 & 7 - Phase II
Change Order Analysis
Study Construction

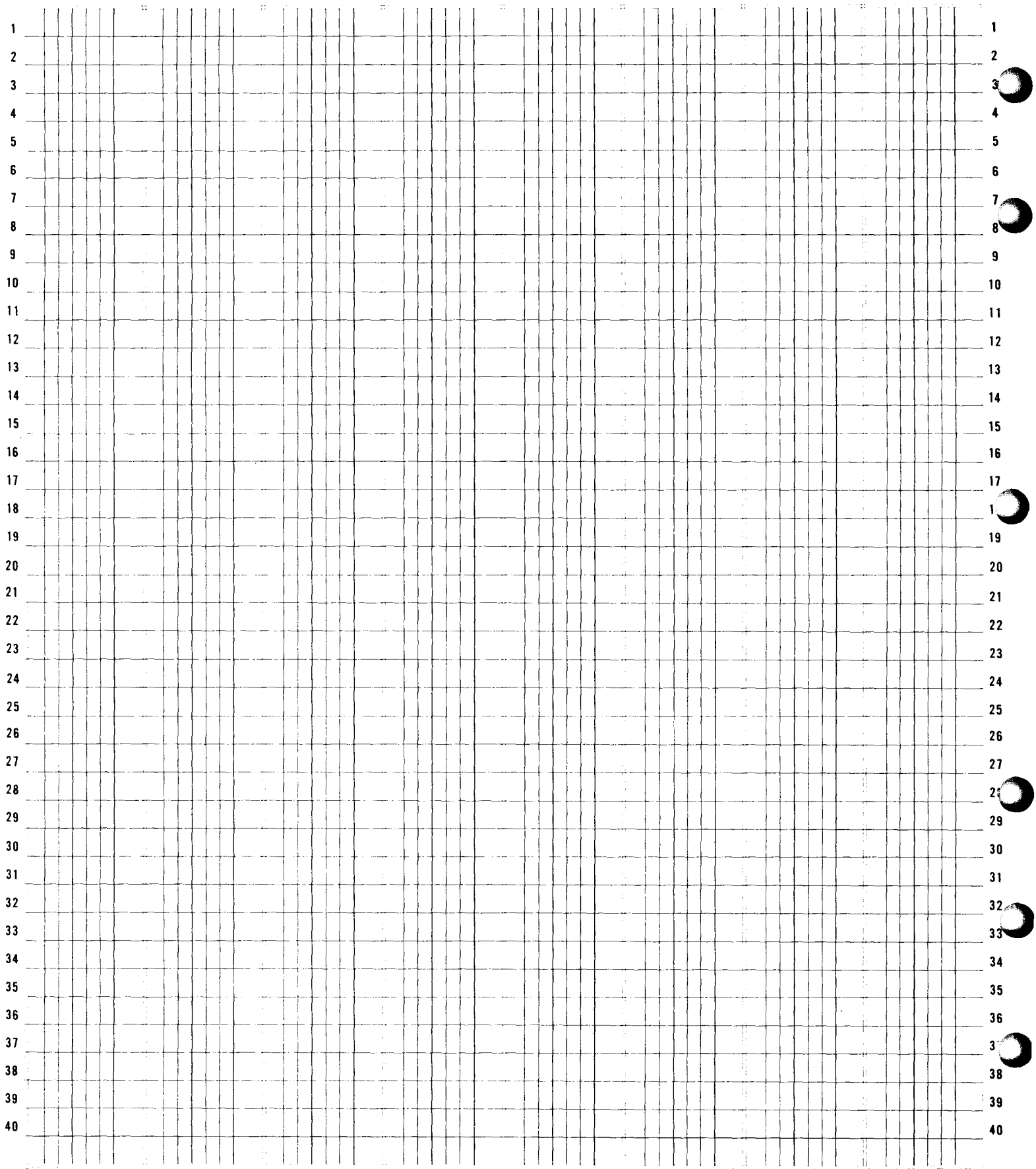
Page 3 of 3

Change Order # C-25		
Mods 165-P, 237-P, 245-E, 246-E	750700	
Change Order # C-26		
Mod Correction	<16990>	
Change Order # C-27		
Mod. 248-E & 231-P	1157200	
	1256400	1256400
Adjusted Contract Amt.		$15317564 00

1 2 3 4 5 6 7 8

Unit B/C - PHASE I
Change Order Analysis
Steele Construction

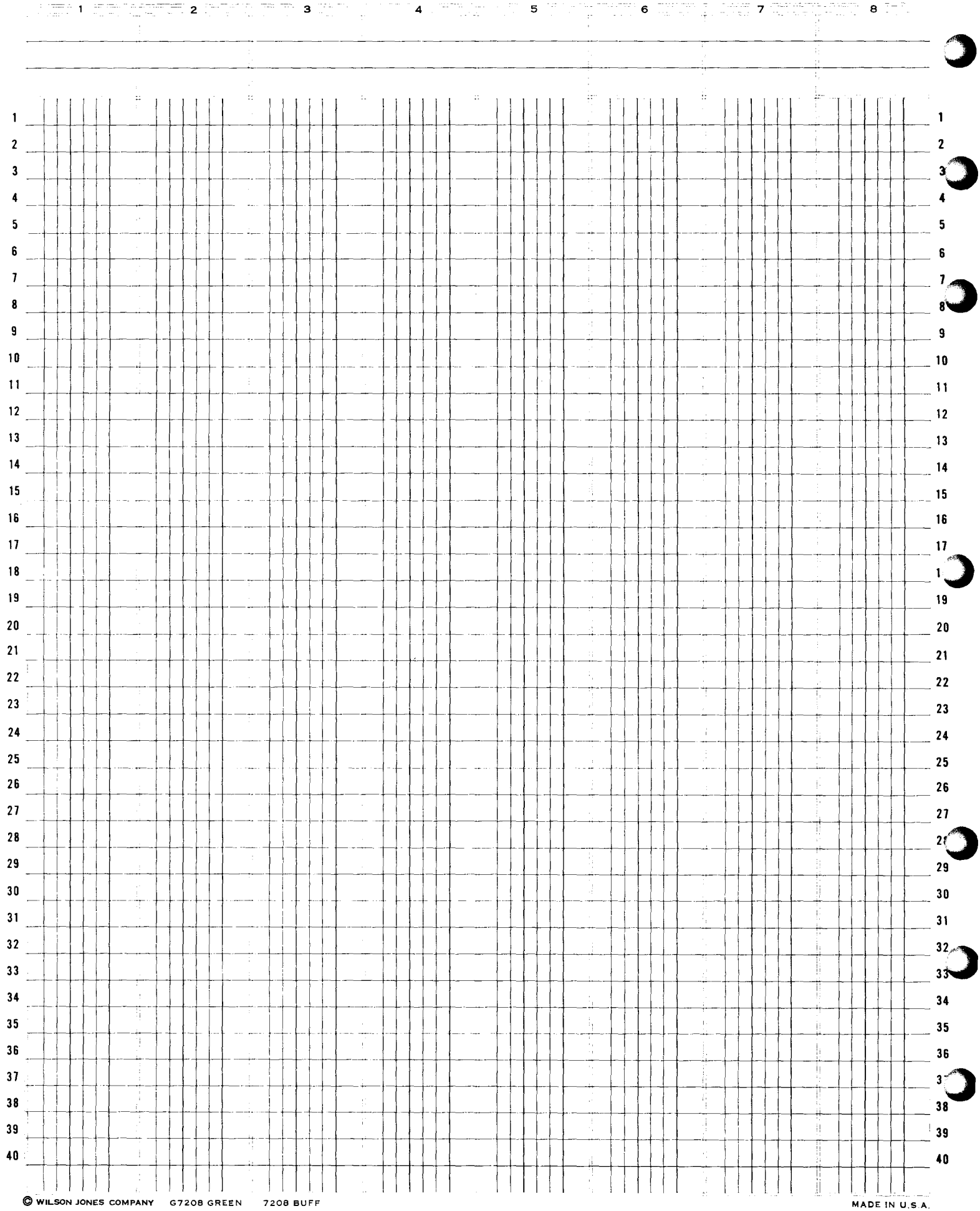
	Contingency	Reimb.	Total
Change Order 1: Mod. 1-D	141000.00		141000.00
2: Mod 14-P	9496.00		
18-A	<31000.00>		
26-P	<22000.00>		
29-E	<29700.00>		
30-E	<55540.00>		<128744.00>
3: Mod. 5-E	<246800.00>		
27-P	N/C		
40-E	<23000.00>		
16-P	N/C		<476800.00>
4: Mod. 28-E	N/C		
32-E	20640.00		
41-E	<571370.00>		<550730.00>
5: Mod. 17-E	<11310.00>		
19-A	1850.00		
37-A	N/C		
46-E	<1620.00>		<11080.00>
6: Mod. 43-A	53460.00		
44-A	30000.00		
48-A	24738.00		108198.00
7: Mod. 63-P	N/C		
65-P	N/C		N/C
8: Mod. 47-P	53150.00		
74-P	12570.00		
77-P	<3340.00>		
92-E	17520.00		
93-E	280860.00		
100-E	<6500.00>		354260.00



Unit B/C - Phase I
Change Order Analysis

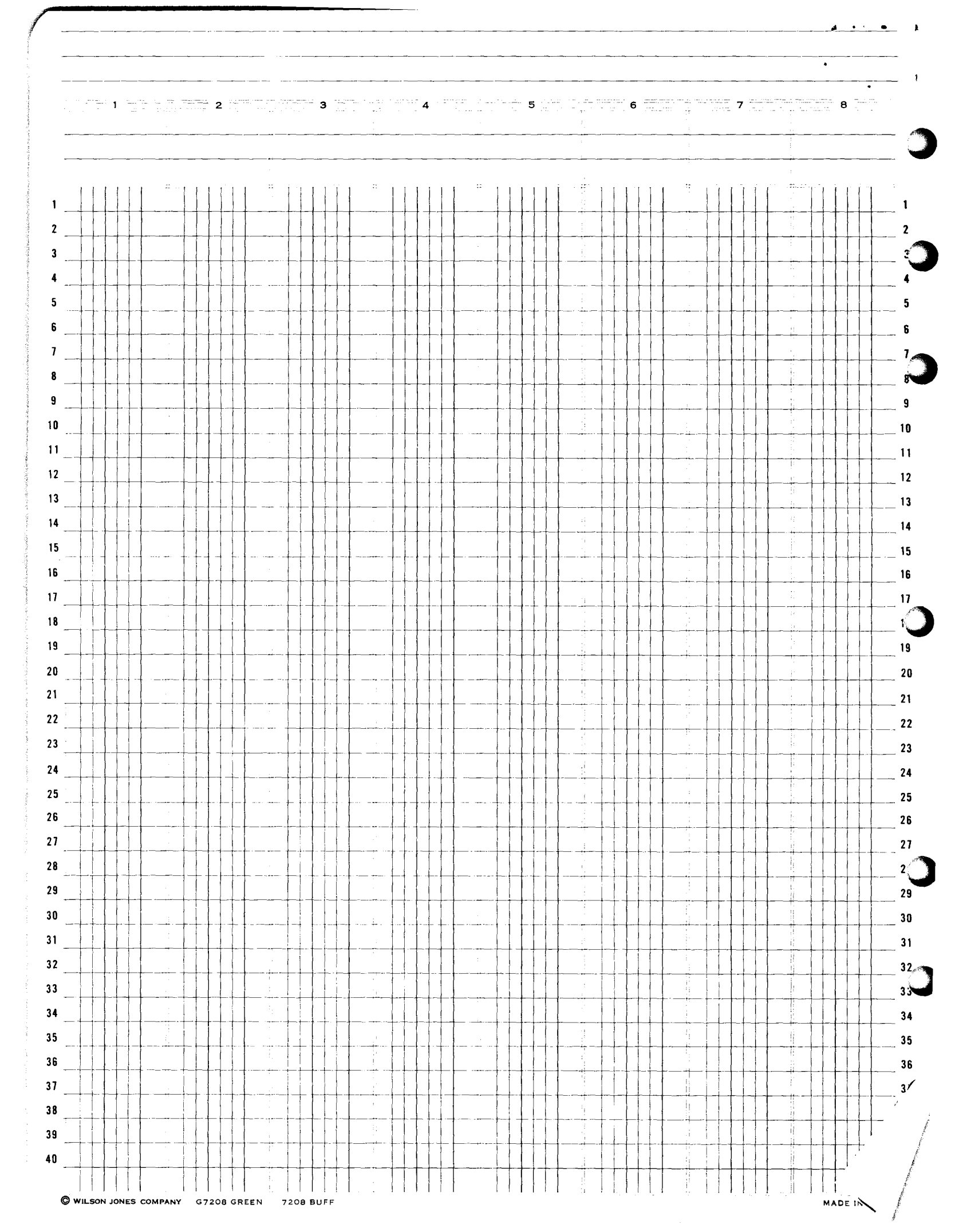
Shelby Construction

		Contingency	Reimb	Total
Change Order # 9:	mod. 42-E	(261700)		
	58-E	224000		
	64-A	69300		
	115-E	(570600)		
	117-P	(290000)		
	118-E	(1040000)		(186400)
10:	mod. 76-A	25600		
	90-P	17300		
	91-E	53700		
	137-A	(120000)		(23400)
11:	mod. 99-A	124500		
	124-E	(3500000)		
	143-E	(50000)		
	146-E	2316200		
	148-E	(76500)		(1225800)
12:	mod. 127-A	28100		
	136-A	(112000)		
	149-P	125000		
	158-E	1642200		1683300
13:	mod. 156-P	N/C		N/C
14:	mod. 66-P	N/C		
	162-P	100600		100600
15:	mod. 55-A	374800		
	128-A	64100		438900
16:	mod. 139-A	12500		
	181-E		545900	
	184-E	-10700		551700
17:	mod. 179-E	41100		
	188-E	47400		88500



Unit B/C - Phase I
Change Order Analysis
Skidy Construction

		Contingency	Reimb	Total
Change Order 18: mod.	186-A	28600		
	198-P	N/C		
	203-E	82500		111100
19: mod.	208-E	- 263500		
	209-E	732800		
	210-E	43600		
	211-E	58000		570900
20: mod.	199-E	69100		
	214-P	91500		160600
21: mod.	219-E	2406900		
	220-P	36300		2443200
22: mod.	201-E	- 122900		
	229-E	- 47600		(170500)
23: mod.	286-E	(400000)		(400000)
24: mod.	51-P	N/C		
	239-E	1593700		1593700
25: mod.	165-P		115400	
	237-P		N/C	
	245-E	31400	23100	
	246-E	580800		750700
26: Correction		(31400)	(138500)	(169900)
27: mod.	248-E	1157200		
	231-P	N/C		1157200
			549900	$ 12564900



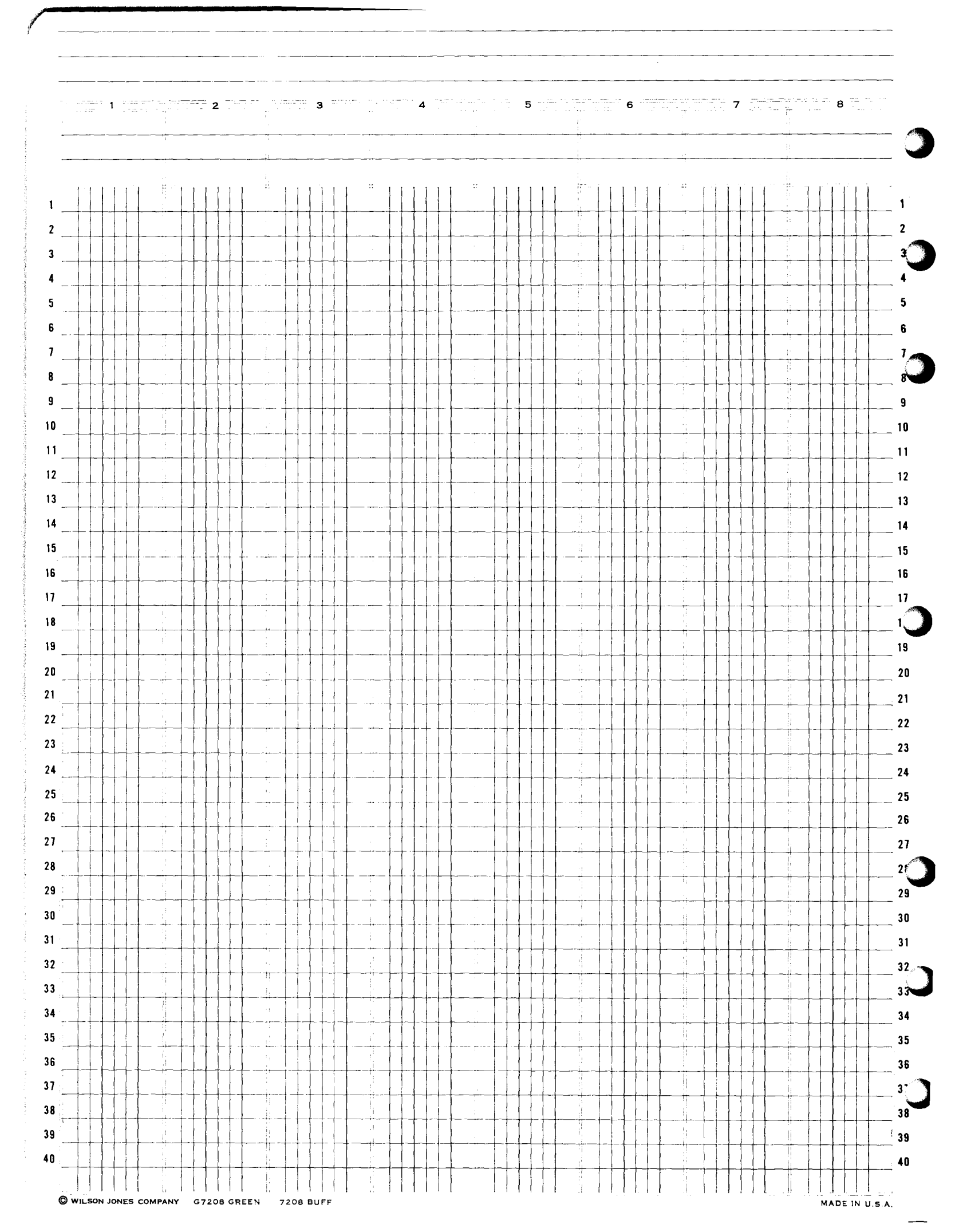
Unit B/C - Phase I
Change Order Analysis
As of July 31, 1979

FEDERAL Project # MINN-18-H.P.

I. Shaeby Construction (General Contractor):	
Original Contract:	$15,305,000.00
Change Orders 1 Thru 27-	+ 125,564.00
Reimbursable	- 549.00
Revised Contract Amount	$15,312,065.00
II. Hagen Contractors (Mechanical):	
Original Contract:	$6,878,650.00
Change Orders 1 Thru 29-	(105,165.40)
Revised Contract Amt	$6,773,484.60
III. PREMier Electric Co.	
Original Contract:	$3,430,900.00
Change Orders 1-24	+ 263,560.24
REimbursable	- 19,895.65
Revised Contract Amt	$3,407,693.59

Note: A complete analysis of each contract is attached.

There are other contracts ongoing in Building B/C as we are currently infilling the remaing shell space. In some cases the work areas overlap. ~~Therefore~~ Therefore, we maintain complete records ~~so~~ so that each portion correctly accounts for their funds and obligations.



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
REGION V
300 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

OFFICE OF THE
PRINCIPAL REGIONAL OFFICIAL

August 9, 1979

Our Reference: MINN-18 (HP)
Health Science Expansion B/C
University of Minnesota
Minneapolis, Minnesota

Final Inspection - July 18, 1979

Mr. Paul J. Maupin
Health Science Planning Coordinator
University of Minnesota
4104 Powell Hall
Minneapolis, Minnesota 55455

Dear Mr. Maupin:

A final inspection was made at subject facility on July 18, 1979 on the new construction of Building B/C. The remainder of the project consists of renovation construction in Diehl Hall, which shall be identified with a suffix and handled as a separate project through review and construction.

Persons in attendance were:

Victor Scott, University Of Minnesota
Paul J. Maupin, University of Minnesota
Oliver W. Hughes, University of Minnesota
Jim Hastert, University of Minnesota
Paul Kopietz, University of Minnesota
Richard Hendricks, University of Minnesota
Wallace Mellum, University of Minnesota
Duane E. Blanchard, HSAE, Architects and Engineers
Ken Fick, Sheehy Construction Company
Ray Anderson, Hayes Contractors
Earl Romnes, Westinghouse Elevator Co.
Fred Janke, Premier Electric
Samuel R. Curiale, P.E., DHEW/ROFEC-Chicago

Construction is 99+ complete with 100% occupancy. The facility is esthetically attractive externally and internally, and workmanship in construction appears to have been exceptionally good.

Please advise this office when all of the items listed below have been accomplished and/or resolved.

1. Submit to this office certification from the Architect/Engineer when all systems and items of equipment have been adjusted, tested and approved. Include the following:

a. Ventilation air balancing report showing actual cfm vs. design cfm. This report shall not be submitted until reviewed and approved with signature by the design engineer.

b. Letter from the fire department that they have inspected and approved the fire alarm system.

c. Manufacturer's certification that the flame spread rating of the floor carpeting does not exceed 75.

d. Certified test approving the x-ray shielding by a radiologist or physicist.

e. Certified test of air tightness of all fume ducts per specifications.

f. Letter from the University of Minnesota certifying to a complete test of operations (including smoke dampers) of the smoke control system.

g. Certification that the "Rubatex" pipe insulation has a flame spread rating not exceeding 25, and a smoke developed rating not exceeding 150.

h. Test report on the equipotential grounding systems per NFPA No. 56A.

2. The insulation on fittings and equipment were noted to be wrapped with canvas, contrary to our review letters and HSAE's response. Please respond.

3. Mark all filter manometers for the maximum static points for filter cleaning or changing.

4. Handicap Toilet Rooms:

a. Have all tilt type mirrors permanently in tilt position rather than latched back to walls.

b. There are several handicap toilet stalls noted to have only one wall-mounted grab bar, such as on the 12th and 3rd floors. Check all handicap toilet stalls.

c. Complete identification of all handicap toilet rooms.

5. Eleventh floor Animal O.R.'s - these rooms are not equipped with isolated power or conductive flooring, therefore no inhalation gases are permitted. Post signs to this effect.

6. The chute door on the 9th floor was lacking a latching device. Correct.

7. Remove debris and temporary hold-open devices on all fire dampers. Check for proper operations to fully closed positions.

8. Provide a system of visual alarms in the fire alarm system for the benefit of persons with hearing disabilities.

9. Minor O.R.'s, Recovery Room, and Holding Prep Room: All of these areas are equipped with equipotential grounding systems, however, none of the plug-in jacks are used to connect the movable equipment having conductive surfaces. Though these life saving devices were installed, they are not being used. It is incumbent on the Owner, to assure maximum safety to patients in accordance with NFPA No. 56A.

10. Several faucets in Clinical Laboratory were without red tags for the vacuum breaker loop systems. If these faucets are not connected thereto, provide vacuum breakers or anti-hose adapters.

11. Vacuum breakers were not found for any of the floor flush drains in the dog areas in Diehl Hall. If these are not connected to the vacuum breaker loop systems, provide vacuum breakers.

12. The activation of a manual fire alarm pull station will cause the respective zone to negatize even though the fire hazard is not in that zone. Request an investigation be made to determine what is involved, including cost, to remove this condition. Please respond.

13. Payrolls were spot checked and all appeared to be in order.

14. A Form FEC 2-14 is required to be completed with all cost data and change order information in order to close out this project on a partial basis for the new construction. A final FEC 2-14 report is necessary on total completion of the project including the renovation construction in Diehl Hall. The required gathering of information is in process with Mr. Paul Maupin for subsequent completion.

15. A copy of Form FEC 4-24a is included for your information.

For further discussions on the above, please contact Samuel R. Curiale, P.E. at (312) 353-2757.

Sincerely yours,

Sal A. Cannella

Sal A. Cannella, R.A.
Chief, Design and Engineering
Division of Regional Operations
Facilities Engineering
and Construction

Enclosure

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
4103 Powell Hall, Box 75
500 Essex Street S.E.
Minneapolis, Minnesota 55455
(612) 373-8981

August 23, 1979

TO: Mr. Oliver Hughes
Construction Superintendent

FROM: Paul J. Maupin
Health Sciences Planning Coordinator

SUBJECT: Unit B/C - Phase I
Federal Inspection - July 18, 1979

I have attached a copy of the Federal report submitted to this office on August 9, 1979 relative to the July 18, 1979 inspection.

We have highlited those areas that fall under your responsibility. Please submit your response to this office within 10 working days.

PJM:jm

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
OFFICE OF FACILITIES ENGINEERING AND PROPERTY MANAGEMENT

FINAL REPORT ON CONSTRUCTION

1. Project No. MINN-18-HP
2. Project Type NEW CONSTRUCTION
3. Applicant CITY of MINN
4. Project Location 516 DELAWARE ST. S.E. MINN MN 55455
5. Project Description (as completed)

5a. The project has been constructed to conform with applicable Federal statutes and regulations.

YES

6. Date of Final Inspection
7-18-79

7. Contract Completion Date (if known)

8. Date of Substantial Completion
12-78

9. Date of Occupancy (if known)
JAN & FEB. 1979

10. Participants at Final Inspection

V. SCOTT
PS MAUPIN
OW HUGHES
P. KONIETZ
D. HENDRICKS
W. MELLEN
DUANE BLANCHARD
KEN FICK
RAY ANDERSON
EARL ROMAES
FRED JAHNKE
SAM CUNIA

11. a. Final A E and Construction Related Costs (Type of Construction - New [X] Addition [ ] Alteration [ ]

	Total Costs	Ineligible Costs
b. Building Cost	$	$
Built-in Equipment		
Site Work		
Central Utility Plant		
Total Construction		
A/E Fees		
Other A E Costs		
Total A E Costs		
Construction Management Fees		
TOTAL	$	$

EXHIBIT VII

c. The items previously ruled ineligible for Federal participation are as follows: (List by specific identification and cost)

d. It is recommended that the following additional items also be found ineligible for Federal participation. (List by specific identification and cost)

12. Summary of Construction and Built-in Equipment Contracts

Contractor	$ Base Contract	$ Change Orders	Total $ Cost
Premier	3,343,500 (2)	+263,560.24	3,607,060.24
Hayes	[illegible]	<105,125.40>	6,773,484.00
Shady	15,305,000 (2)	+ 12,564 (2)	15,317,564 (2) (1)

(2) 5490.00

(1) 198,956.65 Remove Existing Sewer

13. A tabulation of areas contained in the completed facility is attached. (HEF Projects Only) ___ Check

Date

REC FEC Engineer

Regional Engineer

Instructions: For Office of Education and National Institutes of Health, all items on the form shall be completed. For Health Facilities projects, items 11, 12, and 13 may be omitted unless requested by Program.

EXHIBIT "II

university of minnesota

memo

date August 23 19 79

to Bob Swanson

from Paul Maupin

Attached is a copy of the Federal report following the July 18, 1979. Please respond to the items highlited.

S-92050

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
REGION V
300 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

OFFICE OF THE
PRINCIPAL REGIONAL OFFICIAL

August 9, 1979

Our Reference: MINN-18 (HP)
Health Science Expansion B/C
University of Minnesota
Minneapolis, Minnesota

Final Inspection - July 18, 1979

Mr. Paul J. Maupin
Health Science Planning Coordinator
University of Minnesota
4104 Powell Hall
Minneapolis, Minnesota 55455

Dear Mr. Maupin:

A final inspection was made at subject facility on July 18, 1979 on the new construction of Building B/C. The remainder of the project consists of renovation construction in Diehl Hall, which shall be identified with a suffix and handled as a separate project through review and construction.

Persons in attendance were:

- Victor Scott, University Of Minnesota
- Paul J. Maupin, University of Minnesota
- Oliver W. Hughes, University of Minnesota
- Jim Hastert, University of Minnesota
- Paul Kopietz, University of Minnesota
- Richard Hendricks, University of Minnesota
- Wallace Mellum, University of Minnesota
- Duane E. Blanchard, HSAE, Architects and Engineers
- Ken Fick, Sheehy Construction Company
- Ray Anderson, Hayes Contractors
- Earl Romnes, Westinghouse Elevator Co.
- Fred Janke, Premier Electric
- Samuel R. Curiale, P.E., DHEW/ROFEC-Chicago

Construction is 99+ complete with 100% occupancy. The facility is esthetically attractive externally and internally, and workmanship in construction appears to have been exceptionally good.

Please advise this office when all of the items listed below have been accomplished and/or resolved.

1. Submit to this office certification from the Architect/Engineer when all systems and items of equipment have been adjusted, tested and approved. Include the following:

a. Ventilation air balancing report showing actual cfm vs. design cfm. This report shall not be submitted until reviewed and approved with signature by the design engineer.

b. Letter from the fire department that they have inspected and approved the fire alarm system.

c. Manufacturer's certification that the flame spread rating of the floor carpeting does not exceed 75.

d. Certified test approving the x-ray shielding by a radiologist or physicist.

e. Certified test of air tightness of all fume ducts per specifications.

f. Letter from the University of Minnesota certifying to a complete test of operations (including smoke dampers) of the smoke control system.

g. Certification that the "Rubatex" pipe insulation has a flame spread rating not exceeding 25, and a smoke developed rating not exceeding 150.

h. Test report on the equipotential grounding systems per NFPA No. 56A.

2. The insulation on fittings and equipment were noted to be wrapped with canvas, contrary to our review letters and HSAE's response. Please respond.

3. Mark all filter manometers for the maximum static points for filter cleaning or changing.

4. Handicap Toilet Rooms:

a. Have all tilt type mirrors permanently in tilt position rather than latched back to walls.

[redacted] mounted grab bar, such as on the 12th and 3rd floors. Check all handicap toilet stalls.

c. Complete identification of all handicap toilet rooms.

[redacted] these rooms are not equipped with isolated power or conductive flooring, therefore no inhalation gases are permitted. Post signs to this effect.

6. The chute door on the 9th floor was lacking a latching device. Correct.

7. Remove debris and temporary hold-open devices on all fire dampers. Check for proper operations to fully closed positions.

8. Provide a system of visual alarms in the fire alarm system for the benefit of persons with hearing disabilities.

9. Minor O.R.'s, Recovery Room, and Holding Prep Room: All of these areas are equipped with equipotential grounding systems, however, none of the plug-in jacks are used to connect the movable equipment having conductive surfaces. Though these life saving devices were installed, they are not being used. It is incumbent on the Owner, to assure maximum safety to patients in accordance with NFPA No. 56A.

10. Several faucets in Clinical Laboratory were without red tags for the vacuum breaker loop systems. If these faucets are not connected thereto, provide vacuum breakers or anti-hose adapters.

11. Vacuum breakers were not found for any of the floor flush drains in the dog areas in Diehl Hall. If these are not connected to the vacuum breaker loop systems, provide vacuum breakers.

12. The activation of a manual fire alarm pull station will cause the respective zone to negatize even though the fire hazard is not in that zone. Request an investigation be made to determine what is involved, including cost, to remove this condition. Please respond.

13. Payrolls were spot checked and all appeared to be in order.

14. A Form FEC 2-14 is required to be completed with all cost data and change order information in order to close out this project on a partial basis for the new construction. A final FEC 2-14 report is necessary on total completion of the project including the renovation construction in Diehl Hall. The required gathering of information is in process with Mr. Paul Maupin for subsequent completion.

15. A copy of Form FEC 4-24a is included for your information.

For further discussions on the above, please contact Samuel R. Curiale, P.E. at (312) 353-2757.

Sincerely yours,

Sal A. Cannella

Sal A. Cannella, R.A.
Chief, Design and Engineering
Division of Regional Operations
Facilities Engineering
and Construction

Enclosure

Project # MINN 1811 Institution UNIV. OF MINN. Building B/C

Address _____ City MINNEAPOLIS State MINN C.D. _____

CHAPTER 3

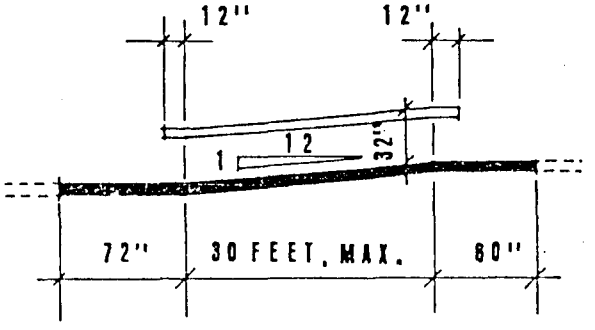
MINIMUM MANDATORY REQUIREMENTS FOR ACCESSIBILITY

The material in this chapter applies to all HEW Federally Assisted projects, including new construction and alteration projects, as required by the ANSI A117.1-1961 (R1971) Standard.

3.1 Walks

✓ a. Public walks shall be made to form a continuing common surface uninterrupted by steps or abrupt changes in level.

✓ b. A walk shall have a level platform at the top which is a minimum of 60 by 60 inches if a door swings out toward the platform or the walk. This platform shall extend at least 12 inches beyond each side of the doorway. If the door does not swing toward the platform or the walk, there shall be a level platform at least 36 inches deep and 60 inches wide, extending at least 12 inches beyond each side of the doorway.



3.2 Ramps

✓ a. Ramps shall have a maximum gradient of 8.33 percent, or one foot rise in 12 feet of run.

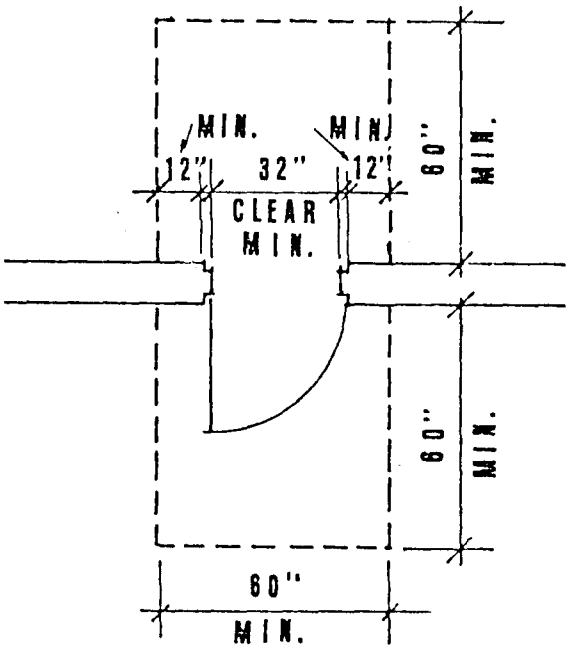
✓ b. Ramps shall have non-slip surfaces.

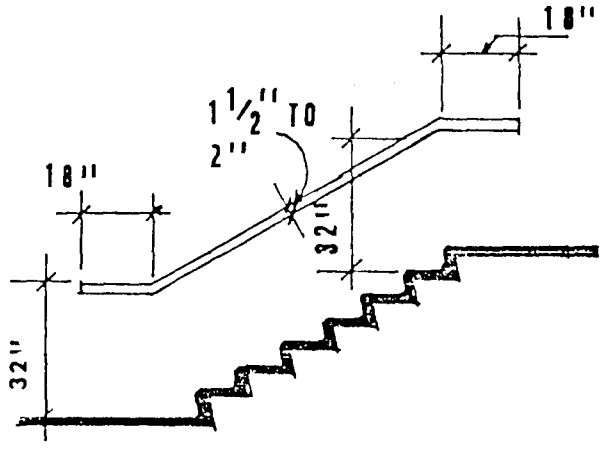
✓ c. Each ramp shall be provided with a level platform at the top at least 60 by 60 inches if a door swings out toward the platform or the ramp. If the door does not swing toward the platform or the ramp, there shall be a level platform at least 36 inches deep and 60 inches wide. All platforms shall extend at least 12 inches beyond each side of a door.

✓ d. There shall be a straight clearance of at least 72 inches at the bottom of each ramp.

✓ e. Ramps shall be provided with level landings at 30 foot intervals and at all changes in direction.

JANUAR
Rev. 8/78





✓ f. Ramps shall be provided with handrails 32 inches in height on at least one side and preferably both sides. The rails must be smooth and extend at least 12 inches beyond the top and bottom of the ramp.

✓ 3.3 Entrances

✓ a. At least one primary entrance to each building must be usable by persons in wheelchairs.

✓ b. At least one entrance accessible by wheelchair must be located on a level which is accessible to the building elevators.

3.4 Doors

✓ a. Doors must have a clear opening of at least 32 inches when open and must be operable by a single effort.

✓ b. The floor on both the inside and outside of each door must be level for at least 60 inches from the door in the direction of the swing. The floor shall extend at least 12 inches beyond each side of the door.

✓ c. Thresholds shall be flush with the floor if possible. Sharp inclines and abrupt changes in level must be avoided at doorsills.

3.5 Floors

✓ a. Floors must be on a common level throughout a given story, or be connected by ramps as described above.

✓ b. Floors must have non-slip surfaces.

3.6 Stairs

✓ a. Steps shall not have square or abrupt nosings.

✳ b. Stairs shall have handrails 32 inches high measured vertically from the stair nosing. At OK. least one handrail must extend at least 18 inches beyond both the top and the bottom step.

✳ Top is 14"
Bottom one 18"

38"

3.7 Elevators

✓ a. Elevators must be accessible at the level of the major building entrance which is usable by the handicapped. These elevators must give access to all building levels normally used by the public.

✓ b. Elevator cab size must allow for the movement of a wheelchair sufficient for the independent use and operation of the elevator. Space for a 180 degree turn is not required in all cases, but is recommended where necessary for accomplishing the usual function of the elevator.

✓ c. Door clear opening width must be 32 inches minimum.

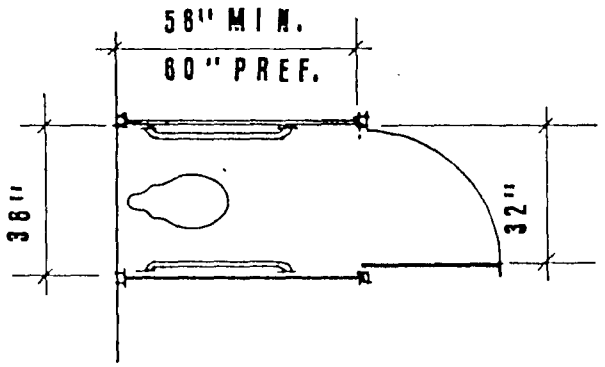
✓ d. All essential controls which can be approached for unilateral vertical reach from a wheelchair shall be mounted at a maximum height of 54 inches to 78 inches. It is recommended that a maximum height of 60 inches be observed. Controls requiring a diagonal reach from a wheelchair shall be mounted no higher than 48 inches from the floor.

3.8 Toilet Facilities

✓ a. An appropriate number of toilet rooms shall be accessible to and usable by the physically handicapped.

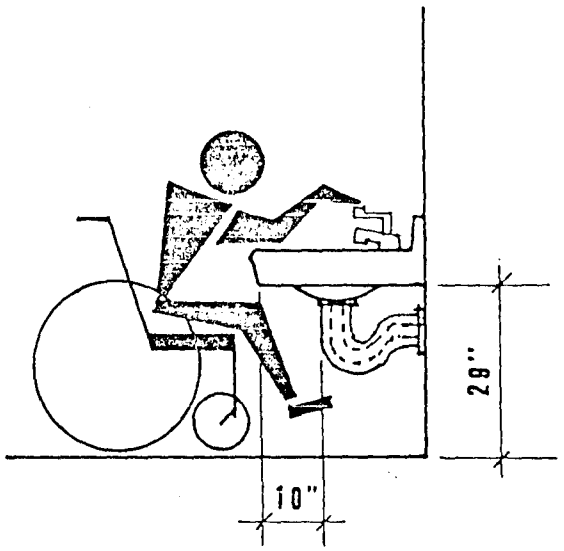
✓ b. Accessible toilet rooms shall have sufficient space to allow for wheelchair traffic.

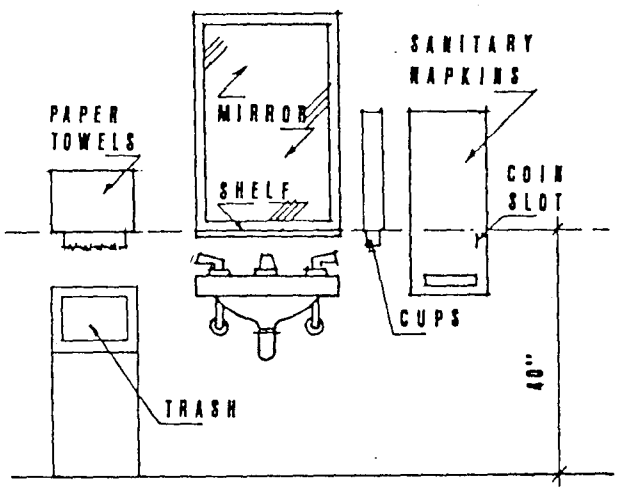
✓ c. At least one toilet stall in each toilet room serving the handicapped shall have:



✓ (1) A minimum width of 36 inches and a depth of at least 56 (and preferably 60) inches.

✓ (2) A door (where doors are used) 32 inches wide which swings out.





(3) Wall-mounted grab bars on each side, 1-1/2 inches in diameter, 1-1/2 inches clear of the wall, and mounted securely at ends and center 33 inches high and parallel to the floor. * 29" TO TOP

(4) A water closet with seat 20 inches above the floor.

d. At least one lavatory in each toilet room serving the handicapped shall be mounted with a 29-inch minimum clearance underneath the apron of the fixture.

e. Men's toilet rooms shall have wall-mounted urinals with the rim 19 inches above the floor, or shall have floor-mounted urinals which are at the same level as the main floor of the toilet room.

f. Mirrors and shelves shall be mounted above accessible lavatories at as low a height as possible, but not to exceed 40 inches from the bottom of the mirror to the floor.

g. At least one towel dispenser or towel rack and one each of other dispensers and disposal units shall be mounted no higher than 40 inches above the floor. * = 17"

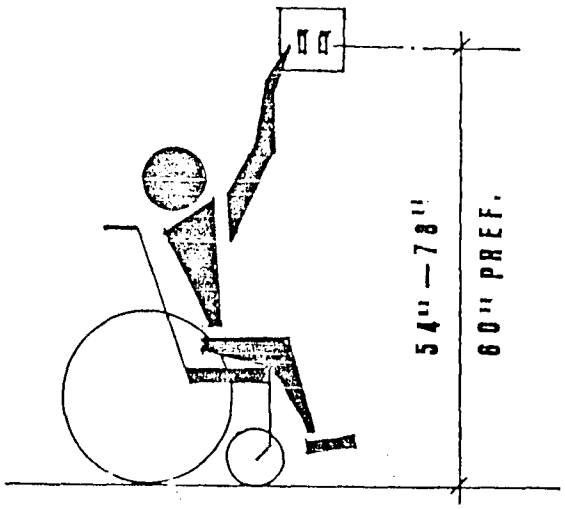
3.9 Drinking Fountains

a. An appropriate number of drinking fountains or other water dispensers which are usable by the physically handicapped shall be provided at accessible locations.

b. The fountain must be hand-operated or hand-and-foot operated with up-front water jet and controls.

3.10 Controls

a. All essential or frequently used controls shall be located within reach of persons in wheelchairs.



✓ b. Fire alarm stations, electrical switches, thermostats, and door, window and drapery controls which can be approached for unilateral vertical reach from a wheelchair shall be mounted at a maximum height of 54 inches to 78 inches. It is recommended that a maximum height of 60 inches be used. Controls requiring a diagonal reach from a wheelchair shall be mounted no higher than 48 inches from the floor.

3.11 Identification and Warning

✓ a. Plaques bearing raised letters or numbers shall be used to identify rooms or offices.

✓ b. Warning signals shall be both visible and audible for the benefit of persons with either hearing or visual disabilities. ~~*~~ NONE WITHIN

✓ c. Low-hanging signs, light fixtures, door closers, or similar objects which protrude into regular traffic ways shall be avoided.

✓ d. Hazardous areas of a temporary nature, such as construction sites, open manholes, elevator shafts, etc. shall be separated on all open sides from normal pedestrian traffic by barricades placed at least 96 inches from the hazard and equipped with both visible and audible warning devices.

[signature] 7-20-79
Signature Date

UNIVERSITY OF MINNESOTA
TWIN CITIES

Interior Design and Graphics
Office of Physical Planning
530 Johnston Hall
101 Pleasant Street S.E.
Minneapolis, Minnesota 55455
(612) 373-2030

29 August, 1979

To: Paul Maupin

From: Lee Meyer

Subject: BC Phase I Federal Inspection (restroom identification)

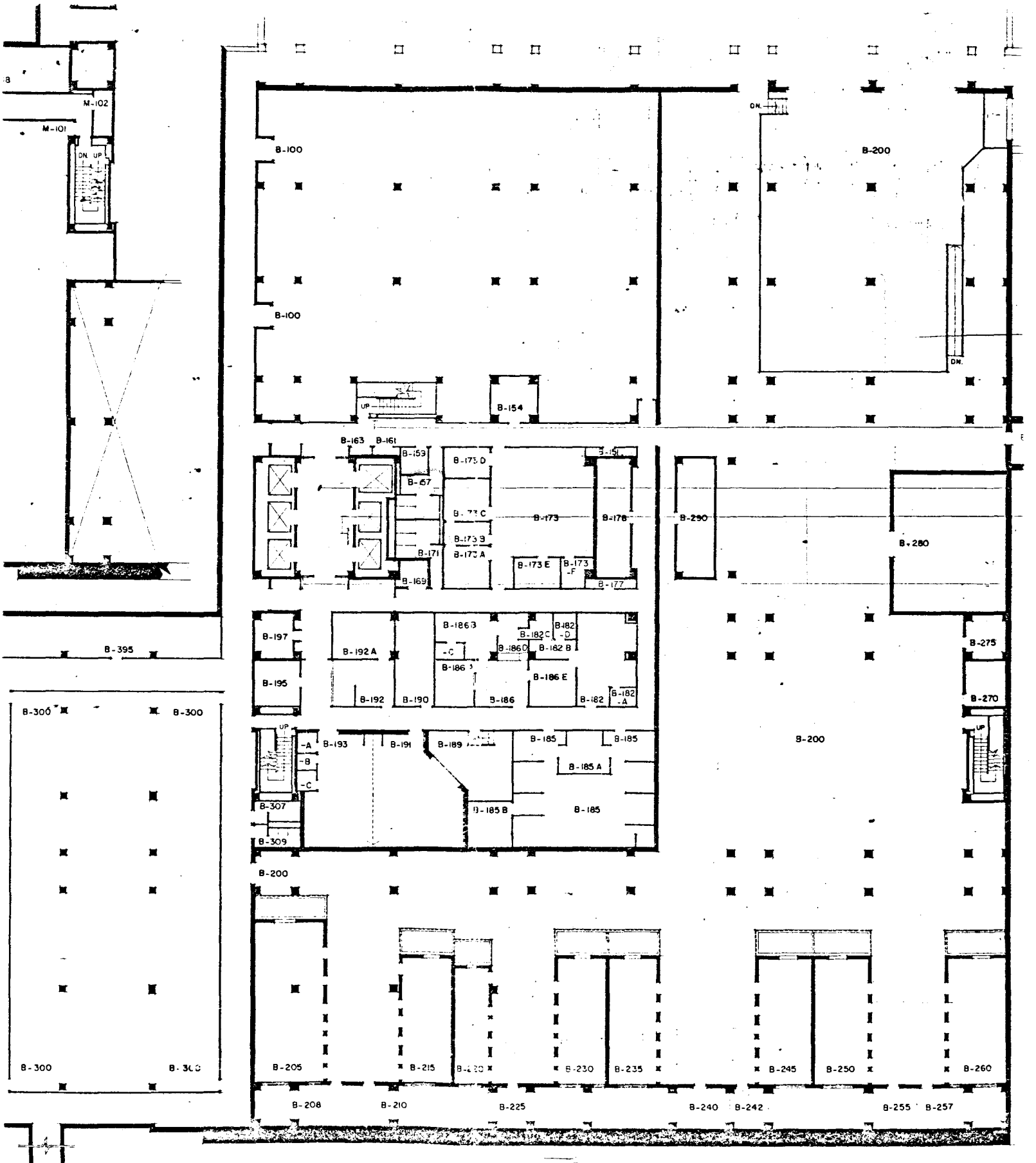
In reference to your inquiry into the identification of the handicapped facilities in BC, I presume that the deficiencies are in the lack of a handicapped symbol for the restrooms internal to the clinic waiting areas. The major public restrooms fronting corridors were identified with the acrylic signs, featuring raised copy and screened handicapped symbol.

The restroom signs for the areas internal to the clinics can be modified by providing appropriate inserts for the sign holders. I have ordered inserts for the signs as noted on the attached plan set, and will have them installed. This should be corrected within a week or so.

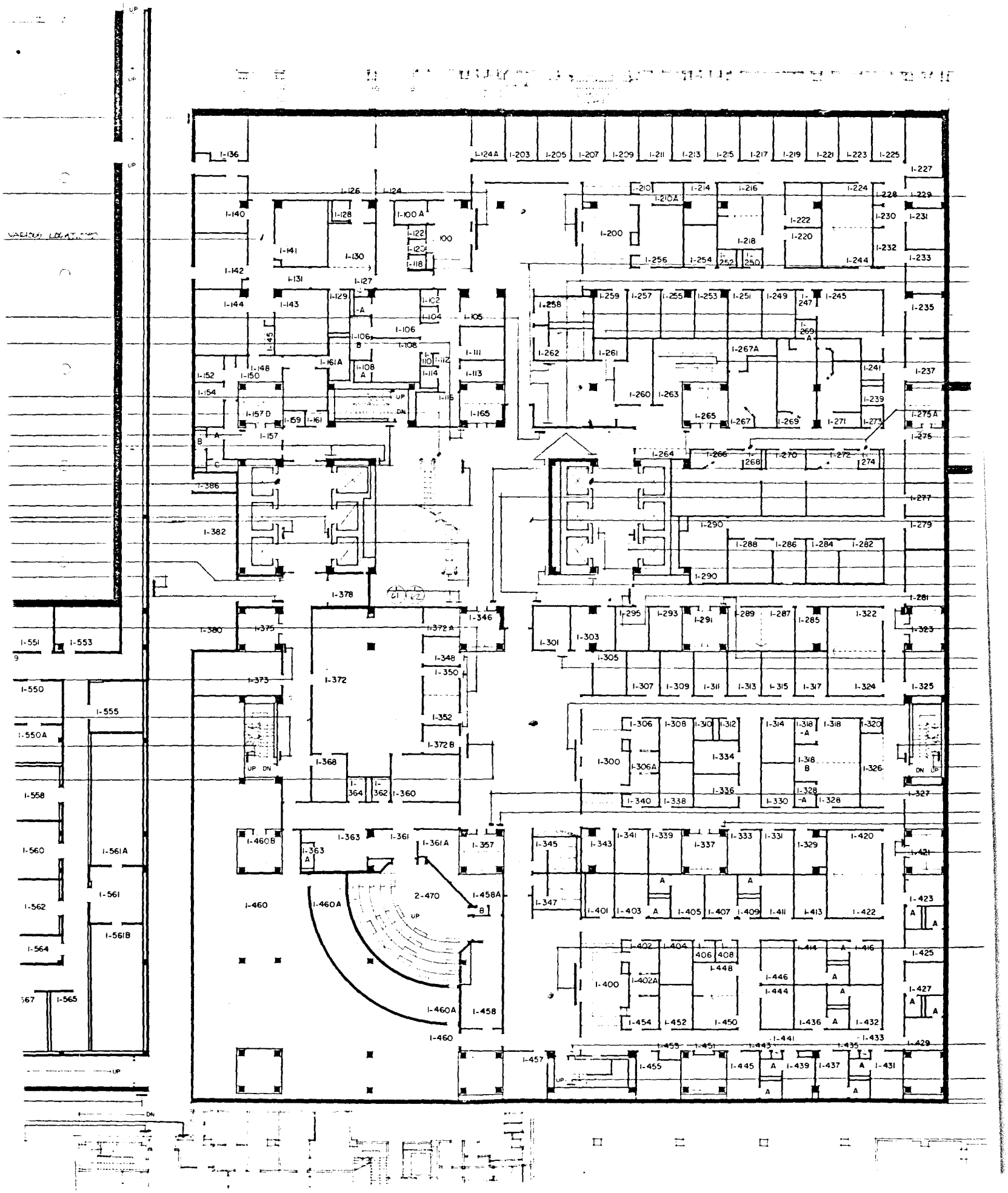
Paul, if you have any other questions regarding this, please give me a call.

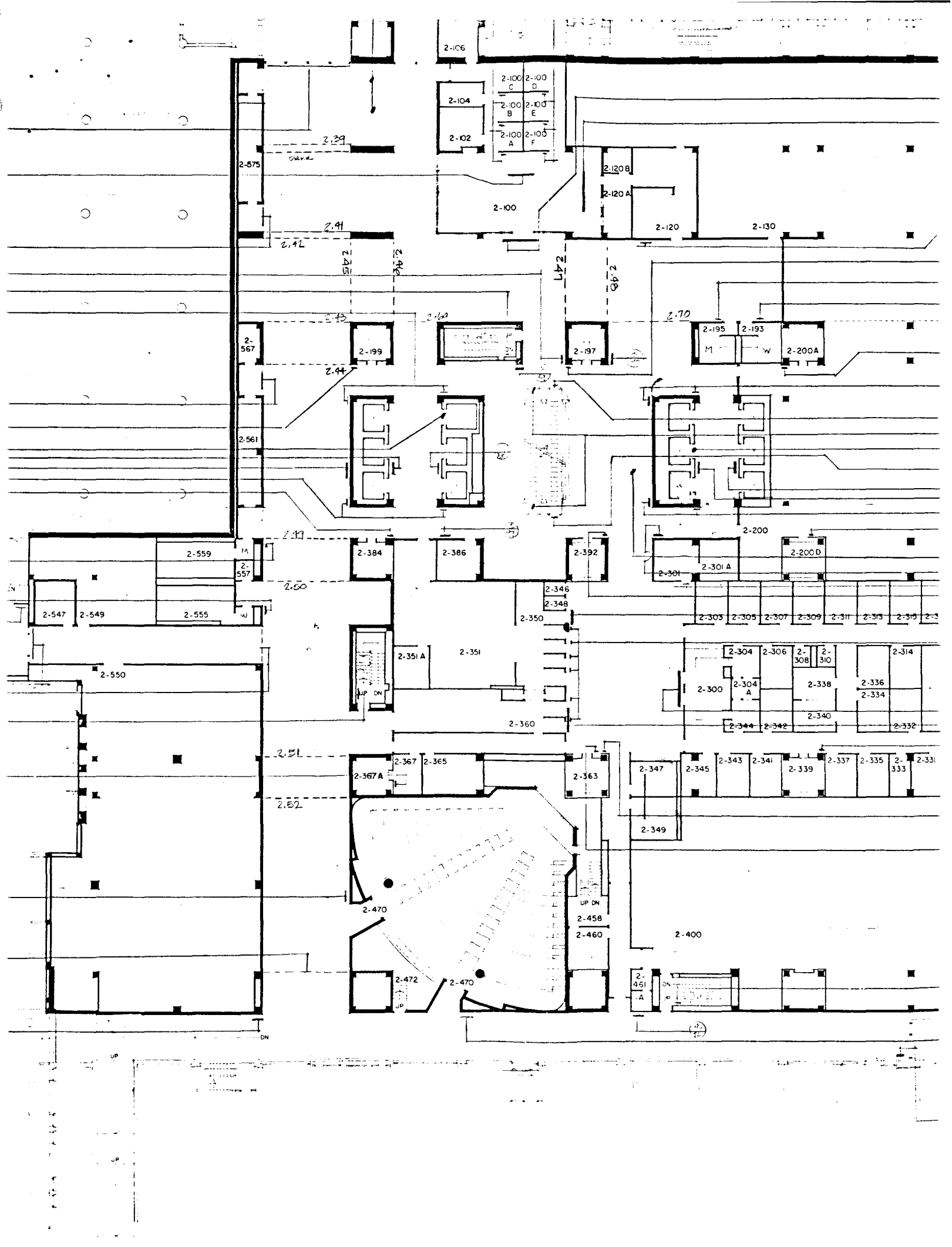
LM

enc.

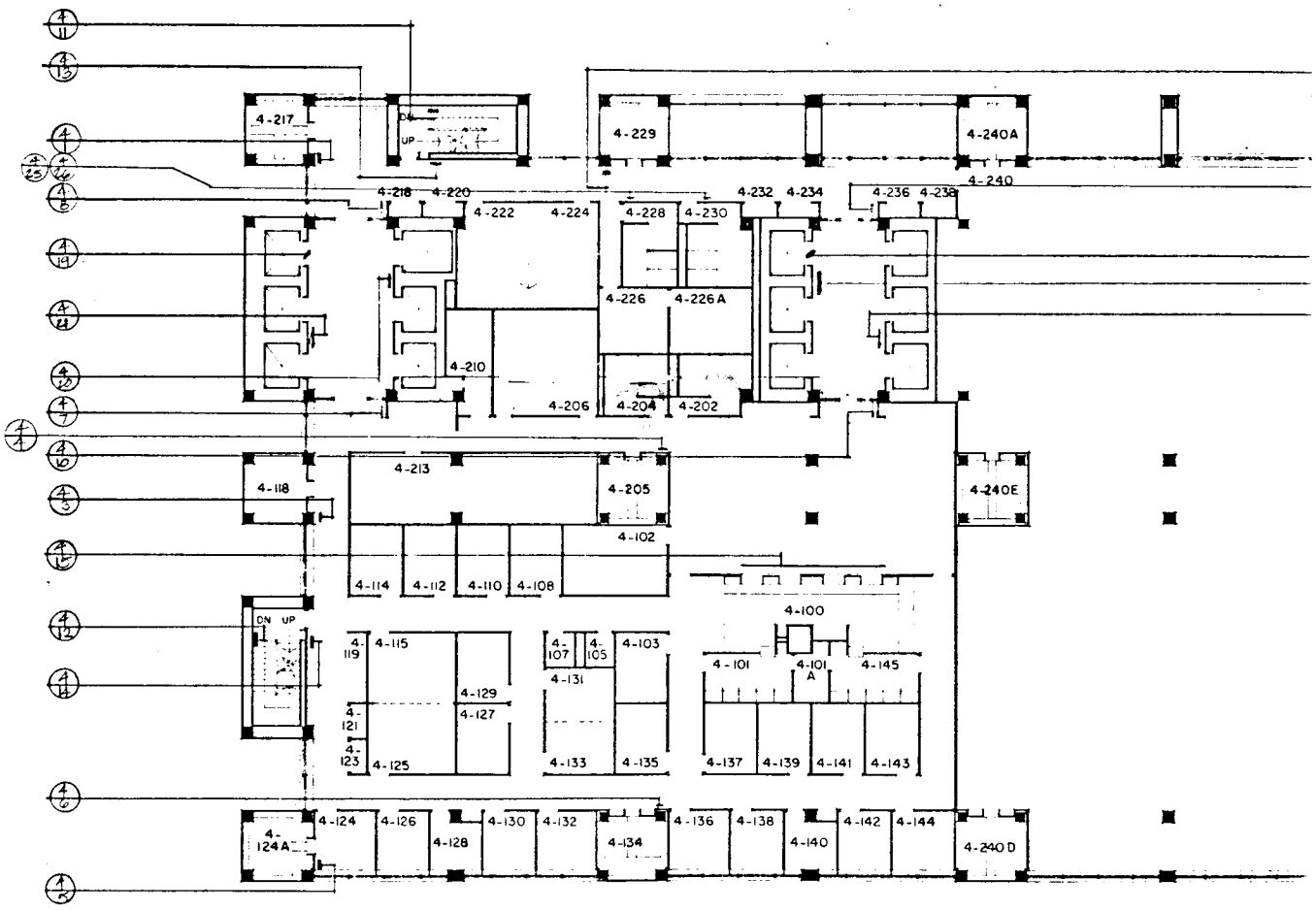

M-102
M-101
DN.
UP
B-100
B-100
B-200
DN.
DN.
UP
B-154
B-163
B-161
B-159
B-157
B-173 D
B-173 C
B-173 B
B-173 A
B-171
B-169
B-173
B-178
B-173 E
B-173 -F
B-177
B-150
B-290
B-280
B-395
B-197
B-195
B-192 A
B-192
B-190
B-186 B
-C
B-186 D
B-186 C
B-182 C
-D
B-182 B
B-186 E
B-182
B-182 -A
B-275
B-270
B-300
B-300
B-300
B-300
UP
-A
-B
-C
B-307
B-309
B-193
B-191
B-189
B-185
B-185
B-185 A
B-185 B
B-185
B-200
B-200
B-205
B-215
B-230
B-235
B-245
B-250
B-260
B-208
B-210
B-225
B-240
B-242
B-255
B-257

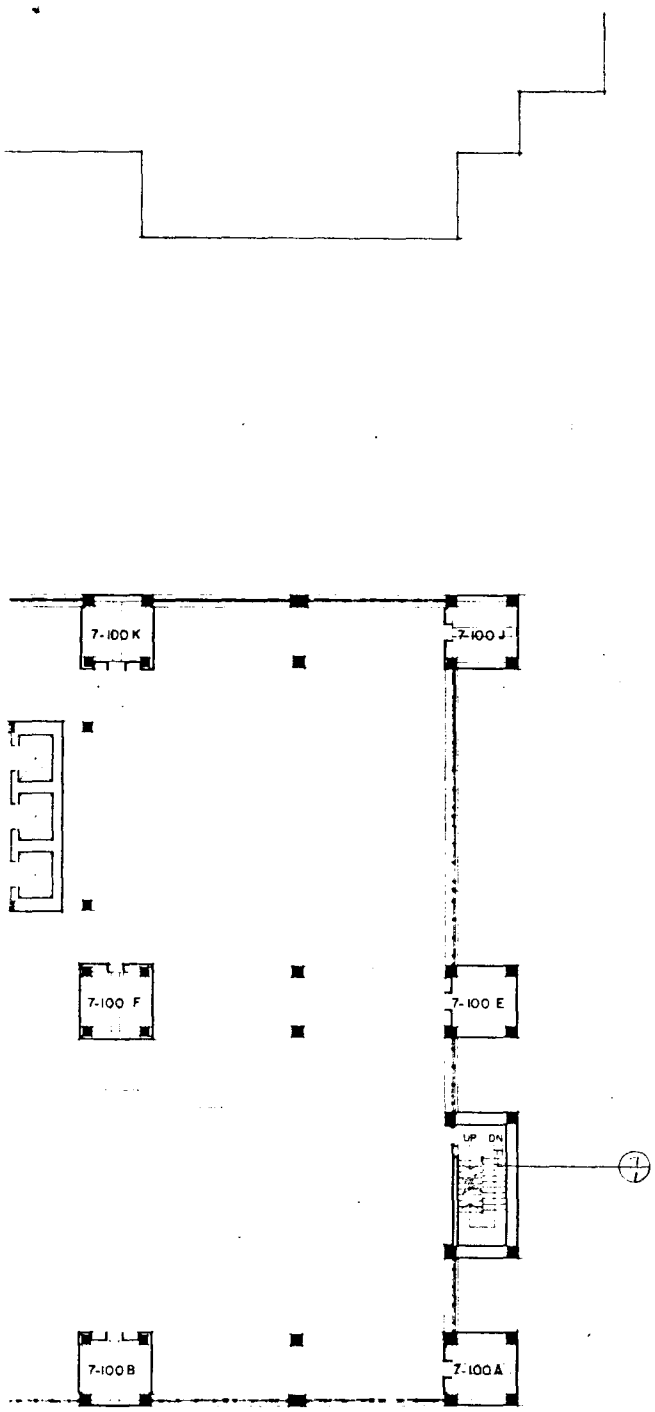
BASEMENT

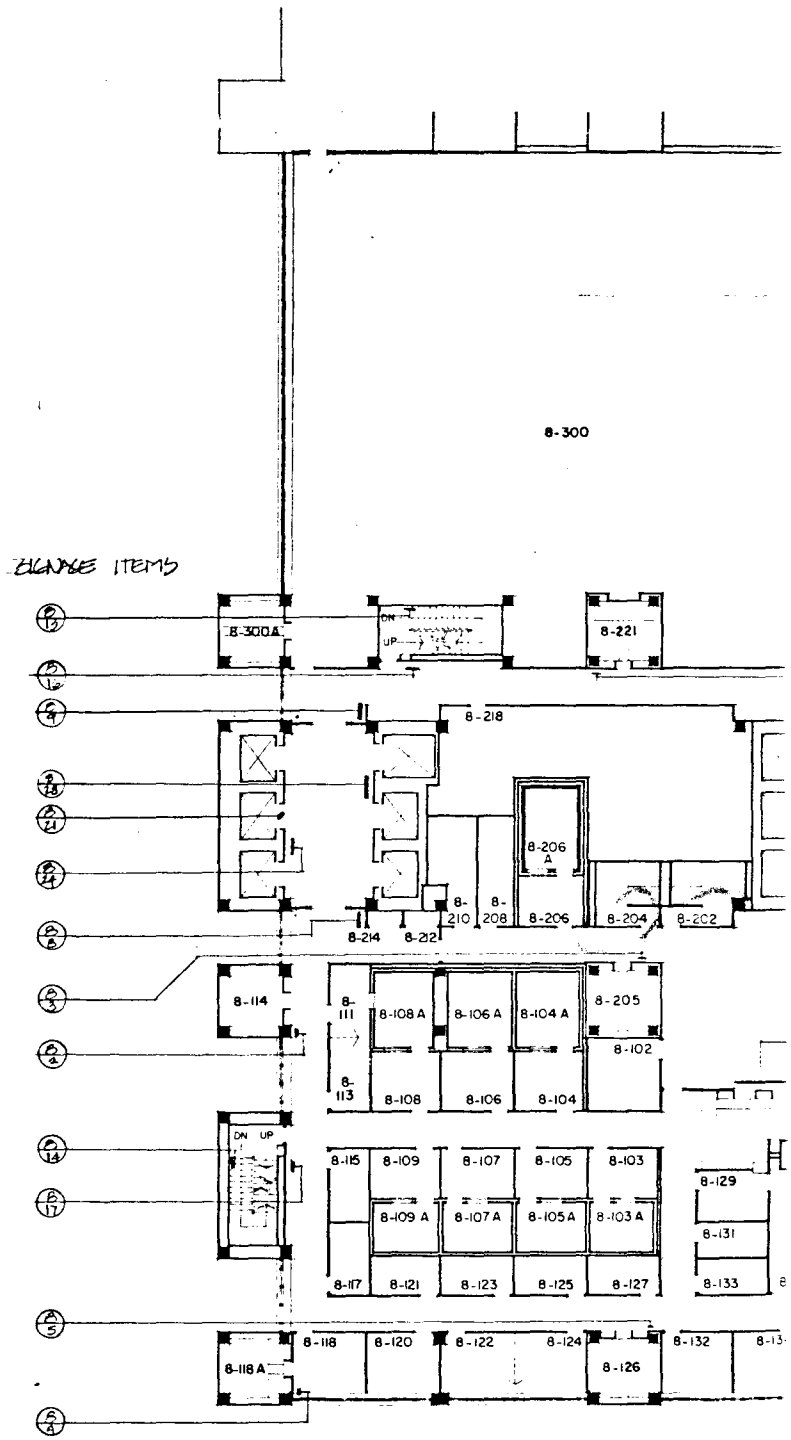

1-136
1-124A
1-203
1-205
1-207
1-209
1-211
1-213
1-215
1-217
1-219
1-221
1-223
1-225
1-227
1-126
1-124
1-210
1-214
1-216
1-224
1-228
1-229
1-140
1-128
1-100 A
1-210A
1-230
1-231
1-122
100
1-200
1-222
1-220
1-141
1-130
1-123
1-218
1-232
1-142
1-118
1-256
1-254
1-252
1-250
1-244
1-233
1-131
1-127
1-144
1-143
1-129
1-102
1-258
1-259
1-257
1-255
1-253
1-251
1-249
1-247
1-245
1-235
A
1-104
1-105
1-145
1-106
1-106B
1-108
1-269A
1-262
1-261
1-267A
1-111
1-161A
1-108A
1-110
1-112
1-241
1-152
1-148
1-150
1-114
1-113
1-237
1-154
1-260
1-263
1-239
1-157D
1-159
1-161
1-115
1-265
1-267
1-269
1-271
1-273
1-275A
1-165
1-157
1-264
1-266
1-268
1-270
1-272
1-274
1-275
1-386
1-277
1-382
1-290
1-279
1-288
1-286
1-284
1-282
1-290
1-378
1-281
1-346
1-295
1-293
1-291
1-289
1-287
1-285
1-322
1-323
1-380
1-375
1-372A
1-301
1-303
1-305
1-348
1-350
1-373
1-372
1-307
1-309
1-311
1-313
1-315
1-317
1-324
1-325
1-551
1-553
1-550
1-555
1-352
1-550A
1-372B
1-306
1-308
1-310
1-312
1-314
1-318A
1-318
1-320
1-334
1-300
1-306A
1-318B
1-326
1-368
1-558
1-364
1-362
1-360
1-336
1-340
1-338
1-330
1-328A
1-328
1-327
1-560
1-561A
1-460B
1-363
1-361
1-361A
1-357
1-345
1-343
1-341
1-339
1-337
1-333
1-331
1-329
1-420
1-421
1-562
1-561
1-363A
1-460
1-460A
2-470
1-458A
1-347
1-401
1-403
1-405
1-407
1-409
1-411
1-413
1-422
1-423
1-564
1-561B
1-402
1-404
1-406
1-408
1-414
1-416
1-425
1-448
1-400
1-402A
1-446
1-444
1-427
1-567
1-565
1-460A
1-458
1-454
1-452
1-450
1-436
1-432
1-441
1-433
1-460
1-455
1-451
1-443
1-435
1-429
1-457
1-455
1-445
1-439
1-437
1-431
UP
DN


2-106
2-104
2-102
2-100 C
2-100 D
2-100 B
2-100 E
2-100 A
2-100 F
2-100
2-120B
2-120A
2-120
2-130
2-575
2.39
2.41
2.42
2.45
2.46
2.47
2.48
2.70
2-567
2-199
2-197
2-195
2-193
M
W
2-200A
2.44
2-561
2-200
2-200D
2-559
2-557
2.49
2.50
2-384
2-386
2-392
2-301
2-301A
2-547
2-549
2-555
2-346
2-348
2-350
2-303
2-305
2-307
2-309
2-311
2-313
2-315
2-317
2-351A
2-351
2-550
2-304
2-306
2-308
2-310
2-314
2-300
2-304A
2-338
2-336
2-334
2-340
2-344
2-342
2-332
2-360
2.51
2.52
2-367
2-365
2-367A
2-363
2-347
2-345
2-343
2-341
2-339
2-337
2-335
2-333
2-331
2-349
2-470
2-458
2-460
2-400
2-472
2-470
2-451A
UP
DN

SIGNAGE ITEMS

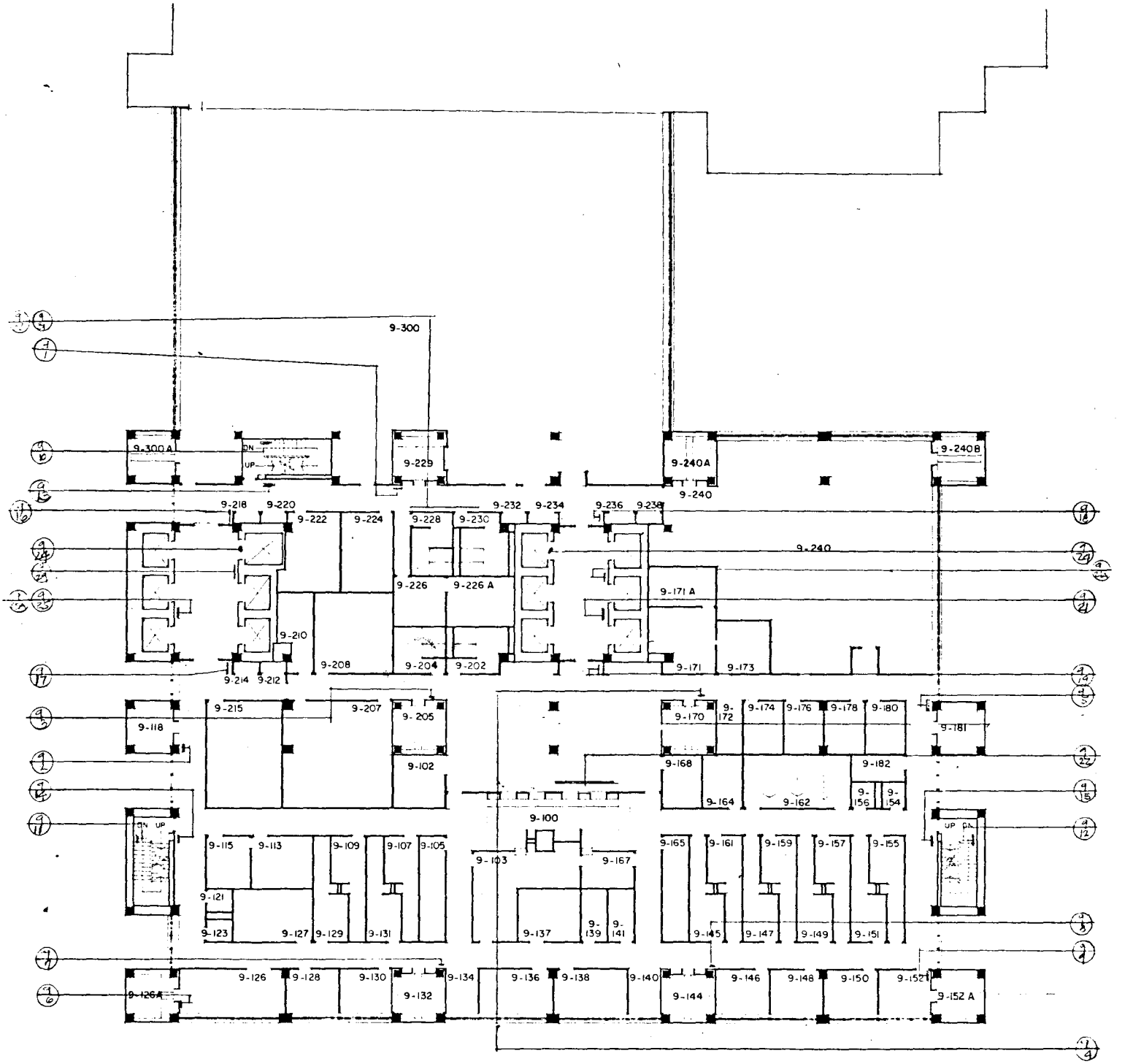






EIGHTH FLOOR

SIGN LOCATIONS


9-300
9-300A
DN
UP
9-229
9-240A
9-240
9-240B
9-218
9-220
9-222
9-224
9-228
9-230
9-232
9-234
9-236
9-238
9-226
9-226 A
9-171 A
9-210
9-208
9-204
9-202
9-214
9-212
9-171
9-173
9-215
9-207
9-205
9-118
9-102
9-170
9-172
9-174
9-176
9-178
9-180
9-181
9-168
9-182
9-164
9-162
9-156
9-154
9-100
9-115
9-113
9-109
9-107
9-105
9-103
9-167
9-165
9-161
9-159
9-157
9-155
9-121
9-123
9-127
9-129
9-131
9-137
9-139
9-141
9-145
9-147
9-149
9-151
9-126
9-128
9-130
9-132
9-134
9-136
9-138
9-140
9-144
9-146
9-148
9-150
9-152
9-126A
9-152 A

NINTH FLOOR

HSAE

HEALTH SCIENCES ARCHITECTS AND ENGINEERS INC
UNIVERSITY PARK PLAZA SUITE 704 2829 UNIVERSITY AVENUE S.E. MINNEAPOLIS, MINNESOTA 55414 (612) 378-3833

31 August 1979

Rec'd

UNIV. OF MINN.
HEALTH SCIENCE
PLANNING OFFICE

Mr. Paul J. Maupin
Health Sciences Planning Coordinator
University of Minnesota
4104 Powell Hall
Minneapolis, Minnesota 55455

RE: Unit B/C-Phase I
Federal Inspection July 18, 1979

Dear Mr. Maupin:

In response to your memorandum to me dated August 23, 1979, we offer the following comments on the highlited items marked on the enclosed ROFEC letter dated August 9, 1979.

PETE MERZ

1a. As you are aware, ventilation air balancing is being performed by Mechanical Data Corporation under separate independent contract awarded by the University. We will, however, be happy to review the air balance report of actual cfm vs. design cfm when the document is complete and submitted to us by this Contractor or by the University.

DAVE KERKOW OR DON HERRON

1b. We understand the Contractor has performed the specified testing of the fire management system of which the fire alarm system is a part. The results of this testing apparently were submitted to University Engineering and Construction. If a Fire Department inspection and certification of the system is required, this should be arranged by the appropriate University authority.

JEFF HAGEN

1c. The Contract Documents of the project indicate floor carpet is "not-in-contract". University Interiors contracted this work without our direct participation and, therefore, we cannot verify the flame spread rating. The floor carpet specifications for subsequent phases of B/C Shell Space Completion are specified to have a flame spread not exceeding 75.

1d. University Engineering and Construction indicates they are unaware of X-Ray shielding tests having been performed. You may recall the basic radiation protection system was designed in accordance with recommendations by J. Thomas Payne, Radiological Physicist, University Department of Radiology. Our specification section 13750 Radiation Protection further indicates these tests were to be performed by the Owner as follows:

E. Furnished by Owner:

1. Provide and pay for testing of rooms and spaces.

1.2 TESTING

A. After all X-Ray protection has been installed, the University's staff (Registered X-Ray Physicist), will test the entire installation with a monitoring device in accordance with National Bureau of Standards Handbook 76, Section 4. Any part of the work which is found to be deficient in required X-Ray protection (as determined by University) shall be corrected by the Contractor to test satisfactorily at no additional cost to the University.

The requested certified tests should be provided by the University's Registered X-Ray Physicist.

PETE MERZ

1e. The fume hood duct system leakage testing has been performed by the Independent Balancing Contractor who should provide the necessary certification.

DAVE KERKOW

1f. We understand the Contractor has performed the specified testing of the fire management system of which the smoke control system is a part. The results of this testing apparently were submitted to University Engineering and Construction. The appropriate University authority should provide whatever letter is necessary to indicate compliance and understanding of the operation of the system.

JIM HASTERT

1g. Manufacturer's literature indicates "Rubatex" pipe insulation has a flame spread rating not exceeding 25 and a smoke developed rating not exceeding 100. We suggest the Mechanical Contractor submit to the University the manufacturer's certification indicating the appropriate ratings.

DAVE KERKOW

h. We understand that the Electrical Contractor has performed testing of the equipotential grounding system and the satisfactory results were submitted to University Engineering and Construction.

Furthermore, we are aware that the Ambulatory Surgery conductive flooring installed under the General Contract did not meet the specified NFPA 56A requirements. Ultimately, we were given direction by University Engineering and Construction to process modification 253-E (item no. 2) dated 25 July 1979 which allowed a credit to the Contract for failure of conductivity testing of this floor area.

G HART

9. Since this item seems to be an operational rather than a design consideration, the University Departmental Users should provide the reasons why movable equipment with conductive surfaces are not plugged into jacks equipped with the equipotential ground system.

Please advise me if you need any further assistance in responding to the subject letter from ROFEC.

Sincerely yours,

HEALTH SCIENCES ARCHITECTS AND ENGINEERS, INC.

Duane E. Blanchard

DEB/kn

cc: John Patterson

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Expansion
Construction Office
611 Delaware Street S.E.
Minneapolis, Minnesota 55414

September 7, 1979

MEMO

TO: Joycene Maroney

FROM: James Hastert

RE: Unit B/C, Health Sciences Expansion
Federal Inspection Letter Dated August 9, 1979

Answers to Memo dated August 23, 1979

2. Letter sent to contractor asking for a response to number 2.

10. Item #10 Physical Plant has changed faucet use in one case. Contractor has installed tags on unmarked faucet.

11. Flushing rim floor drains are on vacuum breaker loop.

Answer to Memo dated September 6, 1979

1G Check Addendum #2, page 22, Item 100 and Mod. 54-E. Materials are enclosed.

UNIVERSITY OF MINNESOTA
TWIN CITIES

Physical Planning
Design Office
62 Folwell Hall
9 Pleasant Street S.E.
Minneapolis, Minnesota 55455
(612) 373-2048

September 10, 1979

Paul J. Maupin
Health Sciences Planning Coordinator
University of Minnesota
4104 Powell Hall
Minneapolis, Minnesota 55455

Re: Unit B/C-Phase I

Dear Paul:

This is in response to your request of September 6, 1979.

As indicated in Mr. Blanchard's letter, testing and balancing of the air and hydronic systems is being performed by Mechanical Data on a contract initiated by this office.

I have discussed the need for a final report with Mr. Nelson of Mechanical Data. However, he reminded me that it has been difficult to finalize certain systems because of Phase II construction. Subsequent phased construction, (III, IV, and VI) stand to add further complications.

By copy of this memo, I am directing Bob Hudalla of my staff to review status of Phase I testing and balancing with Mechanical Data and resolve how a final report can be completed and submitted as required.

Very truly yours,

E. B. Merz
Assistant Supervising Engineer

EBM:aep

cc: Paul Kopietz
Bob Hudalla

ABBOTT-NORTHWESTERN HOSPITAL CORPORATION

September 13, 1979

Mr. Paul J. Maupin
Health Sciences Planning Office
4103 Powell Hall, Box 75
500 Essex Street, S.E.
Minneapolis, MN 55455

Dear Paul:

Received your letter of September 6 concerning the radiation shielding protection measurements for the B/C Complex.

These measurements were made by me in February, 1979 and all of the rooms were in compliance. The Test Survey Reports are on file in the Physics Office of the Department of Radiology. I am presently no longer with the University and my replacement is Ron Droege, Ph.D., who is responsible for this information. As I indicated, the test results are in file in his office and he can be contac ted at 373-8739. All rooms were in compliance and no additional shielding or construction modifications need to be made.

If you have any questions concerning this, feel free to contact me at 874-4060.

Sincerely,

J. Thomas Payne

J. Thomas Payne, Ph.D.
Certified Radiological Physicist

JTP:vma

cc: Ron Droege, Ph.D.
Box 292, Mayo
University of Minnesota Hospitals
Minneapolis, MN 55455

UNIVERSITY OF MINNESOTA
TWIN CITIES

Engineering and Construction Division
Physical Plant Operations
26 Folwell Hall
9 Pleasant Street S.E.
Minneapolis, Minnesota 55455

September 13, 1979

TO: Paul Maupin

FROM: Dave Kerkow DBK

RE: Unit B/C - Phase I
July 18, 1979 Federal Inspection

The items you have highlighted in your memo of September 6, 1979 and attachments are supervision of construction responsibilities.

Whatever was required to be tested by the Contractor under the specifications would have been supervised and reported to Wally Mellum if it fell under the electrical contract.

Any response required should come from Wally and probably through Paul Kopietz. I have informed Paul of your memo.

If any assistance is required by Construction Supervision in order to respond, they will contact me.

DBK/sjh

cc: Paul Kopietz

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
4103 Powell Hall, Box 75
500 Essex Street S.E.
Minneapolis, Minnesota 55455
(612) 373-8981

October 11, 1979

TO: Joycene Maroney

FROM: Robert Swanson

SUBJECT: Phillips-Wangensteen Building
Unit B/C - Phase I
H.E.W. Facility Site Visit

Item 4b. Several Handicapped toilet stalls were designed with only one grab bar for the following reason:

> During the contract document preparation of Building B/C - Phase I, the Hospital requested that several "Attendant" size Handicapped toilet stalls be provided in the Clinical Areas of the building; therefore, the architects, under the assumption that these stalls would be utilized by a patient with help of an attendant, provided one grab bar.

Item 5. The required signs "No Inhalation Gases Permitted" are in process. Mr. Coggins of the Surgery Department is funding this item through Dick Hendrick's Physical Plant Office.

a. Ventilation air balancing report showing actual cfm vs. design cfm. This report shall not be submitted until reviewed and approved with signature by the design engineer.

b. Letter from the fire department that they have inspected and approved the fire alarm system.

c. Manufacturer's certification that the flame spread rating of the floor carpeting does not exceed 75.

d. Certified test approving the x-ray shielding by a radiologist or physicist.

e. Certified test of air tightness of all fume ducts per specifications.

f. Letter from the University of Minnesota certifying to a complete test of operations (including smoke dampers) of the smoke control system.

g. Certification that the "Rubatex" pipe insulation has a flame spread rating not exceeding 25, and a smoke developed rating not exceeding 150.

h. Test report on the equipotential grounding systems per NFPA No. 56A.

2. The insulation on fittings and equipment were noted to be wrapped with canvas, contrary to our review letters and HSAE's response. Please respond.

3. Mark all filter manometers for the maximum static points for filter cleaning or changing.

4. Handicap Toilet Rooms:

a. Have all tilt type mirrors permanently in tilt position rather than latched back to walls.

b. There are several handicap toilet stalls noted to have only one wall-mounted grab bar, such as on the 12th and 3rd floors. Check all handicap toilet stalls.

c. Complete identification of all handicap toilet rooms.

5. Eleventh floor Animal O.R.'s - these rooms are not equipped with isolated power or conductive flooring, therefore no inhalation gases are permitted. Post signs to this effect.

6. The chute door on the 9th floor was lacking a latching device. Correct.

UNIVERSITY OF MINNESOTA
TWIN CITIES

Physical Plant Maintenance and Operations
200 Shops Building
319 15th Avenue S.E.
Minneapolis, Minnesota 55455

OCT 22 Rec'd

October 18,1979

TO: P. J. Maupin, Coordinator, HSPO

FROM: R. H. Hendricks, Superintendent, HSPP

Subject: Unit BC, Phase I, federal inspection of July 18, 1979

In response to H.E.W. report dated August 9, 1979:

Item 3

We have set all filter manometer maximum static pressure indicators at 0.45 inches of water per the manufacturer's recommendation.

Item 4a

University Hospital Engineers have been requested to set all handicap toilet mirrors in the tilt position since all of these facilities are in the hospital portions of the building.

Item 6

The contractor has replaced the missing trash chute latching mechanism in Rm. 9-210 (Rm. 9-095 architect number).

RHH:dai

R.H.H.

UNIVERSITY OF MINNESOTA
TWIN CITIES

University Hospitals and Clinics
420 Delaware Street S.E.
Minneapolis, Minnesota 55455

October 18, 1979

TO: Paul Maupin

FROM: Greg Hart

SUBJECT: Federal Inspection Response

In response to item number 9 of the July 18th Federal inspection of Unit B/C:

We will be installing redundant ground cables on all devices with conductive cases not presently having such cables, and will instruct operating personnel in the appropriate use of such grounding systems. Our Biomedical Engineering Department will be providing technical assistance in this regard.

I apologize for the lateness of this response. Should you need any further information, please advise.

GH/sjm

November 30, 1979

Mr. Pete Merz
University of Minnesota
9 Pleasant Street S. E.
88 Folwell Hall
Minneapolis, Minnesota 55455

Subject: Fume Hood Test Sheets
University of Minnesota
Health Science Expansion - Unit B/C - Phase I

Dear Mr. Merz:

Enclosed please find three (3) additional pages to the above subject report. These pages are to be inserted in Section 2 of 3: Air Distribution: Exhaust Air and Return Air.

As we had tested these fans so many times and attended numerous meetings regarding these fans, the paper work was separated from the rest of the report and we inadvertently turned in the report without the fume hood data.

Yours truly,

Donald W. Nelson

DWN:neb

Mechanical Data Corporation
655 Shelard Tower South Minneapolis, Minnesota 55426 612/546-6373

EXHAUST FAN TEST

Job Name Health Science Expansion - Unit B/C - Phase I

FAN NO.	FE-1C	FE-2C	FE-3C	FE-6C	FE-7C	FE-8C
MFG. MODEL	Champion	Champion	Champion	Champion	Champion	Champion
MODEL NO.	20-TC G	20-TC G	20-TC G	20-TC F	20-TC G	20-TC G
MOTOR HP	3	3	3	2	3	3
VOLTAGE	480	480	480	480	480	480
AMP. RATING	4.0	4.0	4.0	2.8	4.0	4.0
ACTUAL AMP.	3.9/4.0/4.0	4.0/4.0/4.0	3.8/3.8/3.9	2.8/2.7/2.8	4.0/4.1/4.0	3.9/4.0/3.9
Velocity at Hood Face	132	116	101	115	110	111
REQUIRED SP	5.0	4.4	4.0	4.7	4.4	4.3
ACTUAL SP	5.4	5.1	4.4	6.9	6.3	4.38/+.45
REQUIRED CFM	1,500	1,350	1,350	850	1,350	1,350
ACTUAL CFM	1,480	1,520	1,550	940	1,410	1,340
LOCATION	161-12th	161-12th	158-12th	156-basement	144-11th	144-11th
Fan RPM	2,750	2,770	2,735	2,760	2,720	2,710
Inlet CFM	1,480	1,396	1,410	863	1,350	1,390

NOTES:

EXHAUST FAN TEST

Job Name Health Science Expansion - Unit B/C - Phase I

FAN NO.	FE-9C	FE-4C	FE-5C	FE-10	FE-11	FE-12
MFG. MODEL	Champion	Champion	Champion	Champion	Champion	Champio
MODEL NO.	20-TC G	20-TC G	20-TC G	20-TC H	20-TC G	20-TB D
MOTOR HP	3	2	2	5	3	1
VOLTAGE	480	480	480	480	480	480
AMP. RATING	4.0	2.8	2.8	6.0	4.0	1.7
ACTUAL AMP.	3.8/3.9/3.9	2.7/2.6/2.7	2.6/2.5/2.5	5.6/5.8/5.8	3.7/3.8/3.8	1.5/1.7/1.6
Velocity at Hood Face	115	125	130	105	130	115
REQUIRED SP	5.0	5.9	5.0	6.2	6.4	5.2
ACTUAL SP	5.4	7.4	6.1	8.9	7.0	5.5
REQUIRED CFM	1,500	850	600	1,500	1,125	350
ACTUAL CFM	1,510	880	680	1,300	1,190	340
LOCATION	158-12th	123 Mezz.	Basement	----	383 1st W.	122 Mez
Fan RPM	2,730	2,730	2,750	2,740	2,650	2,150
Inlet CFM	1,390	820	610	1,110	1,060	325

NOTES:

EXHAUST FAN TEST

Job Name Health Science Expansion - Unit B/C - Phase I

FAN NO.	FE-13					
MFG. MODEL	Champion					
MODEL NO.	20-TB D					
MOTOR HP	1					
VOLTAGE	480					
AMP. RATING	1.7					
ACTUAL AMP.	1.5/1.7/1.6					
ACTUAL RPM	2,315					
REQUIRED SP	3.2					
ACTUAL SP	5.27					
REQUIRED CFM	350					
ACTUAL CFM	405					
Inlet CFM	360					
Velocity at Hood Face	110					

NOTES:

UNIVERSITY OF MINNESOTA
TWIN CITIES

Department of Radiology
Medical School
Box 292 Mayo Memorial Building
420 Delaware Street S.E.
Minneapolis, Minnesota 55455

December 4, 1979

Wally Mellum
Health Sciences Expansion
Construction Office
611 Delaware Street
Minneapolis, Minnesota 55415

Dear Wally,

Enclosed is a copy of a letter from J. Thomas Payne to Mr. Paul Maupin of the Health Sciences Planning Office. The letter states that the required measurements have been performed and that no additional shielding or construction modifications need to be made. I have verified that the Test Survey Reports referred to in that letter are in my office for the following rooms: 1-266, 1-267, 1-269, 1-271, 1-272 (all in the B/C complex).

Sincerely,

Ronald T. Droege

Ronald T. Droege, Ph.D.
Assistant Professor
Department of Radiology
University of Minnesota Hospitals

RTD/sjm
Enclosure

ABBOTT-NORTHWESTERN HOSPITAL CORPORATION

September 13, 1979

Mr. Paul J. Maupin
Health Sciences Planning Office
4103 Powell Hall, Box 75
500 Essex Street, S.E.
Minneapolis, MN 55455

Dear Paul:

Received your letter of September 6 concerning the radiation shielding protection measurements for the B/C Complex.

These measurements were made by me in February, 1979 and all of the rooms were in compliance. The Test Survey Reports are on file in the Physics Office of the Department of Radiology. I am presently no longer with the University and my replacement is Ron Droege, Ph.D., who is responsible for this information. As I indicated, the test results are in file in his office and he can be contac ted at 373-8739. All rooms were in compliance and no additional shielding or construction modifications need to be made.

If you have any questions concerning this, feel free to contact me at 874-4060.

Sincerely,

J. Thomas Payne, Ph.D.
Certified Radiological Physicist

JTP:vma

cc: Ron Droege, Ph.D.
Box 292, Mayo
University of Minnesota Hospitals
Minneapolis, MN 55455

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Expansion
Construction Office
611 Delaware Street S.E.
Minneapolis, Minnesota 55414

December 14, 1979

TO: Paul Kopietz

FROM: Wally Mellum, Electrical Construction Superintendent

Per your request find commitments which I hope will satisfy certification requests as stated in H.E.W. letter to Paul Maupin dated 18, July 1979 covering Items 1.d. 1. f. and 1. h.

Please call if further details needed.

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Expansion
Construction Office
611 Delaware Street S.E.
Minneapolis, Minnesota 55414

December 14, 1979

TO: The Files, Unit B/C, Health Sciences Expansion

FROM: Wally Mellum, Electrical Construction Superintendent

SUBJECT: Specification Division 16
Section 16900 Fire Management and Environmental Control System

RE: Complete test of system. Alarm, Smoke Control and Smoke Removal for Phase I and II

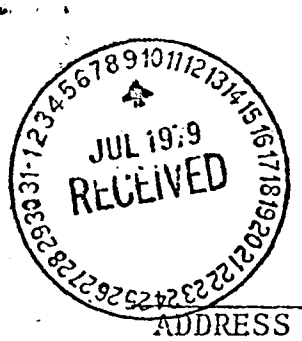
All initiating devices and control systems have been checked and found to function as intended. The following devices and systems are included:

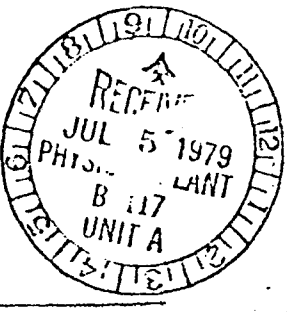
A. (274) Alarm initiating devices each initiate common and/or specific sequence of operations as dictated by assigned Event Initiated Programs (EIP's).

B. (24) Air-handling systems - "Smoke Control Modes" assigned to systems"

C. (43) Area smoke dampers - dampers controlling supply air to a section of a floor -

D. (1) Damper associated with the air relief shaft serving Unit "A".





UNIV. OF MINN. B/C
HONEYWELL JOB #914-76042

SMOKE DAMPER SCHEDULE (43)

ADDRESS	DUCT CODE	FLOOR	LOCATION
4.07.04	S3CB-1	BSMT	FAN S3C DISCHARGE
2.15.01	S8C1-6	1	RM 1-339
2.15.02	S8C1-7	1	RM 1-333
2.15.03	S6C1-8	1	RM 1-293
2.15.04	S7C1-1	1	RM 1-289
4.12.04	S5C1-2	1	RMS 1-124 & 1-116
4.15.04	S5C1-1	1	RM 1-203 & EAST OF 1-165
4.17.04	S4C1-3	1	RMS 1-161 & 1-154
4.19.03	S2C1-5	1	RM 1-460 SO. OF 1-460B
2.22.02	S6C2-5	2	WEST OF 2-200D
2.22.03	S7C2-6	2	EAST OF 2-200D
2.22.04	S8C2-6	2	RM 2-337
4.22.04	S2C2-4	2	EAST OF CORE 33
4.26.04	S5C2-1	2	NORTH OF 2-197
4.27.01	S4C2-1	2	NORTH OF 2-199
4.27.02	S4C2-2	2	EAST & WEST OF 2-199
2.33.01	S7C3-3	3	RM 3-166
2.33.02	S6C3-2	3	WEST OF 3-164
4.33.03	S2C3-1	3	RM 3-116
4.33.04	S4C3-1	3	N.W. EXIT
4.44.01	S6C4-2	4	WEST OF RM 4-240E
4.44.02	S4C4-1	4	EAST OF RM 4-217
4.44.03	S2C4-1	4	RM 4-124
4.52.04	S2C5-2	5	EAST OF RM 5-122
4.53.01	S4C5-2	5	EAST OF RM 5-217
2.61.04	S17C6-3	6	RM 6-248A
2.62.01	S16C6-2	6	CORR. WEST OF RM 6-246A
4.62.02	S13C6-1	6	CORR. AT RM 6-219
2.81.03	S17C8-5	8	EAST OF CORE
5.83.02	S16C8-4	8	WAITING RM WEST OF RM 8-172
5.83.03	S17C8-3	8	RM 8-118
5.83.04	S13C8-3	8	CORR. EAST OF RM 8-300A
2.91.02	S16C9-4	9	WEST OF RM 9-170
2.91.03	S17C9-5	9	RM 9-172
5.93.04	S17C9-3	9	RM 9-126
5.94.01	S13C9-3	9	LINK CORR. AT RM 9-300A
5.94.04	S16C9-2	9	CORE 26
3.10.04	S15C11-3	11	RM 11-142
5.13.03	S13C11-2	11	WEST LINK CORR. AT RM 11-201
5.13.04	S14C11-1	11	EAST LINK CORR. AT RM 11-176

UNIVERSITY OF MINNESOTA
TWIN CITIES

Engineering and Construction Division
Physical Planning Office
Physical Plant Operations
26 Folwell Hall
9 Pleasant Street S.E.
Minneapolis, Minnesota 55455

January 9, 1980

TO: Paul J. Maupin

FROM: Victor E. Scott

RE: Unit B/C Phase I - Federal Inspection Items

Pursuant to your letter request to Mr. Paul E. Kopietz dated October 11, 1979, regarding items enumerated in the Federal Inspection letter underlined in red, the following information is furnished:

1. One copy of the Testing and Balancing report, in three volumes.

2. Two copies of the letter from the City of Minneapolis Fire Marshall attesting that he has approved the fire management system.

3. Two copies of the approval in connection with the x-ray shielding.

4. Two copies of the certified tests for all the fume ducts.

5. Two copies of the testing of the smoke control systems.

6. Two copies of the test report on equipotential grounding systems.

If there is any additional information you may require, please let us know.

VES/amf

cc: Paul E. Kopietz

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
REGION V
300 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

OFFICE OF THE
PRINCIPAL REGIONAL OFFICIAL

March 28, 1980

Our Reference: Min - 18(HP)
Health Science Expansion B/C
University of Minnesota
Minneapolis, Minnesota

APR 7 1980
UNIV... HE... PL...

Mr. Paul Maupin
Health Sciences Planning Coordinator
University of Minnesota
4104 Powell Hall
Minneapolis, Minnesota 55455
Dea
Dear Mr. Maupin:

Thank you for your letter of February 19, 1980 responding to our final inspection report of August 9, 1979. We have several comments on the materials you have submitted, using the like-numbers of our inspection report.

1a. There are a number of deficiencies notated by Mechanical Data Corporation in their two volumes of air balance analysis report. Our comment in our final inspection report requested that the air balancing report be reviewed and approved with signature by the design engineer, who is to accept or act on the deficiencies notated by Mechanical Data Corporation. The design engineer from his calculations must determine if the actual environmental condition that was established, is approved relative to the design environmental condition.

1e. Respond to our comment.

1h. The final results of 20 millvolts between any two conductive surface is in excess of the requirement of a maximum 5 millvolts in accordance with paragraph 3351, NFPA No. 56A, 1973 and paragraph 517-51(b)(1), NFPA No. 70, 1971.

2. Respond to our comment.

7. Respond to our comment.

12. Our comment apparently was misunderstood. It is not desirable to have the manual pull stations activate the smoke control system because a manual pull station not located in the fire zone can wrongly negatize

a zone adjacent to a fire zone and cause smoke and fire to easily spread to that zone. If this is the case, it may be very simple to rewire the pull stations to only activate the fire alarm. Only the automatic alarm initiating devices, which can only be activated by smoke and/or fire shall cause negatizing of a smoke zone. Please respond.

Sincerely,

Daniel Jacobs

Daniel Jacobs, P. E.
Acting Chief, Design and Engineering
Division of Regional Operations for
Facilities Engineering
and Construction

HEW Final INSPECTION

DEPARTMENT OF HEALTH & HUMAN SERVICES

Office of the Principal Regional Official

Region V
300 S. Wacker Drive
Chicago, IL 60606

DEC 3 1981

Our Reference: Minn.-18(HP)
Health Science Expansion B/C
University of Minnesota
Minneapolis, Minnesota

Mr. Paul Maupin
Health Sciences Planning Coordinator
University of Minnesota
4104 Powell Hall
Minneapolis, Minnesota 55455

Dear Mr. Maupin:

As of this date we have not received a reply to our letter of March 28, 1980 regarding the items still outstanding from our final inspection report of August 9, 1979. In order for us to proceed to close this project out we need a satisfactory answer to all items listed in the final inspection report.

Final grant funds cannot be recommended for disbursement until the outstanding items are corrected and all costs are submitted for our review.

Inquiry relative to comments contained herein may be directed to Thomas J. O'Shea, P.E. at this address, or by telephone on 312/886-5516.

Sincerely,

Richard A. Polinski

Richard A. Polinski, P.E.
Chief, Design and Engineering Branch
Regional Operations for Facilities
Engineering and Construction

Inspec

J.O.M.L
Unit F.

PF

UNIVERSITY OF MINNESOTA
TWIN CITIES

Health Sciences Planning Office
Physical Planning
Health Sciences Complex
Box 726 Mayo Memorial Building
Minneapolis, Minnesota 55455
(612) 373-8981

December 14, 1981

Richard A. Polinski, P.E.
Chief, Design and Engineering Branch
Regional Operations for Facilities
Engineering and Construction
Region V
300 S. Wacker Drive
Chicago, Ill. 60606

Reference: Minn-(18)
Health Sciences Expansion Unit B/C
University of Minnesota
Minneapolis, Minnesota

Dear Mr. Polinski:

Attached please find the cover letter sent to Mr. George Winter responding to the outstanding items from your final inspection report of August 9, 1979. As you will note, we have submitted information regarding all inquiries and to date have not received any indication that additional information is required. Please check with Mr. Winter regarding this matter.

Additionally, we would appreciate your scheuduling final inspections on the following projects:

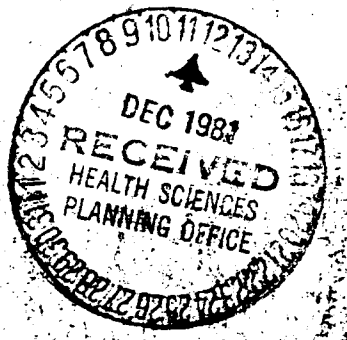
Jackson/Owre/Millard/Lyon Complex	Minn-HP-05C-070
Unit F Pharmacy/Nursing	Minn-HP-5C-63 and Minn-NU-5C-77
Diehl Hall Remodeling Project	Minn-HP-18-A

It would be most beneficial to the University to have these inspections done sometime late February or early March.

Very truly yours,

Paul J. Maupin
Health Sciences Planning Coordinator

cc: Thomas J. O'Shea
Vic Scott



May 13, 1981

Mr. George L. Winter, P.E.
Design and Engineering
Division of Regional Operations
for Facilities Engineering &
Construction
Department of Health and Human Services
16th Floor
300 South Wacker Drive
Chicago, Illinois 60606

RE: Minn-18(HP)
Health Sciences Expansion B/C
University of Minnesota
Minneapolis, Minnesota

Dear Mr. Winter:

In response to your letter dated March 28, 1980, regarding your final inspection report of the above referenced project, the following information is furnished:

1. Certification of the design engineer in connection with the Mechanical Data Corporation air balance analysis report. The reports you have in your office. We are also sending at this time, their comments and our course of action to make the necessary corrective measures requested, which are in progress as of this time. This should cover items 1a and 1e of your letter.

2. Item 1h, a copy of a memo to Mr. Dave Kerkow dated January 22, 1981 in regards to testing of the equipotential grounding systems.

3. Item 2, Thermal Insulation information in regards to fittings and equipment covering used on the project. Letter from E & S Insulation Co. is furnished, dated March 30, 1981.

4. Item 7, All necessary action requested for the temporary hold-open devices on fire dampers have been completed.

5. Item 12, correspondence and responses to this item are forwarded for your review as furnished by Mr. Bob Swanson, Asst. Health Science Planning Corrdinator, dated April 14, 1981.

If thereis any additional information you may require, please notify this office.

Very truly yours,

V.E.Scott
Federal Projects Coordinator

VES/gtm