III.-Fa. Sensitive Crimes Division

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
Fa4.	**Support Areas (Cont.)**					Currently Needed					Projected Need			
Fa3.5	**Computer Room**													
	Computer Workstations		C-2			2 @ 36	72				2 @ 36	72		
Fa3.5.2	Printer Station		C-2			3 @ 15	45				3 @ 15	45		
	Sub-Total							1.8	211				1.8	211
Fa3.6	**Public Areas**													
Fa3.6.1	Public Counter		J-1			10 @ 9	90	1.3	117		10 @ 9	90	1.3	117
Fa3.6.2	Public Waiting		J-1			7 @ 15	105	1.5	158		7 @ 15	105	1.5	158
Fa4.	**Staff Support Areas**													
Fa4.1	**Staff Lockers**													
Fa4.1.1	Officer Locker		G-1			91 @ 10	910				93 @ 10	930		
	Sub-Total							1.5	1,365				1.5	1,395
Fa4.2	**Staff Check-In**													
Fa4.2.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
Fa4.3	**Coffee Bar**													
Fa4.3.1	Sink/Counter		C-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.5	60				1.5	60
	Sub-Total Sensitive Crimes Division								6,545					6,748
	Expansion Allowance						10%		655			20%		1,350
	Total Sensitive Crimes Division			91	91				7,200	93				8,098

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Fb.	**Vice Control Section**													
Fb1.	**Staff Work Areas**													
Fb1.1	**Captain's Office**													
Fb1.1.1	Captain's Office	SO-B	B-2	1	1	1 @ 225	225			1	1 @ 225	225		
	Sub-Total							1.5	338				1.5	338
Fb1.2	**Detectives**													
Fb1.2.1	Gambling	WS-G	C-1	2	2	1 @ 36	36			2	1 @ 36	43		
Fb1.2.2	Anti Prostitution	WS-G	C-1	4	4	2 @ 36	72			5	2 @ 36	86		
Fb1.2.3	Drug Abatement	WS-G	C-1	10	10	5 @ 36	180			12	6 @ 36	216		
Fb1.2.4	Drug Interdiction	WS-G	C-1	6	6	3 @ 38	108			7	4 @ 36	130		
Fb1.2.5	General Narcotics	WS-G	C-1	28	28	17 @ 36	612			34	20 @ 38	734		
	Sub-Total							1.8	1,814				1.8	2,177
Fb1.3	**Police Officers**													
Fb1.3.1	Workstation	WS-G	C-1	8	8	8 @ 36	288			8	8 @ 36	288		
	Sub-Total							1.8	518				1.8	518
Fb2.	**Administrative Staff**													
Fb2.1	**Lieutenants**													
Fb2.1.1	Drug Abatement Lt. Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
Fb2.1.1	General Narcotics Lt. Workstation	WS-F	C-1	3	3	3 @ 48	144			3	3 @ 48	144		
	Sub-Total							1.8	346				1.8	346
Fb2.2	**Administrative Sergeant**													
Fb2.2.1	Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	86				1.8	86
Fb2.3	**Police Aid**													
Fb2.3.1	Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	86				1.8	86
Fb2.4	**Clerk**													
Fb2.4.1	Workstation	WS-F	C-1	4	4	2 @ 48	96			5	2 @ 48	98		
	Sub-Total							1.8	173				1.8	173
Fb3.	**Support Areas**													
Fb3.1	**Files**													
Fb3.1.1	Files-42" Lateral		D-1			40 @ 14	560	1.5	840		48 @ 14	672	1.5	1,008
Fb3.1.2	Workstation	WS-F	D-1			1 @ 48	48	1.8	86		1 @ 48	48	1.8	86
Fb3.2	**Copy/ Document Processing**													
Fb3.2.1	Copy/Doc. Processing-E	CA-E	C-2			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.3	130				1.3	130
Fb3.3	**Computer Room**													
Fb3.3.1	Computer Workstations		C-2			4 @ 36	144				4 @ 36	144		
Fb3.3.2	Printer Station		C-2			4 @ 15	60				4 @ 15	60		
	Sub-Total							1.8	367				1.8	367
Fb3.4	**Public Areas**													
Fb3.4.1	Public Counter		J-1			10 @ 9	90	1.3	117		10 @ 9	90	1.3	117
Fb3.4.2	Public Waiting		J-1			4 @ 15	60	1.5	90		4 @ 15	60	1.5	90

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Fb.	**Vice Control Section**													
Fb3.	**Support Areas (Cont.)**					Currently Needed					Projected Need			
Fb3.5	**Drug Testing Room**													
Fb3.5.1	Drug Testing Room		C-2			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
Fb3.6	**Storage Areas**													
Fb3.8.1	Secured Storage		D-1			1 @ 80	80				1 @ 80	80		
Fb3.6.2	Canine Unit Storage		D-1			1 @ 80	80				1 @ 80	80		
Fb3.6.3	Chemical Storage		D-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.5	300				1.5	300
Fb4.	**Staff Support Areas**													
Fb4.1	**Staff Lockers**													
Fb4.1.1	Officer Locker		G-1			69 @ 10	690				80 @ 10	800		
	Sub-Total							1.5	1,035				1.5	1,200
Fb4.2	**Staff Check-In**													
Fb4.2.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
Fb4.3	**Coffee Bar**													
Fb4.3.1	Counter/Sink		C-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.5	60				1.5	60
	Sub-Total Vice Control Section								6,626					7,322
	Expansion Allowance						10%		663			20%		1,464
	Total Vice Control Section			69	69				7,289	80				8,786

III.-Fc. Homicide Division

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
Fc1.	**Staff Work Areas**													
Fc1.1	**Captain's Office**													
Fc1.1.1	Captain's Office	SO-C	B-2	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
Fc1.2	**Lieutenants**													
Fc1.2.1	Workstation	WS-F	C-1	5	5	3 @ 48	144			5	3 @ 48	144		
	Sub-Total							1.8	259				1.8	259
Fc1.3	**Detectives**													
Fc1.3.1	Workstation	WS-G	C-1	34	34	20 @ 36	720			37	20 @ 36	720		
	Sub-Total							1.8	1,296				1.8	1,296
Fc2.	**Administrative Staff**													
Fc2.1	**Secretary**													
Fc2.1.1	Workstation	WS-F	C-1		1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	86				1.8	86
Fc3.	**Support Areas**													
Fc3.1	**Conference**													
Fc3.1.1	Conference for 20	CF-B	E-2			1 @ 600	600				1 @ 600	600		
	Sub-Total							1.5	900				1.5	900
Fc3.2	**Files**													
Fc3.2.1	Files- Legal Vertical		D-1			10 @ 10	100				10 @ 10	100		
	Sub-Total							1.5	150				1.5	150
Fc3.3	**Archives**													
Fc3.3.1	Archive Storage		D-1			1 @ 300	300				1 @ 300	300		
	Sub-Total							1.5	450				1.5	450
Fc3.4	**Copy/ Document Processing**													
Fc3.4.1	Copy/Doc. Processing-F	CA-F	C-2			1 @ 54	54				1 @ 54	54		
	Sub-Total							1.3	70				1.3	70
Fc3.5	**Equipment**													
Fc3.5.1	Equipment Room		C-2			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.5	150				1.5	150
Fc3.6	**Computer Room**													
Fc3.6.1	Computer Workstations		C-2			2 @ 36	72				2 @ 36	72		
Fc3.6.2	Printer Station		C-2			2 @ 15	30				2 @ 15	30		
	Sub-Total							1.8	184				1.8	184

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Fc.	**Homicide Division**													
Fc4.	**Staff Support Areas**						Currently Needed							**Projected Need**
Fc4.1	**Staff Lockers**													
Fc4.1.1	Officer Locker		G-1			41 @ 10	410				44 @ 10	440		
	Sub-Total							1.5	615				1.5	660
Fc4.2	**Staff Check-In**													
Fc4.2.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
	Sub-Total Homocide Division								4,505					4,550
	Expansion Allowance						10%		451			20%		910
	Total Homicide Division			40	41				4,956	44				5,460

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Fd.	**Crimes Against Persons**													
Fd1.	**Staff Work Areas**						Currently Needed				Projected Need			
Fd1.1	**Captain's Office**													
Fd1.1.1	Captain's Office	SO-C	B-2	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
Fd1.2	**Lieutenants**													
Fd1.2.1	Workstation	WS-F	C-1	6	6	3 @ 48	144			6	3 @ 48	144		
	Sub-Total							1.8	259				1.8	259
Fd1.3	**Detectives**													
Fd1.3.1	Robbery	WS-G	C-1	30	30	17 @ 36	612			30	17 @ 38	812		
Fd1.3.2	Violent Crimes	WS-G	C-1	30	30	17 @ 36	612			30	17 @ 36	612		
	Sub-Total							1.8	2,203				1.8	2,203
Fd1.4	**Robbery Task Force**													
Fd1.4.1	Sergeant	WS-F	C-1	1	1	1 @ 36	36			1	1 @ 36	36		
Fd1.4.2	Detective	WS-G	C-1	4	4	2 @ 36	72			4	2 @ 36	72		
Fd1.4.3	Police Officer	WS-G	C-1	16	16	7 @ 36	252			16	7 @ 36	252		
	Sub-Total							1.8	648				1.8	648
Fd2.	**Administrative Staff**													
Fd2.1	**Secretary**													
Fd2.1.1	Workstation	WS-F	C-1		1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	88				1.8	86
Fd2.2	**Liaison**													
Fd2.2.1	Workstation	WS-G	C-1		1	1 @ 36	36			1	1 @ 36	36		
	Sub-Total							1.8	85				1.8	65
Fd3.	**Support Areas**													
Fd3.1	**Copy/ Document Processing**													
Fd3.1.1	Copy/Doc. Processing-F	CA-F	C-2			1 @ 54	54				1 @ 54	54		
	Sub-Total							1.3	70				1.3	70
Fd3.2	**Computer Room**													
Fd3.2.1	Computer Workstations		C-2			4 @ 36	144				4 @ 36	144		
Fd3.2.2	Printer Station		C-2			4 @ 15	60				4 @ 15	60		
	Sub-Total							1.8	367				1.8	367
Fd4.	**Staff Support Areas**													
Fd4.1	**Staff Lockers**													
Fd4.1.1	Officer Locker		G-1			90 @ 10	900				90 @ 10	900		
	Sub-Total							1.5	1,350				1.5	1,350
Fd4.2	**Staff Check-In**													
Fd4.2.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
	Sub-Total Crimes Against Persons								5,393					5,393
	Expansion Allowance						10%		539			20%		1,079
	Total Crimes Against Persons			88	90				5,932	90				6,472

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Fe.	**Crimes Against Property**													
Fe1.	**Staff Work Areas**					Currently Needed					Projected Need			
Fe1.1	**Captain's Office**													
Fe1.1.1	Captain's Office	SO-C	B-2	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
Fe1.2	**Lieutenants**													
Fe1.2.1	Workstation	WS-E	C-1	8	8	4 @ 72	288			8	4 @ 72	288		
	Sub-Total							1.6	461				1.6	461
Fe1.3	**Warrants Squad**													
Fe1.3.1	Supervisor Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
Fe1.3.2	Warrants	WS-G	C-1	10	10	5 @ 36	180			10	5 @ 36	180		
	Sub-Total							1.8	454				1.8	454
Fe1.4	**Detectives**													
Fe1.4.1	Burglary Unit	WS-G	C-1	7	7	3 @ 36	108			7	3 @ 36	108		
Fe1.4.2	Auto Theft	WS-G	C-1	11	11	5 @ 36	180			11	5 @ 36	180		
Fe1.4.3	Arson Squad	WS-G	C-1	10	10	5 @ 36	180			10	5 @ 36	180		
Fe1.4.4	Senior Citizen	WS-G	C-1	10	10	5 @ 36	180			10	5 @ 36	180		
Fe1.4.5	Forgery	WS-G	C-1	4	4	2 @ 36	72			4	2 @ 38	72		
Fe1.4.6	Special Investigation	WS-G	C-1	3	3	2 @ 36	72			4	2 @ 38	72		
Fe1.4.7	Gold & Silver	WS-G	C-1	2	2	1 @ 36	36			4	2 @ 36	72		
	Sub-Total							1.8	1,490				1.8	1,555
Fe2.	**Administrative Staff**													
Fe2.1	**Liaison**													
Fe2.1.1	Workstation	WS-E	C-1	2	2	1 @ 72	72			2	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
Fe2.2	**AFIS**													
Fe2.2.1	Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
Fe2.3	**CONSL**													
Fe2.3.1	Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
Fe2.4	**Secretary**													
Fe2.4.1	Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	86				1.8	86
Fe3.	**Support Areas**													
Fe3.1	**Arson Files**													
Fe3.1.1	Files- Legal Vertical		D-1			10 @ 10	100				10 @ 10	100		
	Sub-Total							1.5	150				1.5	150
Fe3.2	**Arson Equipment Storage**													
Fe3.2.1	Equipment Storage		D-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.5	60				1.5	60
Fe3.3	**Copy/ Document Processing**													
Fe3.3.1	Copy/Doc. Processing-E	CA-E	C-2			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.3	130				1.3	130

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Fe.	**Crimes Against Property**													
Fe3.	**Support Areas (Cont.**						Currently Needed					Projected Need		
Fe3.4	**Computer Room**													
Fe3.4.1	Computer Workstations		C-2			7 @ 36	252				7 @ 36	252		
Fe3.4.2	Printer Station		C-2			7 @ 15	105				7 @ 15	105		
	Sub-Total							1.8	643				1.8	643
Fe4.	**Staff Support Areas**													
Fe4.1	**Staff Lockers**													
Fe4.1.1	Officer Locker		G-1			72 @ 10	720				75 @ 10	750		
	Sub-Total							1.5	1,080				1.5	1,125
Fe4.2	**Staff Check-In**													
Fe4.2.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
	Sub-Total Crimes Against Property								5,244					5,354
	Expansion Allowance						10%		524			20%		1,071
	Total Crimes Against Property			72	72				5,768	75				6,425

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Ff.	**Gang Crimes Intelligence Division**													
Ff1.	**Staff Work Areas**				Currently Needed					Projected Need				
Ff1.1	**Captain's Office**													
Ff1.1.1	Captain's Office	SO-C	B-2	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
Ff1.2	**Criminal Intelligence**													
Ff1.2.1	Lieutenant Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
Ff1.2.2	Sergeant Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
Ff1.2.3	Detective Workstation	WS-G	C-1	5	5	3 @ 36	108			5	3 @ 36	108		
Ff1.2.4	Police Officer Workstation	WS-G	C-1	1	4	2 @ 36	72			4	2 @ 36	72		
	Sub-Total							1.8	540				1.8	540
Ff1.3	**Gang Crimes**													
Ff1.3.1	Lieutenant Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
Ff1.3.2	Sergeant Workstation	WS-F	C-1	2	2	1 @ 48	48			2	1 @ 48	48		
Ff1.3.3	Detective Workstation	WS-G	C-1	5	8	4 @ 36	144			8	4 @ 36	144		
Ff1.3.4	Police Officer Workstation	WS-G	C-1	24	24	12 @ 36	432			24	12 @ 36	432		
	Sub-Total							1.8	1,253				1.8	1,253
Ff2.	**Administrative Staff**													
Ff2.1	**Police Officer**													
Ff2.1.1	Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	86				1.8	86
Ff2.2	**Clerk**													
Ff2.2.1	Workstation	WS-F	C-1	1	2	2 @ 48	96			2	2 @ 48	96		
	Sub-Total							1.8	173				1.8	173
Ff3.	**Support Areas**													
Ff3.1	**Conference**													
Ff3.1.1	Conference for 10	CF-E	E-3			1 @ 220	220				1 @ 220	220		
	Sub-Total							1.5	330				1.5	330
Ff3.2	**Copy/ Document Processing**													
Ff3.2.1	Copy/Doc. Processing-E	CA-E	C-2			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.3	130				1.3	130
Ff3.3	**Computer Room**													
Ff3.3.1	Computer Workstations		C-2			2 @ 36	72				2 @ 36	72		
Ff3.3.2	Printer Station		C-2			2 @ 15	30				2 @ 15	30		
	Sub-Total							1.8	184				1.8	184
Ff3.4	**Storage Areas**													
Ff3.4.1	Equipment & Radios		D-1			1 @ 150	150				1 @ 150	150		
Ff3.4.2	Supplies		C-1			1 @ 48	48				1 @ 48	48		
Ff3.4.3	Reference Materials		C-1			2 @ 30	60				2 @ 30	60		
	Sub-Total							1.5	387				1.5	387

III.-Ff. Gang Crimes Intelligence Division

Ff4. Staff Support Areas

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Projected Need Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
							Currently Needed				Projected Need			
Ff4.1	**Staff Lockers**													
Ff4.1.1	Officer Locker		G-1			50 @ 10	500				50 @ 10	500		
	Sub-Total							1.5	750				1.5	750
Ff4.2	**Staff Check-In**													
Ff4.2.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
Ff4.3	**Coffee Bar**													
Ff4.3.1	Sink/Counter		C-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.5	60				1.5	60
	Sub-Total Gang Crimes Intelligence								4,238					4,238
	Expansion Allowance						10%		424			20%		848
	Total Gang Crimes Intelligence Division			43	50				4,662	50				5,086

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-G.	**Uniform Patrol Bureau**													
G1.	**Staff Work Areas**					Currently Needed					Projected Need			
G1.1	**Inspector of Police**													
G1.1.1	Inspector's Office	SO-B	B-2	1	1	1 @ 225	225			1	1 @ 225	225		
	Sub-Total							1.5	338				1.5	338
G1.2	**Field Deputy**													
G1.2.1	Field Deputy	SO-C	B-2	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
G1.3	**Operations Captains**													
G1.3.1	Captain's Office	WS-E	B-2	2	2	2 @ 72	144			2	2 @ 72	144		
	Sub-Total							1.6	230				1.6	230
G2.	**Administrative Staff**													
G2.1	**Inspector's Secretary**													
G2.1.1	Secretary	WS-F	C-1							1	1 @ 48	48		
	Sub-Total												1.8	86
G3.	**Conference Rooms**													
G3.1	**Conference Room**													
G3.1.1	Conference for 14	CF-C	E-3			1 @ 432	432				1 @ 432	432		
	Sub-Total							1.5	646				1.5	848
G4.	**Planning and Operations**													
G4.1	**Staff Workstations**													
G4.1.1	Workstations	WS-E	C-1	2	2	2 @ 72	144			2	2 @ 72	144		
	Sub-Total							1.6	230				1.6	230
G5.	**Support Areas**													
G5.1	**Patrol Bureau Files**													
G5.1.1	Files-42" Lateral		D-1			10 @ 14	140				11 @ 14	147		
	Sub-Total							1.5	210				1.5	221
G5.2	**Planning and Operations Files**													
G5.2.1	Files-42" Lateral		C-1			5 @ 14	70				5 @ 14	70		
	Sub-Total							1.5	105		.		1.5	105
G5.3	**Copy/Document Processing**													
G5.3.1	Copy/Doc. Processing-E	CA-E	C-2			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.3	130		.		1.3	130
G5.4	**Supplies/Storage**													
G5.4.1	Storage		D-1			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.5	150		.		1.5	150
G5.5	**Staff Lockers**													
G5.5.1	Officer Locker		G-1			6 @ 10	60				7 @ 10	70		
	Sub-Total							1.5	90		.		1.5	105
	Sub-Total Uniform Patrol Bureau								2,356					2,468
	Expansion Allowance						10%		236			20%		494
	Total Uniform Patrol Bureau			6	6				2,592	7				2,962

III.-Ha. First District

Ha4. District One Prisoner Processing

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Currently Needed: Number Of Units # @ NSF/	Currently Needed: NSF	Currently Needed: CF	Currently Needed: Total NSF	Proj. Staff	Projected Need: Number of Units # @ NSF/	Projected Need: NSF	Projected Need: CF	Projected Need: Total NSF
Ha4.1	**Lieutenant**													
Ha4.1.1	Lieutenant	SO-D	B-3	1	1	1 @ 100	100			1	1 @ 100	100		
	Sub-Total							1.5	150				1.5	150
Ha4.2	**Sergeants**													
Ha4.2.1	Workstation	WS-F	C-1	3	3	3 @ 48	144			3	3 @ 48	144		
	Sub-Total							1.8	259				1.8	259
Ha4.3	**Intake Office**													
Ha4.3.1	Security Vestibule		C-1			1 @ 100	100				1 @ 100	100		
Ha4.3.2	Counter- 10 Lin. Ft.		C-1			10 @ 9	90				10 @ 9	90		
Ha4.3.3	Waiting Area		C-1			15 @ 15	225				15 @ 15	225		
	Sub-Total							1.5	623				1.5	623
Ha4.4	**Identification Area**													
Ha4.4.1	Fingerprint/Photo		C-1			1 @ 180	180				1 @ 180	180		
	Sub-Total							1.8	324				1.8	324
Ha4.5	**Clothing Exchange/Shower**													
Ha4.5.1	Changing Area, Handp Fix.		C-1			2 @ 100	200				2 @ 100	200		
	Sub-Total							1.5	300				1.5	300
Ha4.6	**Search Room**													
Ha4.6.1	Search Room		C-1			2 @ 80	160				2 @ 80	160		
	Sub-Total							1.5	240				1.5	240
Ha4.7	**Interrogation Room**													
Ha4.7.1	Capacity-4		C-1			2 @ 100	200				4 @ 100	400		
	Sub-Total							1.5	300				1.5	600
Ha4.8	**Intoxylizer Room**													
Ha4.8.1	Intoxylizer Room		C-1			1 @ 150	150				2 @ 150	300		
	Sub-Total							1.5	225				1.5	450
Ha4.9	**Visitation Room**													
Ha4.9.1	Visitation Room		C-1			1 @ 150	150				2 @ 150	300		
	Sub-Total							1.5	225				1.5	450
Ha4.10	**Property Storage**													
Ha4.10.1	Storage		D-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
Ha4.11	**Prisoner Medical Exam**													
Ha4.11.1	Exam Room		H-2			1 @ 120	120				1 @ 120	120		
	Sub-Total							1.5	180				1.5	180

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Component Space Program

III.-Ha. First District

Ha5. Staff Support Areas

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Projected Need Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
							Currently Needed				Projected Need			
Ha5.1	**Supervisor Staff Lockers**													
Ha5.1.1	Staff Lockers		G-1			40 @ 10	400				40 @ 10	400		
	Sub-Total							1.5	600				1.5	600
Ha5.2	**Staff Lockers**													
Ha5.2.1	Staff Lockers		G-1			245 @ 10	2,450				245 @ 10	2,450		
	Sub-Total							1.5	3,675				1.5	3,675
Ha5.3	**Locker Toilets**													
Ha5.3.1	Plumbing Fixture-Sinks													
Ha5.3.2	Plumbing Fixture-Toilets		K-2			23 @ 20	456				23 @ 20	456		
Ha5.3.3	Hncp Plumbing Fixture		K-2			6 @ 40	228				6 @ 40	228		
Ha5.3.4	Shower/ Dry		K-2			13 @ 20	261				13 @ 20	261		
Ha5.3.5	Hncp Shower/ Dry		K-2			3 @ 40	131				3 @ 40	131		
	Sub-Total							1.6	1,722				1.6	1,722
Ha5.4	**Staff Check-in**													
Ha5.4.1	Staff Check-In		C-1			1 @ 80	80				1 @ 80	80		
	Sub-Total							1.5	120				1.5	120
Ha5.5	**Staff Toilets**													
Ha5.5.1	Toilet-1Fixture Hncp.	TR-1	K-1			2 @ 56	112				2 @ 56	112		
	Sub-Total							1.4	157				1.4	157
Ha5.6	**Breakroom**													
Ha5.6.1	Breakroom-(16)		F-1			1 @ 338	336				1 @ 338	336		
	Sub-Total							1.5	504				1.5	504
Ha5.7	**Public Waiting**													
Ha5.7.1	Counter		C-1			1 @ 40	40				1 @ 40	40		
Ha5.7.2	Public Waiting		C-1			6 @ 15	90				6 @ 15	90		
	Sub-Total							1.5	195				1.5	195
	Sub-Total First District								19,731					21,489
	Expansion Allowance-20%								3,946					4,298
	Total First District			285	285				23,677	265				25,786

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
III.-Hb.	**Metropolitan Section**													
Hb5.	**Underwater Investigation Unit**													
						Currently Needed						Projected Need		
Hb5.1	**Sergeants**													
Hb5.1.1	Sergeants	SO-C	C-1		1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
Hb5.2	**UIU Ready Room**													
Hb5.2.1	Equipment Storage & Maintenance		C-2			1 @ 400	400				1 @ 400	400		
Hb5.2.2	Boat Garage		D-1			1 @ 375	375				1 @ 375	375		
	Sub-Total							1.5	1,163				1.5	1,163
	Sub-Total Metropolitan District								4,820					4,820
	Expansion Allowance						10%		482			20%		964
	Total Metropolitan Section			0	15				5,302	15				5,784

IV. City Attorney/ Prosecution Department

IV.-A. City Attorney/ Prosecution Department

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Projected Need Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
A1.	**Staff Work Areas**						Currently Needed				Projected Need			
A1.1	**Attorney**													
A1.1.1	Attorney	SO-C	B-2	7	7	7 @ 150	1,050			7	7 @ 150	1,050		
	Sub-Total							1.5	1,575				1.5	1,575
A1.2	**Interns**													
A1.2.1	Workstation	WS-G	C-1	2	2	2 @ 36	72			2	2 @ 36	72		
	Sub-Total							1.8	130				1.8	130
A1.3	**Field Study School**													
A1.3.1	Workstation	WS-G	C-1	2	2	2 @ 36	72			2	2 @ 36	72		
	Sub-Total							1.8	130				1.8	130
A1.4	**Health Department**													
A1.4.1	Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
	Sub-Total							1.8	86				1.8	86
A1.5	**Parking**													
A1.5.1	Workstation	WS-G	C-1	1	1	1 @ 38	36			1	1 @ 38	36		
	Sub-Total							1.8	65				1.8	65
A2.	**Administrative Staff**													
A2.1	**Receptionist/ Clerk**													
A2.4.1	Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
A3.	**Support Areas**													
A3.1	**Conference Rooms**													
A3.1.1	Conference for 6	CF-F	E-3			2 @ 143	286				2 @ 143	286		
	Sub-Total							1.5	429				1.5	429
A3.2	**Files**													
A3.2.1	Files- Legal Vertical		D-1			10 @ 10	100				10 @ 10	100		
	Sub-Total							1.5	150				1.5	150
A3.3	**Copy/ Document Processing**													
A3.3.1	Copy/Doc. Processing-E	CA-E	C-2			1 @ 100	100				1 @ 100	100		
	Sub-Total							1.3	130				1.3	130
A3.4	**Computer Area**													
A3.4.1	Computer Workstations		C-2			1 @ 36	36				2 @ 36	72		
A3.4.2	Printer Station		C-2			1 @ 15	15				2 @ 15	30		
	Sub-Total							1.8	92				1.8	184
A3.5	**Public Areas**													
A3.5.1	Public Counter		J-1			20 @ 9	180	1.3	234		20 @ 9	180	1.3	234
A3.5.2	Public Waiting		J-1			20 @ 15	300	1.5	450		20 @ 15	300	1.5	450

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Component Space Program

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
IV.-A.	**City Attorney/ Prosecution Department**													
A4.	**Staff Support Areas**					Currently Needed					Projected Need			
A4.1	**Coat Closet**													
A4.1.1	Coat Closet		C-1			1 @ 20	20				1 @ 20	20		
	Sub-Total							1.5	30				1.5	30
A4.2	**Breakroom**													
A4.2.1	Breakroom-(16)		F-1			1 @ 336	336				1 @ 336	336		
	Sub-Total							1.5	504				1.5	504
A4.3	**Staff Toilets**													
A4.3.1	Toilet-1Fixture Hncp.	TR-1	K-1			2 @ 56	112				2 @ 56	112		
	Sub-Total							1.4	157				1.4	157
	Sub-Total City Att./Prosecution Dept.								4,277					4,369
	Expansion Allowance						3%		128			5%		218
	Total City Attorney/ Prosecution Dept.			14	14				4,405	14				4,587

V.-A Municipal Court-Administration

A3. Support Areas

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
							Currently Needed				Projected Need			
A3.1	**Conference Rooms**													
A3.1.1	Conference for 12	CF-D	E-2			1 @ 299	299				1 @ 299	299		
A3.1.2	Conference for 6	CF-F	E-2			1 @ 143	143				1 @ 143	143		
	Sub-Total							1.5	663				1.5	663
A3.2	**Files**													
A3.2.1	Files		D-1			1 @ 608	608				1 @ 608	608		
	Sub-Total							1.5	912				1.5	912
A3.3	**Supplies/Forms**													
A3.3.1	Storage		D-1			1 @ 150	150				1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
A3.4	**Supplies**													
A3.4.1	Supplies		C-2			1 @ 48	48				1 @ 48	48		
	Sub-Total							1.5	72				1.5	72
A3.5	**Janitor/Supplies**													
A3.5.1	Janitor/ Supplies		D-1			1 @ 150	150				1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
A3.6	**Copy/ Document Processing**													
A3.6.1	Copy/Doc. Processing-C	CA-C	C-2			1 @ 150	150				1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
A3.7	**Computer Production Room**													
A3.7.1	Computer Production Room		C-2			1 @ 150	150				1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
A3.8	**Computer Room**													
A3.8.1	Computer Room		C-2			1 @ 285	285				1 @ 285	285		
A3.8.1	Printer Room		C-2			1 @ 285	285				1 @ 285	285		
	Sub-Total							1.5	855				1.5	855
A3.9	**Computer Workstations**													
A3.9.1	Computer Workstations		C-2			2 @ 36	72				2 @ 36	72		
A3.9.2	Printer Station		C-2			3 @ 15	45				3 @ 15	45		
	Sub-Total							1.8	211				1.8	211
A3.10	**Public Areas**													
A3.10.1	Public Counter		J-1			4 @ 9	36	1.3	47		4 @ 9	36	1.3	47
A3.10.2	Public Waiting		J-1			7 @ 15	105	1.5	158		7 @ 15	105	1.5	158

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
V.-A	**Municipal Court-Administration**													
A4.	**Staff Support Areas**						Currently Needed					Projected Need		
A4.1	**Coat Closet**													
A4.1.1	Coat Closet		C-1			2 @ 15	30				2 @ 15	30		
	Sub-Total							1.5	45				1.5	45
A4.2	**Breakroom**													
A4.2.1	Breakroom-(30)		F-1			1 @ 525	525				1 @ 525	525		
	Sub-Total							1.5	788				1.5	788
A4.3	**Staff Toilets**													
A4.3.1	Toilet-1Fixture Hncp.	TR-1	K-1			1 @ 56	56				1 @ 56	56		
A4.3.2	Toilet-2fixture Hncp.	TR-2	K-2			1 @ 108	108				1 @ 108	108		
	Sub-Total							1.9	312				1.9	312
	Sub-Total Municipal Court-Admin.								8,403					8,403
	Expansion Allowance						3%		252			5%		420
	Total Municipal Court-Admin.			21	21				8,655	21				8,823

V. Municipal Court

V.-B. Municipal Court-Accounting/Reception

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
B1.	**Staff Work Areas**					Currently Needed					Projected Need			
B1.1	**Court Accountant**													
B1.1.1	Court Accountant	SO-C	B-3	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
B1.2	**Head Teller**													
B1.2.1	Workstation	SO-D	B-3	1	1	1 @ 100	100			1	1 @ 100	100		
	Sub-Total							1.5	150				1.5	150
B1.3	**Tellers**													
B1.3.1	Workstation	WS-F	C-1	4	4	4 @ 48	192			4	4 @ 48	192		
	Sub-Total							1.8	346				1.8	346
B1.4	**Court Tel.Oper./Receptionist**													
B1.4.1	Court Telephone Operator	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
B1.4.2	Workstation	WS-F	C-1	4	4	4 @ 48	192			4	4 @ 48	192		
	Sub-Total							1.8	475				1.8	475
B2.	**Support Areas**													
B2.1	**Conference Room**													
B2.1.1	Conference for 8	CF-F	E-3			1 @ 143	143				1 @ 143	143		
	Sub-Total							1.5	215				1.5	215
B2.2	**Files**													
B2.2.1	Accounting Files		D-1			7 @ 10	70				7 @ 10	70		
B2.2.2	WCS Files		D-1			10 @ 10	100				10 @ 10	100		
	Sub-Total							1.5	255				1.5	255
B2.3	**Copy/ Document Proc.- Acct.**													
B2.3.1	Copy/Doc. Processing-F	CA-F	C-2			1 @ 54	54				1 @ 54	54		
	Sub-Total							1.3	70				1.3	70
B2.5	**Computer Area**													
B2.5.1	Computer Workstations		C-2			1 @ 36	36				1 @ 36	36		
B2.5.2	Printer Station		C-2			4 @ 15	60				4 @ 15	60		
	Sub-Total							1.8	173				1.8	173
B2.6	**Public Areas**													
B2.6.1	Public Counter		C-2			10 @ 15	150				10 @ 15	150		
B2.6.2	Public Waiting		C-2			7 @ 15	105				7 @ 15	105		
	Sub-Total							1.3	332				1.3	332

V. Municipal Court

V.-B. Municipal Court-Accounting/Reception

B3. Staff Support Areas

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Projected Need Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
							Currently Needed				Projected Need			
B3.1	**Coat Closet**													
B3.1.1	Coat Closet		C-1			1 @ 20	20				1 @ 20	20		
	Sub-Total							1.5	30				1.5	30
B3.2	**Coffee Bar**													
B3.2.1	Coffee/Sink Area		F-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.3	52				1.3	52
	Sub-Total Municipal Court-Acct.								2,323					2,323
	Expansion Allowance						3%		70			5%		116
	Total Municipal Court-Acct.			11	11				2,393	11				2,439

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
V.-C.	**Municipal Court-WCS**													
C1.	**Staff Support Areas**					Currently Needed					Projected Need			
C1.1	**Program Director**													
C1.1.1	Program Director	SO-C	B-3	1	1	1 @ 150	150			1	1 @ 150	150		
	Sub-Total							1.5	225				1.5	225
C1.2	**Supervisor**													
C1.2.1	Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
C1.3	**Coordinator**													
C1.3.1	Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
C1.4	**Officers**													
C1.4.1	Workstation	WS-E	C-1	5	5	5 @ 72	360			5	5 @ 72	360		
	Sub-Total							1.6	576				1.6	576
C2.	**Administrative Staff**													
C2.1	**Student Interns**													
C2.1.1	Workstation	WS-G	C-1	3	3	3 @ 36	108			3	3 @ 36	108		
	Sub-Total							1.8	194				1.6	194
C3.	**Support Areas**													
C3.1	**WCS Conference Rooms**													
C3.1.1	Conference for 6	CF-F	E-3			1 @ 143	143				1 @ 143	143		
	Sub-Total							1.5	215				1.5	215
C3.2	**Copy/ Document Proc.- WCS**													
C3.2.1	Copy/Doc. Processing-F	CA-F	C-2			1 @ 54	54				1 @ 54	54		
	Sub-Total							1.3	70				1.3	70
C3.3	**WCS Public Areas**													
C3.3.1	Public Counter		J-1			16 @ 9	144	1.3	187		16 @ 9	144	1.3	187
C3.3.2	Public Waiting		J-1			4 @ 15	60	1.5	90		4 @ 15	60	1.5	90
C3.4	**Coat Closet**													
C3.4.1	Staff Coats		E-3			1 @ 15	15				1 @ 15	15		
	Sub-Total							1.5	23				1.5	23
C3.5	**Coffee Bar**													
C3.5.1	Sink/Counter		C-2			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.3	52				1.3	52
C3.6	**Staff Toilets**													
C3.6.1	Toilet-1Fix. Hancp.	TR-1	K-1			2 @ 56	112				2 @ 56	112		
	Sub-Total							1.3	146				1.3	146
	Sub-Total Municipal Court-WCS								2,008					2,008
	Expansion Allowance						3%		60			5%		100
	Total Municipal Court-WCS			11	11				2,068	11				2,108

V. Municipal Court

V.-D. Municipal Court-Courts

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
D1.	**Staff Work Areas**					Currently Needed					Projected Need			
D1.1	**Judge**													
D1.1.1	Judge w/ toilet	SO-A	B-1	3	3	3 @ 255	765			3	3 @ 255	765		
	Sub-Total							1.5	1,148				1.5	1,148
D1.2	**Judges Secretary**													
D1.2.1	Workstation	WS-E	C-1	1	1	1 @ 72	72			1	1 @ 72	72		
	Sub-Total							1.6	115				1.6	115
D1.3	**Court Clerks**													
D1.3.1	Workstation	WS-F	C-1	1	1	1 @ 48	48			1	1 @ 48	48		
D1.3.2	Workstation	WS-G	C-1	8	8	8 @ 36	288			8	8 @ 36	288		
	Sub-Total							1.8	605				1.8	605
D1.4	**Student Interns**													
D1.4.1	Workstation	WS-G	C-1							1	1 @ 36	36		
	Sub-Total												1.8	65
D2.	**Support Areas**													
D2.1	**File Area**													
D2.1.1	Files-Lateral		C-2			10 @ 12	120				10 @ 12	120		
	Sub-Total							1.5	180				1.5	180
D2.2	**Copy/ Document Processing**													
D2.2.1	Copy/Doc. Processing-F	CA-F	C-2			1 @ 54	54				1 @ 54	54		
	Sub-Total							1.3	70				1.3	70
D2.3	**Library/Temp. Judge**													
D2.3.1	Library		E-2			1 @ 200	200				1 @ 200	200		
	Sub-Total							1.5	300				1.5	300
D2.4	**Reception/ Waiting**													
D2.4.1	Reception Area		C-1			4 @ 15	60				4 @ 15	60		
	Sub-Total							1.3	260				1.3	260
D2.5	**Staff Toilets**													
D2.5.1	Toilet-1 Fix., Hancp.	TR-1	K-1			2 @ 56	112				2 @ 58	112		
	Sub-Total							1.3	78				1.3	78

Ver. 4.01.03

Component Space Program

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
V.-D.	**Municipal Court-Courts**													
D4.	**Staff Support Areas**					Currently Needed						Projected Need		
D4.1	**Coat Closet**													
D4.1.1	Coat Closet		C-1			1 @ 20	20				1 @ 15	15		
	Sub-Total							1.5	30				1.5	23
D4.2	**Coffee Bar**													
D4.21	Coffee/Sink Area		F-1			1 @ 40	40				1 @ 40	40		
	Sub-Total							1.3	52				1.3	52
D5.	**Court Areas**													
D5.1	**Courtroom**													
D5.1.1	Courtroom		A-1			3 @ 1,000	3,000				3 @ 1,000	3,000		
D5.1.2	Court Clerk	WS-F		7	7					7				
D5.1.3	Bailiff	WS-G		6	3					3				
	Sub-Total							1.2	3,600				1.2	3,600
D5.2	**Holding Room**													
D5.2.1	Holding					2 @ 70	140				2 @ 70	140		
D5.2.2	Officer Station					1 @ 36	36				1 @ 36	36		
	Sub-Total							1.8	317				1.8	317
D5.3	**Attorney Conference Rooms**													
D5.3.1	Witness Room		E-3			3 @ 100	300				3 @ 100	300		
	Sub-Total							1.5	450				1.5	450
D6.	**Public Areas**													
D6.1	**Public Waiting**													
D6.1.1	Public Seating		J-1			130 @ 15	1,950				130 @ 15	1,950		
	Sub-Total							1.5	2,925				1.5	2,925
D6.2	**Public Toilets**													
D6.2.1	Toilet-4 fixture Hncp.	TR-4	K-2			2 @ 200	400				2 @ 200	400		
	Sub-Total							1.5	600				1.5	600
D6.3	**Security Screening**													
D6.3.1	Magnetometer Station		J-2			1 @ 250	250				1 @ 250	250		
	Sub-Total							1.3	325				1.3	325
	Sub-Total Municipal Court-Courts								11,055					11,113
	Expansion Allowance						3%		332			5%		556
	Total Municipal Court-Courts			26	23				11,367	24				11,669

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSFr	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
VI.	**Facility Support/Public Spaces**													
VI.-A	**Public Areas**					Currently Needed						Projected Need		
A1.1	**Lobby Security Station**													
A1.1.1	Magnetometer Station					1 @ 100	100				1 @ 100	100		
A1.1.2	Public Waiting					15 @ 9	135				15 @ 9	135		
	Sub-Total							1.50	353				1.50	353
A1.2	**Weather Vestibule**													
A1.2.1	Vestibule					1 @ 200	200				1 @ 200	200		
	Sub-Total							1.50	300				1.50	300
A1.3	**Public Areas-Lobby**													
A1.3.1	Seating					20 @ 15	300				20 @ 15	300		
A1.3.2	Telephones					10 @ 9	90				10 @ 9	90		
A1.3.3	Directory					1 @ 100	100				1 @ 100	100		
A1.3.4	Public Toilets					2 @ 300	600				2 @ 300	600		
	Sub-Total							2.00	2,180				2.00	2,180
A1.4	**Public Cafeteria**													
A1.4.1	Vending Machines					6 @ 15	90				8 @ 15	90		
A1.4.2	Table Seating					40 @ 12	480				40 @ 12	480		
A1.4.3	Trash Area					2 @ 30	60				2 @ 30	60		
A1.4.4	Storage Area					1 @ 100	100				1 @ 100	100		
	Sub-Total							2.00	1,460				2.00	1,460
	Sub-Total Fac. Sup./Pub. Spaces								4,293					4,293
	Expansion Allowance						3%		129			5%		215
	Total Facility Support/Public Spaces								4,422					4,508

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
VII.	**Vehicle Facilities**													
I1.	**Vehicle Parking Areas**					Currently Needed					Projected Need			
I1.1	**Police Vehicle Staging**													
I1.1.1	Exterior Lot for Shift Change					100 @ 150	15,000				150 @ 200	30,000		
	Sub-Total					Not in Total		1.50	22,500		Not in Total		1.50	45,000
I1.2	**Police Automobile Spaces**													
I1.2.1	Police Automobile Spaces					243 @ 150	36,450				365 @ 150	54,675		
	Sub-Total							2.25	82,013				2.25	123,019
I1.3	**Police Special Vehicles**													
I1.3.1	Police Special Vehicles					16 @ 240	3,840				24 @ 240	5,760		
	Sub-Total							2.25	8,640				2.25	12,960
I1.4	**Police Bomb Truck**													
I1.4.1	Bomb Truck and Trailer					2 @ 390	780				2 @ 390	780		
	Sub-Total							2.25	1,755				2.25	1,755
I1.5	**Police Motorcycles**													
I1.5.1	Police Motorcycles					41 @ 60	2,460				50 @ 60	3,000		
	Sub-Total							2.25	5,535				2.25	6,750
I1.6	**Police Mobile Command Post**													
I1.6.1	Police Mobile Command Post					1 @ 600	600				1 @ 600	600		
	Sub-Total							2.25	1,350				2.25	1,350
I1.7	**Municipal Court Parking**													
I1.7.1	Municipal Court Parking					5 @ 150	750				8 @ 150	1,200		
If.7.2	Visitor Parking					2 @ 150	300				2 @ 150	300		
	Sub-Total							2.25	1,688				2.25	2,700
I1.8	**Fire and Police Commission**													
I1.8.1	Fire and Police Commission Parking					1 @ 150	150				1 @ 150	150		
	Sub-Total							2.25	338				2.25	338
I1.9	**Visitor Parking**													
I1.9.1	Visitor Parking					5 @ 150	750				8 @ 150	1,200		
	Sub-Total							2.25	1,688				2.25	2,700
I1.10	**Maintenance Vehicles**													
I1.10.1	Maintenance Vehicles					7 @ 240	1,680				11 @ 240	2,520		
	Sub-Total							2.25	3,780				2.25	5,670
I2.	**Vehicle Service Areas**													
I2.1	**Vehicle Fueling Area**													
I2.1.1	Fuel Pump Areas					2 @ 500	1,000				4 @ 500	2,000		
	Sub-Total							1.5	1,500				1.5	3,000
I2.2	**Vehicle Wash Racks**													
I2.2.1	Vehicle Wash Racks					2 @ 450	900				3 @ 450	1,350		
	Sub-Total							1.5	1,350				1.5	2,025
I2.3	**Vehicle Maintenance Hoists**													
I2.3.1	Vehicle Hoists					2 @ 450	900				3 @ 450	1,350		
	Sub-Total							1.5	1,350				1.5	2,025
I2.4	**Vehicle Maintenance Bay**													
I2.4.1	Vehicle Maintenance Bay					1 @ 450	450				2 @ 450	900		
	Sub-Total							1.5	675				1.5	1,350

Comp. #	Space Name/Designation	STND	RFC	Exist. Staff	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF	CF	Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF	CF	Total NSF
VII.	**Vehicle Facilities**													
I3.	**Garage Office**				Currently Needed						Projected Need			
I3.1	**Garage Attendant**													
I3.1.1	Garage Workstation	WS-G	I-1	7	7	7 @ 36	252			7	7 @ 36	252		
	Sub-Total							1.8	454				1.8	454
I3.2	**Staff Toilet**													
I3.2.1	Toilet-1Fixture Hncp.	TR-1	K-2			1 @ 56	56				1 @ 56	56		
	Sub-Total							1.4	78				1.4	78
	Sub-Total Vehicle Facility								532					532
	Expansion Allowance						10%		53			20%		106
	Total Vehicle Facility			7	7				585	7				638

Comp. #	Space Name/Designation	STND	RFR	Exist. Staff	Existing NSF	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF CF Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF CF Total NSF
III.	**Police Department**										
D.	**Administration Bureau (Cont.)**										
Dc.	**Medical Section**										
	Total Medical Section			4		4		892	4		909
Dd.	**Payroll Section**										
	Total Payroll Section			5		5		1,131	5		1,185
	Administrative Total										
	Comparison Totals			66	11,041	67		24,082	68		25,248
De.	**Property Control Section**										
	Total Property Control Section			21	15,068	21		30,339	26		45,764
Df.	**Maintenance Service Section**										
	Total Maintenance Service Section			49	3,099	49		13,969	61		15,525
Dg.	**License Investigation Unit**										
	Total License Investigation Unit			8	752	8		2,475	12		3,230
E.	**Technical Service Bureau**										
	Total Technical Service Bureau			1	8224	1		2,979	1		3,250
Ea.	**Court Administration Section**										
	Total Court Administration Section			32		32		1,299	34		1,505
Eb.	**Communications Operations Division and Maintenance**										
	Total CODM			149		149		6,989	149		7,322
Ec.	**Data Services Division**										
	Total Data Services Division			41		41		18,636	49		20,594

Comp. #	Space Name/Designation	STND	RFR	Exist. Staff	Existing NSF	C N Staff	Number Of Units # @ NSF/	Currently Needed NSF CF Total NSF	Proj. Staff	Number of Units # @ NSF/	Projected Need NSF CF Total NSF
III.	**Police Department**										
F.	**Criminal Investigation Bureau (Cont.)**										
Fd.	**Crimes Against Persons**										
	Total Crimes Against Persons			88		90		5,932	90		6,472
Fe.	**Crimes Against Property**										
	Total Crimes Against Property			72		72		5,768	75		6,425
Ff.	**Gang Crimes Intelligence Division**										
	Total Gang Crimes Intelligence Division			43		50		4,662	50		5,086
	Criminal Investigation Bureau Total										
	Comparison Totals			409	20,170	419		50,893	438		56,784
G.	**Uniform Patrol Bureau**										
	Total Uniform Patrol Bureau			6	654	6		2,592	7		2,962
Ha.	**First District**										
	Total First District			285	6,609	285		23,677	285		25,786
Hb.	**Metropolitan Section**										
	Total Metropolitan Section			0		15		5,302	15		5,784
III.	**Police Department**										
	Total Police Department			1,293	84,415	1,319		213,351	1,421		248,245

Section 3

Space Standards

In this section, individual work spaces and activity areas are described in terms of square footage need. The intent of this material is not to fix speciific shapes of spaces or design features, but rather, to establish the area which is required to accomodate the personnel and related furniture and equipment for the assigned function(s).

Dimensions appear with each standard and a graphic scale is also provided.

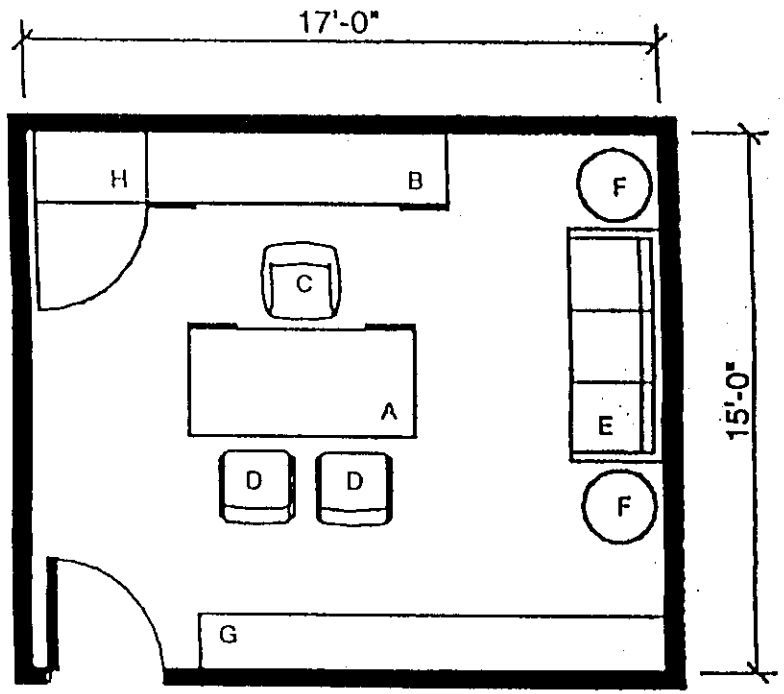
These Space Standards carry identification codes, (ie: "CA-C"), in the bottom right hand corner which is referenced in the Component Space Program spreadshetts appearing in Section 2.

Standard Office A

255 Net Square Feet

Notes

A Desk, Double Pedestal ..... 36" x 72"
B Credenza, Pedestal L & R ..... 24" x 96"
C Executive Chair
D Guest Chair
E Sofa
F Side Table
G Bookshelves
H Cabinet Closet

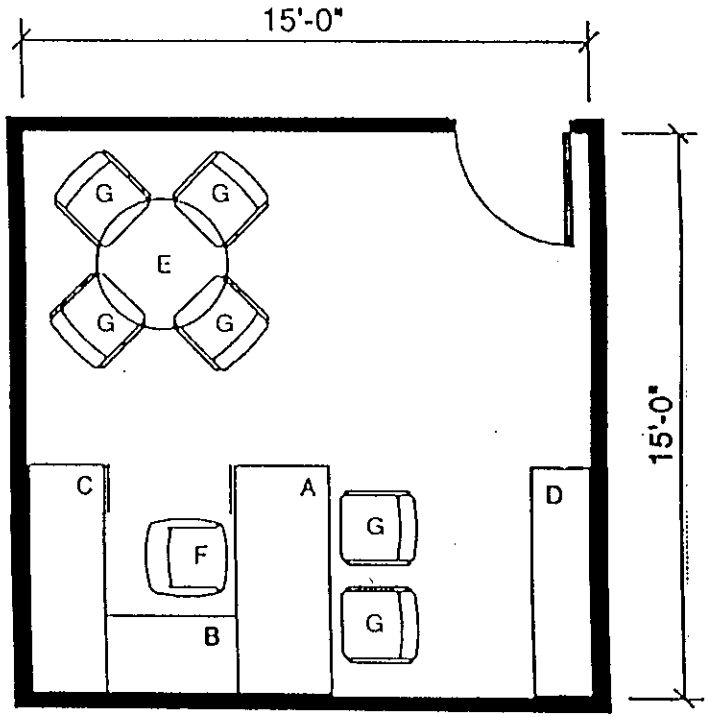


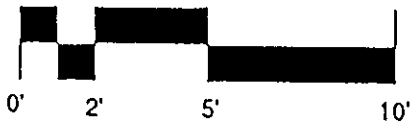
Standard Office B

225 Net Square Feet

Notes

A	Desk, Pedestal L	30" x 72"
B	Bridge	24" x 42"
C	Credenza, Pedestal R	24" x 72"
D	Book Shelf	18" x 72"
E	Conference Table	42"D
F	Executive Chair	
G	Guest Chair	





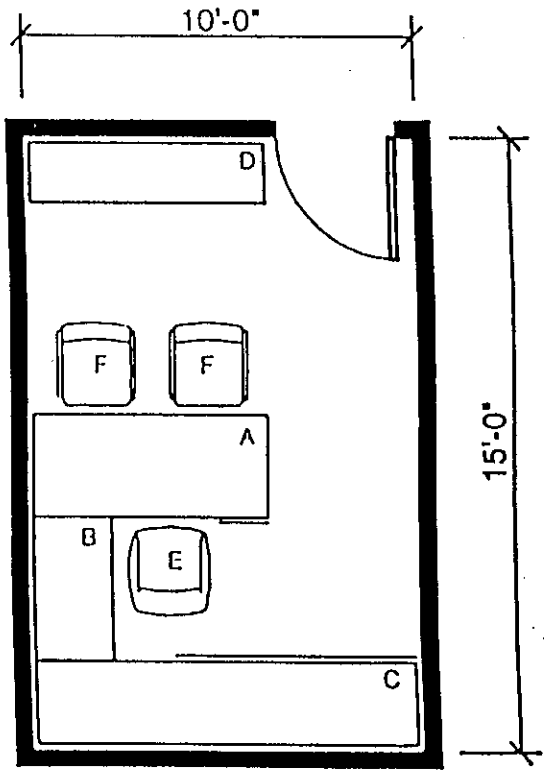
SO-B 225 nsf

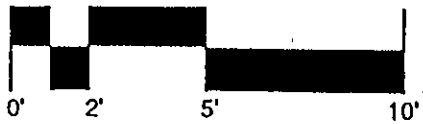
Standard Office C

150 Net Square Feet

Notes

A	Desk, Pedestal R	30" x 72"
B	Bridge	24" x 42"
C	Credenza, Pedestals L	24" x 116"
D	Book Shelf	18" x 72"
E	Executive Chair	
F	Guest Chair	





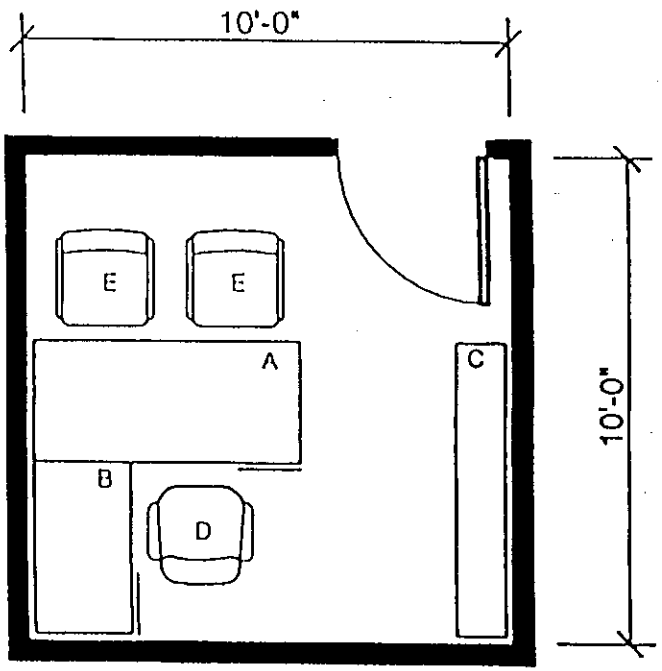
SO-C 150 nsf

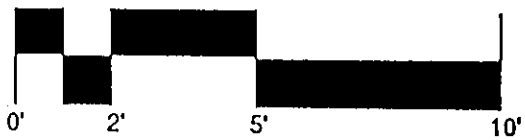
Standard Office D

100 Net Square Feet

Notes

A	Desk, Pedestal R	30" x 66"
B	Return, Pedestal L	24" x 42"
C	Book Shelf	12" x 72"
D	Managerial Chair	
E	Guest Chair	





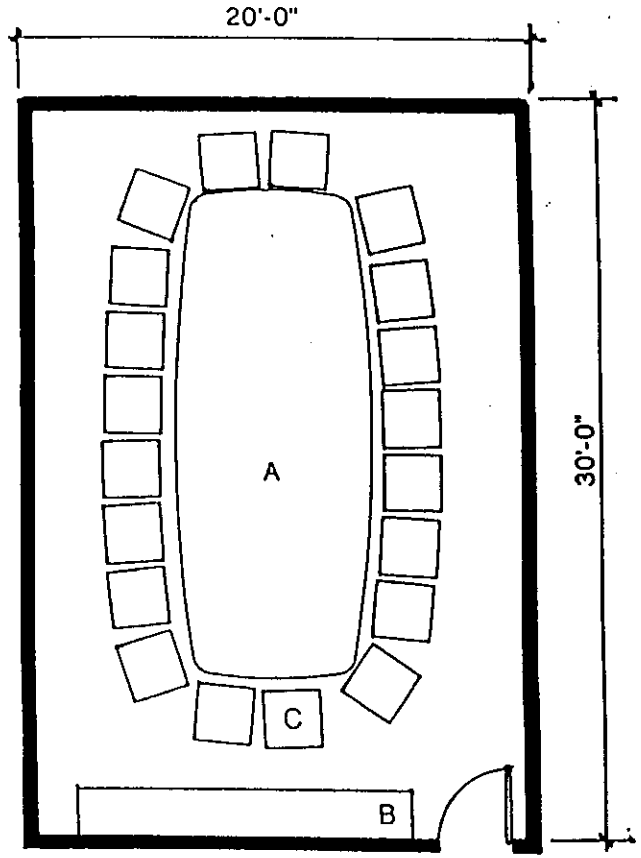
SO-D 100 nsf

Conference B

600 Net Square Feet

Notes

A Conference Table
B Credenza, storage below
C Conference chair



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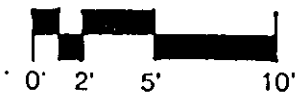


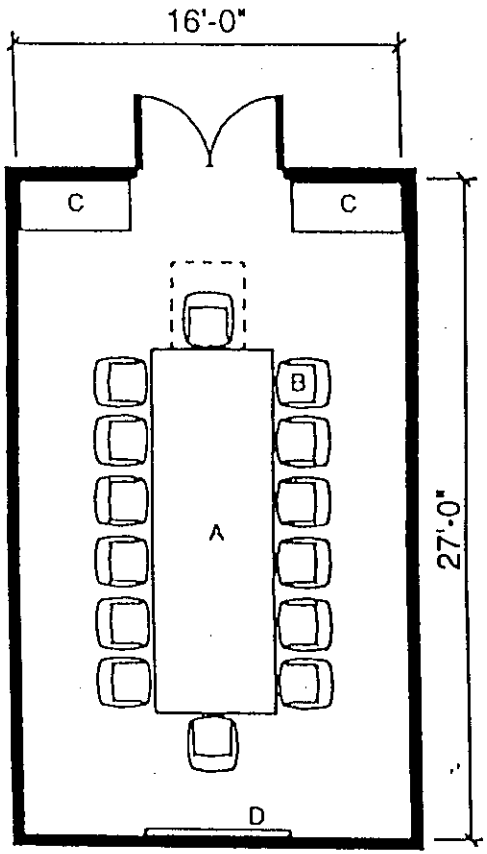
CF-B 600 NSF

Conference C

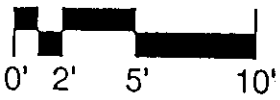
432 Net Square Feet

Notes

A Conference table ..... 180"W x 48"D
B Conference chair
C Credenza/storage below
D Marker board



Executive: Capacity 14



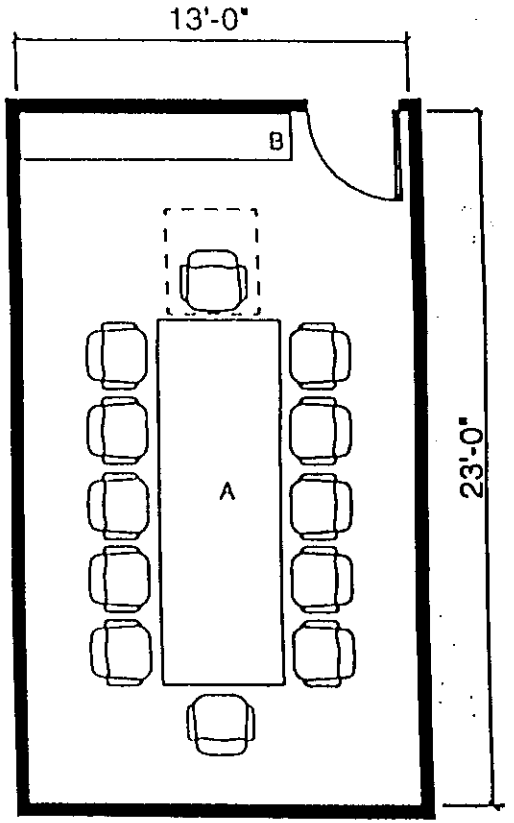
CF-C 432 NSF

Conference D

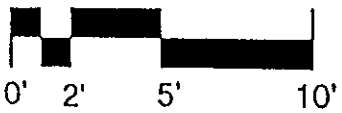
299 Net Square Feet

Notes

A Conference Table..... 144" W x 48" D
B Credenza, storage below
C Conference chair



Staff: Capacity 12



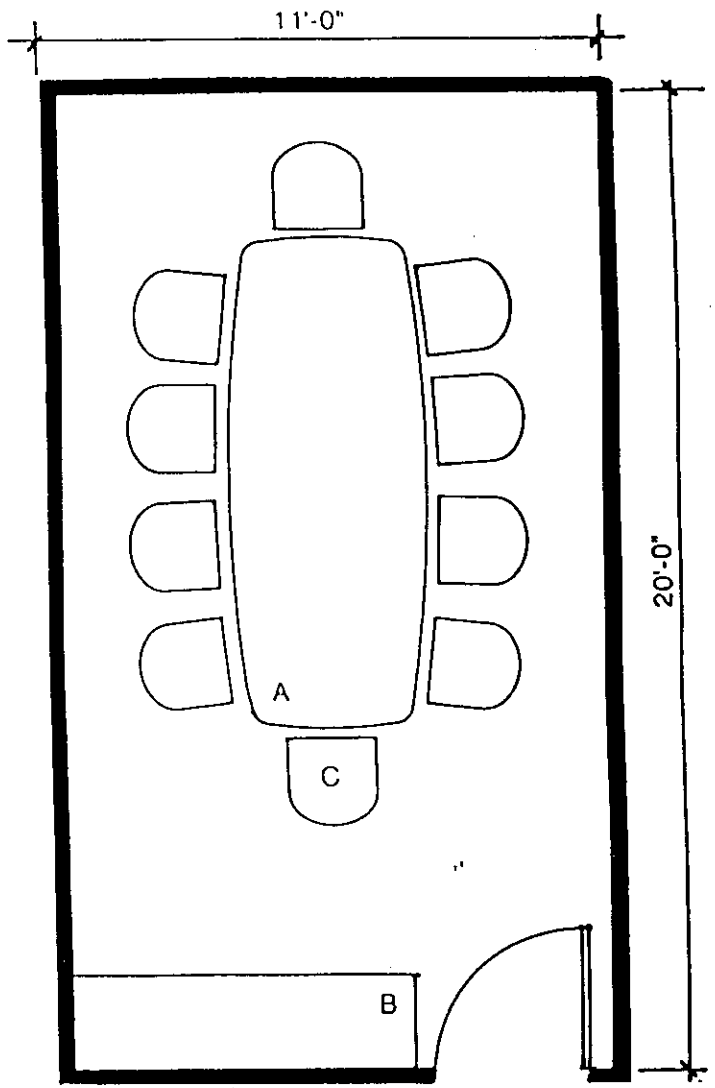
CF-D 299 NSF

Conference E

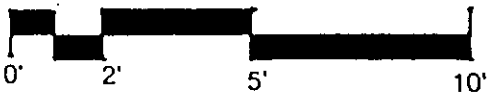
220 Net Square Feet

Notes

A Conference Table
B Credenza, storage below
C Conference chair



CAPACITY: 10



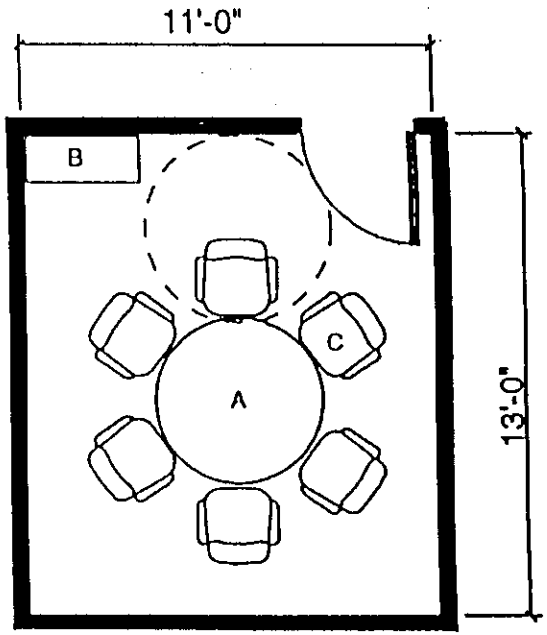
CF-E 220 N

Conference F

143 Net Square Feet

Notes

A Conference Table, 54" D
B Side Table
C Conference chair



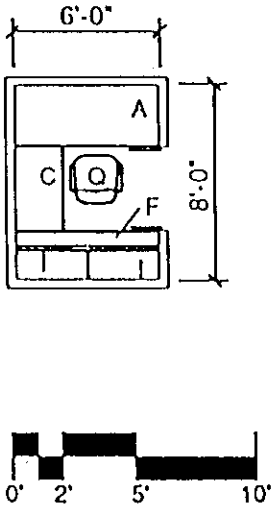
Staff: Capacity 6

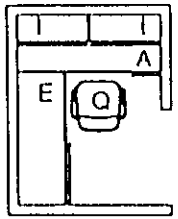
Workstation F

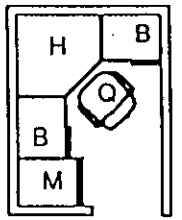
48 Net Square Feet

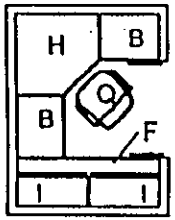
Notes

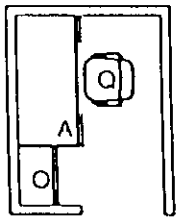
A	Work Surface	30" x 72"
B	Work Surface	24" x 30"
C	Work Surface	24" x 42"
D	Work Surface	24" x 54"
E	Work Surface	24" x 66"
F	Work Surface	24" x 72"
G	Work Surface	24" x 108"
H	Corner Work Surface	42"W
I	Overhead Shelving Unit	15" x 36"
J	Overhead Shelving Unit	15" x 54"
K	Overhead Shelving Unit	15" x 72"
L	Vertical File	Two Drawer
M	Vertical File	Four Drawer
N	Lateral File	Two Drawer
O	Lateral File	Four Drawer
P	Storage Unit	30" x 36"
Q	Desk Chair	
R	Guest Chair	

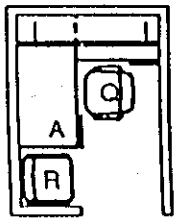












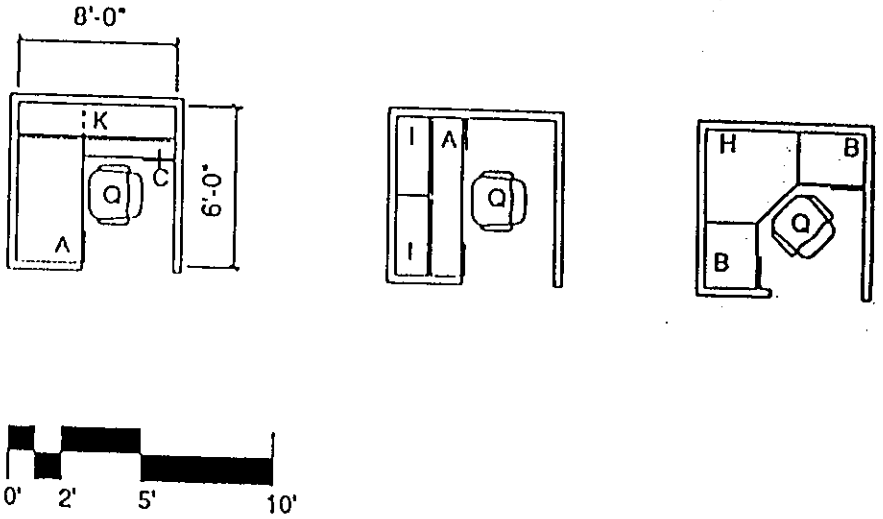
WS-F 48 nsf

Workstation G

36 Net Square Feet

Notes

A	Work Surface	30" x 72"
B	Work Surface	24" x 30"
C	Work Surface	24" x 42"
D	Work Surface	24" x 54"
E	Work Surface	24" x 66"
F	Work Surface	24" x 72"
G	Work Surface	24" x 108"
H	Corner Work Surface	42"W
I	Overhead Shelving Unit	15" x 36"
J	Overhead Shelving Unit	15" x 54"
K	Overhead Shelving Unit	15" x 72"
L	Vertical File	Two Drawer
M	Vertical File	Four Drawer
N	Lateral File	Two Drawer
O	Lateral File	Four Drawer
P	Storage Unit	30" x 36"
Q	Desk Chair	
R	Guest Chair	

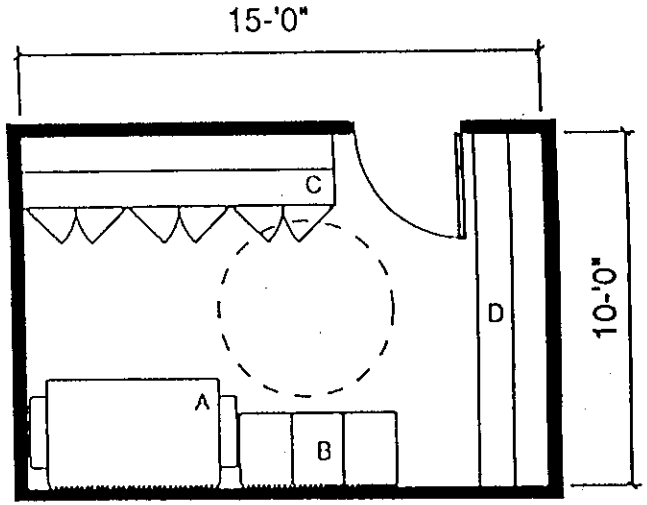


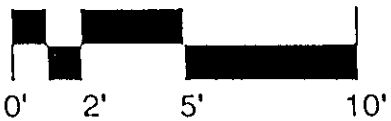
Copy Area C

150 Net Square Feet

Notes

A Copy Machine
B Trash/Recycle Bins
C Counter Work Surface with cabinets below & shelving above
D Counter Work Surface with shelving above





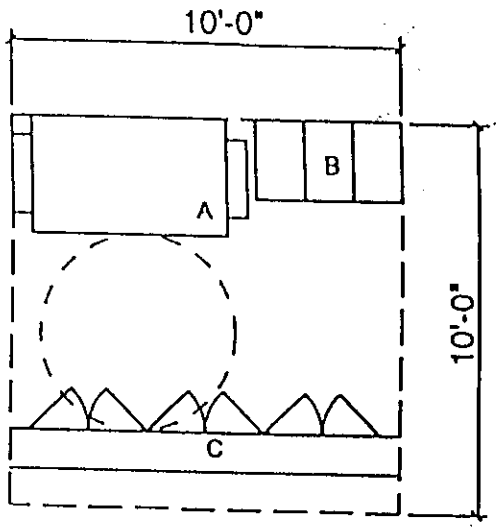
CA-C- 150 NSF

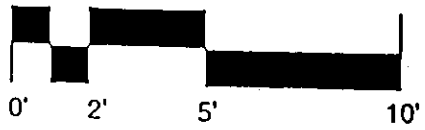
Copy Area E

100 Net Square Feet

Notes

A Copy Machine
B Trash/Recycle Bins
C Counter Work Surface with cabinets below & shelving above



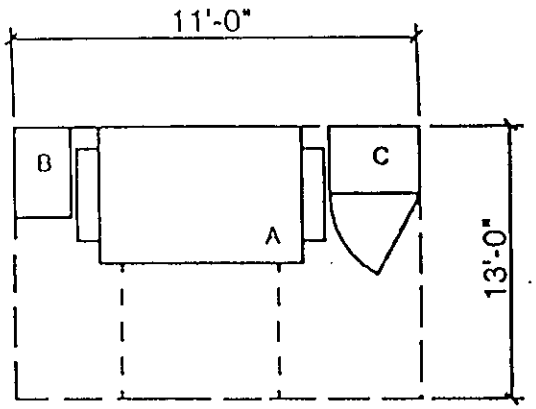


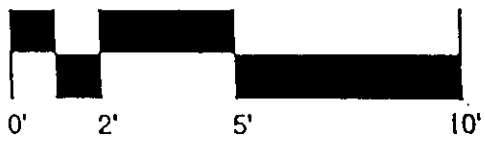
Copy Area F

54 Net Square Feet

Notes

A Copy Machine
B Trash
C Paper Storage Cabinet





CA-F 54 NS

Section 4

Room Finish Requirements

In the following material, required features of individual spaces are described. These include finishes of floors, walls and ceilings, furnishings and special requirements.

The purpose of this information is to provide a baseline for cost estimating under renovation or new construction option scenarios. It is not intended to fix final design features or supercede decision-making that could evolve out of subsequent stages of project implementation.

The format which follows is a checklist in which categories of finish or other item are highlighted where a specific choice is intended for a particular space.

Room Criteria

Courtroom A-1

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [x] Fabric Wallcovering
- [ ] Ceramic Tile
- [x] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [x] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [x] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [ ] Fluorescent
- [ ] Incandescent
- [x] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [x] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [x] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [x] Sound Enhancement System
- [x] Video Monitors
- [x] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [x] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [x] Remote/ Monitor Control

SECURITY
- [x] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [x] Automatic Sound Monitoring
- [x] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [x] Freestanding
- [x] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Ver. 3.0

Room Criteria

Chambers B-1

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [ ] Paint
- [ ] Vinyl Wallcovering
- [x] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [x] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [x] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [ ] Fixed
- [x] Freestanding
- [x] Millwork
- [ ] Modular Partitions
- [x] Fixed Shelving

Room Criteria

Office B-2

Comp # | Applicable Spaces | NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [ ] Paint
- [x] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] Insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [x] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [x] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [ ] Fixed
- [x] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Room Criteria

Office B-3

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Tarrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] Insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [x] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [x] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [x] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [ ] Fixed
- [x] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Room Criteria

Work Areas C-1

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] Insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [x] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [x] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [x] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [ ] Fixed
- [x] Freestanding
- [ ] Millwork
- [x] Modular Partitions
- [x] Fixed Shelving

Room Criteria

Work Areas C-2

Comp #	Applicable Spaces	NSF

FLOORING
- ☐ Carpet
- ■ Carpet Tile
- ☐ Vinyl Composition Tile
- ☐ Wood
- ☐ Resinous Flooring
- ☐ Ceramic Tile
- ☐ Terrazzo/Stone
- ☐ Sealed Concrete

WALLS
- ■ Drywall
- ■ Paint
- ☐ Vinyl Wallcovering
- ☐ Fabric Wallcovering
- ☐ Ceramic Tile
- ☐ Wood Panelling
- ☐ Acousitc Panelling
- ☐ Block
- ☐ Stone
- ☐ Glass

CEILING
- ■ Acoustic Tile
- ☐ Drywall
- ☐ Security
- ☐ Exposed

WINDOWS
- ■ insulating Glass
- ■ Tempered Glass
- ☐ Security Frame
- ☐ Security Glass
- ☐ None
- ■ Daylight Control Treatment
- ☐ Black-out Shades

Special Considerations

LIGHTING
- ■ General Lighting
- ☐ Task Lighting
- ☐ Surface Mounted
- ■ Recessed Mounted
- ■ Fluorescent
- ☐ incandescent
- ☐ Special Requirements

ELECTRICAL
- ■ Power Outlets
- ☐ Emergency Power Supply
- ☐ Clean Power

CABLING
- ■ Computer Network
- ☐ Fiber Optic Video

MECHANICAL
- ☐ Heating Only
- ☐ Ventilation
- ■ HVAC

PLUMBING
- ■ Fire Suppression System
- ☐ Special Fire Suppression
- ☐ Hot Water
- ☐ Cold Water
- ☐ Standard Fixtures
- ☐ Stainless Comby Fixture
- ☐ Water Fountain
- ☐ Sink
- ☐ Shower
- ☐ Floor Drain(s)
- ☐ Mop Sink
- ☐ Spigot
- ☐ None

SPECIAL
- ■ Visual/Audible Life Safety Alarms
- ☐ Video Teleconferencing
- ☐ Video Information System
- ☐ Information Kiosks
- ☐ Listening Devices
- ☐ Sound Enhancement System
- ☐ Video Monitors
- ☐ Public Address Speakers

DOORS
- ☐ Wood
- ■ Hollow Metal
- ☐ Security Hollow Metal
- ☐ Vision Panel
- ☐ Side Lite
- ☐ Glass

DOOR OPERATION
- ■ Manual Operation
- ☐ Access Control
- ☐ Remote/ Monitor Control

SECURITY
- ☐ Security Intercom
- ☐ CCTV Camera
- ☐ Motion Detector
- ☐ Automatic Sound Monitoring
- ☐ Duress Alarm System
- ☐ Control Console

FURNITURE
- ☐ Fixed
- ■ Freestanding
- ☐ Millwork
- ☐ Modular Partitions
- ■ Fixed Shelving

Room Criteria

Staff Counters C-3

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [■] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [■] Drywall
- [■] Paint
- [■] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [■] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [■] Insulating Glass
- [■] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [■] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [■] General Lighting
- [ ] Task Lighting
- [ ] Surface Mounted
- [■] Recessed Mounted
- [■] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [■] Power Outlets
- [■] Emergency Power Supply
- [ ] Clean Power

CABLING
- [■] Computer Network
- [■] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [■] HVAC

PLUMBING
- [■] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [■] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [■] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [■] Video Monitors
- [ ] Public Address Speakers

DOORS
- [ ] Wood
- [■] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [■] Manual Operation
- [■] Access Control
- [■] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [■] CCTV Camera
- [■] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [■] Fixed
- [■] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

File / Storage Rooms D-1

Comp #	Applicable Spaces	NSF

FLOORING
- ☐ Carpet
- ☐ Carpet Tile
- ■ Vinyl Composition Tile
- ☐ Wood
- ☐ Resinous Flooring
- ☐ Ceramic Tile
- ☐ Terrazzo/Stone
- ■ Sealed Concrete

WALLS
- ■ Drywall
- ■ Paint
- ☐ Vinyl Wallcovaring
- ☐ Fabric Wallcovering
- ☐ Ceramic Tile
- ☐ Wood Paneling
- ☐ Acoustic Panelling
- ■ Block
- ☐ Stone
- ☐ Glass

CEILING
- ■ Acoustic Tile
- ☐ Drywall
- ☐ Security
- ■ Exposed

WINDOWS
- ☐ Insulating Glass
- ☐ Tempered Glass
- ☐ Security Frame
- ☐ Security Glass
- ■ None
- ☐ Daylight Control Treatment
- ☐ Block-out Shades

Special Considerations

LIGHTING
- ■ General Lighting
- ☐ Task Lighting
- ■ Surface Mounted
- ■ Recessed Mounted
- ■ Fluorescent
- ☐ Incandescent
- ☐ Special Requirements

ELECTRICAL
- ■ Power Outlets
- ☐ Emergency Power Supply
- ☐ Clean Power

CABLING
- ■ Computer Network
- ☐ Fiber Optic Video

MECHANICAL
- ☐ Heating Only
- ☐ Ventilation
- ■ HVAC

PLUMBING
- ☐ Fire Suppression System
- ■ Special Fire Suppression
- ☐ Hot Water
- ☐ Cold Water
- ☐ Standard Fixtures
- ☐ Stainless Comby Fixture
- ☐ Water Fountain
- ☐ Sink
- ☐ Shower
- ☐ Floor Drain(s)
- ☐ Mop Sink
- ☐ Spigot
- ☐ None

SPECIAL
- ■ Visual/Audible Life Safety Alarms
- ☐ Video Teleconferencing
- ☐ Video Information System
- ☐ Information Kiosks
- ☐ Listening Devices
- ☐ Sound Enhancement System
- ☐ Video Monitors
- ■ Public Address Speakers

DOORS
- ☐ Wood
- ■ Hollow Metal
- ☐ Security Hollow Metal
- ☐ Vision Panel
- ☐ Side Lite
- ☐ Glass

DOOR OPERATION
- ■ Manual Operation
- ■ Access Control
- ☐ Remote/ Monitor Control

SECURITY
- ☐ Security Intercom
- ☐ CCTV Camera
- ☐ Motion Detector
- ☐ Automatic Sound Monitoring
- ☐ Duress Alarm System
- ☐ Control Console

FURNITURE
- ☐ Fixed
- ■ Freestanding
- ☐ Millwork
- ☐ Modular Partitions
- ■ Fixed Shelving

Room Criteria

Projection Rooms D-2

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [x] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Paneling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [x] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [x] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [x] Emergency Power Supply
- [x] Clean Power

CABLING
- [x] Computer Network
- [x] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [ ] Fire Suppression System
- [x] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [x] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [x] Sound Enhancement System
- [x] Video Monitors
- [ ] Public Address Speakers

DOORS
- [ ] Wood
- [x] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [x] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [x] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Room Criteria

Conference Rooms E-1

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [ ] Paint
- [ ] Vinyl Wallcovering
- [x] Fabric Wallcovering
- [ ] Ceramic Tile
- [x] Wood Paneling
- [x] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [ ] Acoustic Tile
- [x] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] Insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [x] Daylight Control Treatment
- [x] Black-out Shades

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [x] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [x] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [x] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [x] Video Teleconferencing
- [x] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [x] Video Monitors
- [ ] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [x] Side Lite
- [x] Glass

DOOR OPERATION
- [x] Manual Operation
- [x] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [ ] Fixed
- [x] Freestanding
- [x] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

Jury Rooms E-2

Comp #	Applicable Spaces	NSF

FLOORING
- ☐ Carpet
- ■ Carpet Tile
- ☐ Vinyl Composition Tile
- ☐ Wood
- ☐ Resinous Flooring
- ☐ Ceramic Tile
- ☐ Terrazzo/Stone
- ☐ Sealed Concrete

WALLS
- ■ Drywall
- ☐ Paint
- ☐ Vinyl Wallcovering
- ■ Fabric Wallcovering
- ☐ Ceramic Tile
- ☐ Wood Paneling
- ☐ Acoustic Panelling
- ☐ Block
- ☐ Stone
- ☐ Glass

CEILING
- ■ Acoustic Tile
- ■ Drywall
- ☐ Security
- ☐ Exposed

WINDOWS
- ■ Insulating Glass
- ■ Tempered Glass
- ☐ Security Frame
- ☐ Security Glass
- ☐ None
- ■ Daylight Control Treatment
- ■ Block-out Shades

Special Considerations

LIGHTING
- ■ General Lighting
- ☐ Task Lighting
- ☐ Surface Mounted
- ■ Recessed Mounted
- ■ Fluorescent
- ■ Incandescent
- ☐ Special Requirements

ELECTRICAL
- ■ Power Outlets
- ■ Emergency Power Supply
- ☐ Clean Power

CABLING
- ☐ Computer Network
- ☐ Fiber Optic Video

MECHANICAL
- ☐ Heating Only
- ☐ Ventilation
- ■ HVAC

PLUMBING
- ■ Fire Suppression System
- ☐ Special Fire Suppression
- ☐ Hot Water
- ☐ Cold Water
- ☐ Standard Fixtures
- ☐ Stainless Comby Fixture
- ☐ Water Fountain
- ☐ Sink
- ☐ Shower
- ☐ Floor Drain(s)
- ☐ Mop Sink
- ☐ Spigot
- ☐ None

SPECIAL
- ■ Visual/Audible Life Safety Alarms
- ☐ Video Teleconferencing
- ☐ Video Information System
- ☐ Information Kiosks
- ☐ Listening Devices
- ☐ Sound Enhancement System
- ■ Video Monitors
- ☐ Public Address Speakers

DOORS
- ■ Wood
- ☐ Hollow Metal
- ☐ Security Hollow Metal
- ☐ Vision Panel
- ■ Side Lite
- ☐ Glass

DOOR OPERATION
- ■ Manual Operation
- ☐ Access Control
- ☐ Remote/ Monitor Control

SECURITY
- ☐ Security Intercom
- ☐ CCTV Camera
- ☐ Motion Detector
- ☐ Automatic Sound Monitoring
- ☐ Duress Alarm System
- ☐ Control Console

FURNITURE
- ☐ Fixed
- ■ Freestanding
- ■ Millwork
- ☐ Modular Partitions
- ☐ Fixed Shelving

Room Criteria

Conference Rooms E-3

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [x] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [x] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] Insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [x] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [x] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [x] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [ ] Fixed
- [x] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

Lunch/Break Rooms F-1

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [x] Carpet Tile
- [x] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [ ] Paint
- [x] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [x] Insulating Glass
- [x] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [ ] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [ ] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [x] Hot Water
- [x] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [x] Water Fountain
- [x] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [x] Public Address Speakers

DOORS
- [ ] Wood
- [x] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [x] Freestanding
- [x] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Refrigerator

Microwave Oven

Room Criteria

Staff Lockers G-1

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [■] Carpet Tile
- [■] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [■] Drywall
- [■] Paint
- [■] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [■] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [■] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [■] General Lighting
- [ ] Task Lighting
- [ ] Surface Mounted
- [■] Recessed Mounted
- [■] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [■] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [ ] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [■] HVAC

PLUMBING
- [■] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [■] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [■] Water Fountain
- [ ] Sink
- [ ] Shower
- [ ] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [■] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [■] Public Address Speakers

DOORS
- [ ] Wood
- [■] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [■] Manual Operation
- [■] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [■] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [■] Fixed
- [ ] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

Holding Cells H-1

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [x] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [ ] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [x] Block
- [ ] Stone
- [ ] Glass

CEILING
- [ ] Acoustic Tile
- [ ] Drywall
- [x] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [x] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [x] Surface Mounted
- [ ] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [ ] Power Outlets
- [x] Emergency Power Supply
- [ ] Clean Power

CABLING
- [ ] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [x] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [ ] Wood
- [ ] Hollow Metal
- [x] Security Hollow Metal
- [x] Vision Panel
- [x] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [x] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [x] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [ ] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

Detention Areas H-2

Comp #	Applicable Spaces	NSF

FLOORING
- [x] Carpet
- [ ] Carpet Tile
- [x] Vinyl Composition Tile
- [ ] Wood
- [x] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [x] Sealed Concrete

WALLS
- [ ] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [x] Block
- [ ] Stone
- [ ] Glass

CEILING
- [ ] Acoustic Tile
- [ ] Drywall
- [x] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [x] Security Frame
- [x] Security Glass
- [ ] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [x] Surface Mounted
- [ ] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [x] Emergency Power Supply
- [ ] Clean Power

CABLING
- [x] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [ ] Hot Water
- [ ] Cold Water
- [ ] Standard Fixtures
- [x] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [x] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [ ] Wood
- [ ] Hollow Metal
- [x] Security Hollow Metal
- [x] Vision Panel
- [x] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [x] Access Control
- [x] Remote/ Monitor Control

SECURITY
- [x] Security Intercom
- [x] CCTV Camera
- [ ] Motion Detector
- [x] Automatic Sound Monitoring
- [x] Duress Alarm System
- [x] Control Console

FURNITURE
- [x] Fixed
- [ ] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

Custodial I-1

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [ ] Ceramic Tile
- [ ] Terrazzo/Stone
- [x] Sealed Concrete

WALLS
- [ ] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [ ] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [x] Block
- [ ] Stone
- [ ] Glass

CEILING
- [ ] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [x] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [x] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

Special Considerations

LIGHTING
- [x] General Lighting
- [ ] Task Lighting
- [x] Surface Mounted
- [ ] Recessed Mounted
- [x] Fluorescent
- [ ] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [ ] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [x] Ventilation
- [ ] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [x] Hot Water
- [x] Cold Water
- [ ] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [x] Sink
- [ ] Shower
- [x] Floor Drain(s)
- [x] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [ ] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [ ] Public Address Speakers

DOORS
- [ ] Wood
- [x] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [ ] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Room Criteria

Toilets K-1

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [x] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [x] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [x] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [ ] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [x] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [ ] Fluorescent
- [x] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [ ] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [x] Hot Water
- [x] Cold Water
- [x] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [x] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [x] Public Address Speakers

DOORS
- [x] Wood
- [ ] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [ ] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [ ] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Room Criteria

Toilets K-2

Comp #	Applicable Spaces	NSF

FLOORING
- [ ] Carpet
- [ ] Carpet Tile
- [ ] Vinyl Composition Tile
- [ ] Wood
- [ ] Resinous Flooring
- [x] Ceramic Tile
- [ ] Terrazzo/Stone
- [ ] Sealed Concrete

WALLS
- [x] Drywall
- [x] Paint
- [ ] Vinyl Wallcovering
- [ ] Fabric Wallcovering
- [x] Ceramic Tile
- [ ] Wood Paneling
- [ ] Acoustic Panelling
- [ ] Block
- [ ] Stone
- [ ] Glass

CEILING
- [x] Acoustic Tile
- [x] Drywall
- [ ] Security
- [ ] Exposed

WINDOWS
- [ ] Insulating Glass
- [ ] Tempered Glass
- [ ] Security Frame
- [ ] Security Glass
- [x] None
- [ ] Daylight Control Treatment
- [ ] Block-out Shades

LIGHTING
- [x] General Lighting
- [x] Task Lighting
- [ ] Surface Mounted
- [x] Recessed Mounted
- [ ] Fluorescent
- [x] Incandescent
- [ ] Special Requirements

ELECTRICAL
- [x] Power Outlets
- [ ] Emergency Power Supply
- [ ] Clean Power

CABLING
- [ ] Computer Network
- [ ] Fiber Optic Video

MECHANICAL
- [ ] Heating Only
- [ ] Ventilation
- [x] HVAC

PLUMBING
- [x] Fire Suppression System
- [ ] Special Fire Suppression
- [x] Hot Water
- [x] Cold Water
- [x] Standard Fixtures
- [ ] Stainless Comby Fixture
- [ ] Water Fountain
- [ ] Sink
- [ ] Shower
- [x] Floor Drain(s)
- [ ] Mop Sink
- [ ] Spigot
- [ ] None

SPECIAL
- [x] Visual/Audible Life Safety Alarms
- [ ] Video Teleconferencing
- [ ] Video Information System
- [ ] Information Kiosks
- [ ] Listening Devices
- [ ] Sound Enhancement System
- [ ] Video Monitors
- [x] Public Address Speakers

DOORS
- [x] Wood
- [x] Hollow Metal
- [ ] Security Hollow Metal
- [ ] Vision Panel
- [ ] Side Lite
- [ ] Glass

DOOR OPERATION
- [x] Manual Operation
- [ ] Access Control
- [ ] Remote/ Monitor Control

SECURITY
- [ ] Security Intercom
- [ ] CCTV Camera
- [x] Motion Detector
- [ ] Automatic Sound Monitoring
- [ ] Duress Alarm System
- [ ] Control Console

FURNITURE
- [x] Fixed
- [ ] Freestanding
- [ ] Millwork
- [ ] Modular Partitions
- [ ] Fixed Shelving

Special Considerations

Section 5

POLICE ADMINISTRATION BUILDING

REAL ESTATE - SITE ANALYSIS

OPTION 1 SERIES: REMODEL AND EXPAND EXISTING PAB

Option 1 series address expansion of the current Police Administration Building on adjacent properties. Options 1A and 1C propose expansion on city-owned property immediately adjacent to the existing building. While in these two options there are no site acquisition costs , there are other costs unique to these sites.

Option 1A proposes nearly doubling the size of the current building by building on the site now occupied by police vehicle parking and a portion of a level of public parking within MacArthur Square Parking Structure. As indicated in the Section 6, Structural Engineering Analysis, that portion of the parking structure is incapable of bearing the proposed structure. That portion would then be demolished to enable the construction of a 9 to 10 story addition with 2 levels of parking beneath. Those two levels of parking would be dedicated to Police Department vehicles resulting in both a reconfiguration of public parking and a loss in the number of public parking spaces. The cost of demolition, reconfiguration and consideration for disruption, difficult construction access and staging have been included as well as an annual cost for lost revenue for displaced public parking.

It should also be noted that loss of public parking represents a loss of public and employee parking spaces to serve the PAB and related departments. Replacement of that parking has not been addressed in this report. While additional parking will be provided for the Milwaukee Police Department vehicles, this report addresses only replacement of a comparable number in a similar configuration to current parking. Parking will still be inadequate and congestion would be similar to present conditions.

Option 1C proposes construction of two levels of office space above the existing MacArthur Square Parking Structure to a line roughly aligned with the south face of the Milwaukee County Safety Building. Parking beneath the two story addition would be reconfigured and reassigned as secure Police Department parking. Costs for reconfiguration and annual loss of revenues have been included in cost estimates. While MPD secure parking would be increased, it would likely still be less than desirable and congestion would likely be less though similar to current situations (i.e.,. not every police vehicle would have an assigned space and double parking, particularly at shift changes, would likely be necessitated). An 8 to 10 story addition is proposed between the current PAB and North 7th Street and from State Street to a point just north of the current parking entrance and drive. Demolition of the Municipal Court entrance building would be required with the associated disruption to operations during construction. Construction staging and phasing of both additions and complete remodeling of the existing facility would be difficult and disruptive to operations. For instance, as in Option 1A, Police Department parking would be displaced in total during construction. Zoning variances appear to be necessary to build to property lines and though this is a City project, such variances should not be presumed.

Costs in all Option 1 Series do not include re-facing of the existing PAB.

Option 1A investigates the possible acquisition of property now owned by the University of Wisconsin - Milwaukee, Extension. That property is scheduled to be offered for sale in the fall of 1994 and therefore represents a unique and time-sensitive opportunity. It may not be available at a time appropriate to the City's decision-making process. Detailed information regarding that site is included here. Acquisition of the property and demolition of existing structures would allow the construction of a freestanding 7 to 9 story building with adequate secure parking to supplement existing MPD parking to meet projected needs. Cost estimates include bridge connections at 3 to 4 levels only, resulting in some potential segregation of functions. Construction staging and phasing problems and

associated costs are minimized.

The following is pertinent information regarding this site:

1. **University of Wisconsin Civic Center property on 6th and State:** This site is directly east of the present PAB. The site might be somewhat small to support a new building, but it can certainly accommodate an addition, being bridged by a skywalk. Mr Shel Lozoff spoke with Donald Gerhard, Systems Administrator of the University of Wisconsin. Gerhard will have the responsibility to sell the property. It is scheduled to be vacated in September of 1994. He will place it on the market for sale in September of 1994. He has not priced it as yet and was unwilling to get into much detail. He did acknowledge that government agencies will have the first consideration to purchase it. (He has been recently contracted by some private developers, making preliminary inquiries). As to the condition of the buildings, he stated that they should probably be torn down.

OPTION 2 SERIES: LEASE SPACE OPTIONS

In the Series 2 Options where lease space is a component of the space assignments, the report team performed the task of searching for and evaluating possible lease space. The following is a list of currently available lease options and associated information. These lease options satisfied space requirements and are in reasonable proximity of the PAB. Due to the constant change in lease space availability, this list may change at some time in the future and therefore is not intended to be a constant.

I. Federal Plaza - 310 W. Wisconsin Avenue

Federal Plaza is a Class-A building located at 3rd and Wisconsin Avenue. The building consists of two sections. The west tower is completely occupied by agencies of the federal government. The east tower, which has floor plates of approximately 15,400 rentable square feet each, is for lease to non-governmental tenants. The leasing history of the east tower has not been successful and the building slipped into foreclosure. It is presently owned by Chemical Bank of New York and is being managed by Gleischman/Sumner under a trusteeship arrangement. The reason for the lack of success in the leasing program may well have to do with the location. Those tenants who prefer Class-A buildings generally wish to be east of the river, in the financial district. This has caused a softening of the rates in Federal Plaza and, although they have a number of good tenants in the building, they do presently have substantial vacancy.

Gail Tefts, the leasing manager, informed me that they can make available four contiguous floors - floors 2, 3, 4 & 5 containing 15,400 square feet each, for a total of 61,600 square feet. It may be possible to obtain two additional floors which would not be contiguous, for an additional 30,800 square feet.

In reviewuing floor plans, we note that the east section of the building has a sawtooth design but it lays out fairly well. Eppstein Keller Uhen Architects has done a number of layouts in the building and is conversant with it.

The quoted gross rate is $18.00 per rentable square foot. Tefts did state, however, that for a large tenant there would obviously be some downward movement in that rate. The rate assumes a tenant improvement allowance of $25.00 per square foot, which is a fairly generous allowance.

The east tower contains four passenger elevators. In order to access the freight elevator, however, you must cross the bridge to the west tower. This is somewhat awkward as there is not a bridge at every floor. This should be evaluated in detail.

There is an attached parking structure containing 630 stalls. It is allocated at one stall per 1,000 square feet. The building contains 527,000 square feet so there is some excess parking for visitors. It is unlikely that there is sufficient parking available. There is, of course, additional monthly parking available within a few blocks of this building. Whether or not it is possible to segregate a portion of the structure for security reasons needs detailed study.

II. The Tannery

The Tannery is a mixed-use rehabilitation project being developed by the Moede family at 6th and Virginia Streets, just across the 6th Street viaduct in the Walker's Point area. The complex, formerly known as P & V Atlas, will contain several hundred thousand square feet of office and technical space, several hundred apartment/ townhouses and some retail and restaurant space. The Lozoff Company and EKU Architects recently placed Allied Computer Group in The Tannery, the first Class-A tenant to take occupancy. We are, therefore, quite conversant with the complex and we feel that this location should be strongly considered by the Police Department. There are several reasons for this. First, large amounts of space are available, enough to satisfy the Police Department's requirements. Second, the rental rate is quite reasonable. Third, parking will be available in a suburban office ratio.

This location may be considered too distant for the Police Department. However, the location is a straight run across the 6th Street viaduct; considering that parking will be on-site, it is estimated that the "door to door" commuting time from 6th and Virginia to 7th & State will probably be no different (or possibly shorter) than the commuting time from a Wisconsin Avenue building to 7th & State.

We are in receipt of a preliminary proposal from The Tannery. There are three buildings that can be considered. In The Timbers building there are 20,000 usable square feet per floor and six floors are available, for a total of 120,000 square feet. There is one other tenant in the building - Allied Computer Group, located on the first floor. However, if the balance is totally occupied by the Police Department, access can be totally secured as Allied's entrance is separate. The disadvantage of The Timbers building is the shape - it is long and narrow and may pose some restrictions for Police Department functions. The second building available for rehab is the "Bottling House" with 65,000 square feet available in three floors. This is a large floor plate and might work nicely for the Milwaukee Police Department. 52,000 square feet in six floors is also available in a building known as The Grainery.

The quoted rental rate is between $8.00 and $12.00 per square foot gross, depending on lease term and tenant improvement package. This includes surface parking and normal building services except electricity, which is metered. Note there is an annual Consumer Price Index (CPI) adjustment. There has been some talk of constructing a low-rise parking structure at The Tannery and this is something that may be of interest to the Police Department. Structured parking would require an additional charge, but it could provide the security required for the Police vehicles.

III. Norwest Bank Building - 8th and Wisconsin

The Norwest Bank Building could have 50,000 square feet available if the Bank relocates all occupied space except the retail Bank. The bank is willing to consider such a relocation if it can lease the space for a term of ten years. Steve Wagner of The Polacheck Company is handling this building on behalf of Norwest. He stated that the asking price for the space is between $11.00 and $12.00 per square foot gross on an as-is basis. The rate would be adjusted upward for tenant improvements. It is Mr. Lozoff's opinion, this is a strong rate for this building on an as-is basis. Serious negotiation could possibly result in a reasonable tenant improvement allowance on behalf of the landlord with little rate adjustment. The building has limited surface parking available; it is doubtful that Police Department's parking requirements could be satisfied on premises.

IV. Various Towne Realty Buildings

Towne has three buildings on West Wisconsin Avenue. The 633 Building (formerly known as the Clark building) contains 10,270 square feet per floor, with a total currently available of 13,685 square feet. However, a tenant may vacate its operations center to free up another 11,500 square feet; as much as 25,000 square feet can be available in this building. Please also note that Milwaukee Insurance Company occupies 2 1/2 floors in this building under a lease expiring in 1995. Negotiations have commenced for a renewal but Towne is not absolutely certain that the space will be renewed. The rate is $10.50 gross, plus power, including a reasonable build-out. The minimum lease term would be ten years.

The Wisconsin Tower Building at 6th and Wisconsin has 21,000 square feet available. One floor contains 8,500 square feet and the balance are 3,150 per floor. Such small floors would probably not work well for MPD's requirements. The rental rate is the same as quoted for the 633 Building.

The Majestic Building located at 231 W. Wisconsin Avenue has contiguous space of 41,518 square feet available, Floor sizes are 8,580 square feet in an H shape. The rental rate and build-out would be as quoted above for the 633 Building.

The 633 Building has an attached parking structure (located above the Greyhound Station) so parking arrangements could be made at that building. Neither Wisconsin Tower nor Majestic have contiguous parking.

V. The John Plankinton Building

The John Plankinton Building is located at 161 W. Wisconsin Avenue, above the Grand Avenue. It is owned by Northwestern Mutual Life Insurance Company and managed by Faison Associates. A preliminary proposal shows that floors 3 and 4 could be made available in their entirety. Each floor contains 49,970 square feet. The floors surround a large atrium. The north section of the floors may work fairly well but the south, east and west sections are quite narrow and we doubt that the space will work well for MPD's requirements.

This building will be the new location for the University of Wisconsin Extension, which will be vacating the property directly east of the PAB. UW will occupy two floors commencing in September of 1995.

The quoted rate is $10.50 net and the current operating costs and taxes are $4.25 per square foot, plus electricity. (The $4.25 per square foot estimate for operating expenses and real estate taxes is, in our opinion, an understatement of the eventual operating costs. We believe it is low by about $1.50 per square foot). In our opinion, this is a fairly high rate for this building. The tenant improvement allowance is quite generous, however. It includes a "white-box" plus $25.00.

Parking in this structure would be problematic as the Grand Avenue parking structures have very limited monthly parking and the creation of segregated, secure parking appears difficult. Parking is primarily allocated to retail customers visiting the Grand Avenue.

VI. 735 N. Water Street

This building is known as the First National Bank Building and is a Class-B property that formerly was the headquarters of First Wisconsin National Bank. The building has substantial vacancy. Per the enclosed letter, up to 111,000 rentable square feet can be available, most of it contiguous. The rate is favorable - $11.25 per square foot gross, with minimal tenant improvements. Per their letter, they are talking primarily open landscaping. We are assuming that there will be an upward adjustment in the rate after the full tenant improvement requirements are known.

Limited parking is available in a structure across the street but not enough to satisfy the Police Department's requirements.

VII. Schlitz Park

The Schlitz Park Complex just north of the Central Business District may make an excellent location for Police Department functions. However, the buildings that are presently rehabilitated do not have sufficient space to satisfy MPD's requirements. There are, however, several buildings remaining that could be remodeled, provided that a substantial portion of the remodeled building would be leased and the lease would be for a term of not less than ten years. Based on The Lozoff Company's past experience of the leasing program at Schlitz, we estimate that the rate would be in the high teen's ($18.00 to $19.00 gross or thereabouts) with a reasonable tenant improvement allowance. Schlitz Park has limited surface parking available and we do not believe that the buildings remaining to be rehabilitated could be done without construction of a parking structure, which would entail monthly fees. However, the Schlitz Property Manager, believes that a vacated 2nd Street could produce some additional parking

VIII. 1000 North Water Street

In several discussions 1000 North Water Street has been mentioned. We recognize, of course, that the City of Milwaukee owns the 1600 car parking structure below the office tower. However, we do not believe that the office tower would be a viable location for Police Department functions, for two reasons. First of all, there is only limited space available. At the current time there are 3 1/2 floors available. Much of this is encumbered by options, however, and one of those floors will soon be committed for M & I Trust Company expansion; it is our understanding that M & I may also receive option rights on an additional floor. Assuming that the M & I deal is consummated, only 22,000 square feet of unencumbered space would remain, not enough to satisfy our client's requirements. If the M & I deal is not consummated, 44,000 square feet of unencumbered space would be available.

Our second reason for suggesting that this location not be strongly considered is the rental rate. 1000 North Water Street gets a Class-A rate, one of the highest in the city. It would cost about $22.00 per square foot to occupy this space on a gross basis, with a tenant improvement allowance of $30.00.

The Police Department's requirements can certainly be met in buildings with lower rental rates. We do not recommend that this space be strongly considered. The cost of the rental space would, in our opinion, override the advantages of parking in a city owned structure.

IX. City Library

The fourth floor of the library is presently occupied for storage purposes by library and DCD. The floor contains about 11,500 square feet and is accessed by one small passenger elevator and one freight elevator, neither of which can be dedicated exclusively for Police Department use. A distinct public entrance would have to be constructed on 9th Street to access the elevators.

The space is in rough condition and would require complete renovation, including construction of a second exit stairway. Because the amount of space is so limited (only 11,500 square feet) and considering the condition of the building, we doubt that it would be economically feasible to consider this location for other than storage space.

OPTION 3 SERIES/ RELOCATE TO A NEW SITE.

As described in the RFP, Option 3 Series address the abandonment of the existing PAB building and reconstruction of a new facility (if for no other reason than to develop a perspective for cost analysis of other schemes). As described in the Executive Summary, Approach and Process, potential sites were identified without the benefit of an RFP, public advertisement or public bidding process. The sites identified by The Lozoff Company represent some opportunities that exist at the time of this report. Similar to the Lease Options, the real estate market is fluid and ever-changing, additional opportunities could emerge or some identified opportunities disappear. These sites were identified with the assistance of the City of Milwaukee, Department of City Development with some knowledge of other current development proposals and with consideration of sites already owned by the City or contiguous to City -owned parcels.

Potential site selection options were made based generally on the following criteria:

- Proximity to existing PAB (particularly for freestanding components as part of Option 2 Series), related facilities and /or Milwaukee County Criminal Justice Facility and County Courts.
- Cost, potential availability and apparent ability to assemble coherent properties appropriate to the site needs of various options.
- Minimize effect on City tax rolls.
- Adequate access, alternative transportation and parking.

A series of sites were identified and analyzed. Evaluation of satisfying parking needs with structured parking versus surface parking and the required additional site area and costs were made. Based on these sorts of data a demonstration site was identified on blocks bounded by Highland Avenue on the south, North 12th Street on the east, West McKinley Avenue and Martin Luther King Park on portions on the north and west and extending to North Callahan Street on the west. Not all of the property within these boundaries appears to be necessary to accommodate even an all new facility. Many of the parcels are currently owned by the City and many sites are vacant. The assessed values are reasonably low though relocation costs are significant. The area is centrally located with potential for surface parking and public transportation access. Impact on neighboring properties would be positive.

Information and costs regarding this site were extrapolated and adjusted to be representative of and allow consideration of similar parcels. **This report does not Intend to propose serious consideration of this particular site (or any other) at this time.** Rather it is referred to for illustrative purposes only.

Sites identified for consideration to accommodate all or appropriate portions of the programmed space include:

1. **Highland Avenue Site** as described above

2. **University of Wisconsin Civic Center** at 6th and State Street

3. **Ambrosia Site** at 6th and Highland

4. **North 4th Street and Wisconsin Avenue** between Boston Store and the Marc Plaza Hotel

5. **Wisconsin Electric Power Site and Adjoining properties** at Martin Luther King Drive and Cherry Street

6. **Block bound by Jackson, Jefferson, Corcoran and Menomonee Streets** in the Historic Third Ward.

7. **Block bound by Wisconsin Avenue, Wells North 7th and 8th Streets,** just east of Library and including Milwaukee Fire Department Headquarters.

8. Various other sites were identified but not pursued.

9. Investigation of sites led to the identification of a potentially unique opportunity for acquisition, remodeling and reuse of the **Samaritan/ Sinai Hospital West Campus.** While the RFP did not specifically request investigation of reuse of existing facilities, the Ad Hoc Committee deemed it as a plausible opportunity and representative of an alternative approach and an array of other possible adaptive reuse potentials that could potentially offer unique benefits, serve as an additional basis of cost comparison and possibly offer a mutually beneficial effect to the community as well.

POLICE ADMINISTRATION BUILDING

STRUCTURAL ENGINEERING ANALYSIS

I. GENERAL

A. EXISTING CONSTRUCTION:

1. Police Administration Building

The structural integrity of the Police Administration Building is in excellent condition. In evaluating the existing condition of the building we reviewed the plans and then made physical observation of the building condition. This building consists of steel-frame construction, with precast exterior wall panels, a concrete floor system, and a reinforced concrete foundation system on piles. The interior CMU walls are non-load bearing. In the existing structure there are no code provisions that are not compliant. The method in which we evaluated the building was as follows:

a. Foundation

First we reviewed the foundation. From a visual observation there appears to be no severe bowing, cracking, or honey combing in the foundation wall. We can not comment on the foundation piles or pile caps. Using engineering judgement we can say that because there was no column displacement or severe bowing in the beams the settlement of this facility was minor. In short the foundation appears to be in excellent condition.

b. Superstructure

We reviewed the superstructure. The exterior wall system, a precast concrete panel, appears to be in good condition. The composite floor system appears to be in good condition.

c. Roof System

We reviewed the roof system and found it to be in good condition.

B. ADDITION ANALYSIS AND RECOMMENDATION:

1. MacArthur Square Garage

In the scenario in which an addition will be built over the MacArthur Square Parking Garage we recommend only constructing a two-story building. This scenario will be very complex and expensive. In constructing a two-story building south of the existing Police Administration Building, over the top of the MacArthur Square Parking Garage, certain structural criteria should be studied in order to accomplish this task. Certain criteria was established to evaluate whether or not an optimum solution could be achieved. For this type of structure, typical criteria for deciding what type of structural system to use are as follows: (a) minimum cost; (b) minimum weight; (c) minimum labor; (d) minimum construction time; (e) minimum cost of manufacture of owner's products; (f) maximum efficiency of operation to owner. The method in which this should be done are as follows:

a. Foundation

Remove the 4 feet of earth on the top of the roof level of the parking garage. This will allow a considerable amount of earth load to be removed from the structure. The existing foundation for MacArthur Square Parking Garage consists of 30 ton caissons. These caissons restrict the number of levels that can be constructed over the parking garage. From our investigation, a two-story addition is the maximum number of levels that can be constructed. The perimeter walls, if not directly over MacArthur Square Parking Garage caissons, should be constructed on grade beams.

b. Superstructure

Our experience in the Milwaukee area, indicates that this type of building should consist of steel-frame construction, with precast concrete panels or concrete block exterior walls, and a composite floor system. These materials will accommodate the required fire rating and efficiently respond to the ease of construction. The existing building's exterior wall system is Precast Concrete Wall Panels. Therefore, the addition would more than likely be Precast Concrete Wall Panels.

c. Roof System

The roof system for the addition should consist of metal decking on steel bar joists. The alternate system reviewed consists of a cast-in-place, mildly reinforced pan joist system.

d. Lateral Load Resistance

Lateral load resistance will be provided by the use of cast-in-place or concrete masonry shear wall.

e. Construction Interface

Positive connection between foundation walls will be provided by using drilled dowels and shear keys. The present intention, above grade, is to provide an expansion joint between new and existing construction. A portion of the existing precast concrete panel is to be saw cut to accommodate the smooth connection of the addition.

There are several advantages of using steel-frame for this particular site. In respect to the criteria that we arrived at in selecting the minimum cost, we found steel to be the best solution for material. However, the criterion of minimum weight is emphasized throughout, under the general assumption that minimum material represents minimum cost. The most important criteria is to use the minimum amount of weight as possible over MacArther Square Parking Garage so therefore, steel is more advantageous to use. The construction time will also be shortened by using steel.

II. OPTION 1A - SUMMARY

This option consists of the construction of two (2) stories of parking and six (6) stories of police administration area making a total of eight (8) stories of addition to the south of the existing police administration area. It also includes a total rehab of the existing Police Administration Building.

A. EXISTING CONSTRUCTION:

1. **Police Administration Building**

The structural integrity of the Police Administration Building is in excellent condition. In evaluating the existing condition of the building we reviewed the plans and then made physical observation of the building condition. This building consists of steel-frame construction, with precast exterior wall panels, a concrete floor system, and a reinforced concrete foundation system on piles. The interior CMU walls are non-load bearing. In the existing structure there are no code provisions that are not compliant. The method in which we evaluated the building was as follows:

a. **Foundation**

First we reviewed the foundation. From a visual observation there appears to be no severe bowing, cracking, or honey combing in the foundation wall. We can not comment on the foundation piles or pile caps. Using engineering judgement we can say that because there was no column displacement or severe bowing in the beams the settlement of this facility was minor. In short the foundation appears to be in excellent condition.

b. **Superstructure**

We reviewed the superstructure. The exterior wall system, a precast concrete panel, appears to be in good condition. The composite floor system appears to be in good condition.

c. **Roof System**

We reviewed the roof system and found it to be in good condition.

B. **ADDITION ANALYSIS AND RECOMMENDATION:**

1. **MacArthur Square Garage**

In the scenario in which an six (6) story addition will be built over the MacArthur Square Parking Garage we recommend to demolish the existing parking structure in this area. The existing garage foundations are not adequate to support an additional superstructure of this magnitude. For this type of structure, typical criteria for deciding what type of structural system to use are as follows: (a) minimum cost; (b) minimum weight; (c) minimum labor; (d) minimum construction time; (e) minimum cost of manufacture of owner's products; (f) maximum efficiency of operation to owner. The method in which this should be done are as follows:

a. **Foundation**

Our experience in the Downtown Milwaukee Area considering the anticipated design loads, and the depth over the majority of the site to materials exhibiting suitable strengths for support of the anticipated structural loads, it is our recommendation that the structure be supported on deep foundations. Driven displacement piles would likely provide the most cost-effective deep-foundation alternative.

b. **Superstructure**

The type of building should consist of steel-frame construction, with precast concrete panels and a composite floor system. These materials will accommodate the required fire rating and efficiently respond to the ease of construction. The existing building's exterior wall system is Precast Concrete Wall Panels. Therefore, the addition would more than likely be Precast

Concrete Wall Panels. However, the parking structure part of the building should be reinforced concrete (floors, columns, beams, etc.)

c. Roof System
The roof system for the addition should consist of metal decking on steel bar joists. The alternate system reviewed consists of a cast-in-place, mildly reinforced pan joist system.

d. Lateral Load Resistance
Lateral load resistance will be provided by the use of a diaphragm floor with a steel frame being braced.

e. Construction Interface
Positive connection between foundation walls will be provided by using drilled dowels and shear keys. The present intention, above grade, is to provide an expansion joint between new and existing construction. A portion of the existing precast concrete panel is to be saw cut to accommodate the smooth connection of the addition.

There are several advantages of using steel-frame for this particular site. In respect to the criteria that we arrived at in selecting the minimum cost, we found steel to be the best solution for material. However, the criterion of minimum weight is emphasized throughout, under the general assumption that minimum material represents minimum cost. The construction time will also be shortened by using steel.

III. OPTION 1B - SUMMARY

This option consists of the construction of one (1) level of parking and six (6) stories of police administration area (making a total of seven (7) stories) of addition to property owned by the University of Wisconsin to the east. This would be connected by a long skywalk corridor over Seventh Street.

A. EXISTING CONSTRUCTION:

1. Police Administration Building

See the Option 1A for narrative on the existing Police Administration Building.

B. NEW BUILDING WITH SKYWAY ANALYSIS AND RECOMMENDATION:

1. University of Wisconsin Site
In the scenario in which a seven (7) story addition will be built on the University of Wisconsin Site. We recommend to demolish the existing two structures in this area. For this type of structure, typical criteria for deciding what type of structural system to use are as follows: (a) minimum cost; (b) minimum weight; (c) minimum labor; (d) minimum construction time; (e) minimum cost of manufacture of owner's products; (f) maximum efficiency of operation to owner. The method in which this should be done are as follows:

a. Foundation

In order to construct a new building on this site the existing buildings' substructure and superstructure will have to be demolished. There is an additional cost associated with demolishing this particular building because there is a possibility that there are deep foundations.

Our experience in the Milwaukee Downtown Area considering the anticipated design loads, and the depth over the majority of the site to materials exhibiting suitable strengths for support of the anticipated structural loads, it is our recommendation that the structure be supported on deep foundations. Driven displacement piles would likely provide the most cost-effective deep-foundation alternative.

b. Superstructure

The type of building should consist of steel-frame construction, with precast concrete panels and a composite floor system. These materials will accommodate the required fire rating and efficiently respond to the ease of construction. The existing building's exterior wall system is Precast Concrete Wall Panels. Therefore, the addition would more than likely be Precast Concrete Wall Panels. However, the parking structure level of the building should be reinforced concrete (floors, columns, beams, etc.)

The skyway should be a clear span steel frame structure with a composite floor system, and the wall system should be a structural metal framing backup system with an architectural exterior skin.

c. Roof System

The roof system for the new building and the skyway should consist of a metal decking on steel bar joists. The alternate system reviewed consists of a cast-in-place, mildly reinforced pan joist system.

d. Lateral Load Resistance

Lateral load resistance on the new building should be provided by the use of a diaphragm floor with the steel framing being braced.

Lateral load resistance on the skywalk should be provided by the use of a diaphragm floor with the steel framing being braced.

There are several advantage of using steel-frame for this particle site. In respect to the criteria that we arrived at In selecting the minimum cost, we found steel to be the best solution for material. However, the criterion of minimum weight is emphasized throughout, under the general assumption that minimum material represents minimum cost. The construction time will also be shortened by using steel.

IV. OPTION 1C - SUMMARY

This option consists of the construction of a nine (9) story addition to the east and a two (2) story addition to the south of the existing police administration area.

A. EXISTING CONSTRUCTION:

1. Police Administration Building

See the Option 1A for narrative on the existing Police Administration Building.

B. ADDITION ANALYSIS AND RECOMMENDATION:

1. MacArthur Square Garage

In the scenario in which an addition will be built to the east of the existing building we have no concerns with the scope of portion of the project. However, in the scenario in which an addition will be built over the MacArthur Square Parking Garage we recommend limiting constructing to a two-story building. This scenario will be very complex and expensive. In constructing a two-story building south of the existing Police Administration Building, over the top of the MacArthur Square Parking Garage, certain structural criteria should be studied further in order to accomplish this task. Certain criteria was established primarily to evaluate whether or not an optimum solution could be achieved. For this type of structure, typical criteria for deciding what type of structural system to use are as follows: (a) minimum cost; (b) minimum weight; (c) minimum labor; (d) minimum construction time; (e) minimum cost of manufacture of owner's products; (f) maximum efficiency of operation to owner. The method in which this should be done are as follows:

a. Foundation

We recommendation that the nine (9) story addition be supported on deep foundations. Driven displacement piles would likely provide the most cost-effective deep-foundation alternative.

In order to construct over the existing parking structure the four (4) feet of earth that is on the top of the roof level will have to be removed. This will allow a considerable amount of earth load to be removed from the structure. The existing foundation for MacArthur Square Parking Garage consist of 30 ton caissons. These caissons restrict the number of levels that can be constructed over the parking garage. From our investigation, a two-story addition is the maximum number of levels that can be constructed over top the MacArthur Square Parking Garage Caissons. The perimeter walls, if not directly over MacArthur Square Parking Garage caissons, should be constructed on a deep foundation system.

b. Superstructure

Our experience in the Milwaukee area, indicates that this type of building should consist of steel-frame construction with an architectural exterior panel to match the exterior. We recommend using a composite floor system. These materials will accommodate the required fire rating and efficiently respond to the ease of construction. The existing building's exterior wall system is Precast Concrete Wall Panels. Therefore, the addition would more than likely be Precast Concrete Wall Panels.

c. **Roof System**
The roof system for the addition should consist of metal decking on steel bar joists. The alternate system reviewed consists of a cast-in-place, mildly reinforced pan joist system.

d. **Lateral Load Resistance**
Lateral load resistance on the new building should be provided by the use of a diaphragm floor with a steel frame being braced.

e. **Construction Interface**
Positive connection between foundation walls will be provided by using drilled dowels and shear keys. The present intention, above grade, is to provide an expansion joint between new and existing construction. A portion of the existing precast concrete panel is to be saw cut to accommodate the smooth connection of the addition.

V. OPTION 2A - SUMMARY

This option consists of the construction of a four (2) story addition to the south and a three and one-half (3 1/2) story addition to the east of the existing Police Administration building; a new free-standing one (1) story building for the First District, Uniform Patrol and Metropolitan Division; a lease space for the Fire and Police Commission, Police Administration, and Fire Department.

A. EXISTING CONSTRUCTION:

1. Police Administration Building

See the Option 1C for narrative on the existing Police Administration Building.

B. ADDITION ANALYSIS AND RECOMMENDATION:

1. New Construction

a. **Foundation**
The one story new building foundation will consist of cast-in-place concrete spread footings and footing pads for the columns.

See the Option 1B for information.

b. **Superstructure**
The one story new building floor slabs will be poured separately from the foundation walls and will act as a structural support for design of the walls. The type of building should consist of steel-frame construction with the exterior wall being concrete masonry unit.

See the Option 1B for information.

c. Roof System
The roof system for the new building should be a metal decking on steel bar joists. The alternate system reviewed consists of a cast-in-place, mildly reinforced pan joist system.

d. Lateral Load Resistance
Lateral load resistance on the new building should be provided by the use of concrete masonry unit as the exterior shell.

See the Option 1B for information.

VI. OPTION 2B - SUMMARY

This option consists of the construction of a two (2) story addition over the existing MacArthur Parking Garage to house the First District, Uniform Patrol and Metropolitan Division; a new free-standing five (5) story building for selected centralized departments (which would have two (2) levels of parking).

A. EXISTING CONSTRUCTION:

1. Police Administration Building

See the Option 1A for narrative on the existing Police Administration Building.

B. ADDITION ANALYSIS AND RECOMMENDATION:

1. New Construction

a. Foundation
See the Option 1C for information on the one (1) story addition and see Option 1B for the (5) story information.

b. Superstructure
See the Option 1C for information on the one (1) story addition and see Option 1B for the (5) story information.

c. Roof System
See the Option 1C for information on the one (1) story addition and see Option 1B for the (5) story information.

d. Lateral Load Resistance
See the Option 1C for information on the one (1) story addition and see Option 1B for the (5) story information.

VII. OPTION 2C - SUMMARY

This option consists of the construction of a new six (6) story building and renovating the existing structure.

A. EXISTING CONSTRUCTION:

1. Police Administration Building

See the Option 1A for narrative on the existing Police Administration Building.

B. ADDITION ANALYSIS AND RECOMMENDATION:

1. New Construction

a. Foundation
See the Option 1B for information on the new six (6) story building.

b. Superstructure
See the Option 1B for information on the new six (6) story building.

c. Roof System
See the Option 1B for information on the new six (6) story building.

d. Lateral Load Resistance
See the Option 1B for information on the new six (6) story building.

VIII. OPTION 2D - SUMMARY

This option consists of the construction of a new one (1) story building and renovating the existing structure.

A. EXISTING CONSTRUCTION:

1. Police Administration Building

See the Option 1A for narrative on the existing Police Administration Building.

B. ADDITION ANALYSIS AND RECOMMENDATION:

2. New Construction

a. Foundation
See the Option 2A for information on the new one (1) story building.

b. Superstructure
See the Option 2A for information on the new one (1) story building.

c. Roof System
See the Option 2A for information on the new one (1) story building.

d. Lateral Load Resistance
See the Option 2A for information on the new one (1) story building.

IX. OPTION 2E, 2F, 2G, 2H, 3A & 3B- SUMMARY

These options are similar to option 1A, 1B, 1C, 2A through 2D.

POLICE ADMINISTRATION BUILDING

SITE/CIVIL ANALYSIS

I. Analyze Site(s) Features

The existing site at the Police Administration Building will not change dramatically if the existing building is remodeled only. However, following are some topics that must be addressed if an addition to the existing building or relocation is preferred.

A. Conformance with urban pattern

1. Conformance with accepted urban development plans, tentative plans, or probable trends in land use
2. Present zoning: possible changes
3. Approval of city planning bodies
4. Possibility of closing existing streets and dedicating new streets
5. Effect of building codes and possibility of modification

B. Slum clearance considerations

1. Number, character, and condition of existing buildings on site
2. Number of families housed at present
3. Relocation of present residents
4. Equivalent elimination

C. Characteristics of site and environment

1. Area of site compared with area needed for buildings and project facilities
2. Shape of site, parcels necessarily excluded, deed restrictions, and easements

3. Topography as it affects livability of the site plan; favorable features such as existing shade trees, pleasing outlook, and desirable slopes

4. Quality of neighborhood: extent of nonresidential land use, suitability of neighborhood for dwelling type desired.

5. Effect of project on neighborhood

6. Hazards: possibility of flooding, slides, or subsidence; proximity to railroads, high-speed trafficways, high embankments, unprotected bodies of water; presence of insect or rodent breeding places; high groundwater level that might cause dampness in building

7. Nuisances: nearness to industrial plants, railroads, switchyards, heavy-traffic streets, airports, and so on, causing noise, smoke, dust, odor, or vibrations

D. Availability of special municipal services

1. Garbage and rubbish collection

2. Fire protection as affected by site location and street access

3. Streets: lighting, cleaning, maintenance, snow removal, tree planting and maintenance, and so on

E. Civic and community facilities

1. Public transportation facilities: means, routes, adequacy and expense of transportation to employment, schools, central business district, and so on

2. Accessibility to paved thoroughfares:

3. Amount and character of employment within walking distance and within reasonable travel radius

F. Elements of project development cost

1. Land costs, including site acquisition, expense, and unpaid special assessments

2. Effect of soil conditions, topographic features, project density appropriate to the neighborhood, availability of utilities, extent of existing street improvements, recreational facilities and additions to be provided by municipality or utility companies, and so on

3. Building types, utility selection, site conditions, and requirements for nondwelling structures

G. Project maintenance and operating costs

1. Differences in costs of utilities appropriate to the respective sites

2. Differentials in grounds maintenance costs due to topography

3. Differences in payments in lieu of taxes

II. Site Utility Strategy.

A. Depending on the scheme used, the utility connections will vary. It is anticipated that new storm/sanitary sewer systems will be connected to the existing sewer system. However, at this time we cannot determine any cost estimates until a definite plan is reached.

POLICE ADMINISTRATION BUILDING

APPLICATION OF THE EXISTING BUILDING CODE STANDARDS ANALYSIS

There are two functional uses of the existing Police Administration Building that we considered while doing this code compliance evaluation. The two uses or occupancy classifications are Office and Detention. The purpose of this code compliance evaluation is to update the City of Milwaukee Police Administration Building with the minimum standards established in the current Wisconsin Administration Code and identify existing conditions which do not comply. The evaluation of minimum standards for HVAC, Plumbing, Electrical, and Structural systems will be discussed in their respective system analysis included elsewhere in this report.

I. **Office Area (1st, 2nd, 3rd, 4th, 7th, & 8th Floor)** The purpose of this section is to reveal the code compliance problems that the existing facility ha. In general the building is within most of today minimum standards. However, the existing building does not comply with the following code provisions:

A. **Code Section**

1. **ILHR 54.01 Construction, height, and allowable area:** This building exceeds the height and area limitation specified in this section of the code, so therefore this building needs to be protected by a complete automatic fire sprinkler protection system.

2. **ILHR 54.05 Capacity of building:** This building occupancy exceeds the actual number of persons able to accommodate the facility. The Building Maintenance Manager said that the building occupancies increased at least 50% since the time in which the building first was occupied.

3. **ILHR 54.12 Sanitary facilities:** The number of sanitary fixtures in this building does not meet the requirements for the number of employees and occupants.

4. **ILHR 54.15 Fire protection systems:** This building fails to meet the code provision of having a fire sprinkler protection system.

5. **ILHR 54.17 Fire alarms:** This building fails to meet the code provision of having a manual fire alarm system.

II. **Detention and/or Holding Area (5th & 6th Floors)** The purpose of this section was to reveal the code compliance problems with the existing facility. In order to do this we analyzed these two floors as being the "Detention facility". The Wisconsin Administrative Code Section ILHR 58.40 defines "Detention and correctional facilities means any building or part of a building used for purposes such as jails, detention centers, correctional institutions, reformatories, houses of correction, pre-release centers, and other residential care facilities where occupants are forcibly confined". However, the existing building does not comply with the following code provisions:

A. **Code Section**

1. **ILHR 58.48 Required means of egress:** The exit for the detention and/or holding floors does not discharge (1) directly at the exterior of the building or (2) at a horizontal exit.

2. **ILHR 58.49 Exit doors, number and type of exits:** On the 5th & 6th floors there is at least one stairway exit from the detention or holding area. However, the stairway exit terminates at the 4th floor and this is why these exits do not comply with this section of the code.

3. **ILHR 58.50 Stairways:** The stairway exit from the detention area (5th & 6th floor) are not within the code provision. The reason why the stairway fails is because the stairs do not lead to the outside or in to a horizontal exist the detention area fails this provision.

4. **ILHR 58.55 Arrangement of means of egress:** In large holding room (i.e. bull pen) there is only one exit, and there needs to be a least two exits.

5. **ILHR 58.56 Measurement of travel distance to exits:** For all the exits in the detention area, the means of egress are not within specified distance.

POLICE ADMINISTRATION BUILDING

ADA SURVEY

Americans with Disabilities Act
Title II Overview

The body of legislation known as the Americans with Disabilities Act (ADA) was signed into law on July 26, 1990. This law provides comprehensive civil rights protection to individuals with disabilities in the areas of employment, public accommodations, state and local government services and telecommunications. The initial legislation contains five (5) major categories or Titles which include:

- **Title I** prohibits employers with 15 or more employees from discriminating against qualified job applicants and workers who are disabled. The law covers all aspects of employment.

- **Title II** prohibits state and local governments from discriminating against disabled individuals in their programs and activities, whether or not they are federally funded. Title 11 also requires public transportation vehicles and facilities to be accessible to disabled riders.

- **Title III** prohibits privately operated places of public accommodation from denying goods, programs and services to individuals based on their disabilities. Covered businesses must accommodate disabled patrons by changing policies and practices, providing auxiliary aids and improving physical accessibility, unless that would impose an undue burden. New and renovated commercial facilities must be accessible. Existing facilities must remove architectural and communication barriers where such removal is "readily achievable."

- **Title IV** requires telephone companies to provide continuous voice transmission relay services that allow hearing and speech impaired individuals to communicate over the phone through telecommunication devices for the deaf.

- **Title V** covers miscellaneous provisions related to the development of architectural/design guidelines. Fee's to be awarded to prevailing parties in suits filed under the ADA and technical assistance to be provided by the federal government.

The City of Milwaukee Police Administration, being a State funded entity, falls under the jurisdiction of the Title II regulations of the ADA.

In making the facility accessible to both employees and the public, specific attention should be given to the conditions and the priorities established in the ADA. There are specific requirements relative to compliance in New Construction, Alterations, and Existing Facilities as well as priorities outlining what areas of existing facilities need to be addressed as the most immediate needs in the removal of existing barriers to accessibility.

The three (3) categories of facilities are defined as follows:

- **New Construction** will be placed under the most stringent requirements concerning compliance. All new construction to be first occupied after January 26, 1993 must be in full compliance with all facets of the regulation with the only exception being structural impracticability.

- **Alterations** made to existing facilities must be made so that, to the maximum extent feasible, the altered portions of the facility are readily accessible to and usable by individuals with disabilities. This covers any alterations undertaken after January 26, 1992 and also includes the requirement that facilities, that are part of a remodel/alteration, must provide an accessible path of travel to the altered area.

- **Existing Facilities** will be required to remove existing barriers based upon the following priorities:

  Provide access to the facility from public sidewalks, public transportation and parking;

  Provide access to those areas where programs and activities are made available;

  Provide access to toilet facilities; and

  Provide other measures necessary to provide access to programs and activities.

All of this must be accomplished with the intent of affording the disabled individual the most integrated setting appropriate to the needs of the individual. This will allow the City of Milwaukee Police Administration to develop and implement a program for compliance that is both logical and applicable to the needs of the public and staff in the system.

The Survey

In an effort to determine the level of compliance of the Police Administration Building, with respect to the Americans with Disabilities Act (ADA); Eppstein Keller Uhen, Inc. suggested this survey to meet that objective.

The specific objectives of the Survey are:

1. To provide the City of Milwaukee Police Department Administration with a broad based summary of the accessibility of the facility as defined by the Americans with Disabilities Act (ADA) and the ADA Architectural Guidelines, including:

   A. Access to the facility from public transportation, sidewalks, and parking.

   B. Access within the facility by way of corridors, stairs, and/or elevators;

   C. Access to rest rooms within the facility; and

   D. Safety within the facilities related to alarm systems and protection of individuals with disabilities in the event of an emergency.

The Survey was not intended to determine accessibility of specific offices or programs. Decisions in this regard are beyond the purview of this Survey and involve decisions and judgements that must be made by the City of Milwaukee Police Department Administration.

Also the Survey is based upon the development and implementation of general or standardized barrier options that are applied to the facility sharing certain characteristics of non-compliance.

Survey Method

The facility was surveyed using a two (2) step process.

During the field inspection, a Preliminary Checklist was filled-out with the Building Superintendent and the Consultant. The Checklist was intended to provide information relative to the facility and existing conditions and/or services available within the facility which might impact accessibility.

The Checklist was accompanied by a set of the building floor plan. This information assisted in identifying present conditions in the facility and their location, helping to ensure that all areas were checked during the field survey.

After the Preliminary Checklists was filled-out the Architectural Barrier Survey Checklist was used as the basis of the field inspection.

The Architectural Barriers Survey Checklist was developed to identify existing conditions within each facility. The questions on the Checklists are designed to assist the Field Inspector in the identification of the specific areas of accessibility that are to be addressed in this Survey and to provide general guidelines relative to the definition of barriers (such as dimensional guidelines).

The job of the Field Inspector was to conduct a field survey. The field survey consisted of a walk through the facility to observe actual conditions and to compile necessary data concerning those conditions, particularly in instances of non-compliance. The walk through covered all areas identified on the Architectural Barriers Survey Checklist as well as any areas that were observed that are not identified on the Checklist but could represent barriers to accessibility.

The information compiled was entered on the Architectural Barriers Survey Checklist which, in turn, becomes the Architectural Barrier Report. The same questions that appeared on the Checklist are repeated on the Report with results representing the deficiencies in existing conditions. This was done in order to provide a basis for future research, design and/or modification considerations. Additionally, the answers which indicate the existence of barriers (NO answers) provide information about the minimum requirements for compliance with the American with Disabilities Act.

The information from the Report then became the basis for identifying general categories of non-compliance for the Police Administration Building. These general categorizations form the basis of the cost estimates for each facility.

General Comments

In conducting the ADA facility surveys of the Police Administration Building, there were several items that were identified on a consistent basis that require additional clarification, explanation or comment in that they may, or may not, affect the decision making process relative to barrier removal.

Items of this nature include:

1. There were no fire pulls or sprinkler system in the entire Police Administration building.

2. The hardware on all the interior doors does not follow ADA Design Guidelines. Most doors have round/spherical knobs which require grasping and twisting to operate. While replacement of all of the hardware represents a significant cost, the number of doors requiring modification will vary based upon program/policy decisions to be made by the Police Department Administration.

3. There is a consistent need for examination of both public sidewalks and on-site sidewalks for the purpose of maintaining accessible routes. There is a good deal of settling or heaving that has taken place, creating grade changes in excess of the 1/2" maximum allowed.

4. The Police Administration Building main entrance has a severe grade change that exceeds the maximum pitch of 1:20. Therefore, the main entrance is inaccessible without some type of vertical transportation or ramping system.

5. Some doors' opening pressure is also a reoccurring problem. Although the 5 lbf requirement does not necessarily apply to fire exit doors and other exterior doors, many of the entrance and fire doors in the building require significantly more than 5 lbf pressure to open. This makes the pull too heavy for individuals who have some type of mobility or physical impairment. However, most of the interior doors have been redone to meet the 5 lbf pressure to open. We highly recommend power assisted doors at exterior entrances where they do not presently exist. They technically would not be required. In this situation the existing doors to the building should be outfitted with some type of device to improve accessibility.

6. There are no parking spaces accessible for cars or vans.

7. Signage throughout the facilities is not in compliance with the ADA regulations. This includes all of the room number signage which is used to identify rooms for visitors, staff and emergency personnel.

   The "accessible" signage that was provided in the facility was not in compliance as it did not have raised letter copy or the additional braille copy.

   Additionally, the mounting heights will have to be modified to make the signage truly "accessible".

   Exterior signage designating accessible parking should have the Wisconsin approved sign.

   Staff toilet rooms were not "accessible". The assumption would be that disabled staff personnel could make use of the facilities made available to the public.

Public toilet rooms were not totally "accessible". Some eliments of these toilet rooms satisfy accessibility requirements thus rendering them partially "accessible".

8. As a general rule, floor surfaces were noted as being firm and slip-resistant with the caveat that they are slippery when wet. Most floors are terrazzo and smooth finish concrete.

9. Accessible route crosswalks at vehicular traffic areas are not designated.

10. Typically, all floors are "accessible" by means of the elevator. However, the elevator is not "accessible". The elevator Control Panel and Indicator Signal does not comply.

POLICE ADMINISTRATION BUILDING

MECHANICAL SYSTEMS

HEATING, VENTILATING AND AIR CONDITIONING

I. General (Applies to All Options)

A. Design Parameters:

1.	Outside:	90þF DB/77þF WB Summer -10þF Winter
2.	Inside:	75þF/45% RH Summer 70þF/30% RH Winter
3.	Ventilation:	In accordance with ASHRAE standards.

B. Building automation systems will be direct digital control with PC based operator work stations.

C. Filtration will be with minimum 65% efficient ASHRAE filters.

1. Special filters, such as activated carbon, will be provided where necessary.

D. All areas required by City of Milwaukee code will be exhausted.

E. Humidification will be WEPCO steam where available, or electronic steam generating humidifiers.

F. Ventilation will be provided by new variable volume air handling systems.

1. Air supply and control will be through variable air volume boxes and linear slot diffusers.

II. Renovation of Existing PAB

A. Heat source shall be the existing WEPCO steam service with new heat exchangers, circulating pumps, and distributed piping.

1. Heating equipment proven to be in like-new condition will remain.

2. All other heating equipment will be replaced.

3. New perimeter fin tube radiation will be the primary heating system.

B. The existing chillers, cooling towers and pumps will be replaced with new. District chilled water will also be investigated.

1. Chilled water coils in new air handling systems will provide cooling.

2. New equipment will be sized for new building additions.

3. Supplemental cooling equipment will be provided in special use areas.

4. Refrigeration equipment will use non-CFC refrigerants.

III. Additions to the PAB

A. Heating from WEPCO steam service to heat exchangers.

1. Equipment in the renovated building may be sized for additions.

2. Hot water perimeter fin tube radiation to be main source of heat.

B. Chilled water supplied from new chiller in the renovated building.

IV. New Construction

A. The source of heat will be WEPCO steam service if available, or gas-fired hot water boilers.

1. Hot water perimeter fin tube radiation to provide the main source of heat.

B. Chillers will provide cooling to chilled water coils.

1. District chilled water will be investigated if available.

V. Leased Space

A. HVAC systems provided by the Landlord in accordance with Tenant requirements.

VI. **Renovate Sinai/Samaritan West Campus (Option 3B)**

A. Heating equipment in like-new condition will be reused.

B. Existing chillers will be replaced.

C. All air handling systems will be replaced.

PLUMBING

I. **General (Applies to All Options)**

A. New plumbing fixtures will comply with ADA.

B. New security plumbing fixtures will be stainless steel.

C. New hot water heaters will be steam-fired where steam is available.

D. Plumbing fixtures, equipment and design will meet State of Wisconsin and City of Milwaukee code requirements.

II. **Renovation of Existing PAB**

A. Water Distribution System:

1. Domestic water piping will be reused where applicable.

2. Steam-fired water heater/tank will be replaced.

B. Waste and Vent Systems:

1. Sanitary/storm waste and vent piping will be re-used where applicable.

C. Plumbing Fixtures:

1. Plumbing fixtures will be removed as directed.

2. New plumbing fixtures will be installed as directed.

III. Addition to the PAB

A. Water Distribution System:

1. New steam-fired water heater in existing building is to be sized for any additions.

2. Domestic water shall be supplied from the existing building.

B. Waste and Vent Systems:

1. A new sanitary/storm waste and vent systems are to be installed for any additions and tied into existing waste and vent system where possible. New sewer laterals may be required.

C. Plumbing Fixtures:

1. New plumbing fixtures will be installed as directed.

IV. New Construction

A. Water Distribution System:

1. New steam-fired water heaters will be used if steam is available. Otherwise gas-fired heaters will be used.

2. New domestic water service and distribution system will be installed.

B. Waste and Vent Systems:

1. New sanitary/storm waste and vent systems are to be installed including new sewer laterals and any site plumbing.

C. Plumbing Fixtures:

1. New plumbing fixtures are to be installed as directed.

V. Leased Space

A. Plumbing systems provided by the Landlord in accordance with tenant requirements.

VI. Renovate Sinai/Samaritan West Campus (Option 3B)

A. Plumbing piping will be re-used where possible.

B. Plumbing fixtures will be removed as directed.

C. New plumbing fixtures will be installed as directed.

D. Steam-fired water heaters will be replaced.

FIRE PROTECTION

I. General (Applies to all Options)

A. Automatic sprinkler systems (piping, equipment, etc.) shall comply with NFPA, State of Wisconsin, and City of Milwaukee requirements.

B. New fire protection equipment shall have UL/FM approval.

C. All accessible and combustible construction areas will be sprinklered.

II. Renovation of Existing PAB

A. Sprinkler system and fire pump in lower level will be removed.

B. Fire hose cabinets will be removed.

C. New sprinkler system and fire pump will be installed.

D. New standpipes will be located in stair wells.

III. Addition to the PAB

A. New sprinkler system and fire pump installed in renovated building will serve existing building and additions.

B. New standpipes will be located in stair wells of additions where required.

IV. New Construction

A. New sprinkler system (and fire pump if required) will be installed.

B. New standpipe will be located in stair wells where required.

V. Leased Space

A. Fire protection systems provided by the Landlord in accordance with tenant requirements.

VI. Renovate Sinai/Samaritan West Campus (Option 3B)

A. Existing sprinkler system will be modified as required.

POLICE ADMINISTRATION BUILDING

ELECTRICAL SYSTEMS

I. GENERAL (APPLIES TO ALL OPTIONS)

A. Power Design Parameters:

1. Distribution voltages:

a. All facilities shall have 208/120V, wye, 3 phase power distribution regardless of the size of the facility. In addition, buildings over 4 stories shall have 12.5 KV power substations, and buildings over 100,000 square feet shall have 480V, 3 phase available for lighting and large motors.

2. Emergency power and emergency UPS power supply:

a. Generation capability needs to handle communication systems, security systems, data processing systems, alarm systems, emergency lighting, fire and smoke control pump(s) and fans, and control for critical heating equipment.

b. Computer equipment needs more modern Uninterruptible Power Supply design to provide emergency backup and avoid a loss of valuable data. This should also extend to emergency communications equipment (radio and phone), security system memory and devices such as cameras, monitors, and door controls.

B. Electrical Raceway Capacity and Limitations:

1. Each facility should be equipped with a communications/data enclosed raceway which follows the corridors at each floor level. This should be a divided raceway and should house both limited energy cables and those which are not limited energy cables. Adequete communication/data rooms need to be allocated with arrangements worked out for each floor. Additional spare raceways need to be added for each facility.

C. Lighting System Deficiencies and Upgrade Capabilities:

1. All facilities need high efficiency lighting where the City will be paying the power bill. Conference rooms should have dimable light levels. Exterior rooms with windows should have two level switching as should rooms with a large number of computer terminals.

2. In computer rooms, the lighting should be designed to minimize glare. Waiting rooms should have soft, indirect light.

D. Availability of Outlets and Outlet Wiring Upgrade Capabilities:

1. All areas need sufficient outlets distributed so as to handle both present and future probable use requirements, including high density use. The raceway layout should provide the flexibility needed for modern open offices that are likely to change in space useage.

E. Security and Alarm System Upgrade Capabilites:

1. The most important safety and security issue is safe evacuation of personnel in the event of a problem. Proper backup of elevators is an issue that has both electrical power and control impacts. This would include an emergency phone in any elevator required in any facility.

2. There should be a centralized overall security graphic display which should be located in the central control room to annunciate the status of all security input and output devices and camera images.

3. A staff duress system that is both hardwired and capable of being actuated by ultrasonic or camera motion sensors should be installed in all detainee holding area(s).

F. Fire Alarm System to Work With Sprinklers:

1. Modern codes relating to Access to the Disabled, in effect, mandate fire alarm systems. Both audible and visible alarms need to be placed throughout the facilities. Prewarning alarms and equipment trouble alarms would not necessasarily have to be loud, panic inducing signals, but could deliver central and zone notice of a possible problem condition.

2. Because of the vulnerability of this type of facility to massive disruption, the fire alarm system needs to be specially designed. Also, the unanticipated discharge of sprinkler water could also be greatly disruptive and destructive. This needs to be minimized with an adequete fire alarm system.

II. RENOVATION OF EXISTING POLICE ADMIN. BUILDING

A. Planning for Increased Emergency Power:

1. The existing generator was not designed for the high density people and electronic load, and the cooling load that is required by today's codes and standards. In a high density high rise public building, all elevators, all fire pumps, all smoke control fans and dampers, all data and communications, and all alarm systems should be on the generator emergency power. In addition, computer rooms need adequete emergency power to maintain temperature and keep functioning in a power outage.

B. Upgrading Electrical Raceway Capacity:

1. Some of the older facilities (such as this one) never had a suitable fire alarm system which would have included separate conduit or raceway for emergency wiring. Also, the spare conduits that were provided for future expansions have been used for various purposes. Additional spare and dedicated conduits need to be added for this and added phone/data wiring which needs to be completed.

C. Lighting System Upgrade:

1. Most of the existing lighting system deficiency in this building centers around older PCB containing ballasts. This material leaves the City open to fines for hazardous or undesireable material disposal.

D. Upgrading Grounding, Shielding, and Isolation for Dedicated Power Outlets:

1. Because of the significant increase in harmonics associated with new electronic equipment, there is a general need to upgrade system grounding, sheilding, and isolation for dedicated computer equipment.

E. Security System Upgrade Capabilities:

1. As this building stands today, it needs tighter definition of useage, tighter control over access, more surveilance of public areas, and more privacy in private areas. Better documentation is needed of individuals who breach security. Resistance to forcible entry only needs to be upgraded in limited areas, but would otherwise need additional monitoring if this were not done.

F. Fire Alarm System Upgrade Requirements:

1. Because it just is not practical to have fire drills in a building of this type, it is neccessary to design smoke detectors to minimize any possible nuisance trip. This can be done by using coded, adjustable sensitivity units, which can be wired to require more than one unit to detect before an audible signal is created. Furthermore, with adequete fire suppression, any evacuation required could be limited to just that local area.

III. ADDITIONS TO THE POLICE ADMINISTRATION BUILDING:

A. Integration of Power Services:

1. Any addition to the existing Police Administration building should have a double ended type of switchgear arrangement which allows the feed of power in thru two separate sources. This can help insure continuity of electrical power even if one utility supply is temporarily out of service. The best way to accomplish this is to combine both the existing and new buildings on a common system similar to the system used at the other large facilities in the neighborhood.

B. Integration of Emergency Power:

1. Physically separated generator facilities can be readily combined by paralleling of units. Or, alternatively, a larger unit can be designed to easily take care of both the existing and the expanded facilities.

C. Integration of Security Monitoring:

1. A building addition can be accomplished by having either a common level of security or a separate level of security for the addition than what is used for the existing building. In either event, it would result in a drastic reduction in labor cost to monitor security from one location.

D. Integration of Access Systems:

1. Access issues need to be addressed from both a front door and back door (or parking lot) point of view. But the methods recommended would vary with final architectural factors and differing site conditions.

IV. NEW CONSTRUCTION OFFSITE:

A. New Service Voltage and Size Guidelines:

1. Over four stories, a 12.5 KV service is required to minimize potential voltage drop throughout the building.

2. Over 100,000 square feet, 480 V, 3 phase is required in addition to 208V, 3 phase for outlet loads.

3. Under 100,000 square feet, a single 208V, 3 phase service would generally suffice for all load, but this would need to be verified.

B. New Emergency Power System Guidelines:

1. Four Story or less - Buildings in this catagory normally do not have sprinklers, fire pump(s), elevators, and related equipment required. As such, the emergency power requirements are less. Computer room equipment load and air conditioning associated with it is the largest part of this required load.

2. Over Four Story - Buildings in this catagory normally have firepump(s) and elevators. These would need to be on generator power and the control panels should be on a UPS battery backup inverter system.

C. Electrical Raceway System Requirements:

1. Firealarm and emergency power raceway needs to be separated from all other raceway systems.

2. The addition of ample spare raceway capacity is very economical in a new facility.

D. Security Access and Monitoring Requirements:

1. Any new facilities would present an opportunity to design a good communication training facility to prepare new staff for the work in the central communication room. Due to the cost of building this it would be a good idea to make it potentially functional in the event that maintenance is needed on the main system. This could also serve for better monitoring of security and could assist in retreiving data and graphic image records between facilities.

E. Electrical Requirements Imposed by ADA:

1. Generally, in a new facility, it can be expected that all ADA requirements must be met. This would include chair lifts where there are no elevators; telephones for the hard of hearing and the blind; and automatic door control.

V. LEASED SPACE

A. Fire Alarm - Typically, fire alarms in most commercial buildings are very poorly designed to minimize nuisance alarms and vunerability to vandals setting off the alarm. The preferred designs are capable of suppressing some fires without a total evacuation of the building. They are also capable of cross-zone verification of a fire due to multiple detectors. This assists in minimizing nuisance trips. The better systems are coded so that one knows the exact location of a fire and can respond locally without a general immediate panic evacuation.

B. Security - One of the big difficulties of leasing a large quantity of space for police administration use is getting the degree of control over the building access, security, and privacy that is desired for that function. Often buildings that were designed primarily for general office useage need far more extensive security systems to get the equivalent appropriate functions. These include: privacy; access control; security weapon checking; documentation of the identity of persons who may breach security; and resistance to forcible entry.

VI. OFFSITE RENOVATION OF EXISTING FACILITIES

A. Reuse of Existing Power Services

1. In general, the offsite locations being considered have adequete capacity of power nearby or already designed into the facility so that this is not a problem area. Because many of the existing off site building(s) are proposed to be mostly gutted anyway due to the age of the facilities, the reconstruction can be designed as desired.

B. Reuse of Existing Generation Capability

1. Option 3B would permit reuse of some of the existing generation system. This could save additional cost. The other options would allow sufficient generation capability to be added.

C. ADA Upgrade

1. The elevator capacity and arrangement needs to be further studied for each site to achieve ADA compliance. It may be necessary to refeed power to some of these units with generator backedup power. Emergency ADA phones, smoke detector(s), and door controls would need to be added. The mounting height of switches, convenience outlets, and other such devices may all need revision to bring the facility into compliance with ADA in public areas.

D. Security Access and Monitoring Requirements

1. Multiple line type of adequete bandwidth or suitable fiber optic links need to be added to the existing facilities, in general, to accomodate high resolution video transmissions now and interactive TV very shortly in the future.

Section 7

POLICE ADMINISTRATION BUILDING

ESTIMATED COMMUNICATIONS COSTS BY SCENARIO
ANALYSIS AND RECOMMENDATIONS

The Citizens of Milwaukee have enjoyed the services of a Police Department which has strived for excellence in part through the use of technologically advanced tools. These tools range from a modern computer aided dispatch system to a state of the art finger print imaging and identification system. However as good as these systems are they must be in an environment that allows people and systems to become one. The existing P.A.B., in its current state, is not furnishing that environment.

The move and/or renovation of the P.A.B. provides the perfect opportunity to continue to maintain technological superiority. This was the primary theme used by Monahan & Associates when analyzing the needs and requirements of the Police Department in conjunction with the P.A.B. Facilities Improvement Study. The costs reflect technology upgrades in many key areas. These systems either experience dramatic changes or simply can not be easily moved or modified. Communications infrastructure is one of those support systems which are time intensive to install or modify and are necessary to be operational prior to a move.

The wide array of options under consideration has reduced the depth each could be examined. The options under consideration have far reaching ramifications for systems. Modern communications technologies allow operational ramifications to be far more subtle. These communications technologies allow public safety agencies to distribute their operations as the community's needs dictate. One such example is separation of Fire and Police Dispatch Centers whereby the potential two new sites can work together unhampered by the distance separating them and use the distance as a disaster recovery advantage.

As specific locations have not been proposed within the context of this report, Data & Communications cost assume colocation of Fire Dispatch and Police Data and Communications. Discussions during the course of this report have indicated a strong desire to separate these two distinct departments creating the advantage of redundant facilities for disaster planning. Redundant equipment, cabling, towers, facilities and site acquisition are impossible to be reliably determined for each of the thirteen options within the scope of this phase of the report and should be considered in detail in a subsequent planning phase.

The information provided in this document is for budgetary purposes only. It is intended to depict the impact of the various scenarios on the overall communications capital costs. On going expense items are identified in the discussions of each scenario only as they may differ between the options.

I. Assumptions

A. In scenarios which include retention of the existing P.A.B. and fire and/or police dispatch center moves, the central radio communications equipment does not get moved and the dispatch center(s) are linked by land lines and/or microwave.

B. In scenarios which include retention of the existing P.A.B. and fire and/or police dispatch center moves, microwave links and equipment is minimally reconfigured and the remote dispatch center(s) are linked with two existing hub locations.

C. In scenarios which include retention of the existing P.A.B. the voice communications system is kept in it's existing location and continues to serve the P.A.B. and other existing locations. New telephone systems are deployed in leased, renovated or new construction.

D. In those scenarios where a dispatch center moves out of the P.A.B. all dispatch critical components will be duplicated and tested in the new facility prior to the move.

E. In those scenarios where the data center moves out of the P.A.B. the computer used to run the computer assisted dispatch will be duplicated and tested in the new facility prior to the move. Other systems will be moved on a three day out of service basis.

F. In those scenarios (2A - 2H) where off site space is programmed costs have been furnished for all departments to be collocated in a single building or property. Costs will increase as the number of locations increase.

G. All personal computers and video display terminals, with the exception of those associated with dispatchers will be moved to the new facilities.

H. New data communications hardware is installed and fully tested at new facility locations prior to moves. Old hardware is sold on the secondary market at ten cents on the dollar or ten percent returned on the new hardware investment.

II. Work Sheet Definitions

A. **Information Outlet** - Consists of all of the necessary passive components to deliver digital voice communications capabilities and up to 100 million bit per second data communications to the desk top. This includes: two - eight pin outlets; wired with two unshielded twisted four pair copper (one Category 3 and one Category 5); intermediate distribution closet termination fields; voice riser copper cable; data backbone copper cable; a main distribution termination field; and cross connects / patch cords. This does not include active electronics or media adapters.

B. **Telephones** - Consists of all station apparatus (telephones) and common switching equipment (PBX) to provide general purpose voice communications service.

C. **LAN / Data Comm. Electronics** - Consists of all active, shared electronics and all twisted pair media adapters required to deliver data communications to the desk top at speeds up to 10 million bits per second.

D. **Radio Console System** - Consists of the dispatcher radio communications console and the central control electronics bank.

E. **Radio Communications System** - Consists of the central radio communications voter / comparitor hardware.

F. **Computer Assisted Dispatch System - Hardware** - Consists of the central processor hardware and communications center terminals required to move a communications / dispatch center with no out of service time. Applications software right to use is not included since the center will be operational at both sites for only a short period of time. The existing hardware will be relocated to a disaster recovery site.

G. **E9-1-1 Controller & ANI/ALI Displays** - Consists of the E9-1-1 controller equipment and the call taker / dispatch located Automatic Number Identification / Automatic Location Identification display equipment which will be installed and tested prior to off site move. The existing hardware will be relocated to a disaster recovery site.

H. **Voice Logging System** - Consists of the hardware which centrally records telephone and radio voice communications within the dispatch center. This hardware will be installed and tested prior to off site move.

I. **Microwave Communications Equipment** - Consists of point to point microwave communications hardware which provide communications links between the dispatch center / data center and the remote radio transceiver equipment / district locations. Microwave provides a communications path for critical applications as well as a diverse transmission route for land based facilities. This hardware will be installed and tested prior to an off site move.

J. **Mobile Data Communications Equipment** - Consists of fixed end components including a PC based message switching system and In scenarios which call for vacating the existing P.A.B., radio transceiver equipment. The fire department is currently utilizing this type of equipment and the police department is in the process of acquiring a system. This hardware will be installed and tested prior to an off site move.

K. **UPS / Power Generator** - Consists of two components; UPS equipment which maintains constant, pure and stable power independent of the commercial or generator derived input power, thereby keeping critical systems operational and protected under all power conditions; and a diesel or turbine powered generator capable of delivering adequate power to maintain the operations of all critical systems, equipment and departmental functions. This hardware will be installed and tested prior to an off site move.

L. **Alarm Announcement System** - Consists of equipment which is utilized to audibly notify each fire house of an event requiring mobilization. The current system is old and out of date and should be replaced. This hardware will be installed and tested prior to an off site move of the fire dispatch center.

M. **Misc. Support Systems** - Consists of numerous ancillary systems in the dispatch centers and the data center such as management systems, hospital communications equipment, weather notification / warning systems, manual systems which are used in the event and automated system fails, etc. Some of these systems can be moved while older antiquated systems should be replaced.

N. **Data Center Move** - Consists of a professional electronic data system moving company which will move existing systems from their current location on the 6th floor of the P.A.B. to a new data center location. This will involve some down time for non-emergency dispatch related systems and will be phased over several days or weekends.

0. **Computer Room Environmental Control** - Consists of heating, cooling and humidity control equipment as well as fire control and water sensing equipment. This hardware will be installed and tested prior to an off site move.

P. **Data Communications Equipment** - Consists of central site (computer room) modems bridges and routers required to facilitate the phased move of the systems with a minimal amount of down time. This will allow communications links to be installed and tested prior to taking the existing services down for the move.

Q. **Building Backbone System** - Consists of a fiber optic cable backbone system to provide high speed data communications transmission between the data center or computer room and the distribution closets located on the various floors of the new sites identified in each scenario. Smaller or low concentration locations will not justify the cost of fiber optic cable or the electronics needed to drive it.

R. **Equipment Closet / Computer Room** - Listed under the Municipal Court, this consists of a scaled down version of the main police data center / computer room, which includes UPS, generator, HVAC, water sensing, etc.

S. **Wide Area Communications Transmission Facilities** - Consists of leased and/or city owned transmission facilities. The size of the facility and whether it is owned or leased plays into the decision on the proper approach to deliver communications lines. Smaller leased facilities often do not justify the installation cost of city owned cable when compared to telephone company leased lines.

T. **Basic Cost Per** - This column reflects an estimated cost for each component identified for each departmental grouping and is based on other quotations Monahan & Associates have secured during previous engagements for similar hardware and services.

U. **Premium** - This column contains a factor which is used to calculated the approximate variance from the basic cost identified in the 'Basic Cost Per' column.

V. **Qty** - This column contains quantities derived through data gathering sessions and an analysis of the component space program.

III. Discussion and Recommendations By Scenario

A. **In broad terms there are several statements that will hold true for all of the scenarios under analysis. These are as follows:**

1. Larger locations with a higher concentration of staff will be less expensive to deploy most communications based equipment;

2. Renovation of an existing facility will average a 15% premium on cable installation over new construction;

3. Dispatch center and computer room build outs far exceed costs included in a normal lease; and

4. A dispatch center should be designed to be it's own self contained and secured environment.

B. **Additional considerations by scenario are as follows:**

1. **Option 1A, 1B & 1C** - These options resulted in the lowest communications related costs at $966,615. The subtle changes between these options do not have a significant impact on costs. These options would result in the least disruption to emergency dispatch related operations. Fire communications move costs are just over 50% of the total costs for these scenarios. This is because many of the systems must be duplicated in part or completely to minimize disruption. The radio consoles must be partially duplicated in the new addition and then the balance moved in phases. The ANI/ALI controller must be fully duplicated in the new dispatch center. Other

systems will be moved on an expedited basis.

The new addition will require new communications cabling and backbone infrastructure. The remodeling of the existing P.A.B. will mandate new cable and outlets from the work station back to the equipment closet distribution points.

2. **Option 2A** - This option resulted in a communications related expense of $1,820,387. The dramatic increase in cost can be attributed to the off site move of Fire Communications and the low densities of the two new sites. An off site move of the Fire Communications Center will result in the duplication of all support systems with the exception of the radio communications system and the mobile data communications system. The radio communications system will stay in the current location and leased lines and/or microwave circuits will be used to connect with the existing network. The mobile data communications system will be moved on an out of service basis with minimal disruption. The separation between Police and Fire Dispatch provides built in disaster recovery at the expense of additional hardware costs.

   City owned private communications facilities will not be cost justifiable to the leased location due to it's low density and potential short life. The same can be said for the new construction site unless the location is close to an existing cable route that has available cable or conduit space. The wide area communications facility costs depicted reflect an estimated 10 year franchise discounted price.

3. **Option 2B** - This option resulted in a communications related expense of $2,258,283. The dramatic increase in cost, when compared to options 1, can be attributed to the off site move of fire communications. This option compares to option 2A very favorably due to it's higher density and being a single, newly constructed facility. The new construction is sufficient in size to circumvent premiums on the telephone system and justify city owned private cabling. The separation between Police and Fire dispatch provides built in disaster recovery at the expense of additional hardware costs.

4. **Option 2C** - This option is very similar to option 2B and resulted in a communications related expense of $2,378,535. The nominal difference in cost is due to the increased quantity of departments moving into the new location and that the new location is renovated space.

5. **Options 2D, 2F, 2G & 2H** - These options resulted in a communications related expense of $4,719,233, $4,598,873, $4,719,233 & $4,305,023 respectively. The dramatic increase in costs can be attributed to the move of Police Communications and the Data Services Division to new quarters. The move of these two departments is responsible for over two thirds of the total communications related expenses under these scenarios. This move would result in the entire 6th being vacant with the exception of the communication equipment room, located in the northwest portion of the floor.

   The collocation of Fire and Police dispatch with options 2D & 2F will require additional funds to be expended to re-install the existing systems in a disaster recovery site. However the single site solution allows some support systems to be shared, resulting in a savings of over $140,000. The high density of the leased space will also save costs for other communications based systems. However it is a questionable decision to locate departments with these types of costly support systems in a leased facility.

   Wide area communications become a significant issue for a leased facility. If the facility stays put for ten or more years, it makes sense

to install private facilities. Of course this depends on proximity to existing cable routes and available conduits. More investigation is required once a site is selected.

6. **Option 2E -** This option resulted in a communications related expense of $4,535,083. The primary differences between this option and 2D is the relocation of Police Communications from leased space to new construction which results in the reduction of leased space. This decreases costs by nearly $200,000 and provides better disaster recovery abilities by separating Fire and Police Communications. This applies to options 2G & 2H also.

7. **Options 3A & 3B -** These options resulted in a communications related expense of $6,216,970 and $6,269,095. The nominal difference between these options is the result of the premium for cable installation in existing construction. The dramatic increase in cost is attributed to the complete move of all systems from the existing P.A.B. or the installation of new systems in the new facility. This includes a significant expense for the reconfiguration of the microwave and radio communications equipment. However, there is some economies which are derived from the collocation of all departments in a single high density location. Another significant issue is the relocation of the copper and fiber optic hub from the vault in the P.A.B. basement.