

CHAPTER IV
REFERENCE PLATES

1. TITLE BLOCK (Cover Sheet Only	PLATE #1
2. TITLE BLOCK	PLATE #2
3. TITLE BLOCK (COE Prepared Topography Or Logs of Borings Drawings)	PLATE #3
4. TITLE BLOCK (Site Adaptation Cover Sheet)	PLATE #4
5. TITLE BLOCK (Site Adaptation other than Cover Sheet)	PLATE #5
6. SCHEDULE OF DRAWINGS	PLATE #6
7. GRAPHIC SCALES	PLATE #7
8. DOOR SCHEDULE	PLATE #8
9. WINDOW TYPES	PLATE #9
10. FINISH SCHEDULE, FINISH LEGEND AND COLOR SCHEME INSTRUCTIONS	PLATE #10
11. SAMPLE SCHEDULE FOR PLATE 10	PLATE #11
12. EXAMPLE FLOOR PLAN FOR PLATE 10	PLATE #12
13. SAMPLE EXTERIOR COLOR SCHEDULE	PLATE #13
14. SAMPLE VICINITY MAP	PLATE #14
15. SAMPLE LOCATION MAP	PLATE #15
16. HANDICAPPED CHECKLIST (BLANK)	PLATE #16
17. ENVIRONMENTAL PERMIT MATRIX (BLANK)	PLATE #17
18. GROSS AREA TAKEOFF	PLATE #18
19. SUPPORT DOCUMENT COVER SHEET INSTRUCTIONS	PLATE #19
20. AIR FORCE FORM 108 - AIR CONDITIONING LOAD ESTIMATE	PLATE #20
21. LIFECYCLE COST SUMMARY FORM	PLATE #21

"If it hasn't been reviewed,
it hasn't been designed."

CORPS OF ENGINEERS' INITIALS
DESIGNER'S INITIALS

▲					
▲	25 JAN 88	ADDED SHEET A-4 TO SCHEDULE OF DRAWINGS	J.N.	CS	
REVISION	DATE	DESCRIPTION	BY	BY	
NAME AND ADDRESS OF A-E FIRM UNDER CONTRACT TO COE			DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA		
DESIGNED: *	INSTALLATION		STATE		
DRAWN: *	PROJECT TITLE DRAWING TITLE				
CHECKED: *					
SUBMITTED: **					
SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED ON THIS SHEET					
APPROVAL RECOMMENDED: COE SIGNATURE <small>CHIEF, BRANCH</small>		APPROVED: COE SIGNATURE <small>CHIEF, ENGINEERING DIVISION</small>		DATE: DATE WILL BE ADDED LATER BY COE	
PREPARED UNDER THE DIRECTION OF COE SIGNATURE <small>COL., CORPS OF ENGINEERS, U. S. A.</small>			SCALE:	SPEC. No.	
			SHEET G-1	FILE No. DISCIPLINE NUMBERING SYSTEM	
			1 OF 19	CONSECUTIVE NUMBERING SYSTEM	

TITLE BLOCK
(COVER SHEET ONLY)

* FIRST INITIAL AND LAST NAME OF DESIGN PERSONNEL
** SIGNED BY PRINCIPAL OF A-E FIRM UNDER CONTRACT TO COE.

TITLE BLOCK
(OTHER THAN COVER SHEET)

CORPS OF ENGINEERS' INITIALS _____ DESIGNER'S INITIALS _____				
△				
△	25 JAN 88	CHANGED LOCATION OF LOUVERED DOOR	J.N.	C.S.
REVISION	DATE	DESCRIPTION	BY	BY
NAME AND ADDRESS OF A-E FIRM UNDER CONTRACT TO COE			DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA	
DESIGNED: *	INSTALLATION		STATE	
DRAWN: *	PROJECT TITLE DRAWING TITLE			
CHECKED: *	DISCIPLINE NUMBERING SYSTEM _____		CONSECUTIVE NUMBERING SYSTEM _____	
SUBMITTED: * *	DATE APPROVED DATE WILL BE ADDED LATER BY COE	SCALE SHEET A-4	SPEC. No.	FILE No.
		9 OF 19		

A-E FIRM'S PRINCIPAL'S STAMP



* FIRST INITIAL AND LAST NAME OF DESIGN PERSONNEL
 ** SIGNED BY PRINCIPAL OF A-E FIRM UNDER CONTRACT TO COE

SAMPLE TITLE BLOCK

(COE PREPARED TOPOGRAPHY
OR LOGS OF BORINGS SHEET)

PROJECT FILE NUMBER GOES HERE

REVISION	DATE	DESCRIPTION	BY	BY

GEOTECHNICAL BRANCH	DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA								
DESIGNED: R.L.T.	CALIFORNIA								
DRAWN: R.L.T., R.A.W.	DINING FACILITY								
CHECKED: MDR	LOCATIONS OF BORINGS								
SUBMITTED:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">DATE APPROVED: DATE WILL BE ADDED LATER BY COE</td> <td style="width: 20%;">SCALE: SHEET C-6</td> <td style="width: 20%;">SPEC. No. 7008</td> <td style="width: 40%;">FILE No. 238-25-207 ←</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>Charles E. Stangor</i> CHIEF, SOILS DESIGN SECTION</td> <td colspan="2"></td> </tr> </table>	DATE APPROVED: DATE WILL BE ADDED LATER BY COE	SCALE: SHEET C-6	SPEC. No. 7008	FILE No. 238-25-207 ←	<i>Charles E. Stangor</i> CHIEF, SOILS DESIGN SECTION			
DATE APPROVED: DATE WILL BE ADDED LATER BY COE	SCALE: SHEET C-6	SPEC. No. 7008	FILE No. 238-25-207 ←						
<i>Charles E. Stangor</i> CHIEF, SOILS DESIGN SECTION									

REFERENCE: SACRAMENTO DISTRICT EXPLORATION LOG FILE NUMBER 230-01-237

OR: REFERENCE: SACRAMENTO DISTRICT TOPOGRAPHY FILE NUMBER

WHEN TOPOGRAPHY OR LOGS OF BORINGS
DRAWINGS ARE SUPPLIED BY THE COE
PLACE REFERENCE TO COE LOG OF BORING
OR TOPOGRAPHY FILE NUMBER HERE

SAMPLE TITLE BLOCK

(SITE ADAPTATION COVER SHEET)

REVISION	DATE	DESCRIPTION	BY	BY
▲				
SHE ADAPTED BY: NAME AND ADDRESS OF A-E FIRM UNDER CONTRACT TO COE DEPARTMENT-OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA			SIGNED BY: SIGNED BY PRINCIPAL OF A-E FIRM UNDER CONTRACT TO COE	
SPEC. NO. _____ APPROVAL RECOMMENDED: COE SIGNATURE CHIEF, BRANCH _____ PREPARED UNDER THE DIRECTION OF _____ COL. CORPS OF ENGINEERS, U. S. A.			DATE: DATE WILL BE ADDED LATER BY COE APPROVED: COE SIGNATURE CHIEF, ENGINEERING DIVISION _____ DISTRICT ENGINEER	
REVISION	DATE	DESCRIPTION	BY	BY
▲				
DESIGNER: NAME _____ DRAWER: NAME _____ CHECKER: NAME _____ SUBMITTER: _____			STATE _____ PROJECT TITLE _____ SHEET TITLE _____	
SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED ON THIS SHEET				
APPROVAL RECOMMENDED: _____ CHIEF, BRANCH _____ PREPARED UNDER THE DIRECTION OF _____ COL. CORPS OF ENGINEERS, U. S. A.			APPROVED: _____ CHIEF, ENGINEERING DIVISION _____ DISTRICT ENGINEER	
SCALE AS NOTED _____ SHEET _____ FILE NO. _____ COL. CORPS OF ENGINEERS, U. S. A.			SPEC. NO. 1234 G-1 123-45-6789	

2" CLEARANCE FOR FUTURE REVISIONS

TITLE BLOCK ADDED FOR CURRENT SITE ADAPTATION (AVAILABLE FROM C.O.E.)

PREVIOUSLY PREPARED PROJECT TITLE BLOCK

SAMPLE TITLE BLOCK

(SITE ADAPTATION OTHER THAN COVER SHEET)

REVISION	DATE	DESCRIPTION	SUBMITTED BY: SIGNED BY PRINCIPAL OF A-E FIRM UNDER CONTRACT TO COE				
A			DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA				
A							
SITE ADAPTED BY: NAME AND ADDRESS OF A-E FIRM UNDER CONTRACT TO COE			DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA				
MODIFIED FOR SITE ADAPTATION AT (INSTALLATION)			SPEC. NO. _____ DATE ADDED BY COE				
REVISION	DATE	DESCRIPTION	DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA				
A			DEPARTMENT OF THE ARMY SACRAMENTO DISTRICT, CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA				
A							
DESIGNED:			INSTALLATION		PROJECT TITLE		STATE
NAME			PROJECT TITLE		SHEET TITLE		STATE
DRAWN:							
NAME							
CHECKED:			PROJECT TITLE		SHEET TITLE		STATE
NAME							
SUBMITTED:			SCALE: AS NOTED		SPEC. NO.: 1234		
DATE APPROVED:			SHEET: A-25		FILE NO.: 123-45-6789		
DATE APPROVED:			25		25		

2" CLEARANCE FOR FUTURE REVISIONS

TITLE BLOCK ADDED FOR CURRENT SITE ADAPTATION (AVAILABLE FROM C.O.E.)

PREVIOUSLY PREPARED PROJECT TITLE BLOCK

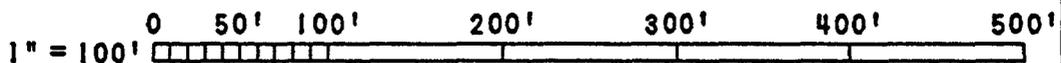
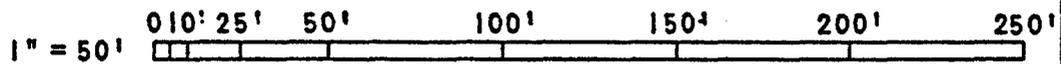
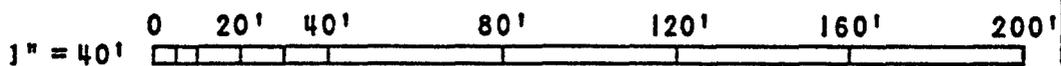
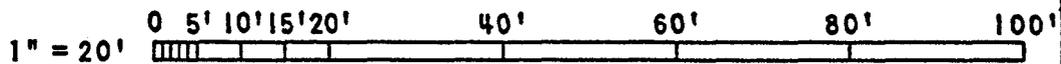
SAMPLE SCHEDULE of DRAWINGS

CONSECUTIVE SHEET NO.	DISCIPLINE SHEET NO.	DRAWING TITLE
1 of 18	G-1	PROJECT TITLE AND LOCATION, VICINITY MAP, LOCATION MAP, AND SCHEDULE OF DRAWINGS
2 of 18	C-1	GRADING PLAN, BUILDING LAYOUT, LEGEND, AND ABBREVIATIONS
3 of 18	U-1	UTILITIES (if not shown on CIVIL Sheets)
4 of 18	L-1	LANDSCAPE PLAN, LEGEND, AND ABBREVIATIONS
5 of 18	A-1	FLOOR PLAN, FINISH AND DOOR SCHEDULE, LEGEND, AND ABBREVIATIONS
6 of 18	A-2	ELEVATIONS
7 of 18	A-3	BUILDING SECTIONS
8 of 18	A-4	ROOF PLAN, REFLECTED CEILING PLAN & DETAILS
9 of 18	S-1	FOUNDATION PLAN, FIRST FLOOR FRAMING PLAN, LEGEND, AND ABBREVIATIONS
10 of 18	S-2	ROOF FRAMING PLAN
11 of 18	S-3	WALL FRAMING AND MISCELLANEOUS DETAILS
12 of 18	P-1	PLUMBING PLAN, LEGEND, AND ABBREVIATIONS
13 of 18	M-1	MECHANICAL PLAN, LEGEND, AND ABBREVIATIONS
14 of 18	M-2	EQUIPMENT SCHEDULES AND DETAILS
15 of 18	FP-1	FIRE PROTECTION PLAN
16 of 18	E-1	SITE PLAN, LEGEND, AND ABBREVIATIONS
17 of 18	E-2	FLOOR PLAN AND PANEL SCHEDULE
18 of 18	E-3	RISER DIAGRAMS AND DETAILS

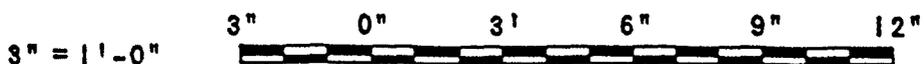
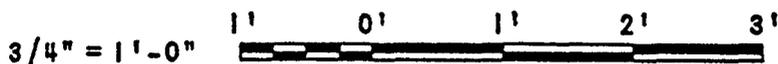
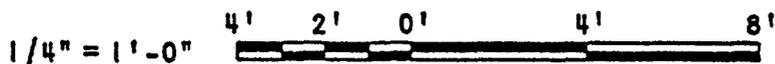
NOTE TO DESIGNER: ALL SCHEDULES OF DRAWINGS PREPARED FOR, AND BY, THE SACRAMENTO DISTRICT OFFICE SHALL BE IN THIS FORMAT AND THE SEQUENCE OF DISCIPLINES SHALL FOLLOW THE ORDER INDICATED. PROVIDE AS MANY DRAWINGS WITHIN EACH DISCIPLINE AS NECESSARY TO COMPLETELY DESCRIBE THE PROJECT. IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT THE CHIEF, DESIGN QUALITY ASSURANCE SECTION ARMY OR AIR FORCE, AS APPROPRIATE, THROUGH YOUR CORPS OF ENGINEERS PROJECT MANAGER. SEE CHAPTER II FOR FURTHER DISCUSSION.

SAMPLE GRAPHIC SCALES

GRAPHIC SCALES (ENGINEERING)



GRAPHIC SCALES (ARCHITECTURAL)



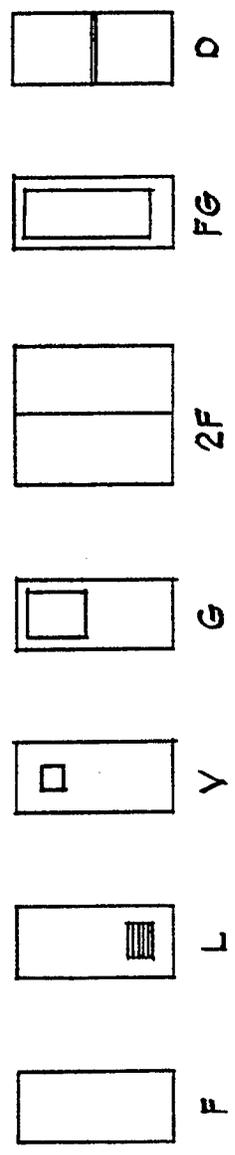
SAMPLE DOOR SCHEDULE

DOOR SCHEDULE												
NO. TYPE	SIZE	MAT.	*TYPE	FIN.	RATING	FRAME **				H.W.	REMARKS	
						MAT.	GAGE	HEAD	JAMB			SILL
1 F	3'-0" x 7'-0" x 1 3/4"	STL	XH	PAINT	3/4 HR	STL	16	6	6	12	1	
2 V	3'-0" x 7'-0" x 1 3/4"	WD S.C.	-	PAINT	-	STL	16	5	5	13	2	
3 FG	3'-0" x 7'-0" x 1 3/4"	ALUM	-	PAINT	-	ALUM	-	4	2	10	4	TEMPERED GLASS
4 L	2'-6" x 7'-0" x 1 3/4"	WD H.C.	-	STAIN	-	STL	18	7	7	-	2	
5 2F	2'-3-0" x 7'-0" x 1 3/4"	STL	HVY	PAINT	20 MIN.	STL	16	8	9	14	6	

** SEE DWG _____ FOR DETAILS

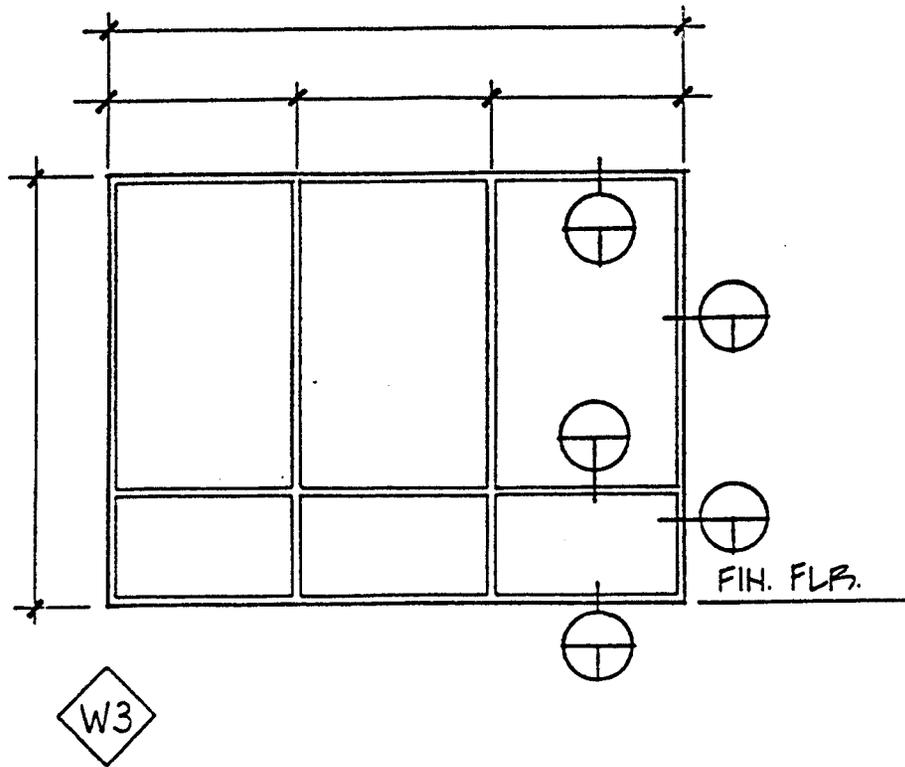
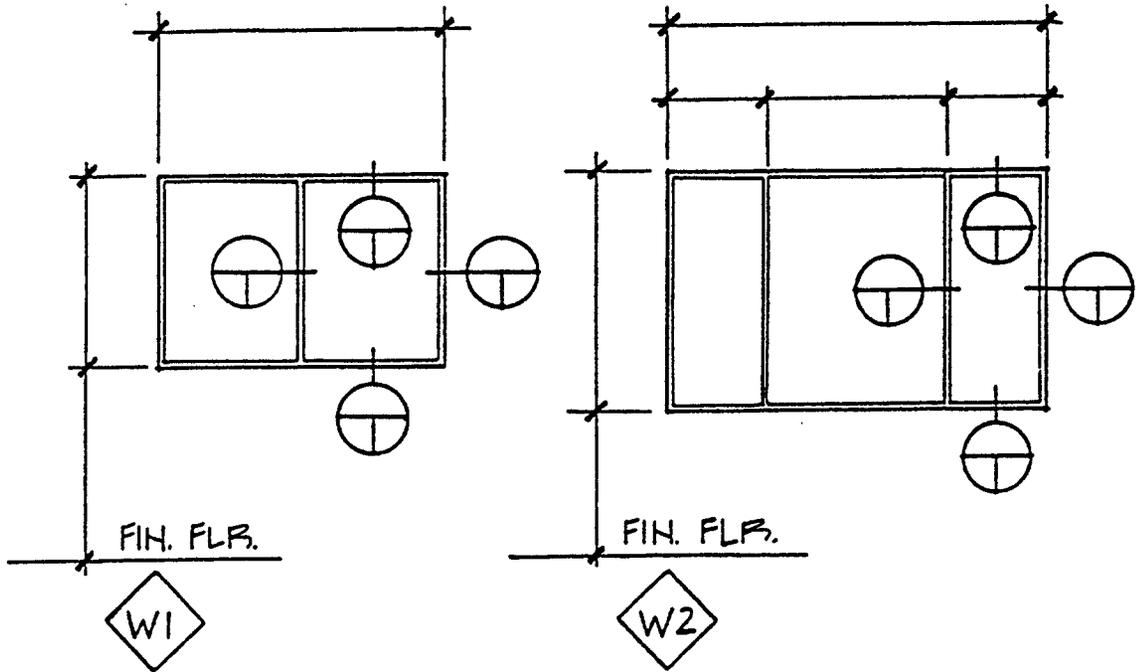
* APPLIES TO STEEL DOORS
STANDARD = STD, HEAVY = HVY,
EXTRA HEAVY = XH

DOOR TYPES



NOTE: ALL DOOR TYPES SHALL UTILIZE STEEL DOOR INSTITUTE STANDARD DOOR TYPE NOMENCLATURE. FOR SPECIAL DOORS USE OWN NOMENCLATURE WITH EXPLANATION.

SAMPLE WINDOW TYPES



FINISH SCHEDULE, FINISH LEGEND AND INTERIOR COLOR SCHEME INSTRUCTIONS

DIRECTIONS FOR USE OF THE INTERIOR FINISH SCHEDULE AND COLOR FINISH LEGEND

A. The Interior Finish Schedule shall be used in conjunction with the Color Finish Legend. The format shown shall be followed but is not meant to be restrictive. If the complexity of the project differs from what is illustrated, then columns of information may be added or deleted as appropriate.

B. Abbreviations used shall be as shown. Additions to this list are acceptable depending on additional finishes used within a project.

AC: ACOUSTICAL CEILING	P: PAINT
AWC: ACOUSTICAL WALL COVERING	PLAM: PLASTIC LAMINATE
B: BASE	QT: QUARRY TILE
C: CARPET	RB: RESILIENT BASE
CMU: CONCRETE MASONRY UNIT	S: STAIN
CONC: CONCRETE	SV: SHEET VINYL
CT: CERAMIC TILE	SWC: SYNTHETIC WALL COVERING
EXP: EXPOSED	VCT: VINYL COMPOSITION TILE
FWC: FABRIC WALL COVERING	VWC: VINYL WALL COVERING
G: GROUT	WF: WOOD FLOORING
GWB: GYPSUM WALLBOARD	X: NO FINISH

C. The abbreviations are used to specify the material, manufacturer, pattern reference and color reference for the item. This information shall be provided as the Color Finish Legend. Items, such as carpet tile and broadloom designations, shall be distinguished under the Color Finish Legend.

D. All blank spaces on the Interior Finish Schedule shall be filled with the abbreviations provided and shall be referenced in the Color Finish Legend including all multiple listings of finishes used, i.e. CT1; XYZ Inc, X12, Dove Grey 1234, CT2; XYZ Inc, X17, Rose Dust 5678.

E. Wainscot shall be indicated by listing both the wall finish above the wainscot and the wainscot material within the appropriate schedule box, i.e. P1/CT2.

F. Surface receiving a paint finish requires an abbreviation of the material receiving the application. List within the appropriate box, i.e. P1-GWB.

G. The column labeled as Trim shall be used for Door and Window Frame, Chair Rail notations, etc.

H. The column listed as Misc. shall be used to specify the placement of miscellaneous items such as Plastic Laminate, Toilet Partitions, Grout Color etc. that do not otherwise relate to one of the other columns in the schedule. Also note detail sheets if applicable.

I. The column listed as Remarks shall be used for notating any information that needs clarification, i.e. chair rail, door, window frames, or metal roof deck finish.

J. Provided on the following page is an example of the Interior Finish Schedule and Color Finish Legend as required. NOTE: A DOT MATRIX IS NOT ACCEPTABLE.

K. The Designer shall use this format when submitting a Interior Finish Schedule and Color Finish Legend for review. Alterations are subject to approval from Sacramento District Design Quality Assurance (DQA).

L. Provide a list of all the different color schemes and list all room numbers in their appropriate scheme. i.e. Scheme 1: Room #101, #108, etc.

SAMPLE FINISH SCHEDULE, FINISH LEGEND AND INTERIOR COLOR SCHEME

INTERIOR FINISH SCHEDULE												
RM NO	ROOM NAME	FLOOR	BASE	WALLS				CEILING		TRIM	MISC	REMARKS
				N	E	S	W	MAT'L	HT			
100	VEST	QT1	B2	VWC1	VWC1	VWC1	VWC1	P1-GWB	8-0	P2		P2-FRAME
101	CORR	C1	RB1	VWC1	VWC1	VWC1	VWC1	AC 1	8-0	P2		
102	COMMAND	C2	RB1	SWC1	SWC1	SWC1	SWC1	AC 1	8-0	P2		
103	PVT TLT	CT1	B1	VWC2	CT2/VWC2	VWC2	VWC2	P1-GWB	8-0	P2	G1	
104	ADMIN	C1	RB1	P1-GWB	P1-GWB	SWC1	P1-GWB	AC 1	9-0	P2		
105	BRK RM	VCT1	RB2	P2-GWB	P1-GWB	P1-GWB	P1-GWB	AC 1	9-0	P2	FLAM1	CHAIR RL
106	PHN RM	VCT1	RB2	EXP	EXP	EXP	EXP	EXP	VAR	P2		P2-RF DK
107	OFFICE	C2	RB2	P1-GWB	SWC1	SWC1	P1-GWB	AC 1	9-0	P2		
108	UTILITY	EXP	EXP	EXP	EXP	EXP	EXP	EXP	VAR	P2		P2-RF DK

NOTES:

Colors listed by manufacturers are for identification purposes only, and are not intended to limit selections to products by manufacturers indicated. An exact match for manufacturers' colors is not required. The selections serve only to indicate the color which the manufacturers' standard must approach.

COLOR FINISH LEGEND

AC: ACOUSTICAL CEILING

AC 1: Mfg, product #, color

B: BASE

B 1: Mfg, product #, color #1

B 2: Mfg, product #, color #2

C: CARPET

C 1: Mfg, product #, color #1

C 2: Mfg, product #, color #2

CT: CERAMIC TILE

CT 1: Mfg, product #, color #1

CT 2: Mfg, product #, color #2

EXP: EXPOSED

G: GROUT

G 1: Mfg, product #, color

FLAM: PLASTIC LAMINATE

FLAM 1: Mfg, product #, color

COLOR SCHEMES

Scheme 1: Room #101, #108

Scheme 2: Room #102

Scheme 3: Room #103, #107

P: PAINT

P 1: Mfg, product #, color #1

P 2: Mfg, product #, color #2

QT: QUARRY TILE

QT 1: Mfg, product #, color

RB: RESILIENT BASE

RB 1: Mfg, product #, color #1

RB 2: Mfg, product #, color #2

SWC: SYNTHETIC WALL COVERING

SWC 1: Mfg, product #, color

VCT: VINYL COMPOSITION TILE

VCT 1: Mfg, product #, color

VWC: VINYL WALL COVERING

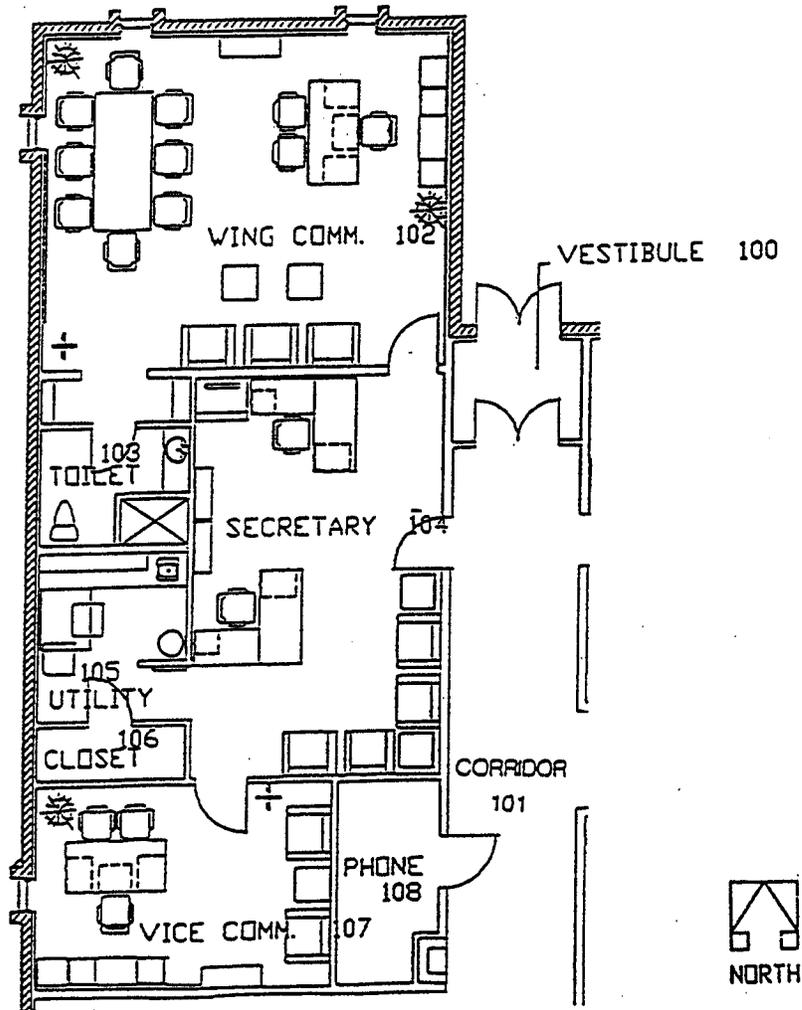
VWC 1: Mfg, product #, color #1

VWC 2: Mfg, product #, color #2

Scheme 4: Room #104

Scheme 5: Room #105, #106

EXAMPLE FLOOR PLAN

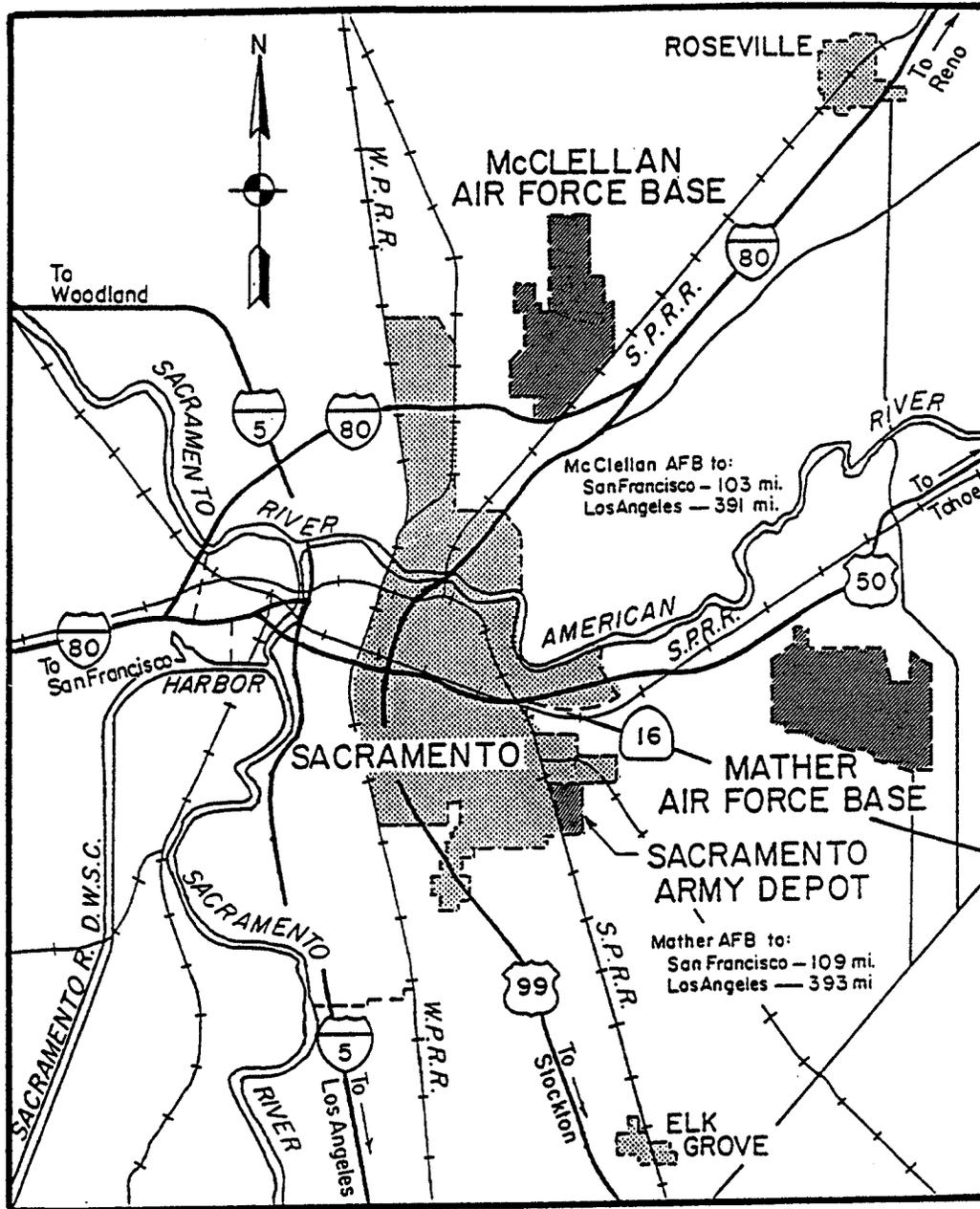


See Interior Finish Schedule and Color Finish Legend on previous pages for example of application.

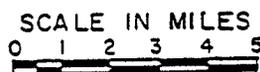
SAMPLE EXTERIOR COLOR SCHEDULE

EXTERIOR COLOR SCHEDULE					
WALLS	PILASTERS	SOFFITS	DOORS	RAILINGS	STOREFRONT FRAMING
CONCRETE MASONRY UNITS 34410 LIGHT GREEN	CONCRETE 34424 GRAY GREEN	STUCCO 34554 LIGHT - YELLOW - GREEN	STEEL 30252 LIGHT TAN - RED	STEEL 30109 DEEP TAN	ALUM MEDIUM BRONZE
<p>NOTES:</p> <p>GRAVEL STOPS, DOWNSPOUTS, LEADERS, LOUVERS, CAP FLASHING: 34410 (LIGHT GREEN)</p> <p>STEEL DOOR FRAMES: 34412 (MEDIUM GREEN)</p> <p>OTHER MISC. FERROUS METAL: 34554 (LIGHT YELLOW GREEN)</p> <p>INSUL. WALL PANELS: 20227 (MEDIUM BROWN)</p>					
<p><i>EXCEPT AS OTHERWISE DESIGNATED, COLORS ARE DESIGNATED BY FEDERAL STANDARD 595 AND ARE FOR COLOR ONLY. GLOSS SHALL BE DETERMINED FROM APPROPRIATE SPECIFIED MATERIAL PUBLICATION. COLORS LISTED BY MANUFACTURERS ARE FOR IDENTIFICATION PURPOSES ONLY, AND ARE NOT INTENDED TO LIMIT SELECTIONS TO PRODUCTS OF THE MANUFACTURERS INDICATED. AN EXACT MATCH FOR MANUFACTURERS COLORS IS NOT REQUIRED; THE SELECTIONS SERVE ONLY TO INDICATE THE COLOR WHICH THE MANUFACTURERS STANDARD MUST APPROACH.</i></p>					

SAMPLE VICINITY MAP

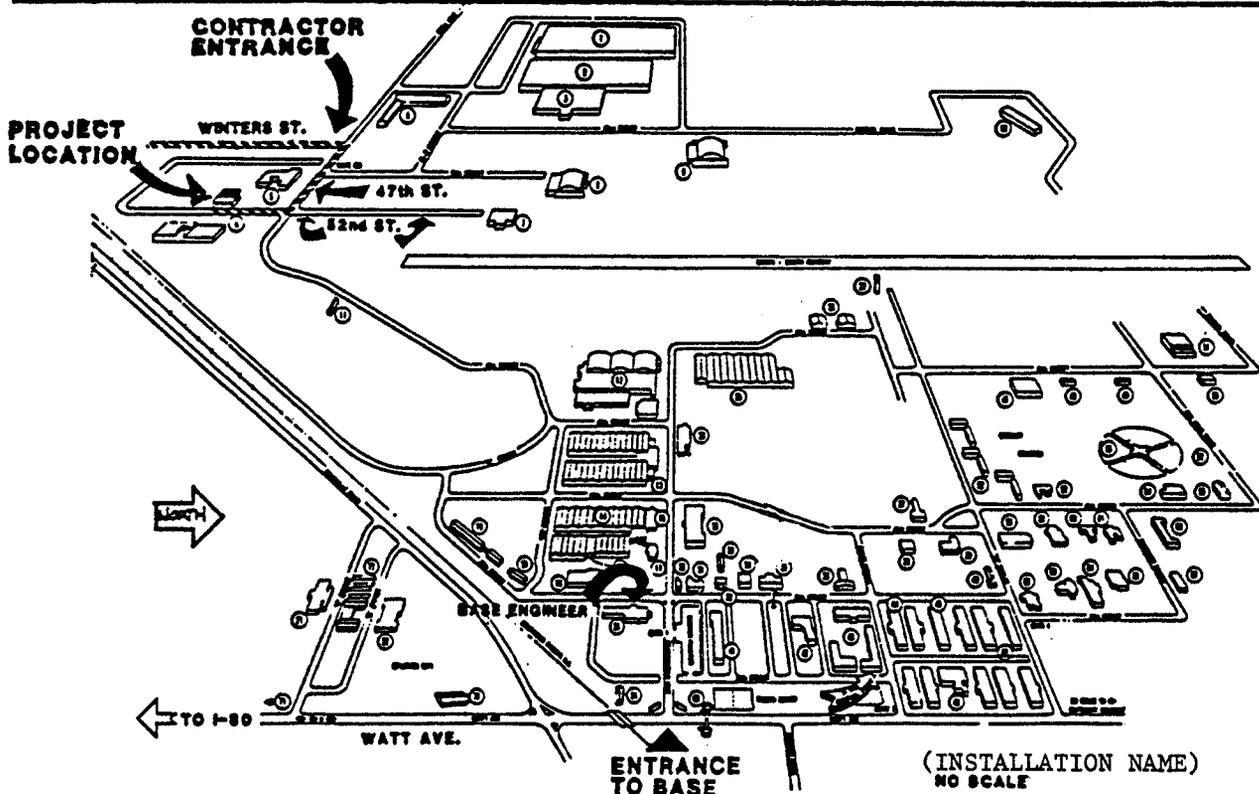


VICINITY MAP



SAMPLE PROJECT LOCATION MAP

PROJECT LOCATION MAP



CONTRACTOR ACCESS NOTES

1. CONTRACTORS ACCESS TO SITE VIA WINTERS ST. FROM US 500 USE GATE 000 & PROCEED EAST ON 47TH ST. TO 52ND ST. TURN RIGHT ONTO 52ND ST. & PROCEED TO BLDG. SITE
2. CLEARANCE REQ'D FOR ACCESS TO BASE BY ARMY CORPS OF ENGINEERS
3. TRASH HANDLING SYSTEM NOT AVAILABLE TO CONTRACTOR DISPOSAL REQ'D OFF BASE IN ACCORDANCE W/ LOCAL COGS.
4. BORROW & DISPOSAL AREAS NOT AVAILABLE ON BASE TO THE CONTRACTOR. REQ'D DISPOSAL WILL OCCUR OFF BASE IN ACCORDANCE W/ LOCAL COGS.
5. CONTRACTOR EQUIPMENT & MATERIAL STORAGE AREA AVAILABLE NEXT TO SITE. NO COVERED STORAGE AVAILABLE. CONTRACTOR RESPONSIBLE FOR SECURITY THEREOF.
6. UTILITIES AVAILABLE TO CONTRACTOR: ELECTRIC POWER AND WATER. COST COORDINATED W/ ARMY CORPS OF ENGINEERS.

SHOW THE FOLLOWING LOCATIONS FOR AIR FORCE PROJECTS.

1. CORPS RESIDENT OFFICE
2. CONTRACTOR ENTRANCE
3. DIRECTOR OF ENGINEERING AND HOUSING
4. SECURITY POLICE OFFICE
5. PROVIDE NOTE DESCRIBING LOCATION OF THE EMERGENCY MEDICAL FACILITY AND PHONE NO.
6. CONTRACTOR'S EQUIPMENT YARD
7. BORROW AND DISPOSAL AREA
(IF THERE IS NO BORROW OR DISPOSAL AREAS ON THE FACILITY PROVIDE A NOTE TO THAT EFFECT)
8. HAUL ROUTE - HIGHLIGHT HAUL ROUTE



SAFETY PAYS



DRAWING REDUCED



US Army Corps
of Engineers
Sacramento District

PHYSICALLY HANDICAPPED CHECKLIST

PROJECT: _____

INSTALLATION: _____ FY: _____ PN: _____

SPECIFICATION NO.: _____

	ASSIGNED PERSONNEL		VISITORS	
	MEN	WOMEN	MEN	WOMEN
NON-AMBULATORY: wheelchairs				
SEMI-AMBULATORY: braces or crutches, amputees, arthitics, spastics, pulmonary or cardiac ill				
MANUAL: loss of upper extremities				
VISUAL: total or near total blindness				
AUDITORY:				
COORDINATION: faulty or palsy from brain, spinal, or peripheral nerve injury				

(Fill in only "YES" or "NO" in each of the above boxes)

PROJECT MANAGER

DATE



US Army Corps
of Engineers
Sacramento District

ENVIRONMENTAL PERMITS MATRIX

PROJECT _____

INSTALLATION _____ FY: _____ PN: _____

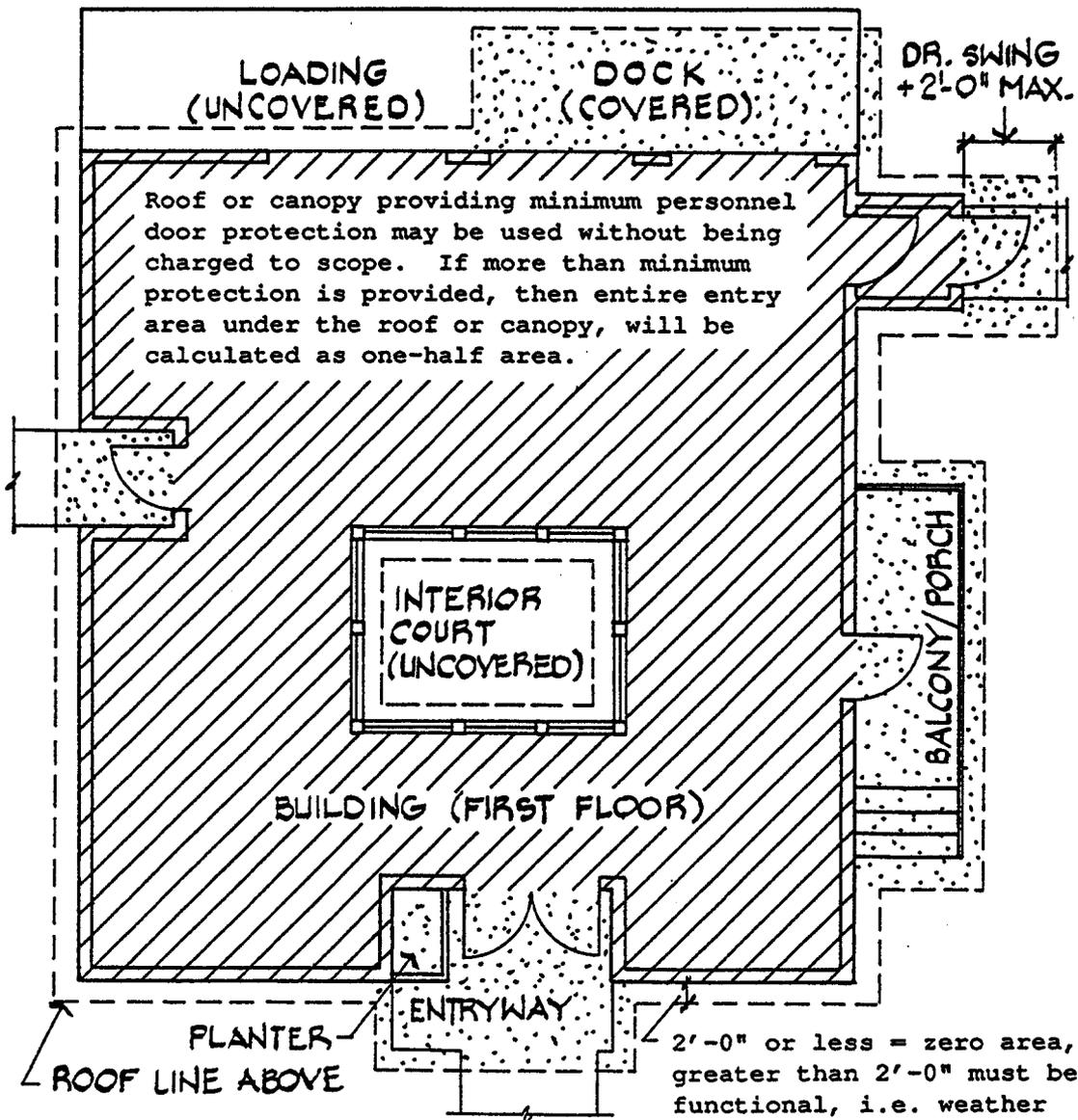
COMPLETED AT _____ 30% _____ 60% PRELIMINARY DESIGN.

TYPE OF PERMIT	PERMITTING ACTION				PIECE OF EQUIPMENT OR OPERATION	PERMITTING AUTHORITY CONTACTED AND DATE	PERMIT FEE
	REQ'D Y/N	NUMBER OF PERMITS	TIME REQ'D FOR PERMIT (DAYS)				
			PREP	APP			
AIR QUALITY							
WATER QUALITY							
SOLID WASTE							
HAZARDOUS WASTE 1.							
OTHER 2.							

1. INCLUDES UNDERGROUND TANK PERMITS FOR FUELS AND OTHER HAZARDOUS MATERIALS.
2. OTHER REQUIREMENTS MIGHT INCLUDE: ARCHAEOLOGICAL/CULTURAL RESOURCE CLEARANCE, STATE HISTORICAL PRESERVATION OFFICE (SHPO) COORDINATION, FEDERAL AVIATION ADMINISTRATION (FAA) COORDINATION, AND ETC...

NOTE: SEE APPENDIX C FOR SPECIFIC INSTRUCTIONS FOR COMPLETING THIS FORM.

INSTRUCTIONS FOR COMPLETING GROSS AREA TAKEOFF



LEGEND

- FULL AREA
- HALF AREA
- ZERO AREA

First Floor	_____ S.F.
1/2 Cov. Load. Dock	_____ S.F.
1/2 Cov. Balcony	_____ S.F.
1/2 cov. Entryway	_____ S.F.
 Total Gross Area	 _____ S.F.



US Army Corps
of Engineers
Sacramento District

COVER SHEET for ARMY PROJECTS

DATE _____

INSTALLATION: _____

JOB TITLE: _____

PROJECT NUMBER: _____

DOCUMENT DESCRIPTION: (Design Analysis, Specification, Cost Estimate, etc...)

SACRAMENTO DISTRICT:

DRAWING FILE NUMBER: _____

SPECIFICATION NUMBER: _____

NUMBER OF SHEETS TOTAL: _____

NUMBER OF SHEETS BY VOLUME.

VOL. 1 _____

VOL. 2 _____

VOL. 3 _____

REMARKS: COE Project Manager: _____

A/E Firm: _____

AIR CONDITIONING LOAD ESTIMATE				DATE	BASE	ESTIMATOR	PAGE	OF	PAGES		
BUILDING NO.	SPACE NO.	SPACE USE			AREA		DAILY OPERATION				
ITEM	QUANTITY	GAIN	FACTOR	BTU/HR	DAILY RANGE	F	ELEV	FT	LAT	O	
SOLAR GAIN GLASS							ESTIMATE FOR		SUN TIME		
GLASS	SF X	X			<input type="checkbox"/> PEAK LOAD					HR	
GLASS	SF X	X			<input type="checkbox"/> PARTIAL LOAD						
GLASS	SF X	X			CONDITIONS	DB	WB	% RH	DP	GR PER LB	
GLASS	SF X	X			OUTSIDE						
					ROOM						
					DIFFERENCE		XXX	XXX	XXX		
SOLAR & TRANS-WALLS & ROOF							SELECTED ROOM CONDITIONS DB WB % RH				
WALL	SF X	X			OUTSIDE AIR						
WALL	SF X	X			VENTILATION REQ'D	SMOKING PERMITTED	PEOPLE X	CFM PERSON	=		
WALL	SF X	X				SMOKING NOT PERMITTED	PEOPLE X	CFM PERSON	=		
WALL	SF X	X				AREA	SF X	CFM SF	=		
ROOF	SF X	X						REQ'D	CFM		
TRANSMISSION GAIN-OTHER											
ALL GLASS	SF X	FX			INFILTRATION	CRACK	FT X	CFM FT	=		
PARTITION	SF X	FX				DOORS	F X	CFM DOOR	=		
CEILING	SF X	FX									
FLOOR	SF X	FX									
O.A. INFIL	CFM X	FX 1.08									
INTERNAL HEAT											
PEOPLE		X			EXH FAN				=		
POWER		X								=	
LIGHTS	WATTS X 3.4	X								=	CFM
						TOTAL O.A. THRU COOLING COIL = _____ CFM					
SEN. HT. SUBTOTAL						<i>Coordination of cooling design and heating design is essential and a study of the heating estimate should be made at this time.</i>					
STORAGE CREDIT - SEE NOTE _____						APPARATUS DEWPOINT TEMPERATURE					
ROOM SENSIBLE HEAT						ESHF =	EQUIV SEN HT	=	0. _____		
SUPPLY DUCT HEAT GAIN	% +	SUPPLY DUCT LEAKAGE	% +	SUPPLY FAN H.P.	%		EQUIV TOTAL HT	=	_____		
O.A.	CFM X	FX	B.F. X 1.08				INDICATED ADP =	_____ F.	SELECTED ADP =	_____ F	
EQUIVALENT SENSIBLE HEAT						COIL AIR QUANTITY					
LATENT HEAT						SYSTEM ΔT = (1- _____ SF) (TRM F-TADP F) = _____ F					
INFILTRATION	CFM X	G/LB X 0.68				CFM =	EQUIV SEN HT	=	_____		
PEOPLE		X				1.08 X	F SELECTED ΔT	=	_____		
ROOM SENSIBLE HEAT						ROOM SUPPLY AIR					
VAPOR TRANSMISSION - SEE NOTE						1.08 X	ROOM SEN HEAT	=	_____	CFM	
ROOM LATENT HEAT						F SELECTED ROOM ΔT					
SUPPLY DUCT LEAKAGE GAIN						REHEAT REQ'D _____ BTU/HR - SEE NOTE _____					
O.A.	CFM X	G/LB X	B.F. X 0.68		NOTES (REF AFM 86-15, ATCH 13)						
EQUIVALENT LATENT HEAT											
EQUIVALENT TOTAL HEAT											
O. A. HEAT											
SEN.	CFM X	FX (1- _____ SF) X 1.08			SUMMARY		CHECK FIGURES				
LAT.	CFM X	G/LB X (1- _____ SF) X 0.68			S.A.	=	CFM	SF/TON	=	_____	
RETURN DUCT HEAT GAIN	% +	RETURN DUCT AIR GAIN	% +	RETURN/SUPPLY FAN H.P.	O.A.	=	CFM	S.A./SF	=	_____	
COOLING COIL GRAND TOTAL HEAT						EXH AIR	=	CFM	O.A./S.A.	=	_____ %
PUMP H.P.	% +	PIPING HEAT GAIN	%		REF EQUIP	=	TONS				
REF EQUIPMENT GRAND TOTAL HEAT											

LIFE CYCLE COST ANALYSIS SUMMARY

LOCATION: _____ REGION NO: _____ PROJECT NO: _____

PROJECT TITLE: _____ FY: _____

DISCRETE PORTION NAME: _____

ANALYSIS DATE: _____ ECONOMIC LIFE: _____ YEARS PREPARED BY: _____

1. INVESTMENT

A. CONSTRUCTION COST \$ _____
 B. GOVERNMENT SIOH \$ _____
 C. DESIGN COST \$ _____
 D. ENERGY CREDIT CALC (1A+1B=1C)X.9 \$ _____
 E. SALVAGE VALUE \$ _____
 F. TOTAL INVESTMENT (1D-1E) ----->\$ _____

2. ENERGY COST:

	(1)	(2)	(3)	(4)	(5)
	<u>ANNUAL UNITS</u>				
<u>FUEL</u>	<u>UNIT COST</u>	<u>OF ENERGY</u>	<u>ANNUAL \$</u>	<u>DISCOUNT</u>	<u>DISCOUNTED</u>
	<u>\$/MBTU</u>	<u>MBTU/YR</u>	<u>COST</u>	<u>FACTOR</u>	<u>COST</u>
A. ELEC	\$ _____	_____	\$ _____	_____	\$ _____
B. DIST	\$ _____	_____	\$ _____	_____	\$ _____
C. RESID	\$ _____	_____	\$ _____	_____	\$ _____
D. NG	\$ _____	_____	\$ _____	_____	\$ _____
E. COAL	\$ _____	_____	\$ _____	_____	\$ _____
F. TOTAL		_____	\$ _____		----->\$ _____

3. NON ENERGY COST:

A. ANNUAL RECURRING COST: \$ _____
 (1) DISCOUNT FACTOR: _____
 (2) DISCOUNTED COST (3A X 3A1): \$ _____

B. NON-RECURRING COST:

	(1)	(2)	(3)	(4)
<u>ITEM</u>	<u>COST</u>	<u>YEAR OF</u>	<u>DISCOUNT</u>	<u>DISCOUNTED</u>
		<u>OCCURANCE</u>	<u>FACTOR</u>	<u>COST</u>
a. _____	\$ _____	_____	_____	\$ _____
b. _____	\$ _____	_____	_____	\$ _____
c. _____	\$ _____	_____	_____	\$ _____
d. TOTAL	\$ _____			----->\$ _____

C. TOTAL NON ENERGY DISCOUNTED COST (3A2 + 3Bd4): \$ _____

4. LIFE CYCLE COST (1F + 2F5 + 3C): \$ _____