



DEPARTMENT OF THE ARMY



US Army Corps
of Engineers
Louisville District

FACILITIES STANDARDIZATION PROGRAM

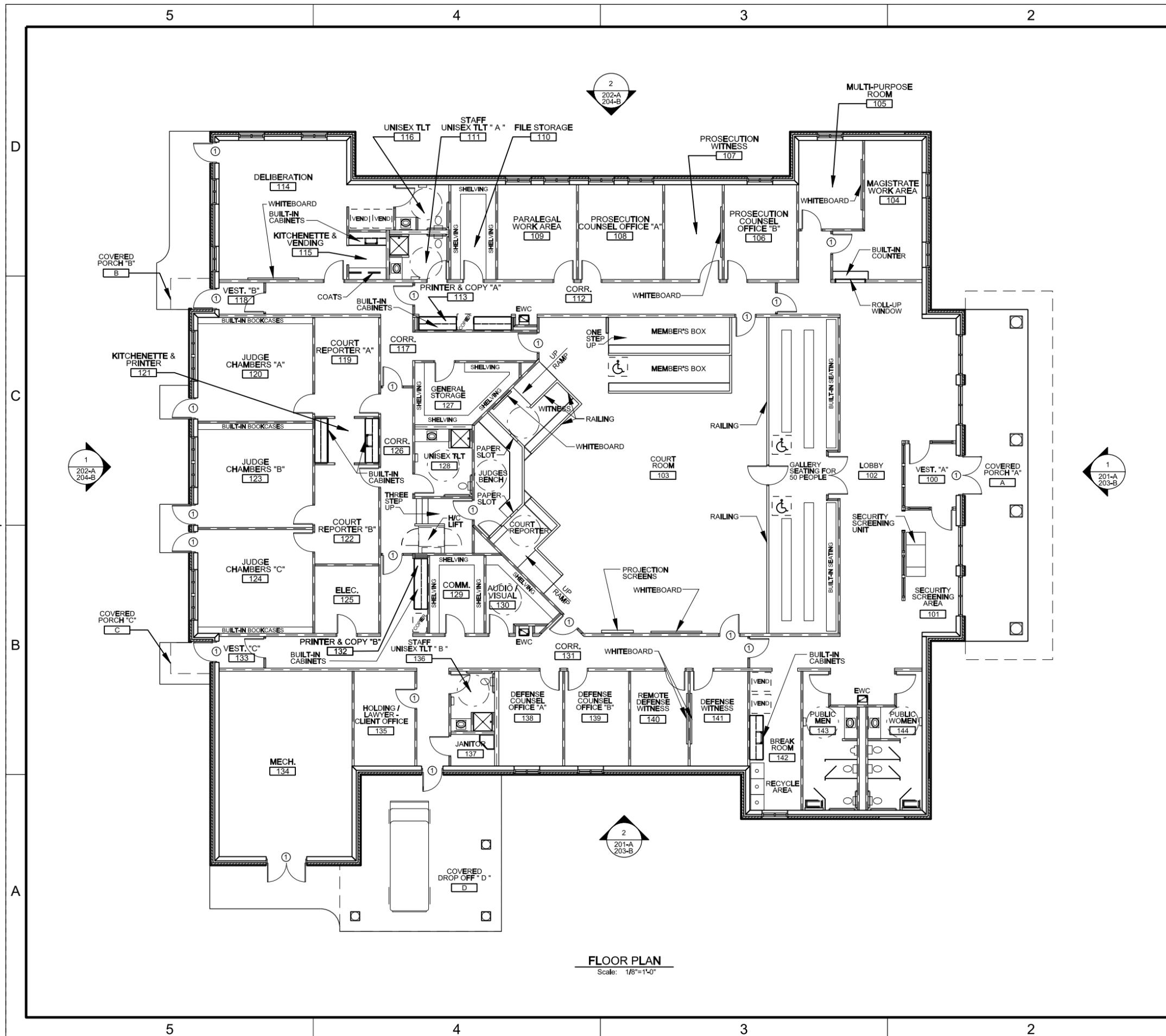
JUDICIAL CENTER (JC) STANDARD DESIGN

DATE: 1 SEPTEMBER 2009



NOTE: THIS RENDERING REPRESENTS ONE OF MANY POSSIBLE ARCHITECTURAL SCHEMES FOR A JUDICIAL CENTER (JC). THE DESIGNER OF RECORD IS ENCOURAGED TO UTILIZE INSTALLATION, REGIONAL AND CLIMATIC CRITERIA TO INFLUENCE THE DESIGN.

INDEX OF DRAWINGS		INTRODUCTION / SCOPE	
GENERAL JC-G001 COVER SHEET	INTERIORS JC-I101 JUDICIAL CENTER FURNITURE PLAN	 PROPONENT: ARMY JAG CATEGORY CODE: 61075 DESCRIPTION: COURTROOM BUILDING DATA: ONE STORY FACILITY - 12,620 GSF	GENERAL INFORMATION: FACILITY REQUIREMENTS ARE PREDICATED ON CURRENT FORCE STRUCTURE ALIGNMENTS BEING ESTABLISHED FOR JUDICIAL CENTERS (JC) IN ACCORDANCE TO ARMY JAG REQUIREMENTS.
CIVIL JC-C100 JUDICIAL CENTER SITE PLAN	STRUCTURAL, MECHANICAL, ELECTRICAL JC-X001 JUDICIAL CENTER STANDARD DESIGN CRITERIA JC-X002 JUDICIAL CENTER STANDARD DESIGN CRITERIA, CONT. JC-X003 JUDICIAL CENTER STANDARD DESIGN CRITERIA, CONT. JC-X004 JUDICIAL CENTER STANDARD DESIGN CRITERIA, CONT.		APPLICABILITY DESIGN: THIS ARMY STANDARD DESIGN APPLIES TO THE PLANNING, DESIGN, AND CONSTRUCTION OF ALL JUDICIAL CENTERS (JC) INCLUDING COURTROOMS AND SUPPORT SPACES FOR THE PURPOSE OF ADMINISTERING MILITARY JUSTICE AND MAGISTRATE FUNCTIONS. THE ARMY STANDARD DESIGN APPLIES TO ARMY FACILITIES WORLDWIDE.
ARCHITECTURAL JC-A101 JUDICIAL CENTER FLOOR PLAN JC-A201A JUDICIAL CENTER ELEVATIONS: (OPTION A) JC-A202A JUDICIAL CENTER ELEVATIONS: (OPTION A) JC-A203B JUDICIAL CENTER ELEVATIONS: (OPTION B) JC-A204B JUDICIAL CENTER ELEVATIONS: (OPTION B)	DRAWING DISCLAIMER: THE CONCEPTUAL PLANS INCLUDED IN THIS PACKAGE ARE SUBJECT TO CHANGE WITHOUT NOTICE. DESIGNERS AND OTHER STAKEHOLDERS ARE HEREBY DIRECTED TO ENSURE THEY HOLD THE LATEST UPDATE. CONTACT THE LOUISVILLE DISTRICT CENTER OF STANDIZATION (COS) FOR ANY INFORMATION REGARDING THE STANDARDS.	ALL USACE GEOGRAPHIC DISTRICTS SHALL INCORPORATE THE MANDATORY DESIGN CRITERIA DESCRIBED HEREIN IN CLOSE COORDINATION WITH THE LOUISVILLE DISTRICT CENTER OF STANDIZATION (COS) FOR JUDICIAL CENTERS (JC). ALL JUDICIAL CENTER (JC) OR COURTROOM PROJECTS MUST BE REVIEWED BY THE COS TO ENSURE CONFORMANCE WITH THE ARMY STANDARD.	THE STANDARD DESIGN PACKAGE IS BASED ON REQUIREMENTS ESTABLISHED FOR THE DEPARTMENT OF THE ARMY FACILITIES STANDARDIZATION PROGRAM. THE LOUISVILLE DISTRICT (http://www.lrl.usace.army.mil/), IS THE U.S. ARMY CORPS OF ENGINEERS (USACE) CENTER OF STANDARDIZATION RESPONSIBLE FOR DOCUMENTING AND MANDATING JUDICIAL CENTER STANDARDS AND CRITERIA.
			CO-LOCATION (THE FOLLOWING IS NON-WAIVERABLE CRITERIA PER THE ARMY STANDARD (AS): CO-LOCATION OF A JUDICIAL CENTER WITH FUNCTIONS AND OPERATIONS OTHER THAN THOSE OF THE STAFF JUDGE ADVOCATE (IN ACCORDANCE WITH AR 27-1, LEGAL SERVICES) IS PROHIBITED PER THE ARMY STANDARD (AS).
			RENOVATIONS (THE FOLLOWING IS NON-WAIVERABLE CRITERIA PER THE ARMY STANDARD (AS): RENOVATED FACILITIES SHALL MEET FUNCTIONAL REQUIREMENTS FOR THE COURTROOM, DELIBERATION ROOM AND JUDGES CHAMBERS INCLUDING ALL TECHNOLOGY AND ACCESS CONTROL POINT REQUIREMENTS CONTAINED IN THE ARMY STANDARD (AS). A NEW FACILITY MUST BE PROVIDED IF RENOVATION CRITERIA CAN NOT BE MET.
			SHEET REFERENCE NUMBER: JC-G001 SHEET <u>1</u> OF <u>12</u>



FLOOR PLAN
Scale: 1/8"=1'-0"

JUDICIAL CENTER REQUIREMENTS:

A JUDICIAL CENTER FACILITY SHALL INCLUDE A COURTROOM, JUDGE'S CHAMBERS, STAFF AREAS, DELIBERATION SUITE, SUPPORT AREAS AND PUBLIC AREAS.

A. COURTROOM: THE COURTROOM SHALL BE THE FOCAL POINT OF THE JUDICIAL CENTER FACILITY. ALL FUNCTIONAL AREAS SHOULD EVOLVE AROUND THE COURTROOM. THE COURTROOM MUST BE CONFIGURED AS A SINGLE UNOBSTRUCTED AND OPEN SPACE ENABLING PRESENTATION OF EVIDENCE BY DEFENSE AND PROSECUTION COUNSEL WHILE ALLOWING EVIDENCE TO BE HEARD BY JUDGE, ACCUSED, COURT REPORTER, PANEL MEMBERS AND THE GENERAL PUBLIC.

B. JUDGE'S SUITE: JUDGE'S CHAMBERS, COURT REPORTERS AND SUPPORT FACILITIES ARE INCLUDED IN THE JUDGE'S SUITE AND SHOULD BE LOCATED ADJACENT TO THE COURTROOM. A DIRECT ENTRANCE MUST BE PROVIDED FROM THE JUDGE'S SUITE TO THE JUDGE'S BENCH INSIDE THE COURTROOM.

C. STAFF AREAS: PROSECUTION AND DEFENSE COUNSEL OFFICES MUST BE ORGANIZED IN SEPARATE AREAS TO MINIMIZE INTERACTION OUTSIDE OF THE COURTROOM.

D. DELIBERATION SUITE: THE DELIBERATION SUITE SHALL BE ADJACENT TO THE COURTROOM WITH A DIRECT ROUTE FROM THE MEMBER'S BOX IN THE COURTROOM DURING TRIAL.

E. SUPPORT SPACES: THE BUILDING GROSS AREA INCLUDES PUBLIC CIRCULATION, PARTITIONS, MECHANICAL AND ELECTRICAL ROOMS, PUBLIC CORRIDORS AND LOBBIES, PUBLIC AND PRIVATE TOILETS, AND OTHER AREAS.

F. PUBLIC AREAS: GENERAL PUBLIC ACCESS MUST BE PROVIDED FOR JUDICIAL CENTERS. A SECURITY SCREENING AREA MUST BE LOCATED AT THE MAIN ENTRANCE TO CONTROL ACCESS INTO THE BUILDING. A LOBBY AREA SHOULD BE PROVIDED FOR PUBLIC WAITING SEATING AND SERVICE AS CIRCULATION TO THE COURTROOM, GALLERY AND OTHER SPACES.

FUNCTIONAL SPACE REQUIREMENTS MATRIX:

ARMY STANDARD FOR JUDICIAL CENTERS WITH COURTROOM AND PROPOSED ARMY STANDARD DESIGN (SD) FLOOR PLAN
U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT

ROOM	MANDATORY SPACE REQUIREMENTS	PROPOSED SD NSF
101	SECURITY SCREENING AREA	155
102	LOBBY	1,021
103	COURTROOM	2,581
104	MAGISTRATE WORK AREA	236
105	MULTI-PURPOSE ROOM	140
106	PROSECUTION OFFICE "B"	170
107	PROSECUTION WITNESS	135
108	PROSECUTION COUNSEL OFFICE "A"	198
109	PARALEGAL WORK AREA	185
110	FILE STORAGE	105
111	PRINTER & COPY "A"	29
114	DELIBERATION	491
119	COURT REPORTER "A"	157
120	JUDGE CHAMBERS "A"	296
122	COURT REPORTER "B"	157
123	JUDGE CHAMBERS "B"	296
124	JUDGE CHAMBERS "C"	296
127	GENERAL STORAGE	108
130	AUDIO / VISUAL ROOM	89
132	PRINTER & COPY "B"	24
135	HOLDING ROOM / LAWYER-CLIENT OFFICE	143
138	DEFENSE COUNSEL OFFICE "A"	150
139	DEFENSE COUNSEL OFFICE "B"	150
140	REMOTE DEFENSE WITNESS	135
141	DEFENSE WITNESS	135
142	BREAK ROOM	176
SUBTOTAL: (NSF)		7,758

ROOM	SUPPORT SPACE REQUIREMENTS	PROPOSED SD NSF
100	VESTIBULE "A"	80
111	STAFF UNISEX TOILET "A"	65
112, 117, 125, 131	CORRIDOR (TOTAL FACILITY)	1,296
115	KITCHENETTE & CLOSET	44
116	DELIBERATION UNISEX TOILET	59
118	VESTIBULE "B"	35
121	KITCHENETTE & PRINTER	70
125	ELECTRICAL ROOM	107
128	JUDGE CHAMBERS UNISEX TOILET	94
129	COMMUNICATIONS ROOM	105
133	VESTIBULE "C"	35
134	MECHANICAL ROOM	611
136	STAFF UNISEX TOILET "B"	63
137	JANITOR CLOSET	34
143	PUBLIC MENS RESTROOM	161
144	PUBLIC WOMENS RESTROOM	161
SUBTOTAL: (NSF)		3,019

ROOF AREA	COVERED AREAS; CALCULATED AS HALF SCOPE	PROPOSED SD NSF
A	COVERED PORCH	701
B	COVERED PORCH	30
C	COVERED PORCH	30
D	COVERED DROP OFF	575
SUBTOTAL: (NSF)		1,336
HALF SCOPE SUBTOTAL: (NSF)		668

SUMMARY OF SQ FT REQUIREMENTS	PROPOSED SD NSF
MANDATORY SPACE NSF SUBTOTAL:	7,758
SUPPORT SPACE NSF SUBTOTAL:	3,019
WALLS THICKNESS FOR DETERMINING GROSS AREA	1,174
COVERED AREAS NSF SUBTOTAL:	668
TOTAL GROSS SQ FT	12,620

GENERAL NOTES:

A. FUNCTIONAL SPACE REQUIREMENTS CAN BE REFERENCED IN SHEETS X001, X002, X003 AND X004; JUDICIAL CENTER STANDARD DESIGN CRITERIA.

KEY LEGEND:

① CONTROL ACCESS HARDWARE REQUIRED

GRAPHIC SCALE

8 6 4 2 0 8 16 FT

SCALE: 1/8"=1'-0"



Revisions	Date	Description

Designed by:	COE LOUISVILLE DISTRICT	Date:	1 SEPTEMBER 2009
Drawn by:	BRAD ALLEN	Scale:	1/8" = 1'-0"
Checked by:	DOUG POHL / RONNIE PRIDE	Drawing Code:	
Project Engineer/Architect		Date	

FLOOR PLAN

DEPARTMENT OF THE ARMY
FACILITY STANDARDIZATION PROGRAM
**PRE-FINAL DOCUMENTS
JUDICIAL CENTER (JC)
STANDARD DESIGN**

SHEET REFERENCE NUMBER:
JC-A101
SHEET 3 OF 12

5

4

3

2

1

D

C

B

A

D

C

B

A

ELEVATION DESIGN OBJECTIVES:

1. THE EXTERIOR ELEVATIONS ARE AN EXAMPLE OF SUGGESTED MASSING AND DO NOT MANDATE AN ARCHITECTURAL THEME OR THE USE OF SPECIFIC MATERIALS. THE SELECTION OF MATERIALS FOR THE EXTERIOR ENVELOPE SHOULD BE GUIDED BY LOCAL CLIMATE AND GEOGRAPHIC CONDITIONS, LOCAL CONSTRUCTION PRACTICES, AVAILABILITY OF CONSTRUCTION MATERIALS AND OTHER ECONOMIC CONSIDERATIONS. THE EXTERIOR ENVELOPE MUST BE ANALYZED TO ASSURE CONFORMANCE WITH THE INSTALLATION ARCHITECTURAL THEME AS DESCRIBED IN THE INSTALLATION DESIGN GUIDE AND OTHER DESIGN REQUIREMENTS.
2. THE INTENT IS TO ALLOW DESIGNERS THE MAXIMUM DEGREE OF FLEXIBILITY IN AESTHETIC DESIGN WHILE MANDATING FUNCTIONAL REQUIREMENTS FOR THE BUILDING LAYOUT. THE PRIMARY CONSIDERATION IS TO PROVIDE THERMAL PROTECTION ALONG WITH DURABLE INTERIOR AND EXTERIOR WALL SURFACES WITH APPROPRIATE AESTHETIC QUALITIES IN ORDER TO CREATE SUSTAINABLE AND FUNCTIONAL ARCHITECTURE.



US Army Corps of Engineers
Louisville District

Revisions	Symbol	Description	Date	Appr.

Designed by: COE LOUISVILLE DISTRICT	Date: 1 SEPTEMBER 2009
Drawn by: BRAD ALLEN	Scale: 1/8" = 1'-0"
Checked by: DOUG POHL / RONNIE PRIDE	Drawing Code:
Project Engineer/Architect	Date

SKETCH ELEVATIONS (OPTION A)

DEPARTMENT OF THE ARMY
FACILITY STANDARDIZATION PROGRAM
PRE-FINAL DOCUMENTS
JUDICIAL CENTER (JC)
STANDARD DESIGN

SHEET REFERENCE NUMBER:
JC-A201A
SHEET 4 OF 12

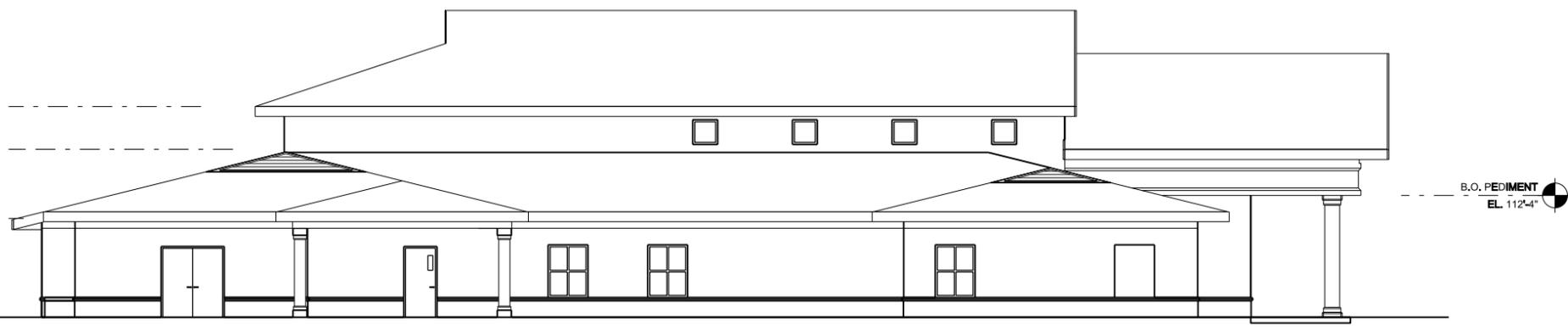
- T. O. STRUCTURAL EL. 121'-4"
- T. O. STRUCTURAL PEDIMENT EL. 117'-0"
- T. O. STRUCTURAL EL. 110'-0"
- FIRST FLOOR EL. 100'-0"



- B.O. PEDIMENT EL. 112'-4"

1 ELEVATION
1/8" = 1'-0"

- T. O. STRUCTURAL EL. 121'-4"
- T. O. STRUCTURAL EL. 117'-0"
- T. O. STRUCTURAL EL. 110'-0"
- FIRST FLOOR EL. 100'-0"



- B.O. PEDIMENT EL. 112'-4"

2 ELEVATION
1/8" = 1'-0"

GRAPHIC SCALE



SCALE: 1/8"=1'-0"

5

4

3

2

1

5

4

3

2

1

D

C

B

A

D

C

B

A

ELEVATION DESIGN OBJECTIVES:

1. THE EXTERIOR ELEVATIONS ARE AN EXAMPLE OF SUGGESTED MASSING AND DO NOT MANDATE AN ARCHITECTURAL THEME OR THE USE OF SPECIFIC MATERIALS. THE SELECTION OF MATERIALS FOR THE EXTERIOR ENVELOPE SHOULD BE GUIDED BY LOCAL CLIMATE AND GEOGRAPHIC CONDITIONS, LOCAL CONSTRUCTION PRACTICES, AVAILABILITY OF CONSTRUCTION MATERIALS AND OTHER ECONOMIC CONSIDERATIONS. THE EXTERIOR ENVELOPE MUST BE ANALYZED TO ASSURE CONFORMANCE WITH THE INSTALLATION ARCHITECTURAL THEME AS DESCRIBED IN THE INSTALLATION DESIGN GUIDE AND OTHER DESIGN REQUIREMENTS.
2. THE INTENT IS TO ALLOW DESIGNERS THE MAXIMUM DEGREE OF FLEXIBILITY IN AESTHETIC DESIGN WHILE MANDATING FUNCTIONAL REQUIREMENTS FOR THE BUILDING LAYOUT. THE PRIMARY CONSIDERATION IS TO PROVIDE THERMAL PROTECTION ALONG WITH DURABLE INTERIOR AND EXTERIOR WALL SURFACES WITH APPROPRIATE AESTHETIC QUALITIES IN ORDER TO CREATE SUSTAINABLE AND FUNCTIONAL ARCHITECTURE.



US Army Corps of Engineers
Louisville District

Symbol	Description	Date	Appr.

Designed by: COE LOUISVILLE DISTRICT	Date: 1 SEPTEMBER 2009
Drawn by: BRAD ALLEN	Scale: 1/8" = 1'-0"
Checked by: DOUG POHL / RONNIE PRIDE	Drawing Code:
Project Engineer/Architect	Date

SKETCH ELEVATIONS (OPTION A)

DEPARTMENT OF THE ARMY
FACILITY STANDARDIZATION PROGRAM
PRE-FINAL DOCUMENTS
JUDICIAL CENTER (JC)
STANDARD DESIGN

SHEET REFERENCE NUMBER:
JC-A202A
SHEET 5 OF 12

T. O. STRUCTURAL
EL. 121'-4"

T. O. STRUCTURAL
EL. 117'-0"

T. O. STRUCTURAL
EL. 110'-0"

FIRST FLOOR
EL. 100'-0"



1 ELEVATION
A101
1/8" = 1'-0"

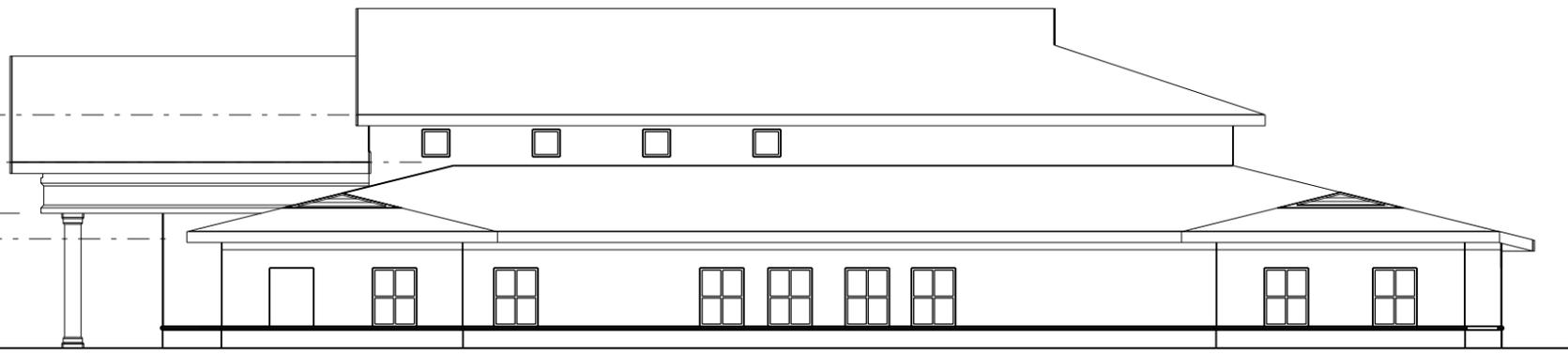
T. O. STRUCTURAL
EL. 121'-4"

T. O. STRUCTURAL
EL. 117'-0"

B. O. PEDIMENT
EL. 112'-4"

T. O. STRUCTURAL
EL. 110'-0"

FIRST FLOOR
EL. 100'-0"



2 ELEVATION
A101
1/8" = 1'-0"

GRAPHIC SCALE



SCALE: 1/8"=1'-0"

5

4

3

2

1

D

C

B

A

D

C

B

A

ELEVATION DESIGN OBJECTIVES:

1. THE EXTERIOR ELEVATIONS ARE AN EXAMPLE OF SUGGESTED MASSING AND DO NOT MANDATE AN ARCHITECTURAL THEME OR THE USE OF SPECIFIC MATERIALS. THE SELECTION OF MATERIALS FOR THE EXTERIOR ENVELOPE SHOULD BE GUIDED BY LOCAL CLIMATE AND GEOGRAPHIC CONDITIONS, LOCAL CONSTRUCTION PRACTICES, AVAILABILITY OF CONSTRUCTION MATERIALS AND OTHER ECONOMIC CONSIDERATIONS. THE EXTERIOR ENVELOPE MUST BE ANALYZED TO ASSURE CONFORMANCE WITH THE INSTALLATION ARCHITECTURAL THEME AS DESCRIBED IN THE INSTALLATION DESIGN GUIDE AND OTHER DESIGN REQUIREMENTS.
2. THE INTENT IS TO ALLOW DESIGNERS THE MAXIMUM DEGREE OF FLEXIBILITY IN AESTHETIC DESIGN WHILE MANDATING FUNCTIONAL REQUIREMENTS FOR THE BUILDING LAYOUT. THE PRIMARY CONSIDERATION IS TO PROVIDE THERMAL PROTECTION ALONG WITH DURABLE INTERIOR AND EXTERIOR WALL SURFACES WITH APPROPRIATE AESTHETIC QUALITIES IN ORDER TO CREATE SUSTAINABLE AND FUNCTIONAL ARCHITECTURE.



US Army Corps of Engineers
Louisville District

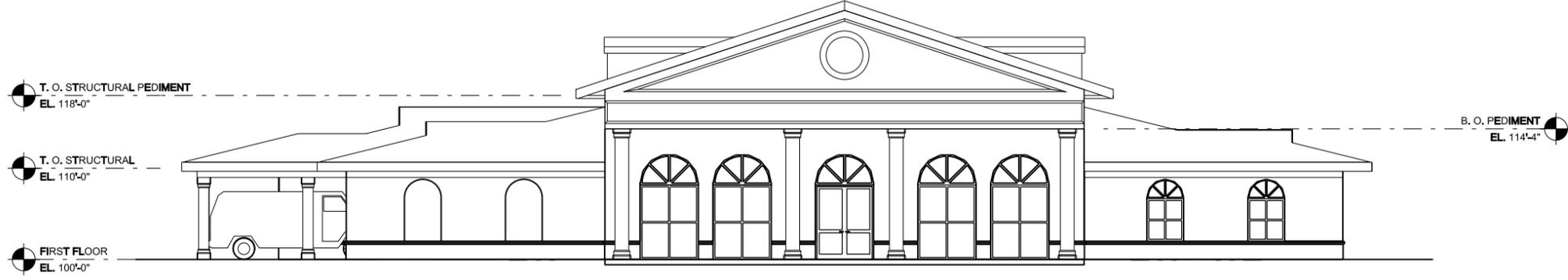
Symbol	Description	Date	Appr.

Designed by: COE LOUISVILLE DISTRICT	Date: 1 SEPTEMBER 2009
Drawn by: BRAD ALLEN	Scale: 1/8" = 1'-0"
Checked by: DOUG POHL / RONNIE PRIDE	Drawing Code:
Project Engineer/Architect	Date

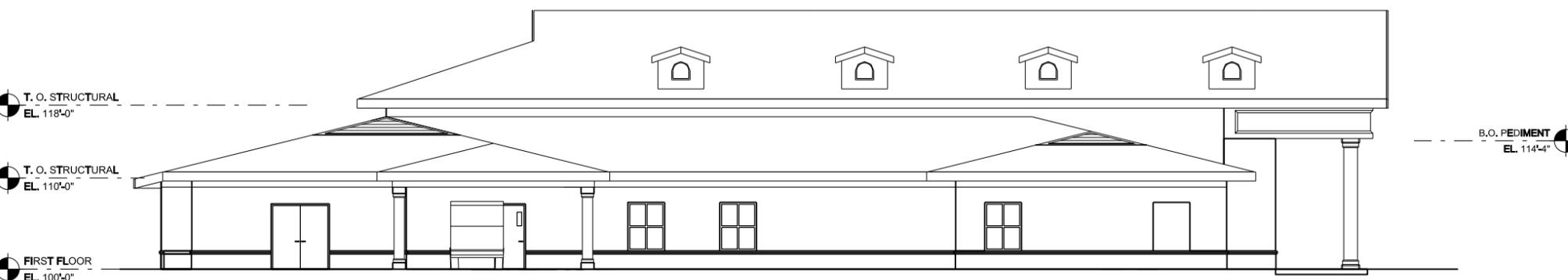
SKETCH ELEVATIONS (OPTION B)

DEPARTMENT OF THE ARMY
FACILITY STANDARDIZATION PROGRAM
PRE-FINAL DOCUMENTS
JUDICIAL CENTER (JC)
STANDARD DESIGN

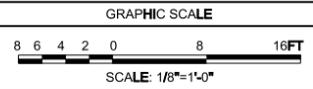
SHEET REFERENCE NUMBER:
JC-A203B
SHEET 6 OF 12

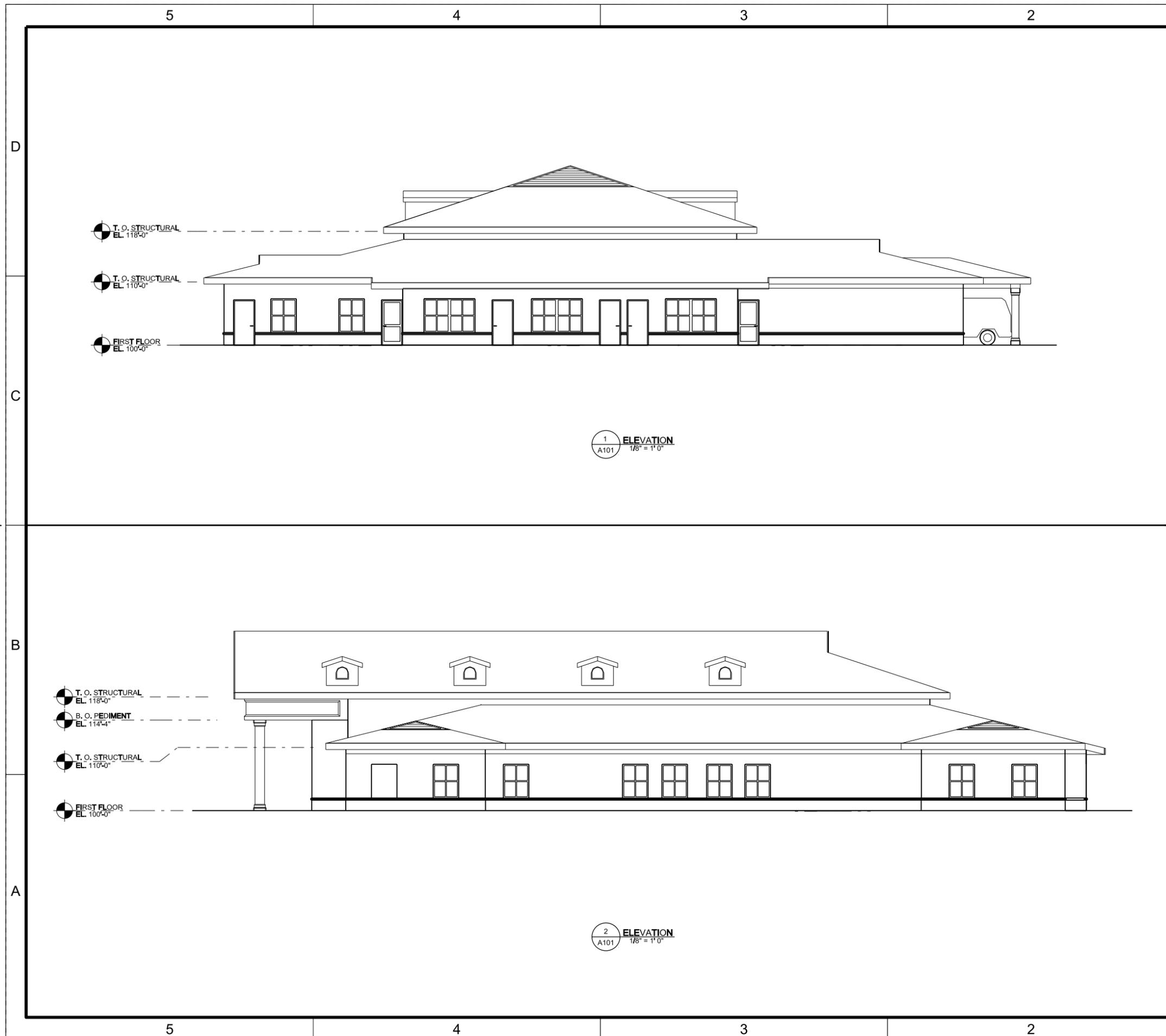


1 ELEVATION
1/8" = 1'-0"



2 ELEVATION
1/8" = 1'-0"





ELEVATION DESIGN OBJECTIVES:

1. THE EXTERIOR ELEVATIONS ARE AN EXAMPLE OF SUGGESTED MASSING AND DO NOT MANDATE AN ARCHITECTURAL THEME OR THE USE OF SPECIFIC MATERIALS. THE SELECTION OF MATERIALS FOR THE EXTERIOR ENVELOPE SHOULD BE GUIDED BY LOCAL CLIMATE AND GEOGRAPHIC CONDITIONS, LOCAL CONSTRUCTION PRACTICES, AVAILABILITY OF CONSTRUCTION MATERIALS AND OTHER ECONOMIC CONSIDERATIONS. THE EXTERIOR ENVELOPE MUST BE ANALYZED TO ASSURE CONFORMANCE WITH THE INSTALLATION ARCHITECTURAL THEME AS DESCRIBED IN THE INSTALLATION DESIGN GUIDE AND OTHER DESIGN REQUIREMENTS.
2. THE INTENT IS TO ALLOW DESIGNERS THE MAXIMUM DEGREE OF FLEXIBILITY IN AESTHETIC DESIGN WHILE MANDATING FUNCTIONAL REQUIREMENTS FOR THE BUILDING LAYOUT. THE PRIMARY CONSIDERATION IS TO PROVIDE THERMAL PROTECTION ALONG WITH DURABLE INTERIOR AND EXTERIOR WALL SURFACES WITH APPROPRIATE AESTHETIC QUALITIES IN ORDER TO CREATE SUSTAINABLE AND FUNCTIONAL ARCHITECTURE.



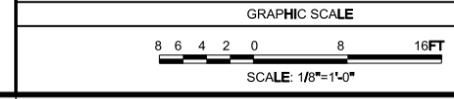
Symbol	Revisions	Date	Appr.

Designed by: COE LOUISVILLE DISTRICT	Date: 1 SEPTEMBER 2009
Drawn by: BRAD ALLEN	Scale: 1/8" = 1'-0"
Checked by: DOUG POHL / RONNIE PRIDE	Drawing Code:
Project Engineer/Architect	Date

SKETCH ELEVATIONS (OPTION B)

DEPARTMENT OF THE ARMY
FACILITY STANDARDIZATION PROGRAM
**PRE-FINAL DOCUMENTS
JUDICIAL CENTER (JC)
STANDARD DESIGN**

SHEET REFERENCE NUMBER:
JC-A204B
SHEET 7 OF 12



5		4		3					2		1
ROOM SPACE MATRIX	SPACE CHARACTERISTICS			FINISHES					REMARKS		
MANDATORY SPACE REQUIREMENTS	FUNCTION / DESCRIPTION	LIGHTING (SEE NOTE 3)	TECHNOLOGY / POWER	FLOOR	BASE	WALL	CEILING	MIN. CEILING HEIGHT			
D	COURTROOM	<p>THE COURTROOM SHALL BE DESIGNED AS THE FOCAL POINT OF THE JUDICIAL CENTER (JC) FACILITY. ALL FUNCTIONAL AREAS SHOULD REVOLVE AROUND THE COURTROOM. THE COURTROOM MUST BE CONFIGURED AS A SINGLE UNOBSTRUCTED AND OPEN SPACE, ENABLING PRESENTATION OF EVIDENCE BY DEFENSE AND PROSECUTION COUNSEL WHILE ALLOWING EVIDENCE TO BE HEARD BY JUDGE, ACCUSED, COURT REPORTER, PANEL MEMBERS AND THE GENERAL PUBLIC.</p> <p>THE COURTROOM SHALL INCLUDE THE FOLLOWING FUNCTIONS:</p> <ul style="list-style-type: none"> - JUDGE'S BENCH - COURT REPORTER BOX - MEMBER BOX - WITNESS STAND - COUNSEL TABLES - MOBILE LECTERN - WELL AREA - RAILING - GALLERY 	<p>1. COURTROOM LIGHTING CONTROLS MUST BE PLACED BEYOND THE GALLERY AREA IN THE COURT REPORTER BOX</p> <p>2. THE COURTROOM MUST HAVE CONTROLLABLE DIMMER SWITCHES.</p> <p>3. PROVIDE AT LEAST THREE LIGHT LEVELS. EACH SHALL BE DIMMABLE.</p>	<p>1. INTEGRATE STATE-OF-THE-ART ELECTRONIC AUDIO/VIDEO RECORDING AND COMMUNICATION TECHNOLOGIES INTO ALL COURTROOM ELEMENTS.</p> <p>2. THE JUDGE'S BENCH, COURT REPORTERS, BOX/MEMBER'S BOX, WITNESS STAND, AND WELL AREA SHALL BE OF PERMANENT CONSTRUCTION WITH DEDICATED POWER / AUDIO / VIDEO OUTLETS.</p> <p>3. THE COURTROOM REPORTER BOX SHALL INCLUDE CONTROLS FOR ALL COURTROOM LIGHTING, AUDIO / VISUAL TECHNOLOGIES.</p> <p>4. PROVIDE A SILENT DURESS ALARM BUTTON AT THE JUDGE'S BENCH, WITHIN IMMEDIATE REACH WHEN SEATED AND MOUNTED ON OR UNDER THE DESK.</p> <p>5. PROVIDE A RAISED FLOOR SYSTEM FOR DISTRIBUTION OF POWER, VOICE / DATA IN THE WELL AREA.</p>	CPT / RFS	WD	GWB / WD	ACT / GWB	16'-0"	<p>1. THE JUDGE'S BENCH SHALL BE THE FOCAL POINT OF THE COURTROOM WITH A CLEAR LINE-OF-SIGHT (COMPLETE AND UNOBSTRUCTED VIEW) OF THE COURT REPORTER, WITNESSES, PANEL MEMBERS, AND COUNSEL TABLES WHEN SEATED ON THE BENCH.</p> <p>2. COLUMNS WITHIN THE WELL AREA ARE STRICTLY PROHIBITED. COLUMNS WITHIN THE COURTROOM AREA ARE TO BE AVOIDED.</p> <p>3. GLAZED OPENINGS INTO THE COURTROOM ARE PROHIBITED UNLESS THE OPENINGS ARE FROM A CLERESTORY / DORMER WINDOWS (WHICH ALLOWS NATURAL LIGHT). IN THIS CASE THE CLERESTORY OR DORMER, WINDOWS MUST BE OF TRANSLUCENT BLAST RESISTANT GLAZING.</p> <p>5. UTILIZE ACOUSTIC WALL AND CEILING MATERIALS TO REDUCE SOUND REVERBERATION.</p> <p>6. THE USE OF FINISHED WOOD FEATURES AND APPLIED TRIM IN THE COURTROOM IS HIGHLY ENCOURAGED. MILLWORK AND GENERAL WOOD TRIM SHOULD BE CUSTOM-MADE TO FIT THE INDIVIDUAL COURTROOM. WOOD TRIM MUST BE STAINED AND SEALED TO CLOSELY MATCH THAT OF THE WOOD COURTROOM ELEMENTS.</p> <p>7. DOOR HARDWARE MUST BE SILENT SO AS NOT TO DISRUPT COURTROOM PROCEEDINGS.</p>	
	LOBBY / SECURITY SCREENING AREA	LOBBY AREA SHALL BE DESIGNED TO SERVE AS THE MAIN ENTRANCE AND PUBLIC GATHERING POINT. THE LOBBY SHOULD BE LARGE ENOUGH TO ACCOMMODATE VISITORS FOR LARGE TRIALS. THE LOBBY MUST BE LOCATED ON THE SECURE SIDE OF THE SECURITY SCREENING STATION WHILE PROVIDING VISUAL CONTROL AND DIRECT ACCESS TO THE COURTROOM, SECURITY SCREENING AREA, PUBLIC RESTROOMS, BREAK ROOM, MAGISTRATE WORK AREA, MULTIPURPOSE ROOM, AND COUNSEL OFFICE AREAS. PROVIDE SPACE FOR A SMALL SEATING GROUP.		1. SCREENING SHALL BE ACCOMPLISHED BY METAL DETECTORS AND / OR X-RAY MACHINES.	CT	RB	GWB	ACT / GWB	12'-0"	1. QUEUING WILL OCCUR OUTSIDE THE BUILDING UNDER THE PORCH. HANDICAP ACCESS SHALL BE PROVIDED.	
	MULTI-PURPOSE ROOM	PROVIDE A ROOM WITH TABLE AND CHAIRS FOR AT LEAST EIGHT (8) PERSONS TO ACCOMMODATE MEDIA AND PRESS COVERAGE.	1. PROVIDE AT LEAST TWO LIGHTING LEVELS EACH SHALL BE DIMMABLE.	1. PROVIDE VOICE / DATA OUTLETS TO SUPPORT EIGHT (8) MEDIA MEMBERS.	CPT	RB	GWB	ACT / GWB	9'-0"	1. PROVIDE ACCESS FROM PUBLIC LOBBY, ADJACENT TO THE LOBBY WAITING AREA.	
	MAGISTRATE WORK AREA	PROVIDE A MAGISTRATE WORK AREA FUNCTION.	1. PROVIDE TASK LIGHTING AT WORKSTATION OF ALL TYPE TO BE DETERMINED PER CUSTOMER REQUIREMENT.	1. PROVIDE DSN OUTLET.	CPT	RB	GWB	ACT / GWB	9'-0"	1. PROVIDE ACCESS FROM PUBLIC LOBBY, WITH ROLL-UP WINDOW ADJACENT TO LOBBY WAITING AREA.	
	DELIBERATION SUITE	A DELIBERATION SUITE SHALL CONSIST OF A DELIBERATION ROOM, BREAK ROOM, VENDING AREA AND UNISEX TOILET. THE DELIBERATION SUITE SHALL BE ADJACENT TO THE COURTROOM WITH A DIRECT SECURE ROUTE FROM THE MEMBER'S BOX IN THE COURTROOM. PROVIDE TABLE AND CHAIRS FOR AT LEAST 12 PERSONS.	1. FOR DELIBERATION ROOMS PROVIDE AT LEAST TWO LIGHTING LEVELS EACH SHALL BE DIMMABLE.	1. AS A MINIMUM, PROVIDE POWER / AUDIO / VIDEO OUTLETS TO SUPPORT EVIDENCE REVIEW.	CPT	RB	GWB	ACT / GWB	9'-0"	1. PROVIDE A DIRECT EXIT TO THE EXTERIOR OF THE BUILDING SEPARATE FROM PUBLIC ACCESS AND EGRESS ROUTES.	
C	JUDGE'S CHAMBER	JUDGE'S CHAMBER SHALL BE DESIGNED TO ACCOMMODATE ONE WORKSTATION WITH PRIVATE CONSULTATION SPACE FOR THREE TO SIX (3 - 6) PERSONS. ONE OF THE JUDGE'S CHAMBERS MAY BE USED FOR MAGISTRATE FUNCTIONS.	1. PROVIDE TASK LIGHTING AT WORKSTATION OF ALL TYPE TO BE DETERMINED PER CUSTOMER REQUIREMENT.	1. PROVIDE DSN OUTLET.	CPT	RB	GWB	ACT	9'-0"	<p>1. DIRECT EXIT TO THE OUTSIDE OF THE BUILDING SEPARATE FROM PUBLIC ACCESS AND EGRESS ROUTES.</p> <p>2. PROVIDE EXTERIOR LOCKING DEVICES PER INSTALLATION / CUSTOMER NEEDS FOR PRIVATE AND AFTER HOUR ENTRANCE.</p> <p>3. PROVIDE SOUND GASKETS FOR ALL DOORS, FRAMES AND THRESHOLDS.</p> <p>4. THE USE OF A CEILING GRID VENT LEADING TO AN OPEN PLENUM FOR RETURN AIR IS NOT PERMITTED.</p> <p>5. PROVIDE CUSTOM BUILT-IN BOOKCASE.</p> <p>6. PROVIDE A SILENT DURESS ALARM BUTTON, WITHIN IMMEDIATE REACH WHEN SEATED AND MOUNTED ON OR UNDER THE DESK.</p>	
	COURT REPORTER OFFICES	COURT REPORTER OFFICE SHALL BE DESIGNED TO CONTROL ACCESS FROM ADJACENT CORRIDOR TO JUDGE'S CHAMBERS. EACH OFFICE SHALL HAVE ONE WORKSTATION AND ROOM FOR TWO VISITOR SIDE CHAIRS.	1. PROVIDE TASK LIGHTING AT WORKSTATION TO BE DETERMINED PER CUSTOMER REQUIREMENT.	1. PROVIDE DSN OUTLET.	CPT	RB	GWB	ACT	9'-0"	<p>1. PROVIDE A SMALL KITCHENETTE / PRINTER / COPY AREA (TO INCLUDE A SINK, UNDER COUNTER REFRIGERATOR, MICROWAVE) TO BE SHARED BY JUDGES AND REPORTERS IN A SUITE CONFIGURATION.</p> <p>2. PROVIDE A SILENT DURESS ALARM BUTTON, WITHIN IMMEDIATE REACH WHEN SEATED AND MOUNTED ON OR UNDER THE DESK.</p>	
	PRIVATE STAFF OFFICES	PROVIDE PROSECUTION AND DEFENSE STAFF OFFICES IN SEPARATE AREAS TO MINIMIZE INTERACTION OUTSIDE OF THE COURTROOM.	1. PROVIDE TASK LIGHTING AT WORKSTATION TO BE DETERMINED PER CUSTOMER REQUIREMENT.	1. PROVIDE DSN OUTLET.	CPT	RB	GWB	ACT	9'-0"	1. PROVIDE SOUND GASKETS FOR ALL DOORS, FRAMES AND THRESHOLDS.	
	PRINTER & COPY AREAS	PROVIDE A PRINTER / COPIER STATIONS TO ACCOMMODATE BASE AND WALL CABINETS FOR EACH OF THE FOLLOWING AREAS: - DEFENSE COUNSEL / WITNESS AREA - PROSECUTION COUNSEL / WITNESS AREA - JUDGES SUITE	1. PROVIDE RECESSED DOWNLIGHTS IN COPY AREAS.	1. PROVIDE DATA OUTLET(S) AS REQUIRED, FOR NETWORK PRINTERS.	CPT	RB	GWB	GWB	9'-0"	1. AREAS SHALL BE EASILY ACCESSIBLE AND CENTRALLY LOCATED.	
	REMOTE WITNESS ROOM	PROVIDE A SEPARATE ROOM TO ALLOW SEQUESTERED, VULNERABLE, OR VOLATILE WITNESSES TO REMOTELY TESTIFY OR PRESENT EVIDENCE. CO-LOCATE WITH THE DEFENSE COUNSEL OFFICE.	1. PROVIDE TWO LIGHTING LEVELS EACH SHALL BE DIMMABLE (FOR POSSIBLE FUTURE CCTV ASSESSMENT).	1. A CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM WITH WALL MOUNTED CAMERA AND A DEDICATED MONITOR CONNECTED TO THE EVIDENCE PRESENTATION SYSTEM LOCATED IN THE AV ROOM. 2. LOCATE CHAIRS IN FULL VIEW OF CAMERA.	CPT	RB	GWB	ACT	9'-0"	<p>1. SHALL PROVIDE WITNESSES SEPARATION FROM THE GENERAL PUBLIC DURING TRIAL FOR SENSITIVE WITNESSES.</p> <p>2. NO INTERIOR OR EXTERIOR WINDOWS PERMITTED.</p>	
B	WITNESS ROOMS	PROVIDE TWO WITNESS ROOMS, ONE (1) FOR DEFENSE AND ONE (1) FOR PROSECUTION WITNESS.			CPT	RB	GWB	ACT	9'-0"	1. NO INTERIOR OR EXTERIOR WINDOWS PERMITTED.	
	HOLDING ROOM / LAWYER-CLIENT OFFICE	PROVIDE A SEPARATE ROOM FOR CONFERRING AND DEFENDANT HOLDING			CPT	RB	GWB	GWB	9'-0"	<p>1. PROVIDE A SEPARATE EXTERIOR ENTRANCE AND EXTERIOR COVERED DROP-OFF AREA DIRECTLY ADJACENT TO SPACE.</p> <p>2. NO INTERIOR OR EXTERIOR WINDOWS PERMITTED.</p> <p>3. SOUND GASKETS FOR ALL DOORS, FRAMES AND THRESHOLDS.</p>	
	FILE STORAGE	PROVIDE A CONSOLIDATED FILES STORAGE ROOM.			VCT	RB	GWB	GWB	9'-0"	1. PROVIDE IMMEDIATE ACCESS FROM COUNSEL AREA.	
	GENERAL STORAGE	PROVIDE A CONSOLIDATED GENERAL STORAGE ROOM.			VCT	RB	GWB	GWB	9'-0"	<p>1. PROVIDE BUILT-IN ADJUSTABLE FLOOR-TO-CEILING SHELVING.</p> <p>2. OPTIONAL EVIDENCE STORAGE AREA.</p>	
	AUDIO / VISUAL (A/V) ROOM	PROVIDE AN AUDIO / VIDEO ROOM DIRECTLY ADJACENT TO THE COURTROOM AND ACCESSIBLE FROM THE OUTSIDE OF THE COURTROOM SO AS NOT TO DISTURB COURTROOM PROCEEDINGS.		1. THE ESTIMATED POWER LOAD IS 1,482 KVA AND A HEATING LOAD OF 5264 SBTU/HR. 2. COURTROOM CONTROLS FOR AV SYSTEMS SHALL BE PROVIDED AT THE COURT REPORTER BOX. 3. PROVIDE FOUR DUAL VOICE / DATA COMMUNICATION OUTLETS TO DESIRABLE WALL LOCATIONS.	VCT	RB	GWB	ACT	9'-0"	<p>1. PROVIDE AN INDEPENDENT TEMPERATURE CONTROL OR THERMOSTATICALLY CONTROLLED EXHAUST FAN.</p> <p>2. PROVIDE COOLING FOR CURRENT EQUIPMENT ARRAY AND ALLOW FOR EXPANSION OF COOLING REQUIRED TO DOUBLE THE DESIGNED LOAD/CAPACITY.</p>	
	BREAK ROOM	PROVIDE A BREAK ROOM TO ACCOMMODATE VENDING MACHINES, BASE AND WALL CABINETS WITH SINK AND A RECYCLING STATION FOR USE BY ALL.			CT	RB	GWB	GWB	9'-0"	1. SHALL BE ACCESSIBLE TO THE PUBLIC.	

5		4		3					2		1
ROOM SPACE MATRIX	SPACE CHARACTERISTICS			FINISHES					REMARKS		
SUPPORT SPACE REQUIREMENTS	FUNCTION / DESCRIPTION	LIGHTING	TECHNOLOGY / POWER	FLOOR	BASE	WALL	CEILING	MIN. CEILING HEIGHT			
CORRIDORS	PROVIDE FOR PUBLIC AND PRIVATE CIRCULATION.			VCT	RB	GWB	ACT	8'-8"	1. PROVIDE ELECTRIC WATER COOLERS IN THE PUBLIC AREA, PROSECUTION COUNSEL AREA AND THE DEFENSE COUNSEL AREA.		
VESTIBULES	PROVIDE A PASSAGEWAY / AIRLOCK AT MAJOR BUILDING ENTRANCES.	1. PROVIDE RECESSED LIGHTING.		CT / WOM	RB	GWB	GWB	8'-8"	1. PROVIDE EXTERIOR LOCKING DEVICES PER INSTALLATION / CUSTOMER NEEDS FOR PRIVATE AND AFTER HOUR ENTRANCE.		
PUBLIC RESTROOMS	PROVIDE HANDICAP ACCESSIBLE RESTROOMS FOR THE PUBLIC.			CT	CT	GWB / GT	GWB	9'-0"	1. SHALL BE ACCESSIBLE FROM THE LOBBY.		
UNISEX TOILET ROOMS	PROVIDE A HANDICAP UNISEX TOILET ROOMS FOR PRIVATE AREAS. - JUDGE'S SUITE - DEFENSE AREA - PROSECUTION AREA - DELIBERATION SUITE			CT	CT	GWB / GT	GWB	9'-0"	1. PROVIDE ONE (1) SHOWER STALL EACH, FOR JUDGE SUITE, DEFENSE & PROSECUTION AREAS.		
JANITOR CLOSET	PROVIDE ROOM FOR GENERAL FACILITY CLEANING / SUPPLIES.			CONC	RB	GWB	GWB	8'-0"	1. SHALL INCLUDE MOP SINK AND SHELVING.		
KITCHENETTE AREAS	PROVIDE A SMALL KITCHENETTE TO ACCOMMODATE BASE AND WALL CABINETS. - JUDGE'S SUITE - DELIBERATION SUITE	1. PROVIDE DOWNLIGHTS OVER COUNTERTOPS.		CT	RB	GWB	GWB	9'-0"	1. PROVIDE A SINK, UNDER COUNTER REFRIGERATOR, AND MICROWAVE.		
COMMUNICATIONS ROOM	PROVIDE A COMMUNICATIONS ROOM FOR THE VOICE AND DATA NETWORK.		1. DESIGN IN ACCORDANCE WITH THE IBA GUIDE AND ANSI/EIA/TIA-609-B.	VCT	-	GWB	GWB	9'-0"			
MECHANICAL ROOM	PROVIDE A DEDICATED ROOM FOR THE MECHANICAL EQUIPMENT AND OTHER ASSOCIATED EQUIPMENT.			CONC	-	CMU	GWB	-			
ELECTRICAL ROOM	PROVIDE A DEDICATED ROOM FOR THE ELECTRICAL EQUIPMENT.			CONC	-	GWB	GWB	9'-0"			

JUDICIAL CENTER STANDARD DESIGN CRITERIA:

- THE DESIGN AND CONSTRUCTION FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH IN SECTION 01 11 00, PARAGRAPH 4.0 TECHNICAL PERFORMANCE REQUIREMENTS FOR APPLICABLE CRITERIA.
- MILITARY DESIGN CRITERIA HAVE BEEN DEVELOPED TO REDUCE RISK, BEYOND LEVELS ACCEPTED NATIONALLY BY STATE, LOCAL, AND PRIVATE SECTOR OWNERS. THESE NATIONALLY ACCEPTED CRITERIA HAVE BEEN FORMALIZED WITH CODES AND STANDARDS OF PRACTICE THAT ADDRESS APPROPRIATE QUALITY AND RISK MANAGEMENT.

CODE REQUIREMENTS:

- OCCUPANCY CLASSIFICATION: MIXED OCCUPANCY (ASSEMBLY A-3 AND BUSINESS)
- INTERNATIONAL BUILDING CODE, LATEST EDITION, CHAPTER 3.

CONTROLLED ACCESS ZONES:

A JUDICIAL CENTER (JC) FACILITY MUST HAVE AT LEAST THREE (3) CONTROLLED ACCESS ZONES:

- PUBLIC SPACES AND ASSOCIATED CIRCULATION PATHS MUST BE SEPARATED FROM THE REST OF THE BUILDING BY DOORS AND ACCESS CONTROLLABLE HARDWARE.
- COUNSEL OFFICES AND ASSOCIATED CIRCULATION PATHS MUST BE SEPARATED FROM PUBLIC SPACES AND JUDGE'S SUITE BY DOORS AND ACCESS CONTROLLABLE HARDWARE.
- JUDGE'S SUITE AND ASSOCIATED CIRCULATION PATHS MUST BE SEPARATED FROM PUBLIC SPACES AND COUNSEL OFFICES BY DOORS AND ACCESS CONTROLLABLE HARDWARE.

IN ADDITION TO THE ZONES DESCRIBED ABOVE, PROVIDE DIRECT ACCESS OR A DEDICATED CIRCULATION PATH TO THE DELIBERATION ROOM FOR THE PANEL MEMBERS, IF CORRIDORS ARE USED, THE PATH SHOULD AVOID CONTACT WITH JUDGE, COUNSEL AND GENERAL PUBLIC.

ROOM SPACE REQUIREMENTS MATRIX GENERAL NOTES:

- SOUND ATTENUATION: PENETRATIONS FOR OUTLET BOXES, WIRING, LIGHT FIXTURES, ETC. MUST BE FULLY SEALED WITH EITHER A GASKET OR WITH ACOUSTIC CAULK. PERIMETERS OF WALLS MUST BE SEALED TO ELIMINATE SOUND TRAVEL AROUND WALLS. A CONTINUOUS GASKET MUST BE PROVIDED AROUND THE DOOR JAMB IN CONJUNCTION WITH A SEALABLE THRESHOLD IN CONFIDENTIAL ROOMS. NOISE AND SOUND REDUCTION MATERIAL MUST BE USED IN ALL SUPPLY AND RETURN DUCTWORK IN THE COURTROOM, DELIBERATION ROOM AND JUDGE'S CHAMBER. INTERIOR COURTROOM FINISHES MUST BE SOUND ABSORBING AND MINIMIZE SOUND REVERBERATION TIME.
- INTERIOR COLOR AND FINISHES FOR COURTROOMS AND SUPPORT SPACES: COLORS, MATERIALS, AND TEXTURES ARE EQUALLY IMPORTANT IN CONVEYING THE PROPER DIGNITY AND IMPORTANCE OF THE COURTROOM ENVIRONMENT.
- LIGHTING IN SPACES SHALL BE AS REQUIRED BY APPLICABLE CODES AND REGULATIONS. THE LIGHTING COLUMN SPECIFIES SPECIAL CHARACTERISTICS AND REQUIREMENTS IN PARTICULAR SPACES.
- PROVIDE ALL WALLS AND CEILINGS WITH STC = 52 db RATED ASSEMBLY.

FINISH LEGEND:

ACT	ACOUSTICAL LAY-IN CEILING
CMU	PAINTED CONCRETE MASONRY UNIT
CONC	SEALED CONCRETE
CPT	CARPET
CT	CERAMIC TILE
db	DECIBELS
EXP	EXPOSED STRUCTURE
GT	GLAZING TILE
GWB	PAINTED GYPSUM WALL BOARD
RB	RUBBER WALL BASE
RFS	RAISED FLOOR SYSTEM
VCT	VINYL COMPOSITION TILE
WD	WOOD TRIM
WOM	WALK OFF MAT

US Army Corps of Engineers
Louisville District

Revisions:

Appr.	Date	Description

Date: 1 SEPTEMBER 2009
Scale: NTS
Drawing Code:
Designed by: COE LOUISVILLE DISTRICT
Drawn by: R. PRIDE
Checked by:
DOUG POHL / RONNIE PRIDE
Project Engineer/Architect

STANDARD DESIGN CRITERIA

DEPARTMENT OF THE ARMY FACILITY STANDARDIZATION PROGRAM PRE-FINAL DOCUMENTS JUDICIAL CENTER (JC) STANDARD DESIGN

SHEET REFERENCE NUMBER:
JC-X001
SHEET 9 OF 12

5

4

3

2

1

GEOTECHNICAL CRITERIA:

THE GEOTECHNICAL REPORT FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH WITHIN APPLICABLE CRITERIA, REFERENCE SHEET X001 - STANDARD DESIGN CRITERIA, JUDICIAL CENTER STANDARD DESIGN CRITERIA, NOTE 1.

- A. A GEOTECHNICAL EVALUATION REPORT SHALL BE PREPARED FOR THE PROJECT SITE BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER. THIS REPORT SHALL SUMMARIZE THE SUBSURFACE CONDITIONS; PROVIDE REQUIREMENTS FOR THE DESIGN OF APPROPRIATE FOUNDATIONS, FLOOR SLABS, RETAINING WALLS, EMBANKMENTS, AND PAVEMENTS. THE CONTRACTOR'S GEOTECHNICAL REPORT SHALL SPECIFY THE TYPE FOUNDATION SYSTEM TO BE USED. LATERAL LOAD RESISTANCE CAPACITIES FOR FOUNDATION SYSTEMS, ALLOWABLE BEARING ELEVATIONS FOR FOOTINGS, GRADE BEAMS, SLABS, ETC. AN ASSESSMENT OF POST-CONSTRUCTION SETTLEMENT POTENTIAL INCLUDING TOTAL AND DIFFERENTIAL SHALL BE PROVIDED. REQUIREMENTS REGARDING LATERAL EARTH PRESSURES (ACTIVE, AT-REST, PASSIVE) TO BE USED IN THE DESIGN OF RETAINING WALLS SHALL BE PROVIDED. THE REPORT SHALL INCLUDE THE REQUIRED SPECTRAL ACCELERATIONS AND SITE CLASS FOR SEISMIC DESIGN ALONG WITH AN EVALUATION OF ANY SEISMIC HAZARDS AND REQUIREMENTS FOR MITIGATION, IF NECESSARY. CALCULATIONS SHALL BE INCLUDED TO SUPPORT THE REQUIREMENTS FOR BEARING CAPACITY, SETTLEMENT, AND PAVEMENT SECTIONS. SUPPORTING DOCUMENTATION SHALL BE INCLUDED FOR ALL REQUIRED DESIGN PARAMETERS SUCH AS SITE CLASS, SHEAR STRENGTH, EARTH PRESSURE COEFFICIENTS, FRICTION FACTORS, SUBGRADE MODULUS, CALIFORNIA BEARING RATIO (CBR), ETC. IN ADDITION, THE REPORT SHALL PROVIDE EARTHWORK REQUIREMENTS, EXPECTED FROST PENETRATION, EXPECTED GROUNDWATER LEVELS, REQUIREMENTS FOR DEWATERING AND GROUNDWATER CONTROL, AND THE POSSIBLE PRESENCE OF ANY SURFACE OR SUBSURFACE FEATURES THAT MAY AFFECT THE CONSTRUCTION OF THE PROJECT.
B. THE GEOTECHNICAL EVALUATION REPORT SHALL CONTAIN APPLICABLE PAVEMENT DESIGNS INCLUDING THE DESIGN CBR AND/OR MODULUS OF SUBGRADE REACTION AND THE REQUIRED COMPACTION EFFORT FOR SUBGRADES. INFORMATION SHALL BE OFFERED ON THE TYPES OF BASE COURSE MATERIALS AVAILABLE IN THE AREA AND DESIGN STRENGTHS. THE ENGINEER SHALL REFERENCE USACE DISTRICT-SPECIFIC OR BASE-SPECIFIC PAVEMENT SECTION MINIMUMS IN THE REPORT.

STRUCTURAL CRITERIA:

THE STRUCTURAL SYSTEM FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH WITHIN APPLICABLE CRITERIA, REFERENCE SHEET X001 - STANDARD DESIGN CRITERIA, JUDICIAL CENTER STANDARD DESIGN CRITERIA, NOTE 1.

THE JUDICIAL CENTER (JC) MAY CONSIST OF A BEARING WALL/POST AND BEAM STRUCTURE. THE FUNCTION OF THE FACILITY WILL REQUIRE FLEXIBILITY IN THE FLOOR PLAN LAYOUT. THE DESIGNER IS ENCOURAGED TO UTILIZE INTERIOR BEARING LINES CONSISTING OF COLUMNS AND BEAMS AS REQUIRED TO ACCOMMODATE THE ROOF STRUCTURE WHILE MAINTAINING FUTURE CHANGES IN FLOOR PLAN LAYOUT.

PREFERRED / EXPECTED BUILDING SYSTEMS:

- A. FOUNDATION SYSTEM - THE FOUNDATION SYSTEM MAY VARY AND SHALL BE DETERMINED AS REQUIRED FOR THE CONDITIONS OF THE BUILDING SITE, AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
B. WALL SYSTEM - WALL SYSTEMS MAY VARY AND SHALL BE AS REQUIRED FOR BUILDING FUNCTION AND REGIONAL REQUIREMENTS. INTERIOR BEARING STRUCTURES, IF REQUIRED SHOULD CONSIST OF COLUMN AND BEAM SYSTEMS.
C. FLOOR SYSTEM - FLOOR SYSTEM SHALL CONSIST OF A MINIMUM OF SLAB ON GRADE AS APPROPRIATE OR ELEVATED SLAB AS REQUIRED DUE TO SITE GRADING OR GEOTECHNICAL CONDITIONS.
D. ROOF SYSTEM - ROOF SYSTEM SHOULD CONSIST OF AN APPROPRIATE SUPPORT SYSTEM AND APPROPRIATE DECKING TO RECEIVE FINISH ROOF SYSTEM. PROVIDE INTERIOR STRUCTURAL SUPPORT AS REQUIRED TO ACHIEVE ROOF CONFIGURATION.

MECHANICAL SYSTEM CRITERIA:

THE MECHANICAL DESIGN FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH WITHIN APPLICABLE CRITERIA, REFERENCE SHEET X001 - STANDARD DESIGN CRITERIA, JUDICIAL CENTER STANDARD DESIGN CRITERIA, NOTE 1.

A. ENERGY CONSERVATION CRITERIA:

- 1. ENERGY CONSERVATION WILL BE CONSIDERED IN THE DESIGN OF NEW FACILITIES TO THE MAXIMUM PRACTICAL EXTENT. DESIGNS WILL BE REQUIRED TO MEET THE REQUIREMENTS INDUSTRY STANDARDS FOR ENERGY CONSERVATION.
B. DESIGN CONDITIONS:
1. THE OUTDOOR DESIGN TEMPERATURE FOR COMFORT COOLING SHALL BE THE 1% DRY BULB AND THE CORRESPONDING WET BULB TEMPERATURE FOR THE LOCALE, OR THE 1% DEHUMIDIFICATION DEWPOINT TEMPERATURE AND THE CORRESPONDING DRY BULB TEMPERATURE, WHICHEVER PRODUCES THE GREATER COOLING LOAD.
2. THE OUTDOOR DESIGN TEMPERATURE FOR HEATING SHALL BE THE 99% DRY BULB TEMPERATURE FOR THE LOCALE.
3. THE INDOOR DESIGN TEMPERATURE FOR COMFORT COOLING SHALL BE 15 DEGREES F LESS THAN THE 1% OUTDOOR AIR TEMPERATURE, BUT WILL BE NO LOWER THAN 75 DEGREES F, NOR ANY GREATER THAN 78 DEGREES F. THE INDOOR DESIGN RELATIVE HUMIDITY SHALL BE 50%.
4. THE INDOOR DESIGN TEMPERATURE FOR COMFORT HEATING SHALL BE 68 DEGREES F. WINTER HUMIDIFICATION SHALL BE REQUIRED WHERE THE INDOOR RELATIVE HUMIDITY IS EXPECTED TO FALL BELOW 20%.

C. SYSTEM DESIGN:

- 1. MECHANICAL SYSTEMS SHALL BE SELECTED BASED UPON A LIFE CYCLE COST ANALYSIS (LCCA) AND ENERGY ANALYSIS. THE LCCA SHALL CONSIDER LOCAL CLIMATE AND AVAILABLE ENERGY SOURCES AND SHALL BE BASED UPON INDUSTRY STANDARDS FOR FACILITY LIFE CYCLE DESIGN. THE SYSTEM SELECTIONS SHALL BE BASED UPON THE LOWEST TOTAL COST OVER THE ANTICIPATED LIFE OF THE FACILITY AND WILL INCLUDE ENERGY, MAINTENANCE AND CAPITAL COSTS.
2. VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST STANDARDS NOTED IN SPECIFICATION SECTION 01 11 00, PAR. 4.0. VENTILATION AIR SHALL BE INTRODUCED INTO THE BUILDING THROUGH AIR HANDLING UNITS, AND SHALL BE CONDITIONED. OUTSIDE AIR LOUVERS SHALL BE LOCATED IN ACCORDANCE WITH MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS, AND WILL BE A MINIMUM OF 10 FEET ABOVE GRADE.
3. TELECOMMUNICATIONS ROOMS (TR) SHALL BE PROVIDED WITH AN INDEPENDENT TEMPERATURE CONTROL FROM THE BUILDING SYSTEM.
4. EACH BUILDING SHALL BE PROVIDED WITH A DIRECT DIGITAL CONTROL (DDC) SYSTEM. THE DDC CONTROL SYSTEM SHALL CONTROL AND MONITOR THE COOLING AND HEATING SYSTEMS, AIR HANDLING SYSTEMS, AND PROVIDE UTILITY METERING. THE NEW DDC SYSTEM SHALL HAVE THE CAPABILITY TO BE CONNECTED TO, AND COMMUNICATE WITH, ANY EXISTING BASEWIDE DDC SYSTEM. THE DDC PANEL IN EACH BUILDING SHALL HAVE THE CAPABILITY FOR STAND ALONE OPERATION IN THE EVENT OF A CENTRAL DDC SYSTEM FAILURE.
5. WHERE VAV SYSTEMS ARE UTILIZED, PROVISIONS SHALL BE INCLUDED TO ENSURE THAT THE INDUSTRY STANDARDS FOR OUTSIDE AIR REQUIREMENTS ARE MAINTAINED UNDER ALL CONDITIONS.
6. MECHANICAL SPACES SHALL BE CONDITIONED TO MAINTAIN 80 DEGREES F IN THE SUMMER, AND 65 DEGREES F IN THE WINTER.

PLUMBING CRITERIA:

THE PLUMBING DESIGN FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH WITHIN APPLICABLE CRITERIA, REFERENCE SHEET X001 - STANDARD DESIGN CRITERIA, JUDICIAL CENTER STANDARD DESIGN CRITERIA, NOTE 1.

A. SYSTEM DESIGN:

- 1. SYSTEM DESIGN AND INSTALLATION SHALL CONFORM TO TITLE 10 CFR PART 434 ENERGY AND WATER CONSERVATION CRITERIA.
2. PLUMBING HOT WATER HEATING CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ASHRAE REQUIREMENTS. WATER HEATERS SHALL BE SIZED BASED ON METHODS DESCRIBED IN THE ASHRAE APPLICATIONS HANDBOOK FOR A 90 DEGREE F RISE. CALCULATIONS SHALL BE SUBMITTED FOR DETERMINING STORAGE CAPACITY AND RECOVERY RATE. HOT WATER DELIVERED TO TOILET FACILITIES AND TO SHOWERS SHALL NOT EXCEED 110 DEGREES F.
3. PIPING DESIGN SHALL BE BASED ON THE INTERNATIONAL PLUMBING CODE FOR DOMESTIC WATER, SANITARY WASTE AND VENT PIPING. WATER PIPING SHALL BE SIZED IN ACCORDANCE WITH METHODS OUTLINED IN THE IPC TO LIMIT WATER VELOCITY IN THE PIPE TO 8 FEET/SECOND (5 FEET/SECOND FOR HOT WATER PIPING) UNLESS A LOWER VELOCITY IS RECOMMENDED BY THE PLUMBING FIXTURE MANUFACTURER(S).
4. PLUMBING FIXTURES SHALL BE REQUIRED TO BE PROVIDED COMPLETE WITH FITTING AND TRIM. THE QUANTITY OF WATER COOLERS SHALL BE NO LESS THAN THAT REQUIRED BY CODE AND INDUSTRY STANDARDS.
5. THE DOMESTIC WATER SERVICE TO THE BUILDING SHALL ENTER THE BUILDING IN THE MECHANICAL ROOM. THE WATER SERVICE SHALL BE PROVIDED WITH A REDUCED PRESSURE BACKFLOW PREVENTER TO ISOLATE EACH BUILDING FROM THE BASE WATER SYSTEM. A MAIN SHUT-OFF VALVE SHALL BE PROVIDED INSIDE EACH BUILDING.
6. A HORIZONTAL WATER DISTRIBUTION SYSTEM SHALL SERVE THE BUILDING, WITH ISOLATION VALVES AT EACH BRANCH TO COMMON AREAS SERVING TWO OR MORE FIXTURES, AND AT EACH WALL HYDRANT OR EQUIPMENT CONNECTION. WATER CONNECTIONS FOR MECHANICAL EQUIPMENT SYSTEMS MAKE-UP WILL BE ISOLATED FROM THE DOMESTIC WATER SYSTEM WITH A REDUCED PRESSURE BACKFLOW PREVENTER.
7. A SANITARY DRAIN, WASTE AND VENT SYSTEM WILL EXTEND FROM THE CONNECTION TO THE SITE UTILITY SYSTEM TO ALL FIXTURES AND EQUIPMENT REQUIRING SERVICE. DRAINAGE AND VENT STACKS SHALL EXTEND VERTICALLY AND BE VENTED THROUGH THE ROOF. THE SYSTEM SHALL BE PROVIDED WITH TRAPS, VENTS AND CLEANOUTS AS REQUIRED BY INDUSTRY STANDARDS. TRAP PRIMERS SHALL BE PROVIDED FOR DRAINS SUSCEPTIBLE TO LOSS OF WATER SEAL BY EVAPORATION.
8. FLOOR DRAINS SHALL BE PROVIDED IN MECHANICAL ROOMS, JANITOR ROOMS, RESTROOMS AND FOR EQUIPMENT REQUIRING DRAINAGE. ALL FLOOR DRAINS SHALL BE AUTOMATICALLY PRIMED BY SINGLE TRAP PRIMERS OR, WHERE APPROPRIATE, DISTRIBUTION TYPE TRAP PRIMERS. DRAINAGE PIPING FOR MECHANICAL ROOM FLOOR DRAINS, TO THE POINT OF CONNECTION TO SANITARY MAIN, SHALL UTILIZE METALLIC PIPING.
9. WALL HYDRANTS SHALL BE PROVIDED AT A MAXIMUM SPACING INTERVAL OF 150 FEET AROUND THE PERIMETER OF THE BUILDING. WALL HYDRANTS SHALL BE BOX TYPE, FREEZE-PROOF, WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER.
10. WATER HAMMER ARRESTERS WILL BE PROVIDED FOR SHOCK SUPPRESSION. THE PLACEMENT OF WATER HAMMER ARRESTERS SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS.
11. THE DESIGN AND INSTALLATION OF INTERIOR NATURAL GAS DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE APPLICABLE SECTIONS OF CODE AND INDUSTRY STANDARDS.

FIRE PROTECTION CRITERIA:

THE FIRE PROTECTION DESIGN FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH WITHIN APPLICABLE CRITERIA, REFERENCE SHEET X001 - STANDARD DESIGN CRITERIA, JUDICIAL CENTER STANDARD DESIGN CRITERIA, NOTE 1.

A. FIRE PROTECTION SYSTEM DESIGN:

- 1. AUTOMATIC SPRINKLER PROTECTION SHALL BE PROVIDED. THE FACILITY SHALL BE FULLY PROTECTED WITH AUTOMATIC WET PIPE SPRINKLER SYSTEMS. DRY PIPE SPRINKLER SYSTEMS SHALL BE PROVIDED IF FREEZE PROTECTION IS REQUIRED. ALL AREAS OF THE BUILDING SHALL BE PROTECTED. THE SPRINKLER SYSTEM DESIGN AND HAZARD CLASSIFICATION SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS. THE SPRINKLER SYSTEM SHALL BE DESIGNED, AND ALL PIPING SIZED, WITH COMPUTER GENERATED HYDRAULIC CALCULATIONS.
2. THE SPRINKLER SERVICE MAIN SHALL BE PROVIDED WITH AN EXTERIOR POST INDICATOR VALVE WITH TAMPER SWITCH REPORTING TO THE FIRE ALARM CONTROL PANEL (FACP). THE SPRINKLER ENTRY RISER SHALL INCLUDE A DOUBLE CHECK BACKFLOW PREVENTER. A FIRE DEPARTMENT CONNECTION AND A WALL HYDRANT FOR TESTING THE BACKFLOW PREVENTER. THE SPRINKLER SYSTEM SHALL INCLUDE A SUPERVISED CONTROL VALVE, AN EXTERIOR ELECTRIC ALARM BELL, AND A FLOW SWITCH REPORTING TO THE FACP. THE EXTERIOR ELECTRIC ALARM BELL WILL BE ACTIVATED BY THE FLOW SWITCH VIA THE FACP. ALL CONTROL VALVES SHALL BE OS&Y TYPE AND SHALL BE PROVIDED WITH TAMPER SWITCHES CONNECTED TO THE FACP. WATER MOTOR ALARMS SHALL NOT BE USED. ALL MAIN AUXILIARY OR TEST DRAIN LINES SHALL BE ROUTED TO THE EXTERIOR OF THE BUILDING AT GRADE LEVEL.
3. EXTERIOR HOSE STREAM DEMAND SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS. HOSE STREAM DEMAND SHALL BE 250 GPM FOR LIGHT HAZARD AND 500 GPM FOR ORDINARY HAZARD. EXTERIOR HOSE STREAM DEMAND SHALL BE INCLUDED IN THE SPRINKLER SYSTEM HYDRAULIC CALCULATIONS.
4. A FIRE PUMP SHALL BE PROVIDED IF REQUIRED BASED ON THE AVAILABLE FLOW AND PRESSURE.
5. DESIGNER SHALL BE RESPONSIBLE FOR PERFORMING A HYDRANT FLOW TEST IN ACCORDANCE WITH THE REQUIREMENTS OF INDUSTRY STANDARDS. DATA FROM THIS TEST SHALL BE USED AS A BASIS FOR THE DESIGN OF THE SPRINKLER SYSTEM.



Table with 3 columns: Symbol, Date, Description. Revisions section.

Table with 2 columns: Date, Description. Project information including Designer, Drawn by, Checked by, Date.

STANDARD DESIGN CRITERIA CONT.

DEPARTMENT OF THE ARMY FACILITY STANDARDIZATION PROGRAM PRE-FINAL DOCUMENTS JUDICIAL CENTER (JC) STANDARD DESIGN

SHEET REFERENCE NUMBER: JC-X002 SHEET 10 OF 12

5

4

3

2

1

ELECTRICAL CRITERIA:

THE ELECTRICAL DESIGN FOR THE PROJECT SHALL BE IN ACCORDANCE WITH TECHNICAL GUIDANCE AS SET FORTH WITHIN APPLICABLE CRITERIA, REFERENCE SHEET X001 - STANARD DESIGN CRITERIA, JUDICIAL CENTER STANDARD DESIGN CRITERIA, NOTE 1.

A. INTERIOR LIGHTING SYSTEMS:

- 1. ILLUMINATION LEVELS WILL BE DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE REFERENCES... 2. COMPACT FLUORESCENT DOWN LIGHTS WILL BE USED IN AREAS WHERE SPECIAL ATTENTION MUST BE GIVEN TO AESTHETICS... 3. SECURITY LIGHTING WILL BE PROVIDED AT ENTRANCES TO JUDGES CHAMBERS... 4. ILLUMINATED EXIT SIGNS AND EGRESS/EMERGENCY LIGHTING WILL BE PROVIDED BY SELF CONTAINED EMERGENCY BATTERY UNITS... 5. INTERIOR OCCUPANCY SENSORS MAY BE UTILIZED FOR LIGHTING CONTROL IN TOILETS, STORAGE ROOMS, AND PRIVATE OFFICES...

B. EXTERIOR LIGHTING SYSTEMS:

- 1. EXTERIOR LIGHTING FIXTURES, LAMPS AND ILLUMINATION LEVELS WILL BE SELECTED IN ACCORDANCE WITH THE INSTALLATION DESIGN GUIDE... 2. EACH BUILDING WILL HAVE A MAIN SWITCHBOARD (MSB) OR A MAIN DISTRIBUTION PANEL (MDP) EQUIPPED WITH A SERVICE DISCONNECTING MEANS...

C. INTERIOR POWER DISTRIBUTION:

- 1. WIRING METHODS AND MATERIALS WILL CONFORM TO THE APPLICABLE REQUIREMENTS... 2. DEDICATED ELECTRICAL SPACE WILL BE PROVIDED AROUND AND ABOVE PANELBOARDS, SWITCHBOARDS, TRANSFORMERS AND SIMILAR ITEMS... 3. TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) WILL BE PROVIDED FOR ALL BUILDINGS... 4. RECEPTACLES WILL BE PROVIDED ADJACENT TO ALL CATV AND DATA JACK LOCATIONS... 5. ALL SWITCHBOARDS, PANELBOARDS, LOAD CENTERS AND FEEDERS WILL BE DESIGNED WITH 20% SPARE CAPACITY... 6. GENERALLY, INTERIOR ELECTRICAL EQUIPMENT WILL BE LOCATED IN DEDICATED ELECTRICAL SPACES... 7. THE SECONDARY ELECTRICAL DISTRIBUTION SYSTEM WILL BE A SOLIDLY GROUNDED NEUTRAL TYPE WITH NO INTENTIONALLY INTRODUCED GROUNDING IMPEDANCE...

D. GROUNDING:

- 1. THE SECONDARY ELECTRICAL DISTRIBUTION SYSTEM WILL BE A SOLIDLY GROUNDED NEUTRAL TYPE WITH NO INTENTIONALLY INTRODUCED GROUNDING IMPEDANCE... 2. A GROUNDING COUNTERPOISE WILL BE PROVIDED AROUND EACH EXTERIOR TRANSFORMER PAD, EXTERIOR CHILLER AND AROUND EACH BUILDING... 3. EACH UTILITY SPACE, SUCH AS MECHANICAL, ELECTRICAL AND TELECOMMUNICATIONS ROOMS WILL BE PROVIDED WITH AT LEAST ONE WALL MOUNTED TELECOMMUNICATIONS OUTLET... 4. GROUNDING AND BONDING WILL CONFORM TO UL 467... 5. A #6 AWG BARE COPPER GROUNDING CONDUCTOR WILL BE PROVIDED FROM THE MAIN SERVICE GROUND BUS TO EACH COMMUNICATIONS ROOM AND BONDED TO THE TELECOMMUNICATIONS SYSTEM GROUNDING BUSBAR... 6. A CONCEALED FRANKLIN TYPE LIGHTNING PROTECTION SYSTEM WILL BE PROVIDED FOR EACH BUILDING... 7. SEISMIC PROTECTION FOR ELECTRICAL SYSTEMS WILL BE PROVIDED AS REQUIRED... 8. EXTERIOR ELECTRICAL SYSTEMS: IN GENERAL, A PAD-MOUNTED SERVICE TRANSFORMER WILL BE PROVIDED TO SERVE EACH BUILDING... 9. AN ACCEPTABLE BUILDING TELECOMMUNICATIONS CABLING SYSTEM ENCOMPASSES, BUT IS NOT LIMITED TO, COPPER AND FIBER OPTIC (FO) ENTRANCE CABLE... 10. VOICE/DATA OUTLETS SHALL BE TWO 8-PIN MODULAR (RJ45 TYPE) OUTLET/CONNECTOR IN A DOUBLE GANG OUTLET FACEPLATE... 11. WIRELESS ACCESS POINT (WAP) OUTLETS. NOT USED... 12. OUTSIDE PLANT TELECOMMUNICATIONS SYSTEMS, THE PROJECT'S FACILITIES MUST CONNECT TO THE INSTALLATION TELECOMMUNICATIONS (VOICE AND DATA) SYSTEM THROUGH THE OUTSIDE PLANT (OSP) UNDERGROUND INFRASTRUCTURE... 13. TELECOMMUNICATIONS ROOMS (TR), TELECOMMUNICATIONS ROOMS AND TELECOMMUNICATIONS ENTRANCE FACILITIES MUST BE PROVIDED FOR UNCLASSIFIED NETWORK AND VOICE EQUIPMENT AND CABLING INFRASTRUCTURE... 14. SIPRNET. NOT USED... 15. PROVIDE A COMPLETELY OPERATIONAL CATV CABLING SYSTEM INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY RACEWAYS, CABLING, TERMINATIONS, JACKS AND FACEPLATES... 16. MASS NOTIFICATION SYSTEM (MNS): A MASS NOTIFICATION SYSTEM WILL BE PROVIDED AND SHALL INTEGRATE INTO THE EXISTING BASE MASS NOTIFICATION SYSTEM...

D. GROUNDING CONTINUED:

- 3. GROUNDING CONDUCTORS WILL BE BARE STRANDED COPPER, DRIVEN GROUNDING ELECTRODES WILL BE 0.75" DIAMETER X 10'-0" COPPER CLAD STEEL GROUND RODS... 4. THE MAXIMUM RESISTANCE TO GROUND OF THE GROUNDING ELECTRODE SYSTEM WILL BE SELECTED IN ACCORDANCE WITH BASE REQUIREMENTS... 5. GROUNDING AND BONDING WILL CONFORM TO UL 467... 6. A #6 AWG BARE COPPER GROUNDING CONDUCTOR WILL BE PROVIDED FROM THE MAIN SERVICE GROUND BUS TO EACH COMMUNICATIONS ROOM AND BONDED TO THE TELECOMMUNICATIONS SYSTEM GROUNDING BUSBAR...

E. LIGHTING PROTECTION SYSTEMS:

- 1. A CONCEALED FRANKLIN TYPE LIGHTNING PROTECTION SYSTEM WILL BE PROVIDED FOR EACH BUILDING IF REQUIRED BY CODE OR BY THE INSTALLATION. LIGHTNING PROTECTION SYSTEMS WILL BE DESIGNED AND INSTALLED.

F. SEISMIC PROTECTION:

- 1. SEISMIC PROTECTION FOR ELECTRICAL SYSTEMS WILL BE PROVIDED AS REQUIRED.

G. EXTERIOR ELECTRICAL SYSTEMS:

- 1. IN GENERAL, A PAD-MOUNTED SERVICE TRANSFORMER WILL BE PROVIDED TO SERVE EACH BUILDING... 2. AN ADVANCED ELECTRICAL METER (CAPABLE OF MEASURING AND RECORDING INTERVAL DATA AT LEAST HOURLY AND COMMUNICATING THE DATA TO A REMOTE LOCATION) SHALL BE PROVIDED FOR THE FACILITY... 3. WIRELESS ACCESS POINT (WAP) OUTLETS. NOT USED... 4. OUTSIDE PLANT TELECOMMUNICATIONS SYSTEMS, THE PROJECT'S FACILITIES MUST CONNECT TO THE INSTALLATION TELECOMMUNICATIONS (VOICE AND DATA) SYSTEM THROUGH THE OUTSIDE PLANT (OSP) UNDERGROUND INFRASTRUCTURE... 5. TELECOMMUNICATIONS ROOMS (TR), TELECOMMUNICATIONS ROOMS AND TELECOMMUNICATIONS ENTRANCE FACILITIES MUST BE PROVIDED FOR UNCLASSIFIED NETWORK AND VOICE EQUIPMENT... 6. SIPRNET. NOT USED... 7. PROVIDE A COMPLETELY OPERATIONAL CATV CABLING SYSTEM INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY RACEWAYS, CABLING, TERMINATIONS, JACKS AND FACEPLATES... 8. EACH UTILITY SPACE, SUCH AS MECHANICAL, ELECTRICAL AND TELECOMMUNICATIONS ROOMS WILL BE PROVIDED WITH AT LEAST ONE WALL MOUNTED TELECOMMUNICATIONS OUTLET...

H. TELECOMMUNICATIONS SYSTEMS:

- 1. AN ACCEPTABLE BUILDING TELECOMMUNICATIONS CABLING SYSTEM ENCOMPASSES, BUT IS NOT LIMITED TO, COPPER AND FIBER OPTIC (FO) ENTRANCE CABLE, TERMINATION EQUIPMENT, COPPER AND FIBER BACKBONE CABLE... 2. VOICE/DATA OUTLETS SHALL BE TWO 8-PIN MODULAR (RJ45 TYPE) OUTLET/CONNECTOR IN A DOUBLE GANG OUTLET FACEPLATE... 3. WIRELESS ACCESS POINT (WAP) OUTLETS. NOT USED... 4. OUTSIDE PLANT TELECOMMUNICATIONS SYSTEMS, THE PROJECT'S FACILITIES MUST CONNECT TO THE INSTALLATION TELECOMMUNICATIONS (VOICE AND DATA) SYSTEM THROUGH THE OUTSIDE PLANT (OSP) UNDERGROUND INFRASTRUCTURE... 5. TELECOMMUNICATIONS ROOMS (TR), TELECOMMUNICATIONS ROOMS AND TELECOMMUNICATIONS ENTRANCE FACILITIES MUST BE PROVIDED FOR UNCLASSIFIED NETWORK AND VOICE EQUIPMENT... 6. SIPRNET. NOT USED... 7. PROVIDE A COMPLETELY OPERATIONAL CATV CABLING SYSTEM INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY RACEWAYS, CABLING, TERMINATIONS, JACKS AND FACEPLATES... 8. EACH UTILITY SPACE, SUCH AS MECHANICAL, ELECTRICAL AND TELECOMMUNICATIONS ROOMS WILL BE PROVIDED WITH AT LEAST ONE WALL MOUNTED TELECOMMUNICATIONS OUTLET...

MASS NOTIFICATION SYSTEM CONTINUED:

- 1. ACU: THE ACU SHALL FORM A COMBINED SYSTEM WITH THE FACP... 2. ACU EQUIPMENT FURNISHED AS PART OF THE INDIVIDUAL BUILDING MNS SHALL BE COMMERCIAL OFF-THE-SHELF AND SHALL BE TESTED TO THE STANDARDS OF UL OR FM BY A NRTL... 3. THE POWER SUPPLY SHALL: (A) BE APPROPRIATE FOR A SYSTEM THAT MEETS AT LEAST THE MINIMUM INDUSTRY STANDARD REQUIREMENTS FOR STANDBY POWER CAPACITY... 4. LOC: PROVIDE A LOC TO ALLOW EMERGENCY RESPONSE FORCES AND BUILDING OCCUPANTS TO ACCESS THE MNS AND ORIGINATE MESSAGES IN EMERGENCY SITUATIONS... 5. NOTIFICATION APPLIANCE NETWORK: USE SPEAKERS SUITABLE FOR THE INTENDED INSTALLATION SATISFYING ALL APPLICABLE REQUIREMENTS... 6. VISUAL APPLIANCE NETWORK: USE VISUAL APPLIANCES SUITABLE FOR THE INTENDED INSTALLATION SATISFYING ALL APPLICABLE REQUIREMENTS... 7. FIRE DETECTION AND ALARM SYSTEM DESIGN: A FIRE ALARM AND DETECTION SYSTEM WILL BE PROVIDED FOR THE BUILDING IN ACCORDANCE WITH THE REQUIREMENTS OF INDUSTRY STANDARDS... 8. THE FIRE ALARM SYSTEM WILL BE A COMPLETELY SUPERVISED SYSTEM EMPLOYING ANALOG ADDRESSABLE INITIATING DEVICES AND MULTIPLEX COMMUNICATION TECHNIQUES... 9. PROVIDE AN INTERFACE BETWEEN THE FIRE ALARM SYSTEM AND THE MASS NOTIFICATION SYSTEM AS REQUIRED.



US Army Corps of Engineers
Louisville District

Table with columns: Revisions, Description, Date, Appr. (with grid for tracking revisions)

Table with columns: Date, Scale, Drawing Code, Project Engineer/Architect (with fields for DOUG POHL / RONNIE PRIDE)

STANARD DESIGN CRITERIA, CONT.

DEPARTMENT OF THE ARMY FACILITY STANDARDIZATION PROGRAM PRE-FINAL DOCUMENTS JUDICIAL CENTER (JC) STANDARD DESIGN

SHEET REFERENCE NUMBER: JC-X003 SHEET 11 OF 12

5

4

3

2

1

