

N40085-10-R-5306

**NAVFAC SPECIFICATION
10-5306**

AMENDMENT NO. 0014

IMPORTANT

This amendment should be acknowledged when your proposal is submitted. Failure to acknowledge the amendment may constitute grounds for rejection of the proposal.

If your proposal has been submitted prior to the receipt of this amendment, acknowledgment should be made, which should state whether the price contained in your proposal is to remain unchanged, is to be decreased by an amount, or is to be increased by an amount. The acknowledgment must be received prior to the due date established for the receipt of proposals.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	9
2. AMENDMENT/MODIFICATION NO. 0014	3. EFFECTIVE DATE 04-Jun-2010	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY NAVFAC MID ATLANTIC NORTH CAROLINA IPT 6506 HAMPTON BLVD NORFOLK VA 23508-1212	CODE N40085	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. N40085-10-R-5306	
			X	9B. DATED (SEE ITEM 11) 02-Dec-2009	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.					
Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u> 1 </u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
DESIGN BUILD / DESIGN BID BUILD MULTIPLE AWARD CONSTRUCTION CONTRACT (MACC) - GENERAL CONSTRUCTION PROJECTS, NAVFAC MID-ATLANTIC AREA OF RESPONSIBILITY (AOR).					
AMENDMENT 0014 ANSWERS REQUESTS FOR INFORMATION.					
RECEIPT OF PROPOSALS REMAINS: 15 JUNE 2010 @ 2:00P.M.					
NO MORE REQUESTS FOR INFORMATION WILL BE RECEIVED.					
NAVFAC POC REMAINS: RAY HINMAN, ray.hinman@navy.mil, OFFICE: 757-322-8398					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		04-Jun-2010	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

AMENDMENT 0013 RFI'S

AMENDMENT NO. 0014

June 4, 2010

TECHNICAL CHANGES

Except as may be otherwise described, bidding materials, and workmanship for the work described herein shall conform to all requirements of the original RFP. The following Amendment to the previously issued RFP is made a part of the project and takes precedent over the section of the previously issued RFP in part, as originally written and over the drawings, in part, as originally drawn and/or written.

This Amendment consists of one written page and the following attachments;

Part 3, Chapter 4 Building Requirements:

Pages 2, 3, 5 and 8.

Part 3; Chapter 5 Room Requirements:

Pages 2, 41, 118, 119, 120, 123, 126, 127, 128, 133, 134 and 135

Part 3, Chapter 6 ESR, B20: Page 1

Part 3, Chapter 6 ESR, C10: Page 1

Part 4, PTS, B20: Page 21

Part 3,

REPLACE:

Part 3, Chapter 4 Building Requirements, page 2, 3, 5 and 8 with attached Part 3, Chapter 4 Building Requirements, page 2, 3, 5 and 8.

REPLACE:

Part 3, Chapter 5 Room Requirements, pages 2, 41, 118, 119, 120, 123, 126, 127, 128, 133, 134 and 135 with attached Part 3, Chapter 5 Room Requirements pages 2, 41, 118, 119, 120, 123, 126, 127, 128, 133, 134 and 135.

REPLACE:

Part 3, Chapter 6 ESR, B20, page 1 with attached Part 3, Chapter 6 ESR, B20, page 1.

REPLACE:

Part 3, Chapter 6 ESR, C10, page 1 with attached Part 3, Chapter 6 ESR, C10, page 1.

Part 4,

REPLACE:

Part 4, PTS, B20, page 21 with attached Part 4, PTS, B20, page 21.

--End of Amendment --

REQUESTS FOR INFORMATION

GWOT SOI East Facilities Camp Geiger at the MCB Camp Lejeune, NC
N40085-10-R-5306

Reference:

Amendment 13, Room Data Sheet

Part 3, Chapter 5, Page 117, Applied Instruction Classroom, Buildings A&C

Question:

The Acoustical Ceiling tile was removed from the scope for this space. No alternate instructions are given for the ceiling. Do we paint the exposed structure above?

Response: Yes. See revised room requirement sheet, Amendment 14.

Reference:

Amendment 13, Room Data Sheet

Part3, Chapter 5, Page 127, Administration Building B

Question:

The Acoustical Ceiling tile was removed from the scope for this space. No alternate instructions are given for the ceiling. Do we paint the exposed structure above?

Response: Yes. See revised room requirement sheet, Amendment 14.

Reference:

Amendment 13, Room Data Sheet

Part 3, Chapter 5, Page 133, Applied Instruction Classroom, Building B

Question:

The Acoustical Ceiling tile was removed from the scope for this space. No alternate instructions are given for the ceiling. Do we paint the exposed structure above?

Response: Yes. See revised room requirement sheet, Amendment 14.

Reference:

Amendments 12 and 13, Passenger/Freight Elevator

Part 3, Chapter 6, ESR D10, Page 1

Question:

ESR D10 was changed to include a paragraph under D101003, "Freight Elevators" The answer to the Question in Amendment 12 calls for a "Freight/Passenger Elevator". Is the intent for two separate elevators or one elevator that accommodates both passengers and freight?

Response: One elevator that accommodates both freight and passengers.

Reference:

Part 3, Chapter 5, Page 31

Amendments 13, Small Auditorium Seating

Question:

The Room Data sheet for the Small Auditorium shows an Item E201003 for fixed seating and describes it as "Fixed Tables". The Remarks section states, "Flip-Up Desk Tops". Do you have a model or specific type in mind? Is this fixed seating with integral Fold-Out Tops?

Response: The fold-tops are integral with the fixed seating. No specific model is specified.

Question:

In the Secure Storage Building the floor plans and space characteristics tables indicate a mechanical room and states "heat and ventilate". Section D30 HVAC item #1 indicates "no mechanical systems required for the Secure Storage Building and Emergency Weather Shelter." Please clarify the requirements.

Response: No mechanical systems are required. See revised building and room requirement sheets, Amendment 14.

Reference:

Part 3 G403002 Cable TV Systems

Telecommunications Outside Plant-CATV Connection

Question:

Please provide the connection point for CATV and CATV entrance conduit.

Response: The CATV will be supplied to the building tele/comm room by the Cable TV provider. Contractor is responsible for conduit inside the building to the telecomm room and the distribution conduit and cable to the outlet locations.

Reference:

Part 3 G403001 Telecommunications Systems

Telecommunications Outside Plant-Copper and Fiber Optic Service Connection Points

Information Requested:

Please provide the connection point, cable ID's, cable pairs, and fiber optic strands for the telecommunications service connections for the Academic Facility, Applied Instructional Facilities, Secure Storage Facility, and the Emergency Weather Shelter.

Response: Connection points are shown in Part 6. Cable requirements are listed in ESR G40. No additional information is available at this time.

Reference:

Emergency Shelter, 5.4 Room Requirements – Part 3, Chapter 5, Page 135

Requirement is for Recycled Shredded Rubber on Concrete Slab. Unifomat Level 4# refers you to B101009.

Question:

There is no section B101009. Please provide the referenced information.

Response: The correct unifomat level #4 is C302004 and the description has been modified to "recycled impact resistant rubber on concrete slab".

Under emergency shelter room requirements please note the following additions:

C302010 Hardeners and Sealers, Hardened and Sealed Cure Concrete Floors

C304004 Metal Finishes, Paint Steel Exposed Structure

See revised room requirement sheet, Amendment 14.

Reference:

Page 6 of 37, In Amendment #7 contains the following question and response:

Question:

LEED Silver rating is specified. Is this just for the Academic Building and the Applied Instruction Building?

Response:

Silver rating for both.

Question:

I believe that the original question's intent was to ask if the LEED Silver rating is required for all six buildings or just the Academic Building and the Applied Instruction Facilities. I'll re-phrase the question. Which of the six buildings are required to obtain a LEED Silver rating? I do not believe that it is possible to obtain LEED Silver certification on the Emergency Shelter due to the fact that this structure provides very few opportunities to obtain points because it is an open structure and the Secure Storage Facility is a bare bones structure that contains a limited number of systems from which to earn points towards a LEED Silver certification.

Response: Only the Academic Building and the Applied Instruction Buildings (3) are required to obtain LEED Silver certification. While the Emergency Weather Shelter and Secure Storage Facility will not be LEED Silver certified, LEED credits shall be pursued to the maximum extent possible.

Question:

The RFP is silent on the issue of who is responsible to pay for the costs associated with the CDW. Please clarify.

Response: The contractor is responsible. See Part 2, Section 01 31 19.05 20, 1.5.

Reference:

Part 3, Chapter 5, Page 2

Question:

Please specify the quantity and size of lockers. This information is missing.

Response: Locker sizes added to room requirement sheet. See Amendment 14.

Reference:

Part 3, Chapter 5, Page 41

Question:

In the box below the words Space Characteristics is the words, "Cipher Locks", but the words, "Cipher Locks", is not in the remarks column of the hardware row. Please clarify.

Response: The words "cypher locks" are added to the remarks column of the hardware line and deleted from space characteristics. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 118

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 119

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 120

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 123

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 126

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 127

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 128

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 133

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 134

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 5, Page 135

Question:

Specifies the emergency lighting will be powered from a central battery system (UPS). Please confirm. If confirmed, please elaborate on the details and location of the central battery system (UPS).

Response: Central battery system has been removed. See revised room requirement sheet, Amendment 14.

Reference:

Part 3, Chapter 6, Page 1, paragraph B201011

Question:

Are Exterior Sun Control Devices optional or mandatory?

Response: Requirement for exterior sun control devices has been removed. See Amendment 14.

Reference:

Part 3, Chapter 6 / ESR E20-page 2, Interior Photography Submittal

Question:

Is this requirement part of the FF&E package? If the FF&E package is not awarded, this requirement is no longer necessary?

Response: No, this is part of the base bid.

Reference:

Part 3, Chapter 3, 3-1

Question:

Existing Conditions for the Secure Storage Building shows complete demolition of D Street. The drawings provided in Amendment #4 only show part of D Street. Please clarify if all of D Street is to be demolished or only as much as needed for the placement of the Secure Storage Building. If all of D Street is required to be demolished please provide the topographic survey for the rest of D Street.

Response: D Street is to be completely demolished as show in Amendment 13. No additional survey information is available.

Question:

The response to the second to last question of page 7 of 7 in Amendment #2 states that the project has been registered as a single project, but also states that each building be certified separately. If the project has been registered as a complete project, it can only be certified as a complete project. If the requirement is to certify each building, than each building will need to be registered and certified individually in Version 3.0. If this is the case, please confirm who is responsible for the registration and certification costs?

Response: It is the intent to have the Academic Building and the Applied Instruction Buildings (3) individually certified under LEED-NC V2.2. It is the Government's understanding that this is possible under the current project registration. If it is determined that this is not possible, the government will be responsible for registration costs if individual certification is still desired.

Reference:

RFP Part 3, Chapter 4, Building Requirements.

Question:

Does not show a ceiling height in these rooms: "Senior Leader Course A, Senior Squad Leader Course B, Infantry Mortar Leaders Course, and Red Cell (COC)". However, RFP, Part 3, Chapter 5, Room Requirements details an ACT type ceiling. Please provide ceiling heights.

Response: The following ceiling heights have been added to the respective lines in Part 3, Chapter 4:

Senior Leader Course A- 12'

Senior Squad Leader Course B- 12'

Infantry Mortar Leaders Course – 12'

Red Cell (COC) – 10'**See revised building requirement sheets, Amendment 14.**

Question:

Amendment 004 has a floor plan that shows storage rooms and a stage in the small auditorium. Part 3, Chapter 4, 4.1 Space Tabulation and the room data sheets do not require these spaces. Are the Storage Room data sheets along with program square footage requirements?

Response: The 2 storage rooms indicated in the small auditorium (one on each side of the stage) are not required.

Question:

The FARS clause 52.212-4 Contract Terms and Conditions, Commercial Items is typically incorporated by reference, but does not appear to be in the RFP. Does FARS clause 52.212-4 apply to the seed project and the IDIQ contract?

Response: Does not apply since there are no commercial items.

Question:

On page 15, of the collateral equipment list in the Weapon Storage Area, no equipment is listed, but there is a note that gun racks will be required for a minimum of 240 weapons. Please confirm the weapons racks are to be provided in the FF&E option and not the base bid.

Response: The space saver racks are part of the weapons storage room requirements and not part of collateral equipment.

Question:

Please confirm if the Secure Storage Building is required to have a Mechanical Room. Originally the requirement included a Mechanical Room, then Amendment 006 eliminated the Mechanical Room and now Amendment 0013 added it back in. Please confirm if the Secure Storage Building is required to have a Mechanical Room. If it is required, what is the purpose because there are no heating, cooling or ventilation requirements for this building?

Response: The Secure Storage Facility does not require a Mechanical Room. See revised building and room requirement sheets, Amendment 14.

Question:

The room requirements in Amendment 0013 for the Small Auditorium shows an occupant load of 150, and the space tabulation in Amendment 0013 shows an occupant load of 450. Please provide the correct occupant load for the Small Auditorium.

Response: The occupant load is 150. See revised building requirement sheet, Amendment 14.

Question:

The room requirements for the Entry Vestibule, Part 3, Chapter 5, Page 49, requires sealed concrete with an AITB emblem incorporated under the space characteristics, but requires a recessed entry mat under the uniformat description. Please confirm if recessed entry mats are required and the number of locations where the AITB emblem is required.

Response: Entry mats are required at all entry vestibules. The AITB emblem is required at the main entrance only.

Question:

The room requirement sheets, Part 3, Chapter 5, require interior aluminum windows and the engineering systems requirements, Part 3, Chapter 6, requires interior windows of hollow metal with bullet resistant metal. Please confirm that either hollow metal (without bullet resistant metal) or aluminum interior windows are acceptable.

Response: Interior windows are aluminum. Bullet resistant hollow metal is not required. Please refer to the revised Part 3, ESR, C101005 and Part 4, PTS C101005.

Reference:

RFI response in Amendment 12, Page 7 of 7.

Question:

Amendment 12, LEED Certification, response states that project is pre-registered under LEED-NCv2.2, but that each building is required to be certified individually. Individual certification will require individual LEED registrations. If individual certifications are required, additional registrations under LEED-NCv3 will be required, because projects can no longer be registered under LEED-NCv2.2. Please verify that one project will be certified under LEED-NCv2.2 and that the three additional buildings will require registration and certification, under LEED-NCv3?

Response: It is the intent to have the Academic Building and the Applied Instruction Buildings (3) individually certified under LEED-NC V2.2. It is the Government's understanding that this is possible under the current project registration. If it is determined that this is not possible, the government will be responsible for registration costs if individual certification is still desired.

Reference:

RFI response in Amendment 12, Page 7 of 7.

Question:

If the buildings are to be certified under LEED-NCv2.2 and LEED-NCv3 as described in the question above, please identify which building shall be certified under LEED-NC2.2?

Response: See answer above.

Reference:

RFI response in Amendment 12, Page 7 of 7.

Question:

Please verify that the government will pay the LEED-NCv3 registration fees required under the previous question.

Response: See answer above.

Reference:

Amendment 13, Room Data Sheet, Chapter 5, Page 31

Question:

See Room Data Sheet for Small Auditorium. Under "Remarks" indicates that block out shades are required. Are these block out shades to be motorized?

Response: Block out shades shall be motorized.

(End of Summary of Changes)

Senior Squad Leader Course A	1	2800	2800	260.13		12'-0"	365.52	67	
Senior Instructor Course "A"	1	100	100	9.29		10'-0"	304.60	1	
Instructor (Bullpen)	6	60	360	33.45		10'-0"	304.60	1	
SENIOR SQUAD LEADER COURSE B									
Senior Squad Leader Course B	1	2800	2800	260.13		12'-0"	365.52	67	
Senior Instructor Course "B"	1	100	100	9.29		10'-0"	304.60	1	
Instructor (Bullpen)	6	60	360	33.45		10'-0"	304.60	1	
INFANTRY MACHINE GUN LEADERS									
Infantry Machine-gun Leader Course	1	840	840	78.04		10'-0"	304.60	40	
Senior Instructor	1	100	100	9.29		10'-0"	304.60	1	
Instructor (Bullpen)	3	60	180	16.72		10'-0"	304.60	1	
INFANTRY MORTAR LEADERS									
Infantry Mortar Leaders Course	1	2300	2300	213.68		12'-0"	365.52	56	
Senior Instructor	1	100	100	9.29		10'-0"	304.60	1	
Instructor (Bullpen)	3	60	180	16.72		10'-0"	304.60	1	
ADV A/A LEADERS COURSE									
Infantry Assault Leader Course									
Infantry Anti-Tank Missileman Course	1	2500	2500	232.26		10'-0"	304.60	56	
Infantry Anti-Tank Leader Course									
Senior Instructor	1	100	100	9.29		10'-0"	304.60	1	
Instructor (Bullpen)	5	60	300	27.87		10'-0"	304.60	1	

M2 Heavy Machinegun Course								
Medium Machinegun Course	1	500	500	46.45	10'-0"	304.60	38	
MK 19 MHG Course								
MISCELLANEOUS								
Small Auditorium	1	2200	2200	204.39	20'-0"	609.20	150	
SAND Table	1	2200	2200	204.39	20'-0"	609.20	50	
Janitor's Closet	1	100	100	9.29	10'-0"	304.60	1	
Storage Room / Copy Room	3	80	240	22.30	10'-0"	304.60	1	
Communications Room	1	100	100	9.29	10'-0"	304.60	1	
Student Lounge	1	500	500	46.45	10'-0"	304.60	12	
Showers / Lockers	1	2130	2130	197.88	10'-0"	304.60	80	
Female Shower and Head	1	50	50	4.65	10'-0"	304.60	1	
Male Head	1	50	50	4.65	10'-0"	304.60	1	
Weapons Storage Area	1	500	500	46.45	10'-0"	304.60	2	
Duty Area / Counter Area - Main Entrance	1	100	100	9.29	10'-0"	304.60	4	
Bunk Area	1	100	100	9.29	10'-0"	304.60	2	
Elevator / Elevator Mechanical Room	1	180	180	16.72	10'-0"	304.60	1	
Male Public Head	1	120	120	11.15	10'-0"	304.6	3	
Female Public Head	1	120	120	11.15	10'-0"	304.6	3	
Mechanical	1	100	100	9.29	10'-0"	304.6	1	
Electrical	1	80	80	7.43	10'-0"	304.6	1	
Subtotal Net Area			28525	2650.06				
Net to Gross Factor			1.25	1.25				
1st Floor Gross Area			35656	3312.57				
The design build contractor shall provide actual area in both square feet and square meters in proposals.								

Infantry Operations Chief Course									
Infantry Company Ops Chief Course	1	1375	1375	127.74		12'-0"	365.52	28	
COC LAB									
RED CELL - COC	1	600	600	55.74		10'-0"	304.60	26	
Chief Instructor	1	100	100	9.29		10'-0"	304.60	1	
Instructor	2	90	180	16.72		10'-0"	304.60	1	
INFANTRY UNIT LEADERS SECTION									
Infantry Unit Leader Course	1	1500	1500	139.35		12'-0"	365.52	59	
Senior Instructor	1	100	100	9.29		10'-0"	304.60	1	
Instructor (Bullpen)	6	60	360	33.45		10'-0"	304.60	1	
AIT COMPANY									
Section OIC	1	100	100	9.29		10'-0"	304.60	1	
Section SNCOIC	1	100	100	9.29		10'-0"	304.60	1	
MOBILE TRAINING COMPANY									
Company Commander	1	100	100	9.29		10'-0"	304.60	1	
INSTRUCTOR COMPANY									
Company Commander	1	100	100	9.29		10'-0"	304.60	1	
First sargeant	1	100	100	9.29		10'-0"	304.60	1	
Training Officer	1	100	100	9.29		10'-0"	304.60	1	
Combat Hunter (MTT)									
Infantry Train The Trainer (T3)	1	2500	2500	232.26		12'-0"	365.52	89	
Infantry Train The Trainer (T3)									

Space Name	# of spaces	Unit SF (Net)	Total SF (Net)	Total SQM (Net)	Ideal Dimensions?	Ceiling Height (ft)	Ceiling Height (cm)	# of Occupants	Remarks
SECURE STORAGE FACILITY									
Storage	1	3636	3636	337.80		8'-0"	243.68	6	
Subtotal Net Area			3636	338					
Net to Gross Factor			1.10	1.10					
TOTAL GROSS AREA			4000	371.57					
EMERGENCY WEATHER SHELTER									
Emergency Weather Shelter	1	8000	8000	743.22		20'-0"	609.20		
Subtotal Net Area			8000	743.22					
Net to Gross Factor			1.00	1.00					
TOTAL GROSS AREA			8000	743.22					

4.2 Space Relationships

The rooms are grouped in the Room List by shared need. The rooms within each grouping shall be adjacent to each other.

Refer to PART 6, "ROOM LISTS - COLOR CODED" and PART 6, sheet "A101", "FIRST FLOOR DIAGRAM" and "SECOND FLOOR DIAGRAM" for general adjacency relationships between the room groupings.

4.3 Exterior Character

The Academic and Applied Instruction Buildings' exterior design shall meet the guidelines of the Camp Lejeune Base Exterior Architectural Plan (BEAP) and include brick, split face CMU and a standing seam metal roof. The exterior colors shall meet the BEAP guideline. Provide exterior windows and aluminum storefront windows meeting the BEAP requirements.

The Secure Storage Facility exterior design shall match the exterior design of the adjacent Armory.

The Emergency Weather Shelter's roof, roof colors and support frame shall meet the guidelines of the Camp Lejeune Base Exterior Architectural Plan (BEAP).

MARINE COMBAT INSTRUCTOR COURSE

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
<p>Function: Classroom for providing training in coaching skills for individual and crew served weapons and optic, reinforcement of both day and night land navigation, Communications, CPR and First Aid procedures, Combat Marksmanship, Combat Life Savers, Scouting, Patrolling, IED, Guardian Angle, and Convoy Operations.</p> <p>Special Dimensions:</p> <p>Acoustics:</p> <p>Occupancy: 52</p> <p>Access: MCIC instructor bullpen and corridor</p> <p>Other: Provide lighting, switches and convenience outlets per UFC requirements.</p> <p>HVAC: Air condition.</p>	B202001	Exterior Windows	Aluminum Windows			Refer to UFC 4-010-01 for AT/FP blast resistance requirements
	B202004	Exterior Glazing	Insulating Glass Units			Refer to UFC 4-010-01 for AT/FP blast resistance requirements
	C101001	Fixed Partitions	CMU Walls			
	C101005	Interior Windows	Aluminum Windows			
	C101007	Interior Glazing	Clear Glass			
	C102001	Standard Interior Door	Wood Door/ H.M. Frame			Flush
	C102007	Int. Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C103005	Lockers	Metal Double Tier	Remarks	18" x12" x 72"	52 half height lockers
	C302007	Wall Base Finishes	Rubber Wall Base			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C303001	Ceiling Finishes	Acoustical Ceiling Tile		2'-0" x 2'-0"	
	C304003	Concrete Masonry Finishes	Paint CMU Walls			
	C304004	Metal Finishes	Paint HM Door Frame			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			In addition to UFC-required power distribution, provide power for AV systems.
	D502002	Lighting Equipment	Lighting			
	D503090	Other Communications and Alarm Systems	Audio / Visual Systems			
	E102009	Audio-Visual Equipment	Various equipment			Provide all structural supports, electrical and tel/data requirements for audio visual equipment listed in the Part 6 Collateral Equipment list.

DUTY AREA / COUNTER AREA – MAIN ENTRANCE

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
<p>Function: Small reception area for 2-3 people. Special Dimensions:</p> <p>Acoustics:</p> <p>Occupancy: 3</p> <p>Access: Unsecured</p> <p>Other: Provide lighting, switches and convenience outlets per UFC requirements.</p> <p>HVAC: Air condition.</p>	C101001	Fixed Partitions	CMU Walls			
	C101005	Interior Windows	Aluminum Windows			Operable windows at counter
	C101007	Interior Glazing	Clear Glass			
	C101090	Other Partitions	Pass Thru Window			Part of Interior Window Assembly
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			Half Glass Door with Glazing
	C102007	Interior Door Hardware	Door Hardware			Cipher locks
	C103004	Identifying Devices	Graphics Application			
	C103008	Counters	Solid Surface Countertop			
	C103090	Other Interior Specialties	Wall Mount for TV			
	C302004	Resilient Floor Finishes	VCT			
	C302010	Hardeners and Sealers	Floor Sealer			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C303001	Ceiling Finishes	Acoustical Ceiling Tile		2'-0" x 2'-0"	
	C304003	Concrete Masonry Finishes	Paint CMU Walls			
	C304004	Metal Finishes	Paint HM Door Frame			
	D201006	Plumbing Fixture	Electric Water Cooler			In Corridor
	D30	HVAC	General System Requirements			

APPLIED INSTRUCTION CLASSROOM

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
	C304004	Metal Finishes	Paint Steel Door & Hollow Metal Door Frame			
	C304004	Metal Finishes	Paint exposed structure			
	D201006	Plumbing Fixture	Electric Water Cooler			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
	D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.
	E201002	Window Treatments	1" Horizontal Blinds			

ADMINISTRATION

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
<p>Function: Private office</p> <p>Special Dimensions:</p> <p>Acoustics:</p> <p>Occupancy: 1</p> <p>Access: Unsecured</p> <p>Other: Provide lighting, switches and convenience outlets per code regulation and requirements.</p> <p>HVAC: Air condition.</p>	C101001	Fixed Partitions	Gypsum Wallboard on Metal Studs			
	C101005	Interior Windows	Aluminum Windows			
	C101007	Interior Glazing	Clear Glass			
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			Half Glass Door with Glazing
	C102007	Interior Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C301003	Gypsum Wallboard Finishes	Paint Gypsum			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C303001	Ceiling Finishes	Acoustical Ceiling Tile		2'-0" x 2'-0"	
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C304004	Metal Finishes	Paint Hollow Metal Door Frame			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.	
E201002	Window Treatments	1" Horizontal Blinds				

INSTRUCTOR

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
<p>Function: Private office</p> <p>Special Dimensions:</p> <p>Acoustics:</p> <p>Occupancy: 1</p> <p>Access: Unsecured</p> <p>Other: Provide lighting, switches and convenience outlets per code regulation and requirements.</p> <p>HVAC: Air condition.</p>	C101001	Fixed Partitions	Gypsum Wallboard on Metal Studs			
	C101005	Interior Windows	Aluminum Windows			
	C101007	Interior Glazing	Clear Glass			
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			Half Glass Door with Glazing
	C102007	Interior Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C301003	Gypsum Wallboard Finishes	Paint Gypsum			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C303001	Ceiling Finishes	Acoustical Ceiling Tile		2'-0" x 2'-0"	
	C304004	Metal Finishes	Paint Hollow Metal Door Frame			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.	
E201002	Window Treatments	1" Horizontal Blinds				

COMMUNICATIONS ROOM

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
Function: Communications link Special Dimensions: Acoustics: Occupancy: 1 Access: Secured Other: Provide lighting, switches and convenience outlets per code regulation and requirements. HVAC: Air condition.	C101001	Fixed Partitions	Gypsum Wallboard on Metal Studs			
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			
	C102007	Interior Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C301003	Gypsum Wallboard Finishes	Paint Gypsum			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C304004	Metal Finishes	Paint Hollow Metal Door Frame			
	C304004	Metal Finishes	Paint exposed structure			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
	D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.

APPLIED INSTRUCTION CLASSROOM

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
	C304004	Metal Finishes	Paint Steel Door & Hollow Metal Door Frame			
	C304004	Metal Finishes	Paint exposed structure			
	D201006	Plumbing Fixture	Electric Water Cooler			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
	D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.
	E201002	Window Treatments	1" Horizontal Blinds			

ADMINISTRATION

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
Function: Private offices Special Dimensions: Acoustics: Occupancy: 1 Access: Unsecured Other: Provide lighting, switches and convenience outlets per code regulation and requirements. HVAC: Air condition.	C101001	Fixed Partitions	Gypsum Wallboard on Metal Studs			
	C101005	Interior Windows	Aluminum Windows			
	C101007	Interior Glazing	Clear Glass			
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			Half Glass Door with Glazing
	C102007	Interior Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C301003	Gypsum Wallboard Finishes	Paint Gypsum			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C304004	Metal Finishes	Paint HM Door Frame			
	C304004	Metal Finishes	Paint exposed structure			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.	
E201002	Window Treatments	1" Horizontal Blinds				

INSTRUCTOR

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
<p>Function: Private office</p> <p>Special Dimensions:</p> <p>Acoustics:</p> <p>Occupancy: 1</p> <p>Access: Unsecured</p> <p>Other: Provide lighting, switches and convenience outlets per code regulation and requirements.</p> <p>HVAC: Air condition.</p>	C101001	Fixed Partitions	Gypsum Wallboard on Metal Studs			
	C101005	Interior Windows	Aluminum Windows			
	C101007	Interior Glazing	Clear Glass			
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			Half Glass Door with Glazing
	C102007	Interior Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C301003	Gypsum Wallboard Finishes	Paint Gypsum			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C303001	Ceiling Finishes	Acoustical Ceiling Tile		2'-0" x 2'-0"	
	C304004	Metal Finishes	Paint HM Door Frame			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.	
E201002	Window Treatments	1" Horizontal Blinds				

COMMUNICATIONS ROOM

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
Function: Communications link Special Dimensions: Acoustics: Occupancy: 1 Access: Secured Other: Provide lighting, switches and convenience outlets per code regulation and requirements. HVAC: Air condition.	C101001	Fixed Partitions	Gypsum Wallboard on Metal Studs I			
	C102001	Standard Interior Door	Wood Door/ Hollow Metal Frame			Flush
	C102007	Interior Door Hardware	Door Hardware			
	C103004	Identifying Devices	Graphics Application			
	C301003	Gypsum Wallboard Finishes	Paint Gypsum			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C302007	Wall Base Finishes	Rubber Wall Base			
	C304004	Metal Finishes	Paint HM Door Frame			
	C304004	Metal Finishes	Paint exposed structure			
	D30	HVAC	General System Requirements			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
	D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.

5.3 ROOM REQUIREMENTS P-1268 SECURE STORAGE FACILITY

SECURE STORAGE

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
Function: Secure storage for weapons Special Dimensions: Acoustics: Occupancy: 6 Access: Secured Other: Provide lighting, switches and convenience outlets per code regulation and requirements. HVAC:	B203001	Solid Doors	Steel Exterior Door and Frame			
	B203008	Exterior Door Hardware	Door Hardware			
	C101001	Fixed Partitions	CMU Walls			
	C103004	Identifying Devices	Graphics Application			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C304003	Concrete Masonry Finishes	Paint CMU Walls			
	C304004	Metal Finishes	Paint Steel Deck Ceiling			
	C304004	Metal Finishes	Paint Steel Exterior Door and Hollow Metal Door Frame			
	D203003	Floor Drain	Round			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
	D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.

5.4 ROOM REQUIREMENTS P-1268 EMERGENCY WEATHER SHELTER

EMERGENCY WEATHER SHELTER

Space Characteristics	Uniformat Level 4#	Uniformat Title	Description	Quantity	Size	Remarks
<p>Function: Shelter from inclement weather for field exercises</p> <p>Special Dimensions:</p> <p>Acoustics:</p> <p>Occupancy: 200</p> <p>Access: Unsecured</p> <p>Other: Provide lighting, switches and convenience outlets per code regulation and requirements.</p>	B102001	Structural Frame	Prefabricated Roof Structure			
	C302004	Other Floor Construction	Recycled Impact Resistant Rubber On Concrete Slab			
	C302010	Hardeners and Sealers	Hardened and Sealed Cure Concrete Floors			
	C304004	Metal Finishes	Paint Steel Exposed Structure			
	D50	Electrical	Electrical			
	D502001	Branch Wiring	Wiring			
	D502002	Lighting Equipment	Lighting			
	D509002	Emergency Lighting and Power	Emergency Lighting			Provide emergency lighting from separate, dedicated, wall mounted emergency luminaires.

6. ENGINEERING SYSTEMS REQUIREMENTS

B20 EXTERIOR ENCLOSURE

SYSTEM DESCRIPTION

This system consists of the exterior facing of the facility, which includes all vertical and horizontal exterior closure such as exterior walls, exterior windows, and exterior doors. This system excludes roofing (See System B30, *Roofing*). Load bearing exterior walls will be included here, and not in System B10, *Superstructure*. Structural frame elements at exterior such as columns, beams, and spandrels are included in *Superstructure*, with only the applied exterior finishes (e.g., paint, stucco) being included here. Finishes to the inside face of walls which are not an integral part of the wall construction will be included in System C30, *Interior finishes*.

GENERAL SYSTEMS REQUIREMENTS

B2010 EXTERIOR WALLS

The primary exterior material of the buildings shall be brick masonry split-faced and concrete masonry and metal panels. Back-up wall system for veneer construction shall be concrete masonry.

B201001 EXTERIOR CLOSURE

Provide brick veneer exterior wall closure. Provide split face concrete masonry unit exterior wall closure.

B201002 EXTERIOR WALL BACKUP CONSTRUCTION

Provide Exterior Wall Construction System (back-up systems for wall veneer) including unit masonry.

Exterior bearing walls consisting of metal studs as the primary floor or roof supporting structural element are not permitted.

B201003 INSULATION AND VAPOR RETARDER

Provide insulation and vapor barrier.

B201004 PARAPETS

Provide parapets for exterior wall construction, where required for low-slope roofs.

B201005 EXTERIOR LOUVERS & SCREENS

Provide exterior louvers and screens, where required, that match the finish of the existing windows and detailed to integrate with the architecture of the building, as appropriate to the design of the building.

B201006 BALCONY WALLS & HANDRAILS

Not used.

B201007 EXTERIOR SOFFITS

Provide exterior soffit system: metal.

B201009 EXTERIOR PAINTING AND COATINGS

Provide field applied exterior coatings for all items that are not prefinished, and to prefinished items when required to provide a color other than a standard prefinished color.

B201010 EXTERIOR JOINT SEALANTS

Provide exterior application of joint sealants to seal joints and prepare for finish material installation.

B201011 SUN CONTROL DEVICES (EXTERIOR)

Not used.

6. ENGINEERING SYSTEMS REQUIREMENTS

C10 INTERIOR CONSTRUCTION

SYSTEM DESCRIPTION

Interior construction includes interior partitions, interior doors, and fittings.

Provide durable construction appropriate to the buildings' use. . For the Applied Instruction Facility acoustic properties of materials, as well as durability, shall be considered during material selection.

GENERAL SYSTEMS REQUIREMENTS

Areas of the Project are subject to abuse and require that "impact Resistant" systems be provided. See "Room Requirements" for specific requirements on "Partitions", "Interior Doors", and "Fittings".

C1010 PARTITIONS

All interior partitions shall be either concrete masonry or metal studs with gypsum board each side.

C101001 FIXED PARTITIONS

Provide fixed interior partitions, except where demountable or retractable partitions are specifically required by the "Room Requirements." Sound-rated partition assemblies shall have a minimum Sound Transmission Coefficient (STC) of 42 in accordance with ASTM E 90 or ASTM E 413 for frequency data.

C101002 DEMOUNTABLE PARTITIONS

Not used.

C101003 RETRACTABLE PARTITIONS

Provide retractable partitions to include operable panel partitions and. Sound-rated partition assemblies shall have a minimum Sound Transmission Coefficient (STC) of 36 42 in accordance with ASTM E 90 or ASTM E 413 for frequency data.

C101004 INTERIOR GUARDRAILS AND SCREENS

Provide balustrades where required by code. Provide screens where required to prohibit view of a particular area.

C101005 INTERIOR WINDOWS

Provide interior windows of aluminum, fixed.

C101006 GLAZED PARTITIONS & STOREFRONTS

Provide glazed storefront system.

C101007 INTERIOR GLAZING

Interior glazing shall be clear glass, wire glass, patterned glass, laminated glass, bullet resistant glass, tempered glass, plastic glazing.

C1020 INTERIOR DOORS

C102001 STANDARD INTERIOR DOORS

All interior doors shall be flush.

All interior doors shall be wood or hollow metal in hollow metal frames. Flush wood doors shall be WDMA I.S.1A-04, premium custom grade, heavy duty.

2) MPI EXT/REX 9.1J-G5 (Semigloss); P:MPI 3, I:MPI 11, T:MPI 11

B201010 EXTERIOR JOINT SEALANT

Sealant joint design, priming, tooling, masking, cleaning and application shall be in accordance with the general requirements of *Sealants: A Professionals' Guide* from the Sealant, Waterproofing & Restoration Institute (SWRI). All sealant shall conform to ASTM C 920.

Joints shall include proper backing material for sealant support during application, control of sealant depth, and to act as a bond breaker. Use filler boards, backer rods and bond breaker tapes. Provide priming unless specifically not recommended by the sealant manufacturer. Applied sealant shall be tooled. Tooling shall not compact sealant too less than the minimum sealant thickness required. Mask adjacent surfaces to control sealant boundaries during sealant application.

B201011 SUN CONTROL DEVICES (EXTERIOR)

Not used.

B201011 1.1 EXTERIOR SUN SCREENS

Not used.

B201012 SCREEN WALL

NOT USED.

B2020 EXTERIOR WINDOWS

Standard windows shall be in compliance with ANSI/AAMA/WDMA 101, SWI SWS, UFC 4-010-01, and the design criteria of ASCE 7 for glazed windows to meet the Building Code.

If required, provide windows that meet the requirements of AAMA/WDMA 101/I.S.2. Residential construction shall utilize windows that comply with AAMA LC-25 designation unless the wind pressure on the building exceeds 38 psf (185 Kg/m²). Commercial (non-residential) construction shall utilize windows that comply with AAMA designation HC-40 (60 psf - 293 Kg/m²) for windows that do not have to meet anti-terrorism requirements, and HC-60 (90 psf - 439 Kg/m²) for commercial windows that are required to meet anti-terrorism requirements, unless the wind pressure or blast pressure on the building exceeds the design pressure for these minimum windows. Determine the wind pressure on the building by converting the ASCE-7 basic wind speed to wind pressure and find the corresponding structural test pressure in the AAMA specific requirements or optional performance tables. If the residential window wind pressure