

**CONCEPTUAL DESIGN PHASE
SUBMITTAL**

**New Ft. Campbell National Guard
Readiness Center**

SBC Project No. 368/014-01-2021
Architect's Project No. 1423



DRAFT

December 15, 2022

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New Ft. Campbell National Guard Readiness Center

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Design Narrative

Program

The space program presented by Forms 1390/1391 has been received, confirmed and explained over several meetings with TARNG staff. These clarifications are referenced in the Action Items (Issues) Appendix.

The program is developed into two functional zones:

Schedule I - Common Use Spaces

Schedule II - Unit and Special Space Allowances

Program square footage required 36,045 GSF and an additional 1,264 GSF for a detached storage building for a total of 37,307 GSF. Actual designed square footage is comprised as follows:

Building Gross Square Footage	34,065
Detached Storage Square Footage	<u>1,260</u>
	35,325 (1,984SF under program)

Reference following page for detailed accounting of program vs actual spaces.

Space Planning and Layout

The floor plan reflects a conscious effort to arrange the major components to create a focused sense of entry on a symmetrical axis towards the main roadway and the formal post parade ground.

The elements are arranged with the Assembly Hall as the hub of connectivity to unit functions of dining, locker rooms, toilets and equipment storage. The two-story entry feature is focused on a bi-lateral circulation scheme that connects the Assembly Hall and the other major functions of Administration and Classrooms effectively zoning them with respect to the primary entrance and establishing an effective public control zoning.

Program Space Schedule

No.	DESCRIPTION	PROGRAM NSF	ACTUAL NSF
SCHEDULE I – COMMON USE AREAS			
1	Assembly Hall	5400	5437
2b	Classrooms	2360	2360
3	Learning Center	500	503
4	Multi Purpose Training	1500	1547
5	Kitchen	800	868
6	Break / Vending	225	346
7	Toilets / Shower	1663	1898
8	Flammable Materials Storage	80	0
9	Lactation Area	80	80
10	Family Readiness Office	250	275
12	Retention Office	110	118
13	Table / Chair Storage	300	346
14	Physical Fitness	700	701
15	Controlled Waste	198	0
SCHEDULE II – UNIT & SPECIAL SPACE ALLOWANCES			
1	Administration Office	2550	2416
2a	Arms Vault	600	600
2e	Unit Storage (Incl. Office)	2700	2820
3	Locker Rooms	2648	2767
4L	General Purpose Training Bay	2880	2855
		PROGRAM	ACTUAL
Total Readiness Center Net Area		25,544	25,937
Total Readiness Center Gross Area		36,045	34,065
Total Detached Storage Building		1,260	1,260

Site Planning

The building is sited so as to present the public and main entrance to the major roadways and views on the east and south orientation which address the major vehicle and pedestrian arteries. The orientation aligns with the existing planning grid of the post in the local vicinity and with the existing UTES buildings on the site which align with existing circulation patterns onsite. A clear zone and stand-off distance of 33 feet is provided outside of these elevations. POV and visitor vehicular access and parking is “L” shaped at the east and south elevations. 130 parking spaces are provided with convenient access for staff from the south. The MVSA wraps the building on the west and north sides and provides storage for 20 military vehicles, the detached storage unit and access to the GPTB, Unit Storage and vehicular access to the Assembly Hall.

Grading of the actual building site will be minor exclusive of possible undercutting, however, grading to supplement UTES functions is significant. The building occupies a plateau which has formerly been utilized for the heavy vehicle parking and storage of the adjacent UTES facility. Drainage will slope away from the building in all four directions. The existing jogging trail shall be relocated by the base installation and is not work of the contract.

Building Massing and Exterior Materials

The building's material selection will address the codified aesthetic of the Ft. Campbell base which has definitive standards for exterior materials and colors. Variances will be sought through DPW for minor deviations from standards if they occur which are currently contemplated.

The building's symmetrical massing of the east elevation helps to focus on the significant entrance feature which will contain a screened image of the "Guard" logo illustration applied to the inner layer of glass above the vestibules inner door array.

The scheme utilizes a combination of brick types, colors and styles with cast stone trim bands and inset coursing as accents and a combination of metal panel wall systems to provide visual interest and accent to otherwise plain volumes and massing.

Design Criteria

Applicable Codes and Regulations

2012 International Building Code
2012 International Fire Code
2012 International Energy Conservation Code
2012 International Plumbing Code
2012 International Mechanical Code
2012 International Fuel Gas Code
2017 National Electric Code
2012 Life Safety Code NFPA 101
2010 ADA Standards for Accessible Design

Building Code Parameters

Occupancy Type:	B Business/A2 Assembly - Mixed	
Construction Type:	II B Sprinklered	
Stories:	1	
Allowable Area	23,000 x 300% Area Increase + 69,000	
Actual Area	35,065	
Allowable Ht	55	
Actual Ht	28'	
Required Construction Ratings:	None	
Allowable Square Footage	UL	
Occupant Count	(sf/occ)	(occ.)
Assembly Hall	15	360
Kitchen	200	5
Balance of Building	100	<u>300</u>
Total		665

Fire Protection

Corridor Separation	0
Occupancy Separation – B/A2	1 hr
Other – Mech/Stg	1 hr

Opening Protection

Mechanical/Occ./Separation	45 min
Travel Distance to Exits	300

Drainage and Public Utilities

This site is served by all public utilities including storm sewer, sanitary services, gas and water.

Geotechnical Information

An investigation has been performed consisting of 5 shallow borings, two in the proposed building footprint and three outside. Certain recommendations are under review.

Topographical Survey

A survey has been performed and is in process of being expanded and upgraded.

Hazardous Materials

No hazardous materials are anticipated.

Construction Criteria

Sitework

Demolition:	Removal and reconstruction of Building 3090C (BII) and relocation of above-grade tank dehumidification systems.
Earthwork:	Excavation and backfill. A possible large extent of engineered fill anticipated. Anticipate potential additional cost for unsuitable soils currently under review and consideration.
Walks:	Broom swept concrete typical.
Gates/Fencing:	6ft. three-strand barb wire over six foot chain link fencing surrounding the MVSA. Access by swinging gate, automatic horizontal gate as an alternate.
Pads/Screens:	Brick veneer walls with cast stone copings w/o gates. Pads & aprons to be reinforced concrete.
Vehicular paving:	A combination of flexible asphalt paving for POV parking and reinforced concrete with concrete curbs & gutters where appropriate.
Drainage:	Civil Design Narrative is attached. Drainage will combine surface flow & subsurface system to be determined. A drainage/bioretention basin is being considered.
Landscaping:	Groundcovers to be sod. Trees, ornamental plants and shrubbery to be indigenous species. Very limited shrub planting envisioned. No irrigation is proposed.
Site Furnishings:	Low masonry walls flanking entry sidewalk with stone caps for seating.

Site Utilities:

Water – Post Installation.
Sanitary Sewer – Post Installation.
Storm Sewer – Post Installation.
Electrical – Underground Secondary
from OH primary

Architectural Systems

Roofing Systems:

Low-sloped roofing will be single-ply 90mil EPDM adhered membrane per State of Tennessee requirements for a thirty-year warranty. Membrane installed over adhesively installed HD cover board over mechanically attached rigid glass-faced polyisocyanurate insulation over metal decking. Tapered insulation Deck slopes drain water to interior roof drains located at exterior wall locations with through-wall scupper overflows. Tapered insulation crickets direct water to drains. Primary drainage is piped to storm sewer.
Roofing of sloped entrance feature is standing seam metal.

Envelope Systems:

Exterior Walls – A combination of insulated CMU with brick veneer reinforced CMU masonry cavity walls with and metal stud-framed brick veneered cavity walls sheathed with a silicone core treated glass fiber faced gypsum sheathing with a liquid applied air and moisture barrier system over. Brick to be utility sized, a two style scheme with a combination of ranged and single accent color derived from the range. Horizontal accent bands shall be cast stone or Arriscraft.
Concealed fastener Single-Skin Metal Siding is a combination of profiles and applications with Kynar finish applied as a rain screen.

Exterior entrance doors shall be thermally improved wide-stile aluminum storefront entrance system with HD anodic finish.

Glazing systems shall be a combination of thermally improved HD anodized aluminum storefront and curtain wall systems with high-performance, clear Low-E glazing.

Insulation values per 2012 IECC per State of Tennessee requirements.

Interior Systems

Floor Finishes:

Carpet tiles will be employed in all Offices, Classroom and the Family Readiness Room.

Ceramic tile shall be used in Toilet rooms, Locker Rooms and Shower areas. Quarry Tile will be used in all Kitchen areas.

Sealed concrete shall be used in the Assembly Hall, all mechanical and electrical rooms. Lockers and Unit Storage.

Vinyl Composition Tile will be used in the Lobby, Corridors, Break Room and Lactation Room

Wall Finishes:

The Lobby, Office and Classroom corridors shall be Ground Face CMU to door head ht. with painted walls above.

Ceramic Tile to door head ht. with epoxy paints above will be used in Toilet, Locker and Shower Rooms.

Kitchen wall will be a combination of FRP panels in preparation, serving and

cleaning areas and epoxy enamel in other areas.

Wall finishes in all other areas will be semi-gloss acrylic paint on CMU and gypsum board.

Partition Systems:

Partition systems will be load-bearing and non-load-bearing CMU and metal framed gypsum board partitions. Impact resistant gypsum board where appropriate.

Ceiling Systems:

Ceiling systems will be suspended 2'x2' acoustical panel systems on metal grid and a combination of cast and perforated panels with clean-room panels in Kitchen areas. The Assembly Hall, Lockers and Unit Storage areas will have dry-fog painted acoustical metal exposed decking.

Metal decking in the Assembly Hall will be slotted and acoustically enhanced.

Doors:

Interior doors for office and classroom areas shall be solid core with wood pattern HPL laminated faces for durability and aesthetics. All other doors to be painted hollow metal units in welded hollow metal frames, heavy duty for exterior use.

Aluminum and glass doors in storefront framing for high-frequency main entrance openings.

Overhead doors to be electronic coiling units with insulated steel slats, factory finished.

Door hardware shall be lever style cylindrical Grade 1 removable core commercial lockset and latchsets. Staff entrances to have electronic monitored and supervised control system TBD.

Trim & Casework:	Minimal trim is anticipated in the interior. Casework shall be all plastic laminate – 20 mm faceless system where appropriate.
Vanities:	Solid surfacing on plywood
Specialty Items:	Toilet accessories will be chromium plated brass or steel. Toilet partition systems shall be phenolic core laminate surfaced panels.
	Fire extinguishers shall be bracket mounted and semi-recessed painted cabinets in hallways.
Structural Systems:	Structural system narrative is attached.
Mechanical/Electrical Systems:	MPE systems narrative is attached.

Civil Design Narrative

EXISTING CONDITIONS

The proposed Readiness Center site is located on approximately 17 acres that is shared with the UTES facility. The Readiness Center will take up approximately 6 acres. Approximately half of the property is gravelled and used for storage by the UTES facility. The remainder of the property is undeveloped and vegetated with native grasses. The site is bounded to the east by Market Garden Road, to the south by 47th Street, to the west by Tank Trail, and to the north by the UTES facility. Existing Building C6090 is located on the proposed site and will be re-located as a part of the project.

SITE DESIGN

A schematic site design has been developed that shows locations of the proposed Readiness Center, the relocated C6090 building and a proposed storage building. Asphalt pavement is provided for 122 9'X18' parking spaces and 5 accessible parking spaces. Mechanical concrete pads are provided for a chiller, a generator, and a dumpster. A large fenced area of concrete pavement is provided for MVSA. The existing UTES storage that is being affected by the Readiness Center is being relocated as a part of this project.

SITE GRADING AND DRAINAGE

Existing drainage flows drain from the existing storage areas to the roadside ditches and then northeast to a depression area located west of Market Garden Road. Flows in the depression area leave the site through two 6" orifices/pipes that drain into existing 84" and 54" storm pipes. Both storm pipes extend several hundred feet southwest of the site.

A bio-retention area is proposed that will collect roof drainage as well as the large POV parking area. Flows will filter through the bio-retention area. Bio-retention underdrainage will collect the filtered water and carry it to the depression area.

Given the existing topography it is anticipated that soils will have to be imported in order to grade the site to the proposed contours. Additionally, the building pad may be underlain with CH soils. Undercut may be necessary under the building pad. Costs can be offset by placing the CH soils in the deeper fills of the UTES storage area instead of disposing of them off-site.

EROSION AND SEDIMENT CONTROL

Erosion control will be a priority for this project. The proposed approach is to stabilize any disturbed areas as soon as practical. This will generally be accomplished with Fescue or Bermuda sod. A combination of silt fence, check dams, filter rings, inlet protection, and other Best Management Practices will be employed to ensure that no sediment will leave the site.

UNDERGROUND UTILITIES

All site utilities are reasonably accessible to the site.

A 10" water main is located north of the UTES facility. A 6" water main will tie to the existing 10" main and extended approximately 1,700 feet south to the Readiness Center. It is anticipated that a 4" domestic line and a 6" fire line service the building.

8" gravity sewer is located northeast of the site. Approximately 470 linear feet of Gravity sewer will be installed to the Readiness Center. A grease interceptor will treat flows from the center kitchen before it enters the sewer system.

A 2" gas main is located along 47th Street, where it will be tapped and extended to the Readiness Center.

Three-phase overhead electric is also existing along 47th Street. Electric service will be tapped at 47th Street and extended to the Readiness Center.

Structural Design Narrative

The proposed project will have a building footprint of approximately 36,000 square feet. The new facility will be a single-story structure with roof height of approximately 16'-0" with the exception of "high bay" areas, with roof height of approximately 25'-0".

The superstructure and foundation for the new facility shall be designed in accordance with the 2012 International Building Code and ASCE 7-10 "Minimum Design Loads for Buildings and Other Structures".

Site preparation is anticipated to consist of stripping the site of topsoil and debris and removal of weak soil or soil with expansive capacity within the building footprint and parking areas. Once required undercut is achieved, proofrolling of the subgrade with a heavy dump truck will identify possible additional soft soil areas within the building pad. Any soft soils found will be undercut and removed. The subgrade will then be filled engineered soil fill in accordance with geotechnical recommendations to achieve the desired grade. The specific site preparation techniques will follow the recommendations of the subsurface geotechnical exploration.

The foundation for the structure is anticipated to be cast-in-place reinforced concrete spread footings beneath columns and continuous wall footings beneath bearing and shear walls. The foundation system and allowable bearing pressure will follow the recommendations of the subsurface geotechnical exploration.

The main floor level floor will be a 4-inch thick or 6-inch thick concrete slab-on-grade depending on the use of the various areas.

The structure of the building will be a combination of steel braced frames and concrete masonry bearing walls. Roof structure is anticipated to be steel bar joists bearing on steel frames or masonry walls. Roof deck will be 1-1/2" wide rib metal roof deck. The lateral force resisting system is anticipated to be a combination of intermediate or

special reinforced masonry shear walls and ordinary or special steel braced frames, as required for seismic resistance and detailing.

Mechanical, Plumbing, Electrical Design Narrative

FIRE PROTECTION SYSTEM

This facility will include an automatic wet pipe sprinkler fire suppression system. The design of the new automatic fire suppression system will provide complete coverage of all spaces in the building.

The new automatic fire suppression system will be fed from a new fire main entering the building in the riser room. A fire department connection located exterior of the building will be provided. The automatic fire suppression system design and related hydraulic calculations will be in accordance with the National Fire Protection Association's "Standard for the Installation of Sprinkler Systems" (NFPA-13). The piping for the automatic sprinkler fire suppression system will be schedule 40 and schedule 10 black steel supported and braced for seismic activity in accordance with NFPA-13.

PLUMBING

The plumbing systems for this facility will include domestic water (hot and cold), sanitary waste and vent, roof rainwater drainage, grease waste and vent, and condensate drainage. These systems will include equipment, piping and related appurtenances as described below.

Domestic Water

The new domestic water system will be fed from a new water main entering the building. The new water main will be equipped with a reduced pressure principal backflow preventer. A instantaneous water heater will be provided within the main mechanical room. A piped hot water return system with circulation pump will be included to ensure hot water will be available to the remote portions of the hot water system within a reasonable period of time. A 140-degree hot water and hot water return system shall serve the kitchen area. All other areas will be served with a 110-degree hot water and hot water return system. All above slab water piping will be type-L copper with lead-free soldered joints and will be insulated with 1" fiberglass insulation with all service jacket for its entire length throughout the building. The water main entrance into the building will be sleeved type-K copper.

Sanitary Waste, Sanitary Vent, and Roof Rainwater Drainage

The sanitary sewer and roof rainwater drainage systems will be gravity systems and will be connected to the public sanitary sewer and underground site drainage systems, respectively. Condensate from the air conditioning system will discharge into indirect waste receptors connected to the sanitary sewer system. The sanitary

sewer drainage system piping will be Schedule 40 solid wall PVC with solvent welded joints and fittings. The roof rainwater drainage system piping will be Schedule 40 solid wall PVC with solvent welded joints and fittings. The condensate piping will be DWV copper or standard weight no-hub cast iron. The condensate piping, horizontal rainwater piping, and that portion of the sanitary waste piping carrying cold drainage will be insulated to avoid building damage due to exterior condensation on the piping.

Grease Waste and Grease Vent

The grease waste and vent systems shall be gravity systems and will be discharged through a grease interceptor and connected downstream of the interceptor back to the building sanitary sewer. The interceptor shall be made of concrete and be installed outdoors as close to the kitchen as possible. The grease waste and vent piping shall be spears lab waste and fittings or service weight no hub cast iron with neoprene gaskets with stainless steel bands. The spears lab waste and fittings have been approved by the manufacturer for kitchen waste applications.

Plumbing Fixtures

The plumbing fixtures will be commercial grade white vitreous china. The water closets will be equipped with manual operated flush valves. The lavatories in the rest rooms will be for countertop installation and will be equipped with single handle manually operated faucets. Automatic Drinking Fountains throughout will be push bar operated with additional bottle fillers included. The restroom fixture placement, access and mounting heights will meet the requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG). All fixtures will meet water conservation codes and standards.

HVAC

All HVAC systems will be designed in accordance with ASHRAE and based on indoor heating and cooling set points of 68 and 78 degrees F respectively for occupied office and similar areas. Ventilation air quantities for all systems will be in accordance with ASHRAE Standard 62.1-2007 and the 2012 International Mechanical Code.

The main mechanical system will consist of water source heat pumps (WSHP) with a closed-circuit cooling tower and condensing natural gas boilers. Each boiler will be sized for 60% of the design heating load. The WSHPs will consist of vertical and horizontal indoor units and roof mounted units. Water will be circulated throughout the building to the WSHPs via base mounted/end suction pumps located in the main mechanical room. Outside air will be provided with provided with 100% outside air units (OAUs) with energy recovery wheels. The OAUs will also be connected to the WSHP loop and will be roof mounted.

IT rooms will be provided with dedicated wall mounted mini-split units independent of the WSHP system.

The General Purpose Training Bay (GPTB) will be heated with gas-fired infrared radiant tube heaters and ventilated with wall mounted exhaust fans. A tail pipe exhaust system will be installed for exhaust vehicles. Additionally, a de-stratification fan will be provided to help increase occupant comfort.

The Assembly Hall will be heated with gas-fired unit heaters and ventilated with wall mounted exhaust fans. Additionally, a de-stratification fan will be provided to help increase occupant comfort. As an alternate, cooling/heating/ventilation will be provided with (2) roof mounted WSHPs with energy recovery wheels. Filtration will be with an 85% efficiency filter bank.

The Arms Vault will be cooled/heated by a nearby WSHP, but will also be provided with a dedicated packaged dehumidifier, and a dedicated exhaust fan. A z-type vent will be provided for emergency ventilation.

Air Distribution

Supply and return ductwork will be routed from each unit to ceiling diffusers. Ductwork shall be galvanized steel with 2" thick flexible duct wrap external insulation. Ventilation and exhaust rates shall meet requirements of ASHRAE Standard 62. Each HVAC system serving occupied areas will comply with acoustical, temperature control, and air distribution requirements of ASHRAE Standard 55 and the ASHRAE Applications Handbook. All air handling equipment will be provided with fire or smoke detection devices as required by NFPA 90A. Listed fire-stop systems will be used for penetrations of fire-rated assemblies. Fire dampers or smoke dampers will be provided at all duct penetrations and HVAC openings in fire-rated walls, partitions, or floors as required by NFPA 90A. Air handling equipment will be interlocked with fire and smoke detection systems to prevent operation when these systems are in alarm condition.

HVAC Controls

All new HVAC equipment will be connected to and monitored by a new building direct digital control (DDC) system. The building DDC system shall be provided with an operator workstation consisting of personal computer with LAN connection, printer, software and hardware. The DDC system shall be of modular design, with self-diagnostic capability, historical data storage, and user serviceability. The DDC system shall connect to the existing district energy management system if present.

ELECTRICAL SYSTEMS

Normal Power System

The normal power system shall be derived by installing a new ground mounted service transformer served from the extension of Ft. Campbell base utilities. All utility work will be coordinated with all applicable agencies. The building service voltage will be a 480-
New Ft. Campbell National Guard Readiness Center Conceptual Design Phase Narrative

volt, three phase, grounded wye system. All major mechanical system equipment will be powered at this voltage. The service entrance electrical gear will consist of a 1000-ampere I-line style service entrance rated panelboard. with a surge protective device to be located at the main. All electrical gear shall be by Siemens, Eaton Cutler Hammer, Square D, or ABB - GE. The gear will also be provided with a power-meter and monitoring of this meter by the building management system. The building shall be provided with courtesy receptacles throughout the building as well as power for specialty power and owner requested locations.

Emergency Power System

The life safety emergency egress required lighting will be provided by a centralized lighting inverter. As part of a design alternate, the building will be provided by a natural gas generator. The estimated generator size is 350kW and will provide optional standby power for the entire building. The emergency power system will also include an automatic transfer switch, emergency shutdown for the generator, and code required surge protection.

Grounding System

All grounding shall be provided according to the National Electrical Code. The grounding electrode conductor will consist of bare copper to be bonded to the domestic water entrance, building steel, and a driven ground rod. The neutral shall be bonded to the ground conductor at the service rated entrance, commonly described as the first means of disconnect.

Lighting System

All lighting shall be provided using LED sources. All lighting fixtures shall be coordinated with the ceiling spaces and lighting needs of each area. The lighting levels for each area will be designed to meet or exceed the recommendations of the Illuminating Engineering Society (IES). These values shall be verified by the design team utilizing software to confirm lighting levels throughout the building. In general, fixture selections shall consist of 4' surface mounted LED strip fixtures in mechanical and electrical spaces. Fixtures in public areas and offices shall consist of LED source lay-in troffers, recessed down lights, continuous linear recessed fixtures, or as determined to best serve the space. The drill area will consist of high bay LED fixtures to meet the lighting levels and uniformity standards for the area. Exterior fixtures shall utilize LED lamp sources and shall meet the base requirements related to cutoff and light trespass as applicable. Occupancy/vacancy sensors and daylight harvesting where required will be provided throughout the building to meet or exceed IECC and ASHRAE requirements. In general fixtures will be provided with dimming for energy savings and occupant convenience. COMcheck certification will be provided to confirm that the light fixtures and quantities comply with the energy code. All emergency lighting and exit signs will be powered by a centralized lighting inverter that will provide centralized batteries and testing.

COMMUNICATIONS

The communications system shall consist of cable tray, raceway, boxes, and pullstrings for cabling by the owner's vendor. All equipment shall be by the owner. The design team will coordinate all infrastructure requirements.

ELECTRONIC SAFETY AND SECURITY

Fire Alarm System

The fire alarm system shall be a mass notification system consisting of message boards, pre-recorded messages, manual pull stations, system smoke detectors, duct smoke detectors with combination carbon monoxide detectors where required, audio/visual alarms and supervision for all sprinkler system flow, tamper, and pressure devices. All audible notification appliances shall be provided with speakers and shall be designed and tested to meet the requirements for voice intelligibility. The fire alarm system will be coordinated with the currently adopted standards and approved manufacturer list for the base.

Action Item Log

December 20, 2022

Proj. No. 1423

**New Ft. Campbell National Guard Readiness Center
SBC Project # 368/014-01-2021**

No.	Description	Request Respond	Initiated Complete	Response
01	EV Charging Stations in POV? Alternate?	LCMA 10/25/22	TNARNG	not required but can be an Alternate
02	Turning Pad location and number	LCMA 10/25/22	TNARNG	3 programmed but site plan will determine
03	Expansion space sizes as SF or %	LCMA 10/25/22	TNARNG	email of 10/14 has schedule of sizes Column J
04	Budget and Bid Target	LCMA 10/11/22	TNARNG	new B.T. will be \$16,582,000 (444/sf) \$377 @ 85%
05	Approx. date when budget increase, if any, will be known	LCMA 10/25/22	TNARNG	CFMO is certain of increase and timing
06	Conceptual Checklist requirements. List vs. 415.5 – 11.2 requirements	LCMA 10/25/22	TNARNG	
07	LEED submittal example from McMinnville	LCMA 10/25/22	TNARNG	
08	Conceptual Checklist submittal example form McMinnville	LCMA 10/25/22	TNARNG	
09	Is SBC's HPBR required	LCMA 10/11/22	TNARNG	yes
10	Not Used			
11	Stand-Off Distances	LCMA 10/11/22	TNARNG	using 33ft/CFMO pending formal notice from FC
12	Kitchen Type/space program if it a Serving only kitchen	LCMA 10/25/22	TNARNG	Serving kitchen @ 800 SF is certain
13	Project Submittals/Milestones schedule	LCMA 10/11/22	TNARNG	
14	Updated, expanded topo and utilities survey	LCMA 10/11/22	TNARNG 11.15.22	In progress
15	LIDAR of complete site drainage area	LCMA 10/11/22	TNARNG	Furnished

Action Item Log

December 20, 2022

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No.	Description	Request Respond	Initiated Complete	Response
16	Building B11 plans.	LCMA 10/11/22	TNARNG	Not found. LCM to evaluate as add. service
17	Confirm if B11 relocation is in project scope	LCMA 10/11/22	TNARNG	yes
18	Number, type and size of military vehicles to park in UTES redesigned MSVA (amended)	LCMA 10/11/22	TNARNG 11/10/22	3-Jun 155 full compliment
19	Controlled Waste in or out?	LCMA 10/25/22	TNARNG	is in V.2 of Functional Space Details of 1391 OUT
20	Detached Storage in or out?	LCMA 11/17/22	TNARNG	Poss. Alternate
21	Discuss optimum loc. for BII	LCMA 11/17/22	TNARNG	
22	Sighting Mound in UTES MVSA, stay or go?	LCMA 11/17/22	TNARNG	Remove
23	Vehicle De-humidification equipment. Relocate or new?	LCMA 11/17/22	TNARNG	Relocate
24	Any vehicular connecttion with RC & UTES? Gates?	LCMA 11/17/22	TNARNG	Yes
25	Size of Mobile Kitchen? Parks outside kitchen?	LCMA 11/17/22	TNARNG	
24	Discuss Seismic issues and cost implications w. CFMO	LCMA 11/17/22	TNARNG	
25	Discuss Geotechnical "Draft" report and cost implications w. CMFO	LCMA 11/17/22	TNARNG	

Attachment B



LEED v4 for BD+C: New Construction and Major Renovation Project Checklist

Project Name: New Ft. Campbell National Guard Readiness Center
Date: 12/15/2022

Y ? N

1			Credit	Integrative Process	1
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3	0	13	Location and Transportation		16
			Credit	LEED for Neighborhood Development Location	16
		1	Credit	Sensitive Land Protection	1
1		1	Credit	High Priority Site	2
		5	Credit	Surrounding Density and Diverse Uses	5
		5	Credit	Access to Quality Transit	5
1			Credit	Bicycle Facilities	1
		1	Credit	Reduced Parking Footprint	1
1			Credit	Green Vehicles	1

3	2	5	Sustainable Sites		10
Y			Prereq	Construction Activity Pollution Prevention	Required
1			Credit	Site Assessment	1
		2	Credit	Site Development - Protect or Restore Habitat	2
		1	Credit	Open Space	1
1	2		Credit	Rainwater Management	3
		2	Credit	Heat Island Reduction	2
1			Credit	Light Pollution Reduction	1

6	0	5	Water Efficiency		11
Y			Prereq	Outdoor Water Use Reduction	Required
Y			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
2			Credit	Outdoor Water Use Reduction	2
3		3	Credit	Indoor Water Use Reduction	6
		2	Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

14	6	13	Energy and Atmosphere		33
Y			Prereq	Fundamental Commissioning and Verification	Required
Y			Prereq	Minimum Energy Performance	Required
Y			Prereq	Building-Level Energy Metering	Required
Y			Prereq	Fundamental Refrigerant Management	Required
4	2		Credit	Enhanced Commissioning	6
8	2	8	Credit	Optimize Energy Performance	18
1			Credit	Advanced Energy Metering	1
		2	Credit	Demand Response	2
1	2		Credit	Renewable Energy Production	3
		1	Credit	Enhanced Refrigerant Management	1
		2	Credit	Green Power and Carbon Offsets	2

7	1	5	Materials and Resources		13
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	Construction and Demolition Waste Management Planning	Required
3		2	Credit	Building Life-Cycle Impact Reduction	5
1		1	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1		1	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
1		1	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
1	1		Credit	Construction and Demolition Waste Management	2

13	0	2	Indoor Environmental Quality		16
Y			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
2			Credit	Enhanced Indoor Air Quality Strategies	2
3			Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
1			Credit	Indoor Air Quality Assessment	2
1			Credit	Thermal Comfort	1
1		1	Credit	Interior Lighting	2
2		1	Credit	Daylight	3
1			Credit	Quality Views	1
1			Credit	Acoustic Performance	1

6	0	0	Innovation		6
5			Credit	Innovation	5
1			Credit	LEED Accredited Professional	1

2	0	2	Regional Priority		4
		1	Credit	Regional Priority: Surrounding Density	1
1			Credit	Regional Priority: Daylight	1
		1	Credit	Regional Priority: Protect or Restore Habitat	1
1			Credit	Regional Priority: Light Pollution Reduction	1

55	9	45	TOTALS	Possible Points: 110
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Certified: 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110