Target Interface / Construction Compliance Inspection Checklist								
Date:	Location:	YES	NO	NOTES				
	Combined Arms Collective Training Facility (CACTF)							
Comn	Common Items							
A. Roads-Service, Lanes								
1 Trails and service roads probuildings for maintenance								
B. Testing Results-provided to t	he local government construct	ion rep	resenta	itive:				
Data cabling tests including network (ie. Cat5e)								
Grounding tests results. Co Ohms or less earth resistan	ontrol building (ie. ROC) has 25 ace							
C: Drawings								
1 Contract drawings are avail	able on-site							
2 "As-builts" will be made ava								

	Target Interface / Construction Compliance Inspection Checklist												
	Date:	Location:	YES	NO				N	IOTES				
		Combined A	rms C	olled	tive Tr	aining	Facility	(CAC	TF)				
	CACTF Training	g Buildings											
A.	Miscellaneous												
1	All target, camera, speaker and mainten- training buidings are in weatherproof end and data)										•		
2	Wireways/conduits are completely enclo room to power and data outlets.	sed from electrical											
3	All wireways/conduits/outlets are a mining	num 7' AFF.											
4	Target, camera and speaker outlets are	not GFCI.											
5	Maintenance outlets are 120V, 20A, GFC populated 50ft on center throughout train	ning building.											
6	Cat6 UTP cable is used to each target, or speaker data outlet.	amera and											
7	Lights in all training rooms are fed from a installed in electrical room.	a lighting contactor											
8	Lights in training rooms have a protective guard installed.	e lens or protective											
B.	Target Outlets (TO)												
1	Target power outlets are a NEMA L14-2t 20R receptacle with weatherproof covers Target Data Outlets are Amphenol RJ Fi installed in "code A" configuration.	S.											
3	TO are permanently labeled and labels a	are readily visible.											
4	TO quantities meet DD1391, applicable CEHNC Design Guide 1110-1-23. (Typic room)												
5	Labels on targets outlets correspond with panels and cables in DTR.	h labels on patch											
C.	Camera Outlets (CO)												
1	Camera power outlet is a NEMA L5-20R weatherproof cover.	receptacle with											
2	Camera Data Outlets are Amphenol RJ I installed in "code A" configuration.	Field outlets											
3	Camera outlets are permanently labeled readily visible	and labels are											
4	Camera outlets are located such that vie obstructed. (i.e. does not aim at windows be washed).												
5	CO quantities meet DD1391, applicable CEHNC Design Guide 1110-1-23. (Typic												
6	Labels on camera outlets correspond wit panels and cables in DTR.	th labels on patch											
D.	Speaker Outlets (SO)												
1	Speaker power outlet is a NEMA L5-20R weatherproof cover.	receptacle with											
2	Speaker Data Outlets are Amphenol RJ installed in "code A" configuration.	Field outlets										•	
3	Speaker outlets are permanently labeled readily visible.	l and labels are											
4	Speaker outlets are located to allow max coverage (ie. central corridor).	imum audible										•	
5	Minimum of one speaker outlet provided building.	per floor of				_		_					
6	Labels on speaker outlets correspond with panels and cables in DTR.	th labels on patch											
E.	Camera Hangers (Brackets)				<u> </u>								
1	Camera hangers are on site for contractor	or to hang near	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u>. · . · . · . · . · . · . · . · . · . ·</u>	<u> </u>		<u>. · . · . · . · . · . · . · . · . · . ·</u>

	Target Interface / Construction Compliance Inspection Checklist								
	Date: Location	: YES	NO	NOTES					
	Combined Arms Collective Training Facility (CACTF)								
	CACTF Training Buildings								
F.	Electrical and Communication Room								
1	Panelboard is provided with 120/240V power.								
2	Panelboard has adequate working space and clearance IAW NEC.								
3	Panelboard has SPD installed properly.								
4	Panelboard has panel schedule provided and completed								
5	Target outlets are fed via 2 pole 20A circuit breakers.								
6	Camera Outlets are fed via single pole 20A Breakers.								
7	All spare conduits or innerducts entering from undergrou	nd							
8	have pull wires installed. All data or other spare conduits entering the electrical ro- from underground are sealed to prevent rodents from entering.	om							
10	A GFCI maintenance receptacle is provided in the electri room.	cal							
11	Adequate lighting is provided on a local switch. (Not controlled by lighting contactor)								
16	Room has walls, roof, doors and any penetrations (ie. conduit/wireway) sealed to prevent moisture, dust and rodents from entering.								
17	Room is lockable and marked "out of play".								
18	All data cabling is installed in a completely enclosed conduit system.								
28	Lighting contactor is installed properly.								
G.	Data Termination Rack (DTR) - NEMA 12								
1	Data Termination Rack (DTR) is NEMA 12 rated and maintains NEMA rating after installation.								
2	DTR is a free standing 23"X31"X84" rack with interior fra to accept 19" equipment.	me							
3	DTR power outlet has two dedicated 20A, 120V circuits.								
4	Adequate space is available in the DTR for target equipment switches and other devices.								
5	Data cables (both fiber and copper) are permanently labeled when they enter the DTR and are labeled on the patch panel.								
6	Data cabling is installed neatly and orderly and properly anchored or fastened in the DTR.								
7	Fiber cabling is single mode.								
8	Fiber is terminated with SC connectors on patch panels.								
9	Minimum 3 meter service loop of fiber cabling is provided and properly secured inside DTR.	ı							
10	Fiber cabling has no visible microbending, pinching, or other markings to indicate fiber failure.								
11	DTR is grounded properly to the ground system.								
12	Adequate space provided around the DTR. 36" space is available in front of DTR. Rear door can fully open 90 degrees.								

	Target Interface / Construction Compliance Inspection Checklist							
	Date: Location:	YES	NO	NOTES				
	Combined Arms Collective Training Facility (CACTF)							
	Range Operations Center (ROC) - Large							
A.	Miscellaneous							
1	All empty conduits shall have a pull string.							
2	HVAC is provided for comm. and control room.							
3	Lightning protection is provided. Verify UL listing will be obtained per contract (UL Listing not required per this checklist).							
4	All data jacks are permanently labeled.							
5	All metal conduits and cable trays are bonded together and grounded.	I						
7	Exterior lighting is provided on separate switching from interior lighting.							
8	Wall mounted exterior red lighting is located near points of egress and is on separate switching from white lights. Ceiling mounted interior red lighting is located in rooms							
9	with exterior windows and is on separate interior switches from white lighting.							
10	Emergency lighting and exits signs are provided.							
11	SPD is provided in main service panelboard.							
В.	Control Room							
1	Adequate space is available for target installer work stations. Power receptacles are provided on dedicated 20 amp circuits for each work station.							
2	No counters are provided.							
c.	Data Termination Rack (DTR)							
1	DTR is an enclosed 36"Dx22"Wx84"H free standing rack with 19" rack frame.							
2	DTR is provided with front and rear doors and removable side panels.							
3	36" space is available to front and rear and one side. DTR							
4	DTR rack is properly grounded to TMGB or a single point ground via a minimum #6 AWG insulated ground cable.							
5	Data cabling armor or shield is properly grounded as close as practical to the point of entrance.							
6	Fiber is terminated with SC connectors.							
7	Data cabling in DTR is neat and orderly and adequately anchored.	1						
8	3 meter minimum service loop of data cabling is provided in DTR.	1						
9	Data cables are be permanently tagged identifying	1						
10	destination (ie. SIT X or lane X). Fiber cabling has no visible microbending, pinching, or	1						
11	other marking to indicate fiber damage. Patch panels have labeling identifying each cable's	1						
12	destination. Buffer tube fanout kits or fusion splice trays are installed	+						
	and adequately anchored in DTR. Conduits entering DTR are properly sealed to prevent entry	/						
13	of moisture and rodents. Innerduct in conduits or spare conduits are provided from	1						
14	the DTR to downrange.							

	Target Interface / Construction Compliance Inspection Checklist								
	Date: Location:	YES	NO	NOTES					
	Combined Arms Collective Training Facility (CACTF)								
	Range Operations Center (ROC) - Large								
D.	D; - Communication Roem (Reom Houses DTR)								
1	Panelboard has adequate working space and clearance IAW NEC.								
2	Panelboard has SPD properly installed.								
3	Panelboard has panel schedule provided and completed								
4	Power for racks is provided from 2-60A breakers to wall mounted disconnects. Conduit is installed from disconnects to junction boxes located above rack position for connection by others.								
5	Adequate rack space is available for UPS provided by others.								
6	The number of Data Termination Racks (DTR) installed is IAW CEHNC 1110-1-23 (Typically one). Adequate space is available for OPA funded racks (Typically 2 for CACTF).								
7	Cable tray is installed above drop ceiling connecting communications and control rooms. Vertical transition elbows provided above rack locations.								
8	Cable tray is grounded properly to the ground system Telecommunications Main Grounding Bar (TMGB). An additional grounding space is provided on the TMGB for								
9	grounding of racks that are not in the same row as the DTR (other racks in the same rows as DTR will be jumpered together by target installer).								
10	Minimum of 24 strands of fiber optic cable are installed between DTRs in AAR and ROC unless ROC and AAR are combined into one facility.								
11	All common user cable and equipment are installed in separate racks from range training DTR(s). Labeling is provided to differentiate between "common user" cable and range "training" cable.								

	Target Interface / Construction Compliance Inspection Checklist									
	Date:	Location:	YES	NO	NOTES					
	Combined Arms Collective Training Facility (CACTF)									
	After Action Review (AAR) - Large									
A.	v: Miscéllaneous									
1	Adequate space is available for tar stations. Power receptacles are pr amp circuits for work stations. Lightning protection is provided an	ovided on dedicated 20								
2	(UL listing still must be obtained).	a to proporty motalica								
3	SPD is provided in main service pa	nelboard								
4	All empty conduits shall have a pul	string provided.								
5	Exterior lighting is provided on sep near points of egress.	arate switching located								
6	Exterior or interior white and red lig switching.	hts have separate								
7	Emergency lighting and exits signs codes.	'								
8	Red lighting is provided near white switches from white lighting in obser- rooms, and on exterior walls.									
B.	Development Room, Theatre, and	d Control Roam								
1	No counters are provided in develo	pment area(s).								
2	Receptacles for work stations are f circuits. There should be one dupl workstation.									
3	Two dedicated circuits (120V, 20A) (two duplex or one quadplex recept									
4	All metal conduits and cable trays and grounded.	ů .								
5	A 20A duplex receptacle is provide projector location in the theater are									
6	the theater.	s and into the front of								
7	area to the cable tray.	screen in the theater								
8	A 1" conduit is provided from a june overhead projector location in the t tray.									
9	HVAC is provided in the developme rooms.	ent, theater, and control								

Target Interface / Construction Compliance Inspection Checklist								
Date:	Location:	YES	NO	NOTES				
	Combined A	rms C	ollec	tive Training Facility (CACTF)				
After Action Review (AAR) - Large								
Data Termination Rack ()	OTR)							
	22"Wx84"H free standing rack							
side panels.	and rear doors and removable							
	ont and rear and one side. DTR from the wall on the remaining							
	nded to TMGB or a single point AWG insulated ground cable.							
Data cabling armor or shie as practical to the point of	ld is properly grounded as close entrance.							
6 Fiber is terminated with SC	Connectors.							
7 Data cabling in DTR is near anchored.	at and orderly and adequately							
3 meter minimum service le DTR.	oop of data cabling is provided in							
Data cables are be permandestination (ie. SIT X or la	ne X).							
Fiber cabling has no visible other marking to indicate fi	e microbending, pinching, or ber damage.							
Patch panels have labeling destination.	g identifying each cable's							
and adequately anchored								
of moisture and rodents.	e properly sealed to prevent entry							
14 Innerduct in conduits or sp the DTR to downrange.	are conduits are provided from							