

APPENDIX G

Sample Documents to Support General Site Planning

G-1. The Base Camp Development Site Plan Checklist. The BDSP checklist is a resource designed to provide planners a comprehensive list of the attributes that should be considered throughout the BCDP process. Since the BDSP requires products from the various steps of the process, many of the listed attributes will have been accomplished before the actual development of the plan. This checklist, shown in Table G-1, pages G-1 through G-3, should be reviewed and will serve as a reminder for planners of all the coordination and actions required to develop a successful base camp plan.

Table G-1. Example of a base camp development site plan checklist

Attribute	Description	Initial
1. Team Effort	The BDSP was prepared by a multidisciplinary planning team.	
2. User Coordination	The prospective base camp user was represented on the planning team.	
3. HN Coordination	The HN was represented on the planning team (if applicable).	
4. Source Documents	The environmental overlay, the TAB, and the land use plan were among the source documents used to prepare the BDSP.	
5. Comprehensive-ness	The BDSP fully conforms to the land use plan. All new area, facility, and infrastructure requirements identified by the TAB have been sited on the BDSP.	
6. Site Visits	The planning team has visited and inspected all site locations proposed by the BDSP and have determined them to be constructible.	
7. Technical Reviews	Technical reviews for special facilities, such as aeronautical, munitions storage and handling, ranges and training, high security, communications, medical, and religious, have been sought in advance and accomplished.	
8. Alternatives	The finalized BDSP is based upon the development and comparative analysis of alternative approaches.	
9. Health, Safety, and Security	The base camp layout protects and provides for the health, safety, and security of its occupants. In this regard, the BDSP complies with the criteria established by Unified Facilities Criteria (UFC) 4-010-01 and applicable Army and theater standards.	

Table G-1. Example of a base camp development site plan checklist

Attribute	Description	Initial
10. Functional Efficiency	The base camp general site layout facilitates operational efficiency, particularly regarding time-distance relationships between various functions. The BDSP is functional in terms of supporting the mission while providing the maximum possible quality of life to the base camp occupants.	
11. Flexibility	The BDSP ensures the ability of the existing development pattern to adapt to change. It has the capacity to adequately support the existing and projected missions, as well as unforeseen expansions. The plan designates certain buildable areas as expansion zones.	
12. Use of Existing Facilities	The plan maximizes the use of existing adequate HN facilities, thereby reducing construction requirements, development costs, and the time it takes to become fully operational. At the same time, the proposed changes to these facilities take into account the eventual closure of the base camp and the return of these facilities to HN control.	
13. Sustainability and Conservation	The conservation of renewable resources is evidenced in the BDSP. The development minimizes irreversible changes to the form and condition of the land upon which the base camp is located. Energy conservation results from the efficient arrangement of facilities.	
14. Environmental	The base camp layout protects and enhances the environment. The general site layout of the base camp is based upon the environmental overlay, avoiding environmentally sensitive zones. Wherever possible, environmental enhancements are planned.	
15. Maintainability	The arrangement and composition of facilities on the BDSP will ensure that maintaining them is as efficient as possible.	
16. Harmony and Aesthetics	The BDSP provides for harmony between natural and man-made features, taking advantage of positive features to enhance mission performance and quality of life. The layout of the base camp respects the landscape (terrain, vegetation, waterways, geology, soils, and such). The plan demonstrates respect for and harmony between natural and man-made forms, forces, and features.	

Table G-1. Example of a base camp development site plan checklist

Attribute	Description	Initial
17. Surrounding Community	The plan provides for compatibility between the base camp and its surrounding community, if applicable. Military operations are kept an acceptable distance away from HN residential areas. The plan takes HN religious, cultural, and socioeconomic characteristics into account.	
18. Circulation	The BDSP achieves road network accessibility and traffic circulation. The BDSP provides access to the MSR, and it makes sure that the facilities within the base camp are convenient to one another and to the users.	
19. Climate and Seismic	The BDSP takes the climate into consideration with respect to building locations and orientation. The plan is sound with respect to the climatic zone, and makes allowances for the seismic zone and the potential for hazardous weather.	
20. Utility Plans	The utility overlays provide for constructible, maintainable, efficient, expandable, and cost-effective utility support with adequate capacity to support the planning strength plus surge capacity.	
21. Other Plans	Other plans that are based on the BDSP and are required by the theater command have been prepared.	
22. Area Development Plans	Enlarged, more detailed plans have been prepared for areas of intense development; for example, community centers and service member support areas, if applicable.	
23. Base Camp Cleanup and Closure	The facility layout proposed by the BDSP has taken base camp cleanup and closure into account.	
24. Action Plan	The plan is based on a feasible and cost-effective concept. The layout is both constructible and cost-effective. In applicable cases, it is compatible with HN requirements and preferences.	
25. Approvals	The final review and approval process for the BCDP, including the BDSP, is understood and has been/is being followed. BDSP revalidation requirements are understood.	
26. Ownership	The base camp commander and the commander of the using unit(s) have a sense of ownership of the BDSP and the entire base camp development plan.	

G-2. Facility Footprint. The footprints shown in Figure G-1 show some of the typical facilities that should appear on the BDSP. The facilities should represent the size and shape of a typical facility of the type that is being proposed for the plan.

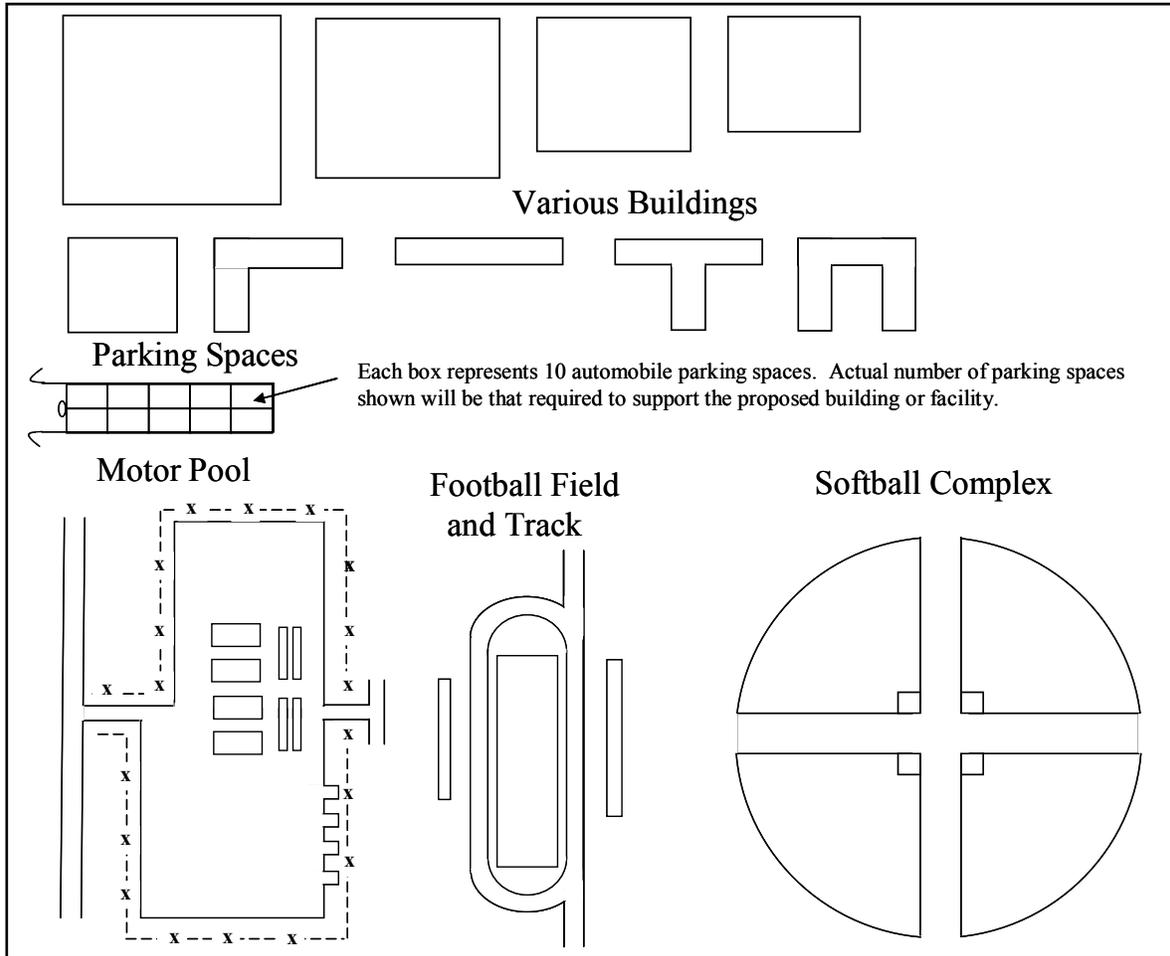


Figure G-1. Typical facility "footprints" drawn at various scales

G-3. Footprint of a SEAHUT Housing Cluster. Figure G-2 depicts a typical SEAHUT cluster. The number of required clusters is derived from the TAB.

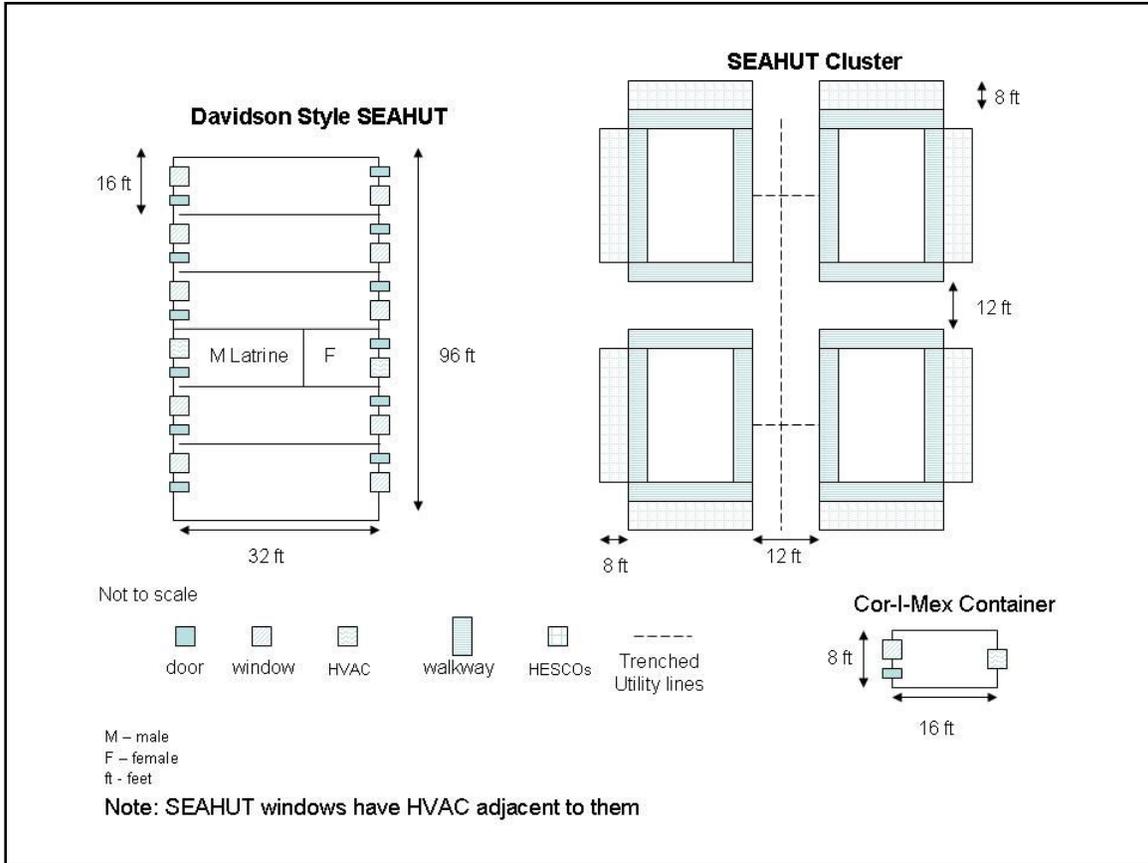


Figure G-2. Footprint, Southeast Asia hut (SEAHUT) housing cluster derived from the TAB

G-4. Standoff Distances and Building Separation. Standoff and building separation are necessary for force protection and required by regulation. Planners should verify distances to ensure that the most current minimum distances are incorporated and that they satisfy the user's situation requirements. Figures G-3 and G-4, pages G-6 and G-7, provide examples of minimum separation and standoff distances.

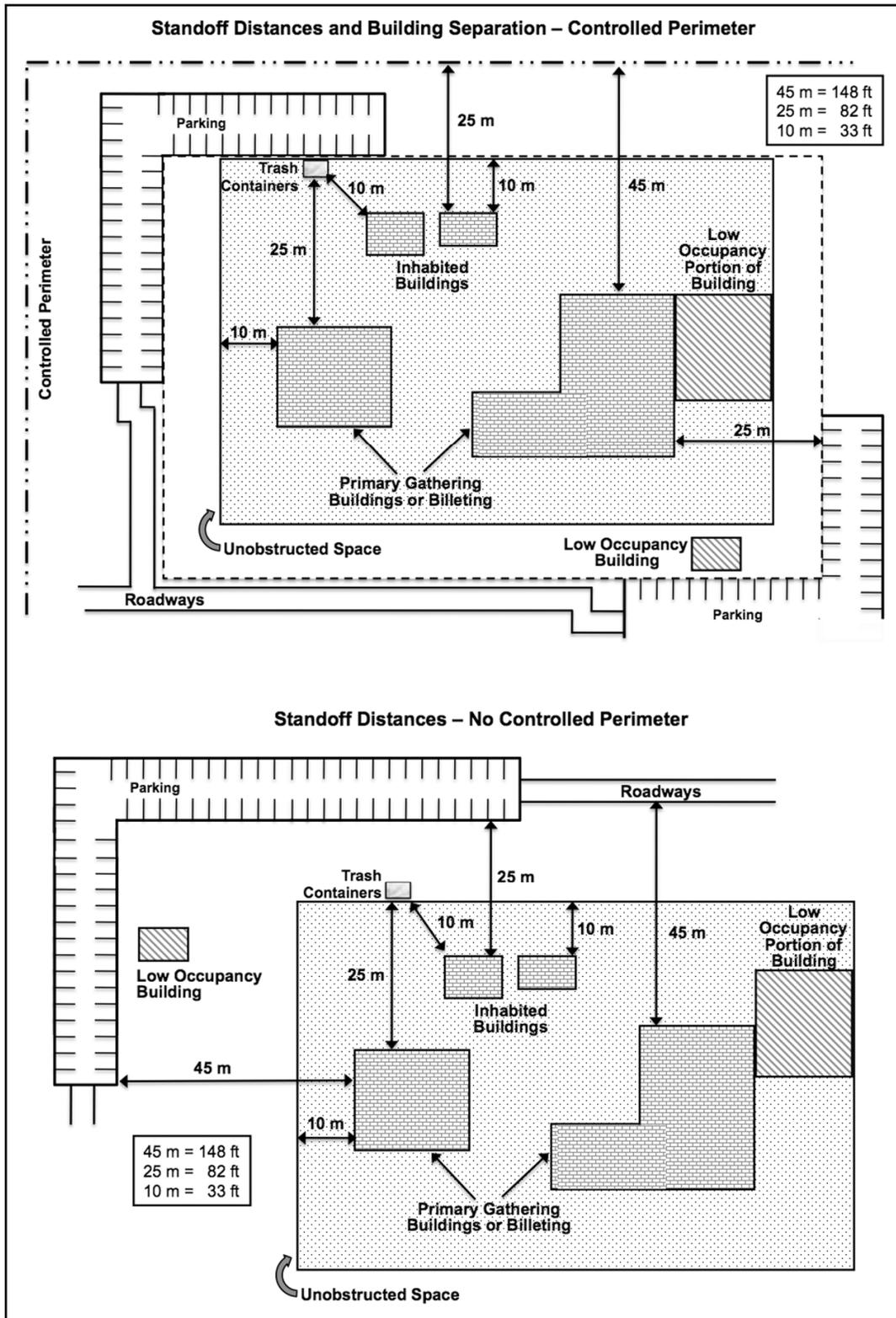


Figure G-3. Standoff distances and building separation—controlled and uncontrolled perimeter

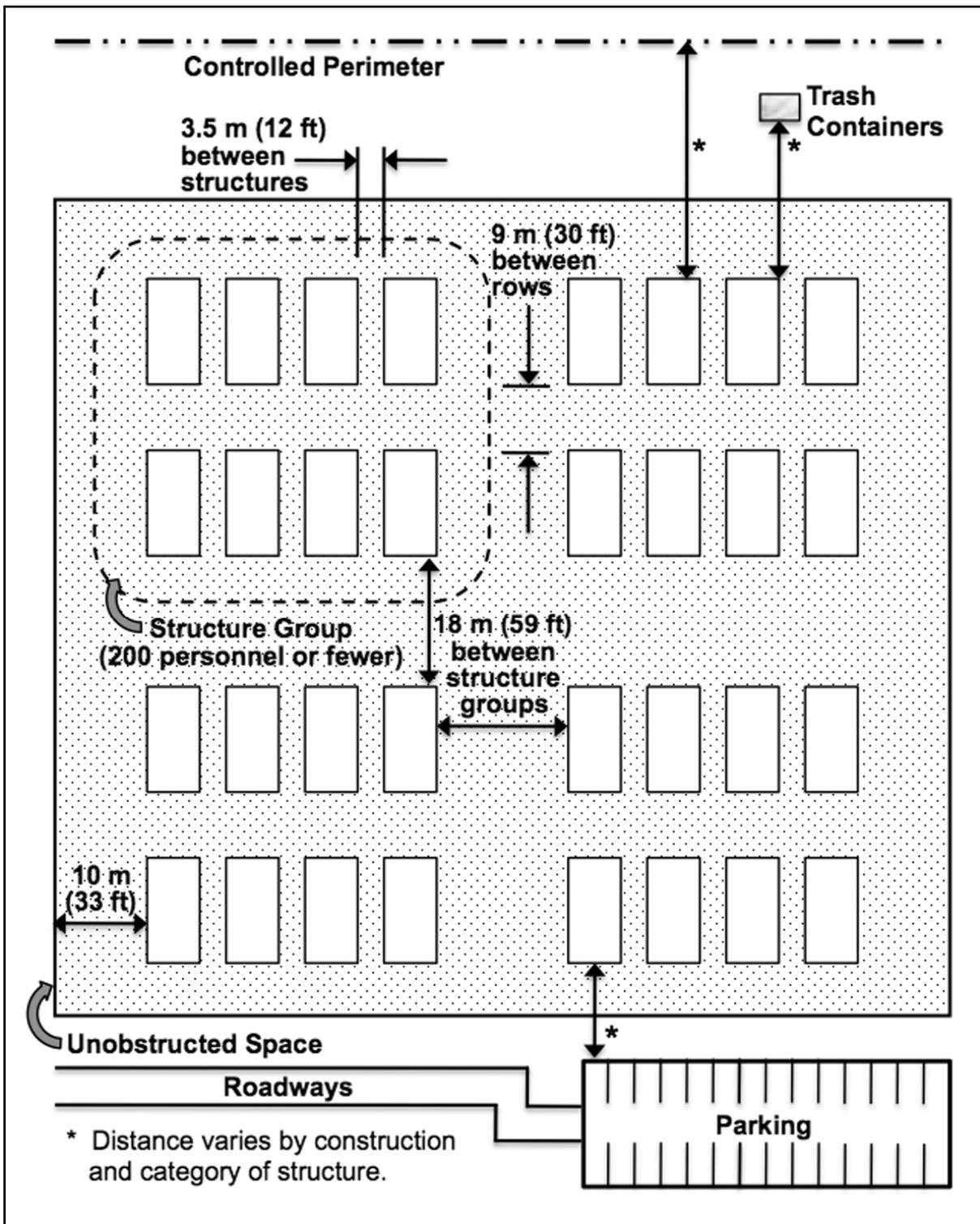


Figure G-4. Standoff distances and separation for expeditionary and temporary structures

G-5. Comparison Analysis. Figure G-5 depicts a comparative analysis of the anticipated population against selected systems. This tool can assist planners in very quickly identifying shortfalls with various infrastructure and/or utility systems. Planners should ensure that they consider the effects of surge and the potential for a change of mission when conducting this analysis.

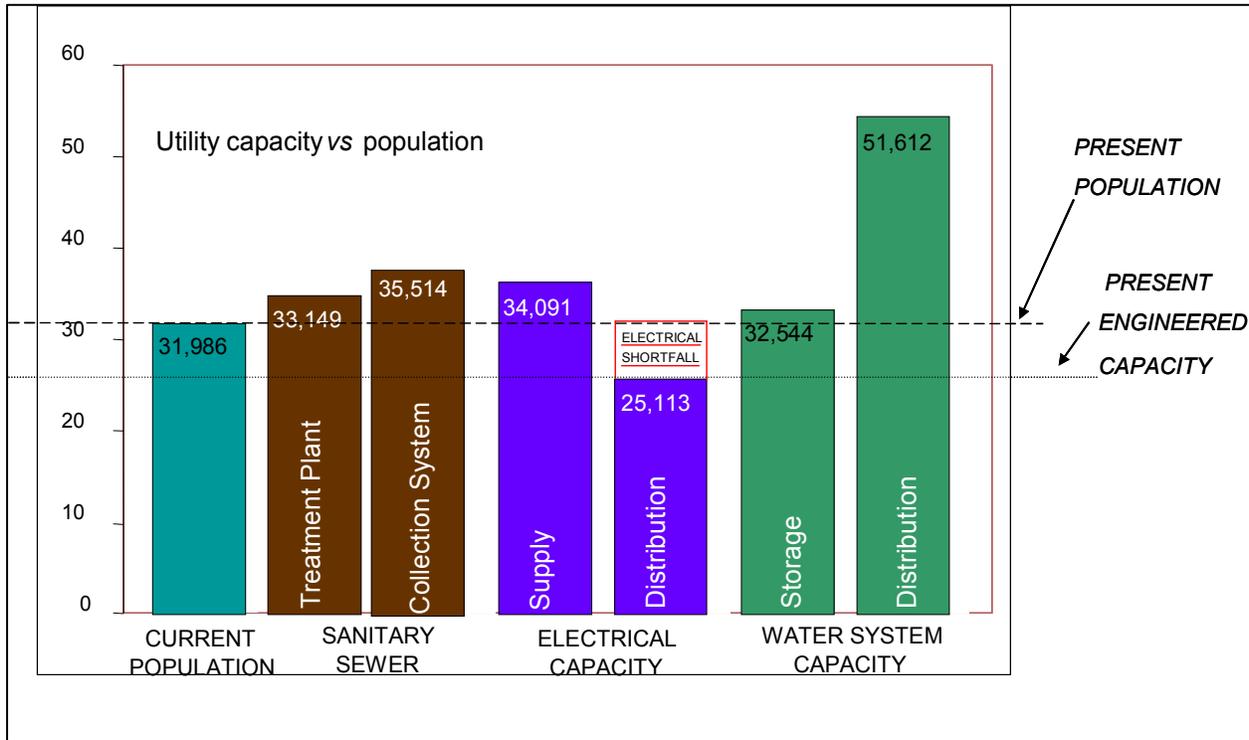


Figure G-5. Comparative analysis, existing utility systems

G-6. Base Camp Plan Phasing Tools. Figure G-6 and Table G-2 show examples of the tools necessary for incorporating phasing into the base camp plan. Together, the map and the prioritized project list will assist planners in tracking progress. If priorities change, the map should also be updated to incorporate those changes.

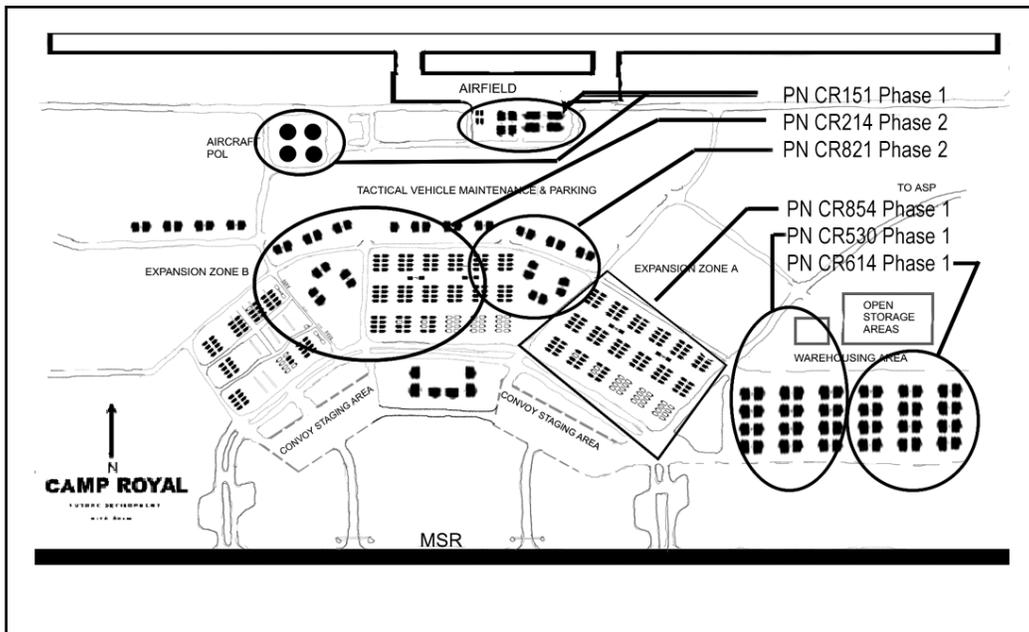


Figure G-6. A project phasing map

Table G-2. Example of a prioritized project list

Phase	Action or Project	Scope	Estimated Cost (\$000)
01	PN FR 08-01 UPH Renovation Phase I	92,100/422 SP	2,500
	Self-help improvements	TBD	100
	Dispose of temporary buildings	150,000 SF	443
	Unit relocations for Renovation II	1 battalion	500
02	PN FR 09-01 UPH Renovation Phase II	105,250/422 SP	2,629
	Self-help improvements	TBD	100
	Unit relocations for Renovation III	1 HBCT (+)	2,000
	Dispose of temporary buildings	150,000 SF	450
03	PN FR 10-01 UPH Renovation Phase III	272,400/997SP	5,100
	Self-help improvements	TBD	100
	Dispose of temporary buildings	150,000 SF	475
	Unit relocations for Renovation IV	1 battalion	500
KEY			
HBCT - heavy brigade combat team		PN FR - project number	
SF - square feet		SP- support personnel	
TBD - to be determined			
UPH - unaccompanied personnel housing			

Table G-3. Example of a project priority list with phasing sequence

Priority	Project Number	Project Description	Phasing Sequence
1	858	Vehicle Maintenance Shop	1
2	3118	Hazardous Materials Facility	
3	6424	Modified Record Fire & Combat Pistol Range	
4	13532	Vehicle Maintenance Shop	
5	16032	Upgrade M16 Record Fire Range 3	
6	16443	Religious Activity Facility	
7	17154	General Instruction Building	
8	18166	Vehicle Maintenance Facility	2
9	18600	Upgrade Primary Power	
10	19636	Physical Fitness Training Facility	
11	19699	Vehicle Maintenance Facility	
12	20807	Tracked Vehicle Maintenance Facility	
13	21660	Railhead Upgrades	3
14	22560	Physical Fitness Training Center	w/5
15	22993	Vehicle Maintenance Facility	3 (Cont'd.)
16	23301	Upgrade Night Fire Range	
17	23484	Hazardous Material Storage Facility	
18	27775	Vehicle Maintenance Facility	
19	33967	Tactical Equipment Shop	4
20	3626	Vehicle Maintenance Facility	
21	14104	Open Storage Area	
22	14112	Road Improvements and Truck Pad	
23	14529	Vehicle Maintenance Facility	
			5

G-7. Base Development Plan Record. Table G-4, pages G-11 and G-12, shows two examples of a base development plan record. Whatever format is used, the lead planner must ensure that it contains all the documents that were pertinent to the planning of the base camp. It is recommended that at least three paper copies and supporting digital copies be made of the record. Additionally, it is recommended that, as a minimum, one copy be submitted to the appropriate level of command, one copy be maintained at the base camp, and one copy be retained by the planning team leader.

Table G-4. Two possible formats for a base camp development plan record

Format 1		Format 2	
Section	Title of Section	Section	Title of Section
-	Title Page	-	Title Page
-	Commander's letter w/portrait	-	Commander's Letter
-	Table of contents	-	Table of contents
1	Introduction	1	Introduction
1.1	Purpose and need	1.1	Purpose and need
1.2	Base camp development plan	1.2	Background of planning process
2	Goals and Objectives	1.3	Base camp development plan
2.1	_____ Theater command's strategic plan	2	Goals and Objectives
3	Plan Findings and Recommendations	2.1	Base camp vision and goals
3.1	Findings, recommendations, and urgent issues	2.2	Mission
4	Local and Vicinity Profile	2.3	Facilities
4.1	Setting and history	2.4	Objectives
5	Overview of Plan Documents	3	Findings and Recommendations
5.1	Land use plan	3.1	Methodology
5.2	Tabulation of existing and required facilities	3.2	Findings
	Glossary	4	Local and Vicinity Profile
	Acknowledgments and maintenance	4.1	Overview
		4.2	The adjacent community and region
		4.3	Base camp-community planning issues
		4.4	Regional development issues
	Maps	5	Plan Documents - Overview
	Regional Development Issues	5.1	Plan policies
	Environmental Overlay	5.2	Planning board records
	Expansion Capability	5.3	Plan policies and enforcement process
	Building Conditions		
	Base Camp Development Site Plans (General Site Planning)	Appendixes	
	Figures and Tables	A	Interview Notes
	Plan documents	B	Glossary

Table G-4. Two possible formats for a base camp development plan record

Format 1		Format 2	
	Goals of the planning process	C	Tabulation of Existing and Required Facilities
	Urgent issues and plan recommendations	D	Update Requirements and Information
	Population of Camp _____	Tables	(Various—Appear throughout the document)
	Impact on the local economy	Maps	(Various—Appear throughout document)
	Camp _____ utility capacity vs. population	Figures	(Various—Appear throughout document)
	Summary of essential facilities requirements	Photos	(Various—Appear throughout document)
	Essential facilities requirements analysis		
	Renovation and construction programs		
	Preparers, data sources, and update information		