



NOTE: PLANT SELECTION SHOULD NOT OBSCURE LINE-OF-SIGHT TO THE ECP AND PUBLIC INTERSECTION.

PARKING FOR NONORGANIZATIONAL VEHICLES WITH SPACES RESERVED FOR SECURITY VEHICLES

■ BARRIER NORMALLY DEPLOYED

CONCEPT E
SCALE: 1"=50'-0"

CONCEPT E

PREMISE: REDUCE VEHICULAR ACCESS TO THE INSTALLATION TO SUCH A SMALL NUMBER OF VEHICLES THAT EACH ONE CAN BE STOPPED AND INSPECTED.

OPERATION: STAFF AND VISITORS PARK THEIR PRIVATE VEHICLES OUTSIDE THE INSTALLATION PERIMETER AND TAKE SHUTTLE BUSES ONTO THE INSTALLATION. ACCESS PASS. THE VEHICLES ALLOWED ON THE INSTALLATION CAN BE LIMITED TO SHUTTLE BUSES AND DELIVERY TRUCKS. OFFICIAL VEHICLES, VEHICLES DRIVEN BY THE HANDICAPPED, PRIVATE VEHICLES OWNED BY PERSONS LIVING ON THE INSTALLATION, CAR POOL VEHICLES, AND VEHICLES ENTERING THE INSTALLATION AT TIMES OTHER THAN RUSH HOUR MIGHT ALSO BE ALLOWED ON THE INSTALLATION, DEPENDING ON THE AMOUNT OF TRAFFIC SEVERITY OF THE SECURITY THREAT, OR PRACTICALITY OF THE SHUTTLE BUS SERVICE. THE USE OF TOLL GATES AND CARD READERS TO ALLOW ACCESS TO PREAPPROVED VEHICLES IS AN OPTIONAL ADDITION TO THIS CONCEPT.

THE TWO VEHICULAR BARRIERS WHICH FORM THE SECONDARY CHECKPOINT ARE NORMALLY DEPLOYED.

APPLICATION: THIS CONCEPT DOES NOT REQUIRE A LONG APPROACH ZONE, BUT IT DOES REQUIRE SPACE FOR PARKING LOTS.

LIMITATION: SHUTTLE BUS SERVICE MAY NOT BE FEASIBLE ECONOMICALLY, PARTICULARLY AT A LARGE, SPRAWLING, EXISTING INSTALLATION. MINIMAL BLAST PROTECTION IS OFFERED TO SECURITY PERSONNEL AT SECONDARY CHECKPOINT.

NOTE: WHEN AN INSTALLATION REQUIRES A HIGH LEVEL OF SECURITY, THE BARRIERS SHOULD BE USED IN PAIRS TO FORM AN ENTRAPMENT ZONE.

SEE SHEETS I-6 FOR ADDITIONAL NOTES

TRAFFIC VOLUME

THE VOLUME OF TRAFFIC ON A ROAD IS AFFECTED BY TERRAIN, ROAD WIDTH, LOCATION OF OBSTRUCTIONS ALONG THE ROAD, AND THE PERCENTAGE OF TRUCKS IN THE TRAFFIC. FOR GUIDANCE REFER TO TM 5-822-2.

THE VOLUME OF TRAFFIC ACTUALLY PASSING AN ECP WILL BE CONSIDERABLY REDUCED FROM THOSE VOLUMES DETERMINED USING TM 5-822-2, IF ANY TYPE OF SECURITY CHECK IS PERFORMED. ASSUMING LEVEL TERRAIN, NO TRUCKS, AND A 10 FT ROADWAY WITH OBSTRUCTIONS ON BOTH SIDES AT THE EDGES OF THE ROADWAY, THE FOLLOWING VOLUMES OF TRAFFIC MAY BE EXPECTED TO PASS AN ECP IN ONE LANE OF TRAFFIC:

	VEHICLE/HOUR
• NO SECURITY CHECK	600 - 800
• VEHICLE TAG CHECK	400 - 600
• PERSONNEL ID CHECK	200 - 400

BASIC VEHICLE SEARCH PATTERNS (THOROUGHNESS OF SEARCH)

	ESTIMATED RATE VEHICLE/HOUR/LANE
• SEARCH PATTERN #1: VEHICLE DRIVER I.D. RECOGNITION	200 - 400
• SEARCH PATTERN #2: A PHYSICAL/VISUAL OBSERVATION OF THE PASSENGER AREA AND CARGO AREA.	150 - 300
• SEARCH PATTERN #3: A BASIC, BUT MORE COMPREHENSIVE PHYSICAL/VISUAL SEARCH OF THE PASSENGER AREA, INTERIOR COMPARTMENT AND CARGO AREA.	100 - 200
• SEARCH PATTERN #4: THIS IS SIMILAR TO PATTERN #3 BUT INCLUDES MINUTE DETAILS OF UNDER SEAT, UNDER DASH AND GLOVE COMPARTMENT AND A VISUAL INSPECTION OF THE UNDERCARRIAGE.	25 - 50
• SEARCH PATTERN #5: INCLUDES A VISUAL SEARCH OF THE ENGINE COMPARTMENT, FENDER WELLS, CARGO AREA, PASSENGER AREA, UNDER SEATS, UNDER DASHBOARD AND GLOVE COMPARTMENT.	6 - 12
• SEARCH PATTERN #6: A RANDOM VEHICLE SEARCH, DETAILED IN SCOPE AND AVOIDING "STANDARD" FIXED PATTERNS WHICH WOULD BE OBSERVED AS ROUTINE.	4 - 6

NOTES:

1. THE VEHICLE RATES ARE BASED ON A 100% SEARCH RATE.
2. SEARCH PATTERNS #4, 5, AND 6 ARE BEST ACCOMPLISHED BY A TEAM OF TWO GUARDS, ONE KEEPING THE VEHICLE OPERATOR UNDER SURVEILLANCE. FOR SEARCH PATTERNS 4 - 6, A SEPARATE HOLDING AREA IS REQUIRED.
3. VEHICLE RATES IN WHICH NO SEARCHES ARE CONDUCTED INCLUDE AN OPEN INSTALLATION (600-800 VEHICLES/HOUR/LANE) AND VISUAL VEHICLE BUMPER DECAL I.D. (400-600 VEHICLES/HOUR/LANE).

WITH TRAFFIC CONTROL DEVICES, THE FOLLOWING VOLUMES MAY BE EXPECTED:

	VEHICLE/HOUR
• TOLL GATE-FREE PASSAGE WITH GATE CLOSING AFTER EACH VEHICLE.	250
• TOLL GATE & CARD READER	150

Symbol	Description	Date	Approved
GENERAL REVISIONS - SHEET REDRAWN			

U.S. ARMY ENGINEER DIVISION,
HUNTSVILLE
CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA

ENTRY POINTS FOR U.S. ARMY INSTALLATIONS

Site adapt A/E : RDP	Ckd. by : AF	CONCEPT E	
Reviewed by : <i>Paul H. Williams</i>	Date : 27 FEB 89	Sheet reference number : 4	Design file no. : Rev.
Approved by : <i>Paul H. Williams</i>	Drawing code : DEF 872-50-01	Sheet 4 of 14	