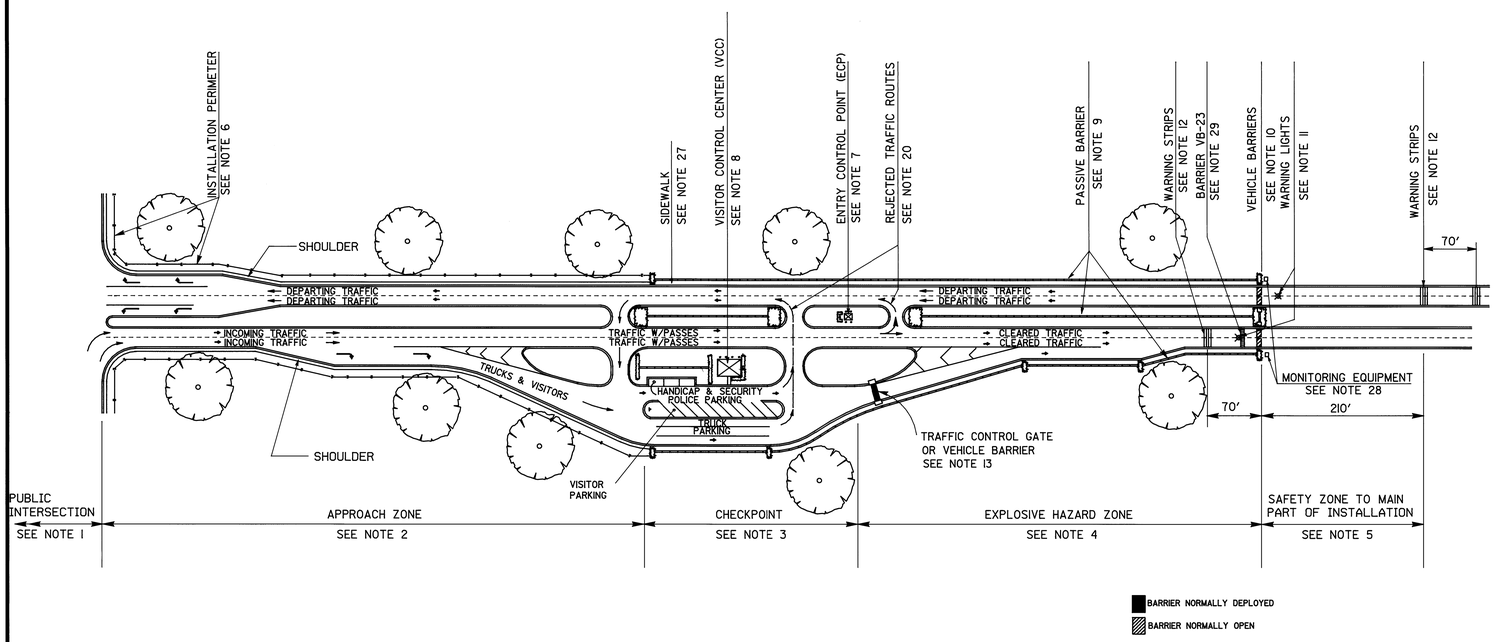
CORPS OF ENGINEERS | 4 | 3 | 2 | 1 | U.S. ARMY



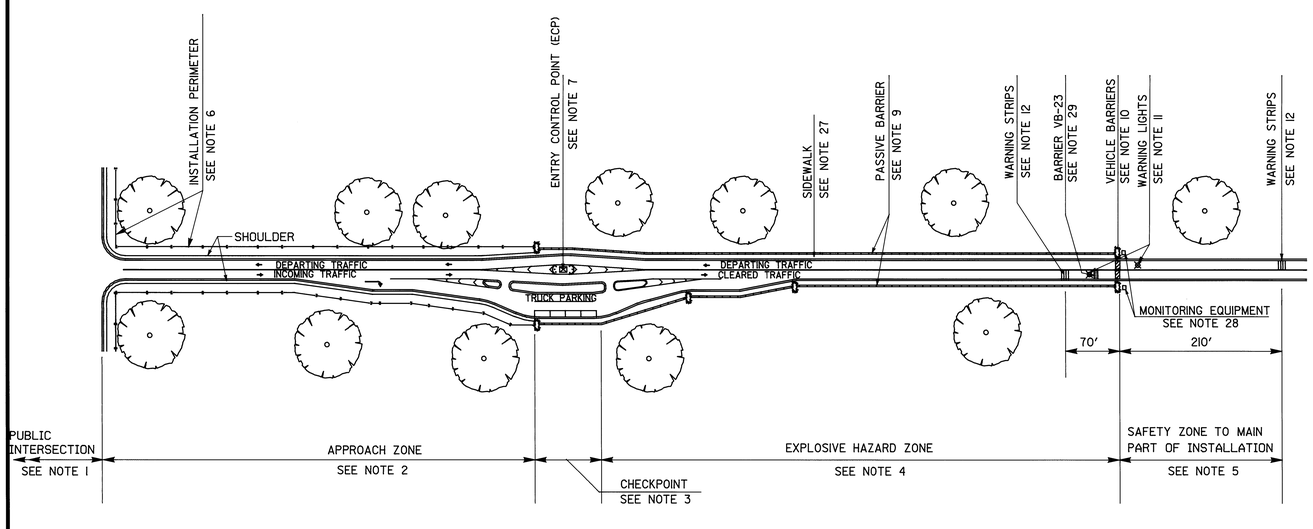

GENERAL CONCEPT FOR CONTROLLED ACCESS

SCALE 1" = 80'

GENERAL CONCEPT
(CONTROLLED ENTRY)

- EACH ENTRY POINT HAS 4 ZONES AS FOLLOWS:
  a. APPROACH ZONE: USED TO SORT OUT TRAFFIC, REDUCE THE SPEED OF TRAFFIC, PROVIDE STACKING SPACE FOR VEHICLES, AND IDENTIFY THREATENING VEHICLES.
  b. CHECKPOINT: USED TO CONDUCT ANY VEHICLE/ PERSONNEL CHECKS.
  c. EXPLOSIVE HAZARD ZONE: USED TO PROTECT THE SECURITY FORCE AGAINST AN EXPLOSION AT THE VEHICLE BARRIER.
  d. SAFETY ZONE: USED TO PROTECT PERSONNEL AND FACILITIES ON THE BASE AGAINST THE SAME EXPLOSION.
- ALL CONCEPTS REQUIRE THE FOLLOWING ELEMENTS:
  a. PASSIVE BARRIERS TO LIMIT THE PATH OF VEHICLES.
  b. ENTRY CONTROL POINT (ECP) TO PROVIDE INDIVIDUAL GUARDS PROTECTION AGAINST TRAFFIC, WEATHER, AND ARMED INTRUDERS.
  c. VISITOR CONTROL CENTER (VCC) TO HOUSE GUARDS USED TO CHECK VISITORS AND TRUCKS AND TO OVERSEE CONDITIONS AT THE CHECKPOINT.
  d. VEHICLE BARRIERS TO PROVIDE A FINAL BARRIER AT THE ENTRY POINT AGAINST UNAUTHORIZED VEHICLES.
- THE CHECKPOINT SHALL ACCOMMODATE THE FOLLOWING TRAFFIC AS SHOWN IN THE CONCEPTS:
  a. NORMAL INCOMING AND DEPARTING TRAFFIC
  b. VISITORS
  c. TRUCK TRAFFIC
  d. VEHICLES DENIED ACCESS
  e. VEHICLES WHICH REQUIRE A SEARCH
  f. ARRIVING ESCORTS FOR VISITORS
- EACH ENTRY POINT SHALL HAVE 2 OR MORE FACILITIES FOR THE GUARD FORCE AT THE CHECKPOINT, 1 VCC AND 1 OR MORE ECP'S. MULTIPLE FACILITIES ARE NECESSARY FOR PROPER SURVEILLANCE OF THE ENTRY POINT AND FOR REDUNDANCY AGAINST AGGRESSORS. VEHICLE BARRIERS ARE REQUIRED IN THE DEPARTING TRAFFIC LANES TO KEEP AN AGGRESSOR FROM USING THESE LANES TO GAIN ENTRY TO THE BASE.

SEE SHEETS 2 AND 3 FOR ADDITIONAL NOTES




GENERAL CONCEPT FOR MONITORED ACCESS

SCALE 1" = 80'

GENERAL CONCEPT
(MONITORED ENTRY)

- EACH ENTRY POINT HAS 4 ZONES AS FOLLOWS:
  a. APPROACH ZONE: USED TO SORT OUT TRAFFIC. REDUCE THE SPEED OF TRAFFIC, PROVIDE STACKING SPACE FOR VEHICLES, AND IDENTIFY THREATENING VEHICLES.
  b. CHECKPOINT: USED TO CONDUCT ANY VEHICLE/ PERSONNEL CHECKS.
  c. EXPLOSIVE HAZARD ZONE: USED TO PROTECT THE SECURITY FORCE AGAINST AN EXPLOSION AT THE VEHICLE BARRIER.
  d. SAFETY ZONE: USED TO PROTECT PERSONNEL AND FACILITIES ON THE BASE AGAINST THE SAME EXPLOSION.
- THIS CONCEPT REQUIRES THE FOLLOWING ELEMENTS:
  a. PASSIVE BARRIERS TO LIMIT THE PATH OF VEHICLES.
  b. ENTRY CONTROL POINT (ECP) TO PROVIDE INDIVIDUAL GUARDS PROTECTION AGAINST TRAFFIC, WEATHER, AND ARMED INTRUDERS.
  c. VEHICLE BARRIERS TO PROVIDE A FINAL BARRIER AT THE ENTRY POINT AGAINST UNAUTHORIZED VEHICLES.
- THE CHECKPOINT SHALL HAVE 1 ENTRY CONTROL POINT (ECP) AND SHALL ACCOMMODATE THE FOLLOWING TRAFFIC AS SHOWN IN THE CONCEPTS:
  a. NORMAL INCOMING AND DEPARTING TRAFFIC
  b. VISITORS
  c. TRUCK TRAFFIC
  d. VEHICLES DENIED ACCESS
  e. VEHICLES WHICH REQUIRE A SEARCH
- VEHICLE BARRIERS ARE REQUIRED IN THE DEPARTING TRAFFIC LANES TO KEEP AN AGGRESSOR FROM USING THESE LANES TO GAIN ENTRY TO THE BASE.

SEE SHEETS 2 AND 3 FOR ADDITIONAL NOTES

REFERENCES

DEPARTMENT OF THE ARMY

| | |
|---|---|
| FM 19-30 | PHYSICAL SECURITY |
| TM-5-807-10 | SIGNAGE |
| TM-5-811-1 | ELECTRICAL POWER SUPPLY AND DISTRIBUTION |
| TM-5-853-1 | DESIGNING FOR SECURITY |
| TM-5-855-1 | FUNDAMENTALS OF PROTECTIVE DESIGN FOR CONVENTIONAL WEAPONS |
| TM-5-822-2 | GEN. PROVISION & GEOMETRIC DESIGN FOR ROADS, STREETS, WALKS AND OPEN STORAGE AREAS |
| TM-5-1300 | STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS |
| USACE | SECURITY ENGINEERING MANUAL, AUGUST 1987 |

DEPARTMENT OF THE NAVY

| | |
|---|---|
| NAVFAC DM-5.12 | FENCING, GATES, AND GUARD TOWER |
| USN MIL-HNDBK-1013/1 | PHYSICAL SECURITY |
| NCEL | MIL-SAMIT (BALLISTIC PERFORMANCE STANDARD) |

DEPARTMENT OF DEFENSE

| | |
|---|---|
| DOD 6055.9 STD | DOD AMMUNITION AND EXPLOSIVE SAFETY STANDARDS |
| MIL-STD-398 | MILITARY STANDARD SHIELDS, OPERATIONAL FOR AMMUNITION OPERATIONS, CRITERIA FOR DESIGN OF AND TESTS FOR ACCEPTANCE |
| AMC-R 385-100 | SAFETY MANUAL |

NON-GOVERNMENT PUBLICATIONS

| | |
|---|---|
| UNDERWRITERS LABORATORIES (UL-752) | STANDARD FOR SAFETY, BULLET-RESISTING EQUIPMENT |
| NIJ | NATIONAL INSTITUTE OF JUSTICE STD-0108.01 |

RELATED DRAWINGS

| | |
|---|---|
| 40-16-08 | DRAWINGS, FENCES AND DETAILS |
| DEF 872-10-01 | DRAWING, WEAPONS STORAGE AREA, FENCE DETAIL AND CRASH BEAMS |
| DEF 812-30-01 | SECURITY LIGHTING SYSTEM |
| DEF 872-90-01 | PERIMETER WARNING |
| DEF 149-30-01 | BARRICADES |

RELATED SPECIFICATION

| | |
|---|---|
| CEGS-02835 | VEHICLE BARRIERS |

OVERALL OBJECTIVES

- ENTRY POINTS SHALL BE DESIGNED FOR THREE PURPOSES.
  a. THEY SHALL ASSIST THE SECURITY FORCE IN DETERING, DENYING, OR AT THE LEAST, DELAYING ENTRY TO A SINGLE AGGRESSOR OR A GROUP OF AGGRESSORS INTENT ON GAINING ENTRY TO A MILITARY INSTALLATION BY MEANS OF FORCE.
  b. THEY SHALL PROTECT THE SECURITY FORCE AT THE CHECKPOINT AGAINST HIGH POWERED RIFLE THREAT (UL-HPR) AS DEFINED IN UL-752.
  c. THEY SHALL PROTECT THE PERSONNEL AND FACILITIES ON THE MAIN INSTALLATION AGAINST AN EXPLOSION AT THE VEHICLE BARRIER.
- ENTRY POINTS SHALL MINIMIZE THE FOLLOWING:
  a. UNDUE THREATS TO THE WELL BEING OF PERSONS HAVING LEGITIMATE REASONS FOR PASSING THROUGH THE ACCESS POINTS.
  b. UNDUE RESTRICTIONS TO THE FLOW OF TRAFFIC THROUGH THE ACCESS POINTS.
- ENTRY POINTS SHALL PROVIDE THE FOLLOWING:
  a. OPERATIONAL FLEXIBILITY TO SUPPORT VARIOUS LEVELS OF SECURITY.
  b. FLEXIBILITY TO ACCOMMODATE A RANGE OF TRAFFIC CONDITIONS SUCH AS RUSH HOUR TRAFFIC AND VISITOR AND TRUCK TRAFFIC REQUIRING ADDITIONAL CHECKING.
- IT IS DESIRABLE TO MAINTAIN THE IMAGE OF OUR COUNTRY AS AN OPEN , DEMOCRATIC SOCIETY THAT DOES NOT CONCEAL ITS BUSINESS BEHIND FORBIDDING BARRIERS. HOWEVER, IT IS RECOGNIZED THAT THERE IS SOME DETERRENT VALUE IN THE VISIBILITY OF SOME SECURITY MEASURES. THESE TWO OPPOSING GOALS MUST BE RECONCILED IN ANY CONCEPT.
- THE FACILITIES SHALL ALSO BE SURROUNDED WITH PASSIVE BARRIERS SUCH AS CONCRETE PLANTERS AND GUARD POSTS TO PROTECT THE GUARDS FROM VEHICLES.
- VEHICLE BARRIERS SHALL ALWAYS BE CONTROLLED MANUALLY BY THE GUARDS AT BOTH THE ENTRY CONTROL POINT AND THE VISITOR CONTROL CENTER. AUTOMATIC DEVICES SHALL BE USED TO SOUND AN ALARM AT THE SAME LOCATIONS. IF THE THREAT IS SUFFICIENT, THE GUARDS MAY BE GIVEN THE OPTION OF USING THE AUTOMATIC DEVICES TO ACTIVATE THE BARRIERS. HOWEVER; ALL AUTOMATIC DEVICES WILL GIVE FALSE ALARMS AND SHOULD ONLY BE USED TO AUTOMATICALLY ACTIVATE THE BARRIERS UNDER THE MOST THREATENING CONDITIONS.

| Symbol | Description | Date | Approved |
|---|---|---|---|
| 1 | GENERAL REVISIONS - SHEET REDRAWN | 27 FEB 89 | AA |

Revisions

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

Site adapt A/E :

US Army Corps of Engineers

ENTRY POINTS FOR U.S. ARMY INSTALLATIONS

GENERAL CONCEPTS

Dwn. by : RDP | Ckd. by : AF

Reviewed by : Paul A. Williams

Approved by : Paul A. Howard

Date : 27 FEB 89

Drawing code : DEF 872-50-01

Sheet reference number : 1

Design file no. :

Rev. 1

Sheet 1 of 14

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