



DoD DIRECTIVE 4510.11

DoD TRANSPORTATION ENGINEERING

Originating Component:	Office of the Under Secretary of Defense for Acquisition and Sustainment
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Reissues and Cancels:	DoD Directive 4510.11, "DoD Transportation Engineering," December 23, 2014, as amended
Approved by:	Stephen A. Feinberg, Deputy Secretary of Defense

Purpose: This issuance:

- Establishes policies for DoD transportation engineering.
- Assigns responsibilities for DoD transportation engineering and incorporating effective transportation engineering techniques and characteristics into DoD transportation processes, equipment, and facilities.
- Directs coordination with Federal, State, and local government and industry to integrate DoD transportation engineering and infrastructure requirements into commercial and civil transportation programs.
- Directs coordination of DoD transportation engineering interests and requirements for common-user DoD transportation systems and programs.
- Establishes requirements for the design and development of new or modified DoD equipment in accordance with DoD Instructions (DoDIs) 4540.07 and 5000.02.
- Designates the Commander, United States Transportation Command (USTRANSCOM) as the DoD Single Manager for DoD Transportation Engineering.

TABLE OF CONTENTS

SECTION 1: GENERAL ISSUANCE INFORMATION 3

 1.1. Applicability. 3

 1.2. Policy. 3

SECTION 2: RESPONSIBILITIES 4

 2.1. Under Secretary of Defense for Acquisition and Sustainment. 4

 2.2. DoD Component Heads. 4

 2.3. Commander, USTRANSCOM. 5

GLOSSARY 7

 G.1. Acronyms. 7

 G.2. Definitions. 7

REFERENCES 9

SECTION 1: GENERAL ISSUANCE INFORMATION

1.1. APPLICABILITY.

This issuance applies to OSD, the Military Departments, the Office of the Chairman of the Joint Chiefs of Staff and the Joint Staff, the Combatant Commands, the Office of Inspector General of the Department of Defense, the Defense Agencies, the DoD Field Activities, and all other organizational entities within the DoD (referred to collectively in this issuance as the “DoD Components”).

1.2. POLICY.

a. Defense peacetime and mobilization transportation engineering requirements will be integrated into civil and DoD transportation programs to ensure national defense interests are protected.

b. Safe, efficient, and effective transportation engineering features will be incorporated into the design, construction, modification, and maintenance of DoD transportation systems, equipment, and facilities.

c. Defense peacetime and mobilization interests on design, development, and maintenance of highway, rail, port, and intermodal facilities will be coordinated with civil transportation agencies.

d. DoD transportation engineering and infrastructure requirements will be coordinated with the transportation agents of Federal, State, and local government and industry and integrated into commercial and civil transportation programs.

e. Requirements for common-user DoD transportation systems and programs will be coordinated with the DoD Components.

f. Requirements for the design and development of new or modified transportation engineering techniques and procedures will be addressed in accordance with DoDIs 4540.07 and 5000.02.

SECTION 2: RESPONSIBILITIES

2.1. UNDER SECRETARY OF DEFENSE FOR ACQUISITION AND SUSTAINMENT.

The Under Secretary of Defense for Acquisition and Sustainment establishes policy governing DoD transportation engineering programs.

2.2. DOD COMPONENT HEADS.

The DoD Component heads:

- a. Establish engineering for transportability programs, in accordance with DoDIs 4540.07 and 5000.02, to integrate effective mobility features into the design and development of new or modified defense materiel and equipment.
- b. Ensure coordination among DoD Components, including USTRANSCOM, before construction or major modification of common-user defense transportation systems in accordance with DoDI 4540.07.
- c. Coordinate with DoD Components on transportation engineering efforts in accordance with DoD Manual 4510.12.
- d. Support the policies and procedures of this issuance, including budgeting for DoD Component installation defense access road projects, and preserving defense-essential civil rail lines.
- e. Coordinate with the Commander, USTRANSCOM, through the USTRANSCOM Special Assistant for Transportation Engineering (SATE), regarding common-user defense transportation and installation transportation engineering matters, including:
 - (1) Unresolved or other serious conflicts with civil authorities on use of public highways and facilities.
 - (2) Furnishing information and data supporting identification of public highway segments that are important to national defense and defense mobility.
 - (3) Defense access road requests, reporting requirements, and appropriate programming to fund design and construction of necessary projects.
 - (4) Identification of installations that require civil or commercial railroad access.
 - (5) Consideration of DoD options to abandon connector rail lines to installations and other DoD activities.
 - (6) Identification of commercial railroad segments important to national defense and defense mobility.

(7) DoD installation transportation engineering issues and the need for transportation engineering consultation services.

(8) Requirements for new and improved transportation engineering features with details for planning, design, and development incorporated into defense transportation processes, equipment, and facilities.

f. Support the use of effective and safe transportation engineering techniques in DoD installation transportation processes, equipment, and facilities by providing appropriate consultation through the SATE.

g. Direct Component installations to participate in State and local transportation and congestion plans to ensure access needs to military installations are considered.

h. Protect critical information and data regarding the identification of public highway and railroad segments that are important to national defense and defense mobility from unauthorized disclosure to maintain operations security in accordance with DoD Directive 5205.02E.

2.3. COMMANDER, USTRANSCOM.

In accordance with the Unified Command Plan, and in addition to the responsibilities in Paragraph 2.2., the Commander, USTRANSCOM:

a. Serves as the DoD Single Manager for DoD Transportation Engineering to:

(1) Oversee and direct the execution of assigned responsibilities and functions for DoD transportation engineering in accordance with DoD Manual 4510.12.

(2) Identify DoD transportation engineering interests in civil and commercial transportation programs.

(3) Represent DoD in negotiations and discussions with civil transportation agencies and industry regarding DoD common-user transportation engineering matters.

(4) Coordinate with the Under Secretary of Defense for Acquisition and Sustainment to advocate for DoD transportation engineering interests and requirements in national transportation programs and policies.

(5) Coordinate defense peacetime and mobilization interests on design, development, and maintenance of highway, rail, airport, and seaport facilities with civil transportation agencies and commercial entities.

(6) Identify DoD Component coordinated transportation engineering interests and requirements in common-user DoD transportation systems and programs and coordinate with non-DoD government and civil sectors to ensure DoD needs are met.

b. Designates the Commander, Surface Deployment and Distribution Command (SDDC), as the Secretary of Defense certifying agent for the Defense Access Road Program in accordance with the requirements in Section 210 of Title 23, United States Code (U.S.C.).

c. Designates the Director, SDDC Transportation Engineering Agency, as the SATE, charged with providing executive-level representatives for DoD on all transportation engineering matters related to the National Defense Programs, including the management of the:

(1) Highways for National Defense Program pursuant to Part 193 of Title 32, Code of Federal Regulations.

(2) Railroads for National Defense Program and the DoD requirement for rail lines that are located and operated in the United States and the assessment of the impact of railroad abandonment on national defense interests as discussed in Part 1152.50 of Title 49, Code of Federal Regulations.

(3) Ports for National Defense Program and the Strategic Seaports Program pursuant to Executive Order 12656 and the authority in Sections 4501 to 4568 of Title 50, U.S.C.

(4) Defense Access Road Program in accordance with Section 210 of Title 23, U.S.C.

d. Authorizes the Director, SDDC Transportation Engineering Agency/SATE to coordinate with DoD Components, civil authorities, and commercial entities to conduct transportation engineering functions, and infrastructure and deployability analyses in accordance with DoD Manual 4510.12.

GLOSSARY

G.1. ACRONYMS.

ACRONYM	MEANING
DoDI	DoD instruction
SATE SDDC	Special Assistant for Transportation Engineering Surface Deployment and Distribution Command
U.S.C. USTRANSCOM	United States Code United States Transportation Command

G.2. DEFINITIONS.

These terms and their definitions are for the purpose of this issuance.

TERM	DEFINITION
civil transportation agencies	A collective term for those organizations with statutory responsibilities to incorporate DoD requirements into non-DoD, Federal, State, or local transportation programs and regulations involved with highways, railways, ports, and intermodal systems such as the U.S. Department of Transportation, the Federal Highway Administration, the Federal Railroad Administration, the U.S. Maritime Administration, and State and local transportation departments.
deployability	The ability to move forces and materiel anywhere in the world in support of a military operation.
DoD transportation engineering programs	The formally established DoD transportation engineering programs (e.g., the Defense Access Road Program, Highways for National Defense Program, Ports for National Defense Program, and Railroads for National Defense Program).
installation	A base, camp, post, station, yard, center, or other activity under the jurisdiction of the Secretary of a Military Department or, in the case of an activity in a foreign country, under the operational control of the Secretary of a Military Department or the Secretary of Defense.
intermodal	Type of international freight system that permits transshipping among sea, highway, rail, and air modes of transportation through use of American National Standards Institute and International

TERM	DEFINITION
	Organization for Standardization containers, line-haul assets, and handling equipment.
modes of transportation	Passenger travel and freight movement from one place to another by truck, ship, train, or plane.
SATE	The office of the SATE executes the programs for National Defense on behalf of DoD through the joint headquarters USTRANSCOM and provides executive level oversight of the modal Programs for National Defense and advises the Commander, SDDC on transportation engineering policy matters.
transportability	The inherent capability of an item or system to be moved effectively and efficiently by required transportation assets and modes of transportation.
transportation engineering	The science of evaluating the requirements for and planning the layout and functional aspects of transportation equipment and facilities to develop the most efficient operating relationships pertaining to traffic movement and transportation processes.

REFERENCES

Code of Federal Regulations, Title 32, Part 193
Code of Federal Regulations, Title 49, Part 1152.50
DoD Directive 5205.02E, “DoD Operations Security (OPSEC) Program,” June 20, 2012, as amended
DoD Instruction 4540.07, “Operation of the DoD Engineering for Transportability and Deployability Program,” February 19, 2016, as amended
DoD Instruction 5000.02, “Operation of Adaptive Acquisition Framework,” January 23, 2020, as amended
DoD Manual 4510.12, “DoD Transportation Engineering Program” June 14, 2023
Executive Order 12656, “Assignment of Emergency Preparedness Responsibilities,” November 18, 1988
Office of the Chairman of the Joint Chiefs of Staff, “Unified Command Plan,” current edition¹
United States Code, Title 23, Section 210
United States Code, Title 50, Sections 4501 to 4568

¹ Available from the Strategy, Plans, and Policy Directorate (J5) of the Joint Staff to authorized users upon request.