

DRAFT
ENVIRONMENTAL ASSESSMENT
NORTHERN PARKWAY

FEDERAL PROJECT NO. STP-MMA-0(034)B
TRACS NO. 0000 MA MMA SS593 01C

July 2009

ARIZONA DEPARTMENT OF TRANSPORTATION
Intermodal Transportation Division
Environmental Planning Group
1611 West Jackson Street
Phoenix, AZ 85007

DRAFT
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for

Northern Parkway
Maricopa County

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This Environmental Assessment has been prepared in accordance with provisions and requirements of Chapter 1, Title 23 USC, 23 CFR Part 771 relating to the implementation of the National Environmental Policy Act of 1969.

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LIST OF ACRONYMS AND ABBREVIATIONS

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
AASHTO	American Association for State Highway and Transportation Officials
ADEQ	Arizona Department of Environmental Quality
ADOT	Arizona Department of Transportation
AFB	Air Force Base
amsl	above mean sea level
APS	Arizona Public Service Company
BNSF	Burlington Northern Santa Fe Railway
CACTI	Citizens Advisory Committee for Transportation Issues
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CEQ	Council of Environmental Quality
CFR	Code of Federal Regulations
CO	carbon monoxide
CORRACTS	Corrective Action Sites
dBA	A-weighted decibels
DCR	Design Concept Report
EA	Environmental Assessment
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
EPNG	El Paso Natural Gas
ERNS	Emergency Response Notification System
FCDMC	Flood Control District of Maricopa County
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FPPA	Farmland Protection Policy Act
Grand Avenue	US 60
I-10	Interstate 10
L_{eq}	equivalent sound level
$L_{\text{eq}}(\text{h})$	one-hour L_{eq}
LOS	Level of Service
LUST	leaking underground storage tank
MAG	Maricopa Association of Governments
MCDOT	Maricopa County Department of Transportation

MSATs	Mobile Source Air Toxics
mph	miles per hour
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NAP	Noise Abatement Policy
National Register	National Register of Historic Places
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NPL	National Priorities List
NRCS	Natural Resources Conservation Service
PM ₁₀	particulate matter equal to or smaller than 10 microns in diameter
PM _{2.5}	particulate matter equal to or smaller than 2.5 microns in diameter
ppm	parts per million
RAZ	Regional Analysis Zone
RCRA	Resource Conservation and Recovery Act
RTP	Regional Transportation Plan
SHWS	State Hazardous Waste Sites
SO ₂	sulfur dioxide
SR	State Route
SRP	Salt River Project
US	United States
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
U.S.C.	U.S. Code
USGS	U.S. Geological Survey
UST	underground storage tank
VMT	vehicle miles traveled
vpd	vehicles per day
WQARF	Water Quality Assurance Revolving Fund

MITIGATION MEASURES

Mitigation measures have been defined to avoid or minimize the environmental impacts of the proposed project. These mitigation measures will not change without prior written approval from the Federal Highway Administration.

MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION DESIGN RESPONSIBILITIES

1. The Maricopa Department of Transportation would coordinate and work with local jurisdictions (the cities of Glendale, El Mirage, and Peoria) regarding comprehensive city plans that would accommodate growth as a result of a new facility, along with future planned projects. (Refer to pages 57 and 68.)
2. During the design phase, the Maricopa County Department of Transportation would ensure that landscape and aesthetic treatment plans would be reviewed and approved by the City of Glendale, City of El Mirage, City of Peoria, and the Arizona Department of Transportation. (Refer to page 84.)
3. The Maricopa County Department of Transportation would ensure that relocation of residents and businesses would comply with the terms of the Federal Uniform Relocation Assistance Act of 1970, as amended. This would provide land owners the fair market value for all properties to be acquired for a new facility. (Refer to pages 57 and 72.)
4. The Maricopa County Department of Transportation would ensure that noise abatement measures that may be required for the selected alternative are reasonable and feasible, in accordance with Federal Highway Administration regulations and the current Arizona Department of Transportation's Noise Abatement Policy. Actual types and locations of noise abatement mitigation would be analyzed in more detail during subsequent design phases for the preferred alternative. (Refer to page 90.)
5. The Maricopa County Department of Transportation would ensure that detention basins are designed and installed to mitigate any increases in peak runoff rates. (Refer to page 121.)
6. The Maricopa County Department of Transportation would consult with the Federal Emergency Management Agency and the U.S. Army Corps of Engineers to identify and mitigate potential effects on floodplains or waters of the United States. (Refer to page 121.)

7. The Maricopa County Department of Transportation would design the new facility to minimize floodplain encroachments and ensure that the flood-carrying capacity of drainages that cross the study area would not be impaired. (Refer to page 121.)
8. During final design, the Maricopa County Department of Transportation would coordinate with the U.S. Army Corps of Engineers to complete the jurisdictional delineation to identify permit requirements formally under Sections 401 and 404 of the Clean Water Act and mitigate potential impacts from a new facility. (Refer to page 122.)
9. To lessen or avoid potential effects on wildlife in the study area, the Maricopa County Department of Transportation would ensure that removal or disturbance of vegetation would be minimized through project design as practicable. (Refer to page 130.)
10. During final design, the Maricopa County Department of Transportation would coordinate with the Federal Highway Administration to determine if a “no effect” is still warranted or if there needs to be consultation with the U.S. Fish and Wildlife Service and obtain a list of threatened, endangered, proposed, and candidate species. The Arizona Game and Fish Department’s Heritage Database Management System list of special status species would be reviewed by a qualified biologist to determine if any new species have been listed or any changes in listing status have occurred. The biological evaluation would be updated to reflect any changes, if needed. The amended Biological Evaluation would be submitted to the Arizona Department of Transportation for review, approval, and coordination with the Federal Highway Administration. (Refer to page 130.)
11. During final design, the Maricopa County Department of Transportation would contact the Hazardous Materials Coordinator of the Arizona Department of Transportation’s Environmental Planning Group (602.712.7767) to determine the need for additional site assessment. (Refer to page 138.)
12. The Maricopa County Department of Transportation would coordinate with the City of Glendale and City of Peoria Parks and Recreation staff to ensure that the Northern Parkway improvements accommodate the proposed park and trail improvements at the New River and Northern Horizon Park.
13. During final design, the Maricopa County Department of Transportation would contact adjacent property owners where farming is occurring and coordinate relocation and reconfiguration of existing irrigation facilities.

MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION CONSTRUCTION RESPONSIBILITIES

1. Prior to construction, the Maricopa County Department of Transportation would coordinate relocation of affected utilities with utility purveyors as necessary. (Refer to page 58.)
2. The Maricopa County Department of Transportation would coordinate with local jurisdictions (e.g., City of Glendale, City of El Mirage, and City of Peoria) to develop specific plans that would accommodate emergency service vehicles and respond to public safety concerns during the construction and operations phases. (Refer to pages 56 and 72.)
3. The Maricopa County Department of Transportation would ensure that local agencies and jurisdictions (e.g., City of Glendale, City of El Mirage, and City of Peoria) would notify the public of the project's status through meetings and newsletters. (Refer to pages 72 and 68.)
4. The Maricopa County Department of Transportation would ensure that there would be access to pedestrian and transit routes at all times for transit-dependent individuals. (Refer to pages 56 and 72.)
5. This project is subject to the Arizona Pollutant Discharge Elimination System. The Maricopa County Department of Transportation would direct its contractor to comply with general permit requirements for construction sites under the Arizona Department of Environmental Quality, the Arizona Pollutant Discharge Elimination System Construction General Permit. In addition, the Maricopa County Department of Transportation and the Contractor would submit the Notice of Intent and the Notice of Termination to the Arizona Department of Environmental Quality. (Refer to page 122.)
6. The Maricopa County Department of Transportation's Contractor would ensure that no staging work during bridge construction over the New River would occur in the floodplain south of the proposed right-of-way. (Refer to pages 123 and 131.)
7. The Maricopa County Department of Transportation would apply for and receive a Section 401/404 permit from the U.S. Army Corps of Engineers. (Refer to page 121.)

CONTRACTOR RESPONSIBILITIES

1. The Maricopa County Department of Transportation's Contractor would ensure that traffic access continues to be provided throughout the construction phase of the new facility. Traffic control would be in accordance with the most current *Manual on Uniform Traffic Control Devices for Streets and Highways*, published by the Federal Highway Administration,

including any revisions or additions, and/or associated provisions in the project plans, as determined by Arizona Department of Transportation's Traffic Design Section during design. (Refer to pages 56, 71, and 68.)

2. The Maricopa County Department of Transportation's Contractor would provide notice to residences and businesses adjacent to the project at least two weeks prior to construction. The notice would provide information about construction activities and when those would occur. Notice distribution would occur via letters, door hangers, etc. (Refer to pages 56, 71, and 68.)
3. The Maricopa County Department of Transportation's Contractor would provide elderly and disabled populations with contact information for demand-responsive transit services or other assistance. (Refer to page 72.)
4. The Maricopa County Department of Transportation's Contractor would ensure that construction noise would be controlled in accordance with the Arizona Department of Transportation's *Standard Specifications for Road and Bridge Construction*, Section 104.08 (2008), special provisions, and local rules or ordinances. (Refer to page 90.)
5. The Maricopa County Department of Transportation's Contractor would ensure that each internal combustion engine used for any purpose on the project, or related to the project, would be equipped with a muffler recommended by the manufacturer. (Refer to page 90.)
6. The Maricopa County Department of Transportation's Contractor would ensure that noise abatement measures are reasonable and feasible to be recommended for implementation in accordance with the Federal Highway Administration's regulations and Arizona Department of Transportation's Noise Abatement Policy. (Refer to page 90.)
7. The Maricopa County Department of Transportation's Contractor would take precautions to prevent materials from being discharged into washes and channels to prevent construction materials from entering the Agua Fria River and New River in accordance with necessary permits under the Clean Water Act. (Refer to page 121.)
8. The Contractor would follow all requirements issued in the U.S. Army Corps of Engineers Section 404 and Section 401 permits. (Refer to page 121 and 122.)
9. Because more than 1 acre would be disturbed during construction, compliance with the Arizona Pollutant Discharge Elimination System requirements administered by the Arizona Department of Environmental Quality is necessary. The Contractor shall take all necessary measures to assure compliance of employees and subcontractors with the Arizona Pollutant Discharge Elimination System Construction General Permit for Arizona as well as other

applicable Federal, State, and local laws, ordinances, statutes, rules, and regulations pertaining to stormwater discharge and air, groundwater, and surface water quality. As the permittee, the Contractor is responsible for preparing in a manner acceptable to the Arizona Department of Environmental Quality and the Environmental Protection Agency all documents required by regulation, which shall include but not necessarily be limited to the following:

- Notice of Intent (NOI)
- Stormwater Pollution Prevention Plan (SWPPP)

Notice of Termination (NOT)

Preliminary copies of the Notice of Intent and the Stormwater Pollution Prevention Plan shall be submitted to Maricopa County Department of Transportation during the pre-construction conference and shall be subject to review by the Maricopa County Department of Transportation prior to implementation. Copies will be provided also to the Cities of Glendale, Peoria, and El Mirage.

The Contractor shall ensure the completed and duly signed Notice of Intent form(s) are submitted in a timely manner to prevent a delay to project construction.

The Arizona Pollutant Discharge Elimination System form shall be submitted to the Arizona Department of Environmental Quality Phoenix, Arizona office by certified mail or hand delivered to the address below:

Stormwater Program-Water Permits Section/Notice of Intent
Arizona Department of Environmental Quality
1110 West Washington, 5415B-3
Phoenix, AZ 85007

(Refer to page 122.)

10. The Maricopa County Department of Transportation's Contractor would ensure that all disturbed soils that would not be landscaped or otherwise permanently stabilized by construction would be seeded using species native to the project vicinity. (Refer to page 130.)

11. If protected native plants would be impacted by project activities, the Maricopa County Department of Transportation's Contractor would notify the Arizona Department of

Agriculture at least 60 days prior to the start of construction so that the Arizona Department of Agriculture could determine the disposition of these plants. (Refer to page 130.)

12. The Maricopa County Department of Transportation's Contractor would prevent the introduction of invasive species seed and would ensure that all construction equipment would be washed at the Contractor's storage facility prior to entering the construction site. (Refer to page 130.)
13. To prevent the seeds of invasive species from leaving the site, the Maricopa County Department of Transportation's Contractor would inspect all construction equipment and remove all attached plant/vegetation debris prior to the equipment leaving the construction site. (Refer to page 130.)
14. The Maricopa County Department of Transportation's Contractor would stabilize (e.g., water) all dust-producing surfaces to reduce short-term effects associated with an increase in particulate matter attributable to construction activity. (Refer to page 107.)
15. The Maricopa County Department of Transportation's Contractor would cover dump trucks transporting materials that might become airborne during transit. After dumping of such materials, the Contractor would either cover the truck bed or take measures to remove all residues that might become airborne (MCDOT Supplement to MAG Specifications Section 107.6.3). (Refer to page 107.)
16. The Maricopa County Department of Transportation's Contractor would minimize offsite tracking of sediments by brushing or blowing off construction vehicles, or any other method deemed appropriate by the Contractor, before those vehicles exit the construction site (MCDOT Supplement to MAG Specifications Section 107.6.3). (Refer to page 107.)
17. The Maricopa County Department of Transportation would ensure that "[t]he Contractor shall take sufficient precautions, considering various conditions, to prevent pollution to streams, lakes, and reservoirs with fuels, oils, bitumens, calcium chloride, fresh Portland cement, raw sewage, muddy water, chemicals, or other harmful materials. None of these materials shall be discharged into any channels leading to such streams, lakes, or reservoirs." (Refer to page 123.)
18. The Maricopa County Department of Transportation would make reasonable effort to locate and identify potentially hazardous materials and/or underground storage tanks within the study area prior to construction. In the event material is found by the Contractor or subcontractors of any tier, during the performance of the work that is suspected to be

hazardous. The Contractor would stop work at the affected area and remove all personnel from that area as well as barricade the area and provide traffic control to prohibit unauthorized entry. The Contractor would immediately notify the Project Engineer to determine resolution of the matter. (Refer to page 139.)

19. The Maricopa County Department of Transportation's Contractor would dispose of construction debris on an as-needed basis to keep the site safe for the Contractor's personnel and the general public. Construction debris would be disposed of only in a manner or in a location approved by the Project Engineer. The Contractor would be responsible for the safe and clean condition of the site during the entire period the site is under the Contractor's care, custody, and control. (Refer to page 138).

20. The Maricopa County Department of Transportation Contractor would ensure that farm irrigation facilities remain operational during construction including construction of temporary irrigation facilities as required.

STANDARD SPECIFICATIONS INCLUDED AS MITIGATION MEASURES

1. The Maricopa County Department of Transportation would ensure that the project is designed according to Arizona Department of Transportation's *Standard Specifications for Road and Bridge Construction* (2008), Section 104, "Scope of Work," Subsection 09, "Prevention of Landscape Defacement: Protection of Streams, Lakes, and Reservoirs," which states "the Contractor shall give special attention to the effect of its operations on the landscape and shall take special care to maintain natural surroundings undamaged." (Refer to page 84.)
2. To minimize emissions from idling and slow-moving traffic in the construction zones, traffic control would be in accordance with the most current *Manual on Uniform Traffic Control Devices for Streets and Highways*, published by the Federal Highway Administration, including any revisions or additions, and/or associated provisions in the project plans, as determined by the Maricopa County Department of Transportation's Traffic Design Section during design. (Refer to page 106.)
3. According to the Arizona Department of Transportation's *Standard Specifications for Road and Bridge Construction* (2008 edition), Section 107, "Legal Relations and Responsibility to Public," Subsection 05, "Archaeological Features," "[w]hen previously unidentified archaeological, historical, or paleontological features are encountered or discovered during any activity related to the construction of the project, the Contractor shall stop work immediately at that location and shall take all reasonable steps to secure the preservation of

those resources and notify the Engineer.” The responsible Engineer will, in turn, notify the Arizona Department of Transportation’s Environmental Planning Group Historic Preservation Team (602.712.7767) to evaluate the significance of the resources.

4. According to the Arizona Department of Transportation’s *Standard Specifications for Road and Bridge Construction* (2008 edition), Section 104, “Scope of Work,” Subsection 08, “Prevention of Air and Noise Pollution,” “[t]he Contractor shall control, reduce, remove or prevent air pollution in all its forms, including air contaminants, in the performance of the Contractor’s work.” The Contractor will comply with all air pollution ordinances, regulations, orders, etc., during construction. All dust-producing surfaces will be watered or otherwise stabilized to reduce short-term impacts associated with an increase in particulate matter attributable to construction activity. (Refer to pages 107 and 106.)
5. The Maricopa County Department of Transportation would ensure compliance with the Maricopa County Department of Transportation Supplement to the Maricopa Association of Governments’ Uniform Standard Specifications and Details for Public Works Construction, January 2008, regarding Section 107.2.1 Arizona Pollutant Discharge Elimination System Construction General Permit Requirements. (Refer to page 123.)
6. According to the Arizona Department of Transportation’s *Standard Specifications for Road and Bridge Construction* (2008 edition), Section 107, “Legal Relations and Responsibility to Public,” Subsection 07, “Sanitary, Health, and Safety Provisions,” should the Contractor encounter potential hazardous or contaminated material, the Contractor would immediately stop work and remove workers, barricade the area, provide traffic controls and notify the Project Engineer. The Project Engineer would arrange for proper assessment, treatment, or disposal of those materials. Such locations would be investigated and proper action implemented prior to the continuation of work in that location. (Refer to page 138.)
7. According to the Arizona Department of Transportation’s *Standard Specifications for Road and Bridge Construction* (2008 edition), Section 1001, “Material Sources,” Subsection 2, “General,” any material sources required for this project outside the project area would be examined for environmental effects, by the Contractor, prior to use. (Refer to page 139.)
8. According to the Arizona Department of Transportation’s *Standard Specifications for Road and Bridge Construction* (2008 edition), Section 107, “Legal Relations and Responsibility to Public,” Subsection 11, “Protection and Restoration of Property and Landscape,” “[m]aterials removed during construction operations such as trees, stumps, building materials, irrigation and drainage structures, broken concrete, and other similar materials shall not be dumped on either private or public property unless the Contractor has obtained written permission from

the owner or public agency with jurisdiction over the land. Written permission would not be required, however, when materials are disposed of at an operating, public dumping ground.” The Contractor will dispose of excess waste material and construction debris at a municipal landfill approved under Title D of the Resource Conservation and Recovery Act, construction debris landfill approved under the Arizona Revised Statutes Title 49, Section 241, Permit Required to Discharge, administered by the Arizona Department of Environmental Quality, an inert landfill, or at another approved site. (Refer to page 139.)

9. The Maricopa County Department of Transportation would make reasonable effort to locate and identify potentially hazardous materials and/or underground storage tanks within the study area prior to construction. In the event material is found by the Contractor or subcontractors of any tier, during the performance of the work that is suspected to be hazardous. The Contractor would stop work at the affected area and remove all personnel from that area as well as barricade the area and provide traffic control to prohibit unauthorized entry. The Contractor would immediately notify the Project Engineer to determine resolution of the matter. (Refer to page 139.)
10. The Maricopa County Department of Transportation’s Contractor would comply with all air pollution ordinances, regulations, orders, etc., during construction (including *Maricopa County Air Quality Rule 310 – Fugitive Dust Sources* and any required air quality permits). (Refer to page 107.)