

PROJECT DELIVERY ACADEMY ENVIRONMENTAL CLEARANCE

Paul O'Brien, P.E. - Environmental Planning Administrator Katie Rodriguez - Environmental Planning Project Delivery Manager

October 2022

ARIZONA DEPARTMENT OF TRANSPORTATION

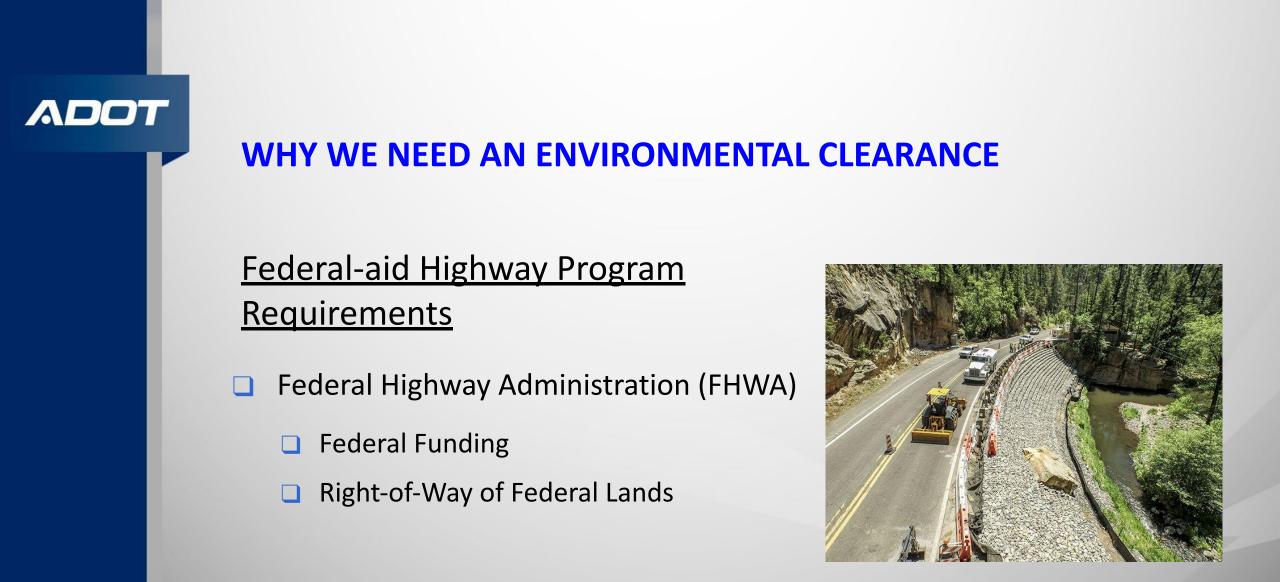
WHAT IS AN ENVIRONMENTAL CLEARANCE?

In short it means the project has been reviewed under all applicable environmental requirements and is "cleared" for construction

Environment

- Natural Air, land, water, trees, wildlife, habit, etc.
- Built Buildings, bridges, roadways, etc.
- □ Human Social, economic

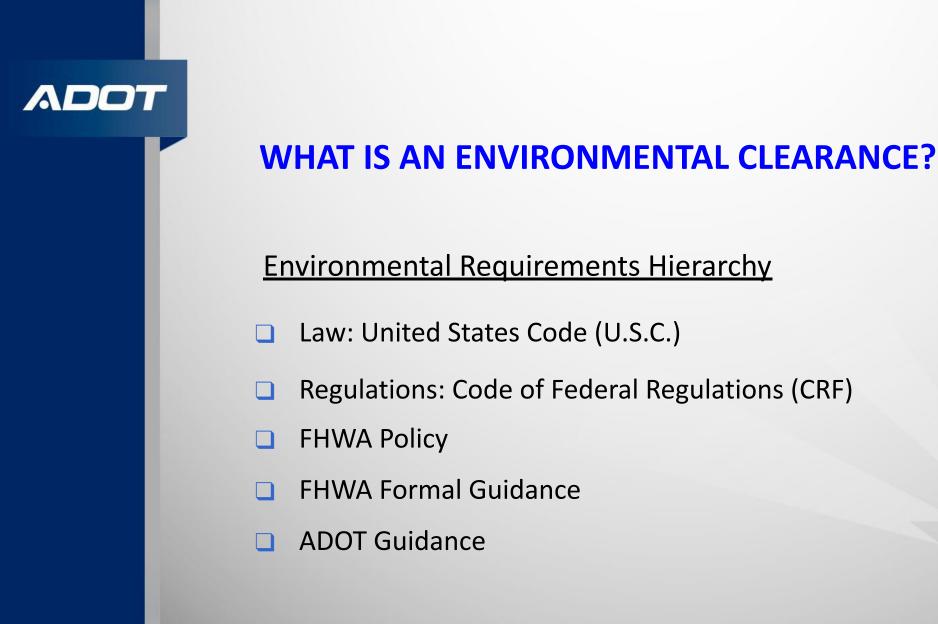




WHO IS IN ENVIRONMENTAL PLANNING?

Environmental Planning (Transportation Division)

- Environmental Planners
- Air Quality specialists
- Noise Technical Experts
- Archaeologists
- Biologists
- Hazardous Materials Specialists
- Water Resources



ENVIRONMENTAL REQUIREMENTS

Federal and State Environmental Laws and Regulations

- The over-arching environmental law
 - National Environmental Policy Act (NEPA)
- NEPA requires the federal government (FHWA) to consider the environment in major federal "actions"
- "Environmental review" includes all other applicable environmental laws

NEPA – Environmental Law



NEPA – Framework for all other relevant laws

Title VI of Civil Rights Act of 1964 Executive Order 12898 (Environmental Justice) 23 USC Section 109 (Standards) Clean Water Act (CWA) Clean Air Act (CAA) National Historic Preservation Act (NHPA) Endangered Species Act (ESA) US DOT Act – Section 4(f)

23 CFR 772 (Noise)

Comprehensive Environmental Response, Compensation and Liability Act (CERLA) Safe Water Drinking Act (SWDA) Public Hearing Requirements

Archaeological and Historic Preservation Act (AHPA)



ASSIGNMENT OF FHWA ENVIRONMENTAL RESPONSIBILITY

- Transfer of FHWA's environmental responsibilities under environmental laws to ADOT
 - An assignment of legal responsibility
 - ADOT is "decision maker" in federal environmental review process



WHY WE HAVE SOME OF THESE LAWS





TYPES OF NEPA APPROVAL

Class of Action

Environmental Impact Statement (EIS)

Impacts are significant (South Mountain)

Environmental Assessment (EA)

Significance of impacts not clearly known (big projects)

Categorical Exclusion (CE)

Impacts not significant (preservation projects – majority)

ENVIRONMENTAL IMPACT STATEMENT



New South Mountain Freeway

Many formal requirements such as alternatives and their impacts need to be studied

Can take several years and significant funds to complete an EIS



ENVIRONMENTAL ASSESSMENT



US 93 Two Lanes to Four Lanes

Alternatives developed and screened and a Build and No Build evaluated

Can still take several years and significant funds to complete



Categorical Exclusions

Match the general project description to the to the type of project and descriptions listed in the regulations to determine the applicable CE



Pathways

Categorical Exclusions

- By regulation, CEs require the consideration "unusual circumstances."
- For nearly all projects, consideration for one of the "other" environmental laws under the "NEPA umbrella" is most likely to be the critical path in the preparation of a CE.



The "Other" environmental laws

For most projects the other environmental laws under the "NEPA umbrella" are most likely to be the <u>critical</u> <u>path</u> in the preparation of CEs:

- Section 4(f) Parks, Historic Properties, Wildlife Refuges
- National Historic Preservation Act
- Clean Water Act Army Corps Individual Permit
- Endangered Species Act Biology
- Clean Air Act conformity determinations

Environmental Clearance

What is environmentaly "cleared"?

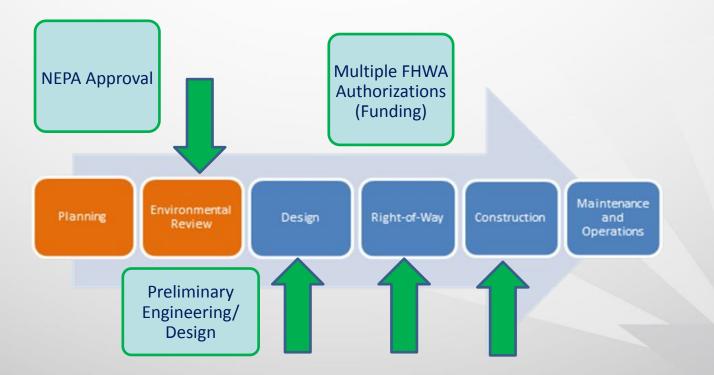
- The project as described; "paving" not a bridge
- Milepost limits; "from here to there"
- "Project footprint" as described including new right-of-way (permanent or temporary)
- Scope of work items described within those limits and as outlined in the design plans
- Constraints within the limits including avoidance areas or areas requiring a monitor during construction
- The sum total of all work described above in compliance with each individual law/regulation as applicable



Integrated Project Development Process



Environmental in the Project Development Process

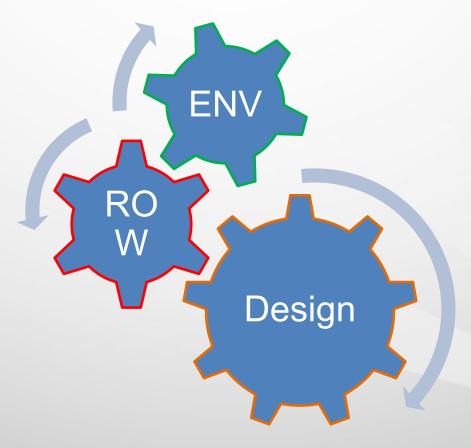


Environmental Review Process

Continuum



Engineering and Environmental is an integrated process



Think holistically of how project development components all interrelate

Environmental considerations need to happen throughout the project development process



COORDINATION

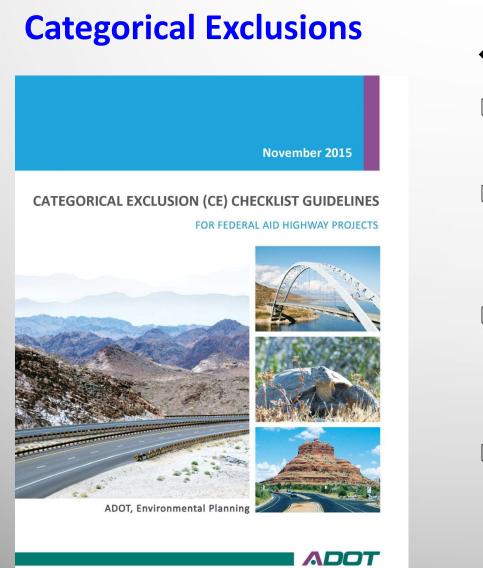
- Communicate changes quickly
- □ 100% footprint for ENV & ROW at 60% Design
- □ Identify ROW and (TCEs) early in Design
- Identify scope such as geotechnical work early
- Get funding in place quickly for additional work added to the project



SCHEDULE

- Complexity of project
 - CE 3 to 12 months
 - EA 1 to 3 years
 - EIS 3 to 5+ years [new 2-year timeline]
- Regulation review timelines and coordination with of other agencies
- Re-evaluations: Changes in project scope or limits requiring technical updates and consultations





CE Checklist

- □ The "CE" is environmental review documentation and federal approval for NEPA compliance
- The ADOT CE Checklist Manual provides
 step-by-step instruction on completing the CE
 checklist
- The CE Checklist itself is a streamlined documentation format
 - Utilizes drop-down menus (little writing)
- It is "NEPA approval" but acknowledges compliance with all environmental review requirements for a project

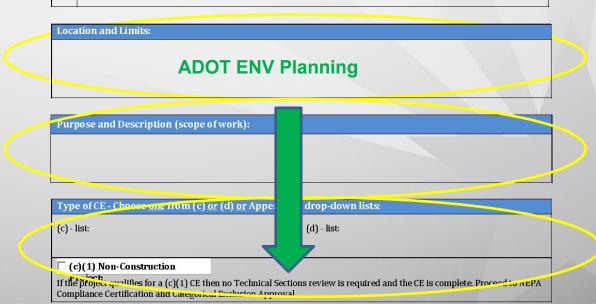
Categorical Exclusions

- CE based on the project (from TIP/engineering scoping)
- Project Information (Data, location, limits and description)
- ADOT ENV Planner completes the CE Checklist based on all Project Information and technical reviews completed
- CE type selection
- A series of drop-down menu selections are used to document relevant environmental concerns

DT Project Number: eral-Aid Number: mated Project Construction Cost: nning Requirements: TTP/Line Item A DOT Sub-program	ADOT CA Agency Categorical Exclusion Approval for FMIS 2A - (c) Listed 2B - (d) Listed 2C - (d) Unlisted
	2

-evaluation: This project has been re-evaluated pursuant to 23 CFR 771.129 due to a change in the project scope, location, or termini or because of the need to evaluate new impacts not previously considered, or because five years have passed

since the date of the CE Approval. The information on this form reflects all updates to the project information.



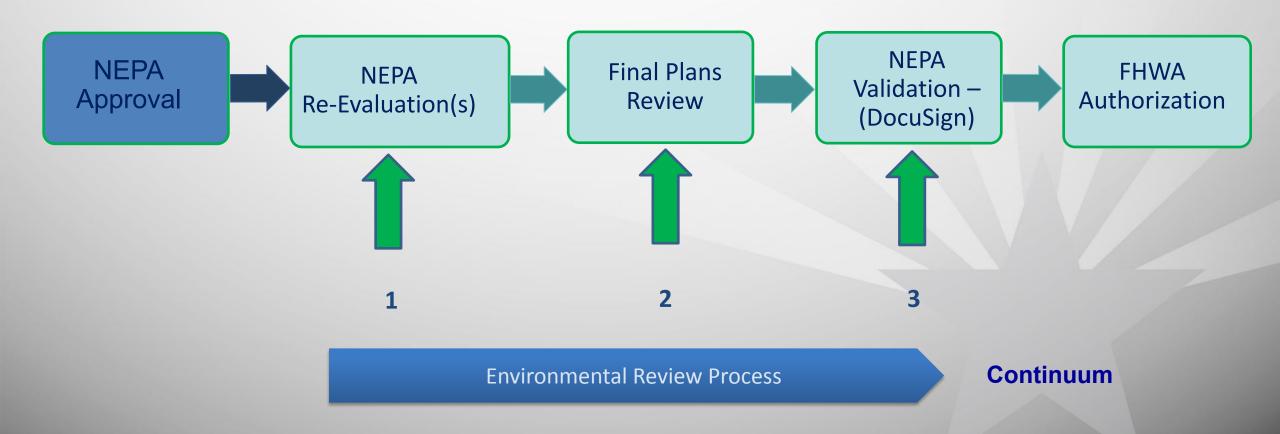


Categorical Exclusions

- "How long does it take to prepare a CE?" or really "How long does it take to develop a project?"
- The CE is a summary of the totality of surveys, studies, consultations, analysis and "other law" compliance as applicable ("it depends")
- Some projects such as (equipment) can be cleared with limited technical review
- "Individually documented and approved" CEs for projects such as adding a travel lane to a roadway can take 9 to 12 months
 - Be mindful of the timing of technical reviews for example:
 - Biological Opinion US Fish & Wildlife 135 days by regulation
 - Conformity determination the "planning requirements" are not up to date the CE approval could be delayed for months



Final Steps on the way to Federal Authorization

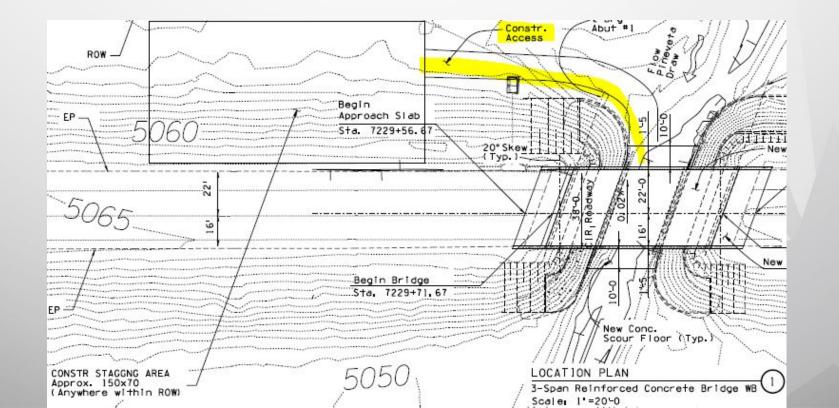




Final Plans Review

Final Plans Review

- Checking the final plans prior to ADOT validating NEPA
- Confirmation of no change in project scope, right-of-way and/or project limits
- Confirm environmental commitments are complete and included in Contract





Environmental & Design





FIELD REVIEWS



General type of work identified from planning and programming

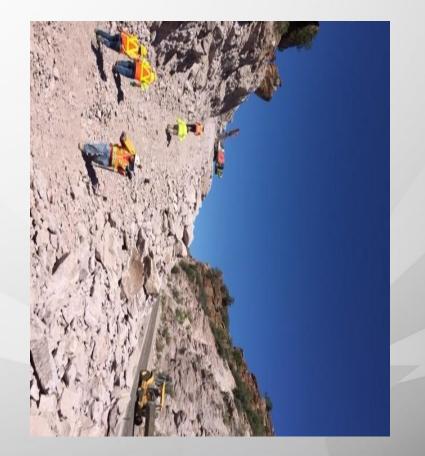
Identify issues that can influence the environmental clearance

Finalize scope of work and confirm anticipated level of environmental review



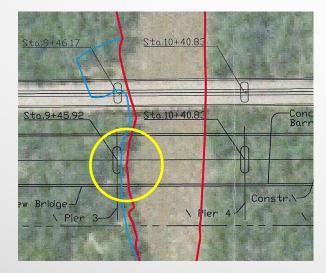
ENVIRONMENTAL CONSTRAINTS

- Avoid, Minimize, Mitigate Integral with the project development process
- Avoid Environmental Resources (Design)
 - Compromise (not at the expense of safety)
- Minimize Impacts (Design)
- Mitigate Compensation for unavoidable impacts



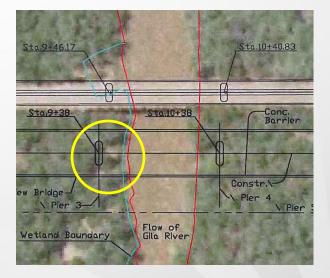


DESIGN AND PERMITTING



Preliminary design impacted a wetland (bridge piers)

Section 404 Individual Permit

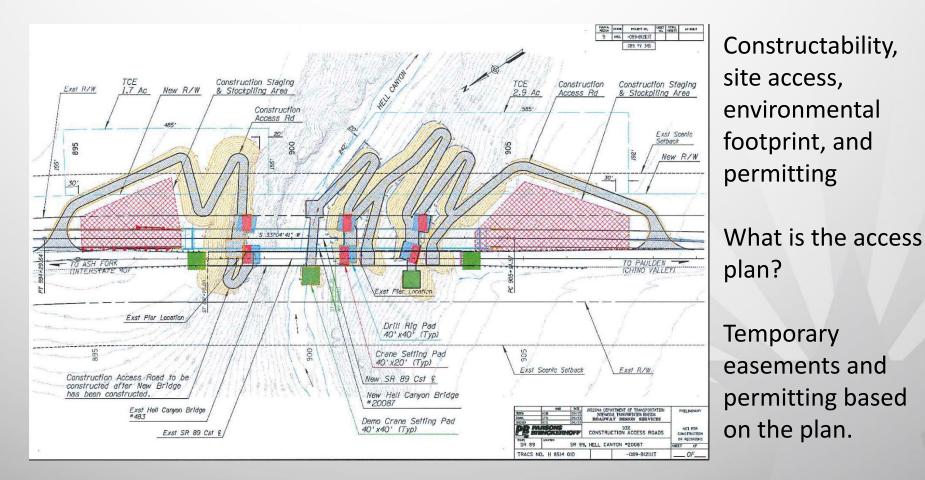


Bridge piers relocated

Impact to wetlands avoided – permitting simplified



CONSTRUCTABILITY AND FOOTPRINT





AVOIDANCE AREAS



Environmental Commitments Identified during project development and implemented in construction Avoidance areas may need to be delineated May need a monitor

during construction



HAZARDOUS MATERIALS MITIGATION



Mitigation during construction – lead paint containment



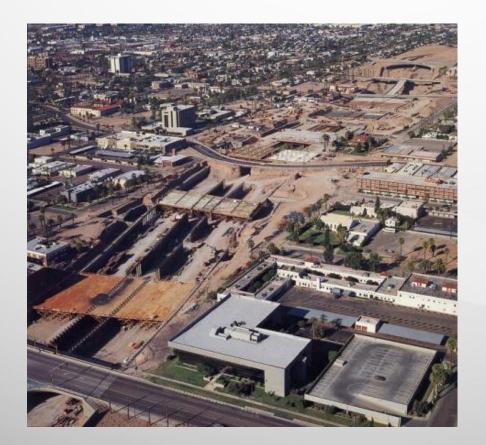
ARCHAEOLOGICAL INVESTIGATIONS



Known data recovery (archaeology) needs to be integrated with construction phasing Data recovery prior to construction Field work prior to construction but analysis and reporting take longer to complete



ENVIRONMENTAL COMMITMENTS



"Avoid, Minimize and Mitigate" can be on a large scale

I-10 Deck Park Tunnel :

- Placed in tunnel
- Avoided historic structures
- Park built on top
- Sound Walls
- Landscaping/aesthetics



CHANGES DURING CONSTRUCTION



Changes in construction may require Re-Evaluation

Temporary Access Road (green road) for rock cutting not included in the original clearance

Additional environmental work needs to be cleared by ADOT



Questions?