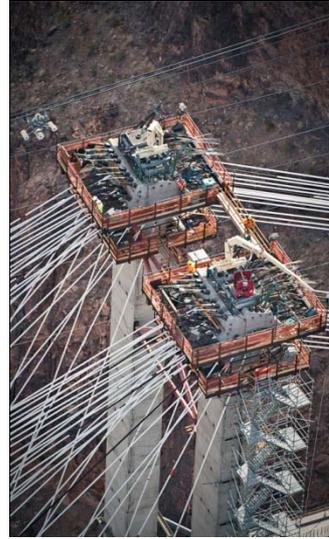


Hoover Dam Bypass and The Colorado River Bridge

SASHTO | Louisville, KY
August 23, 2011



Is the “dam thing”
done yet?



The Mike O'Callaghan- Pat Tillman Memorial Bridge

Dedicated October 14, 2010



Hoover Dam Bypass Project

- Project Overview
- River Bridge Construction

Project Overview

A True “Multi-Project”

Hoover Dam Bypass Project Dam

Lead Agency:

- Federal Highway Administration Central Federal Lands Highway Division

Stakeholders:

- AZ & NV DOT's
- NPS/LMNRA
- BOR
- WAPA

Environmental Consultant:

- CH2MHill

Design Consultant:

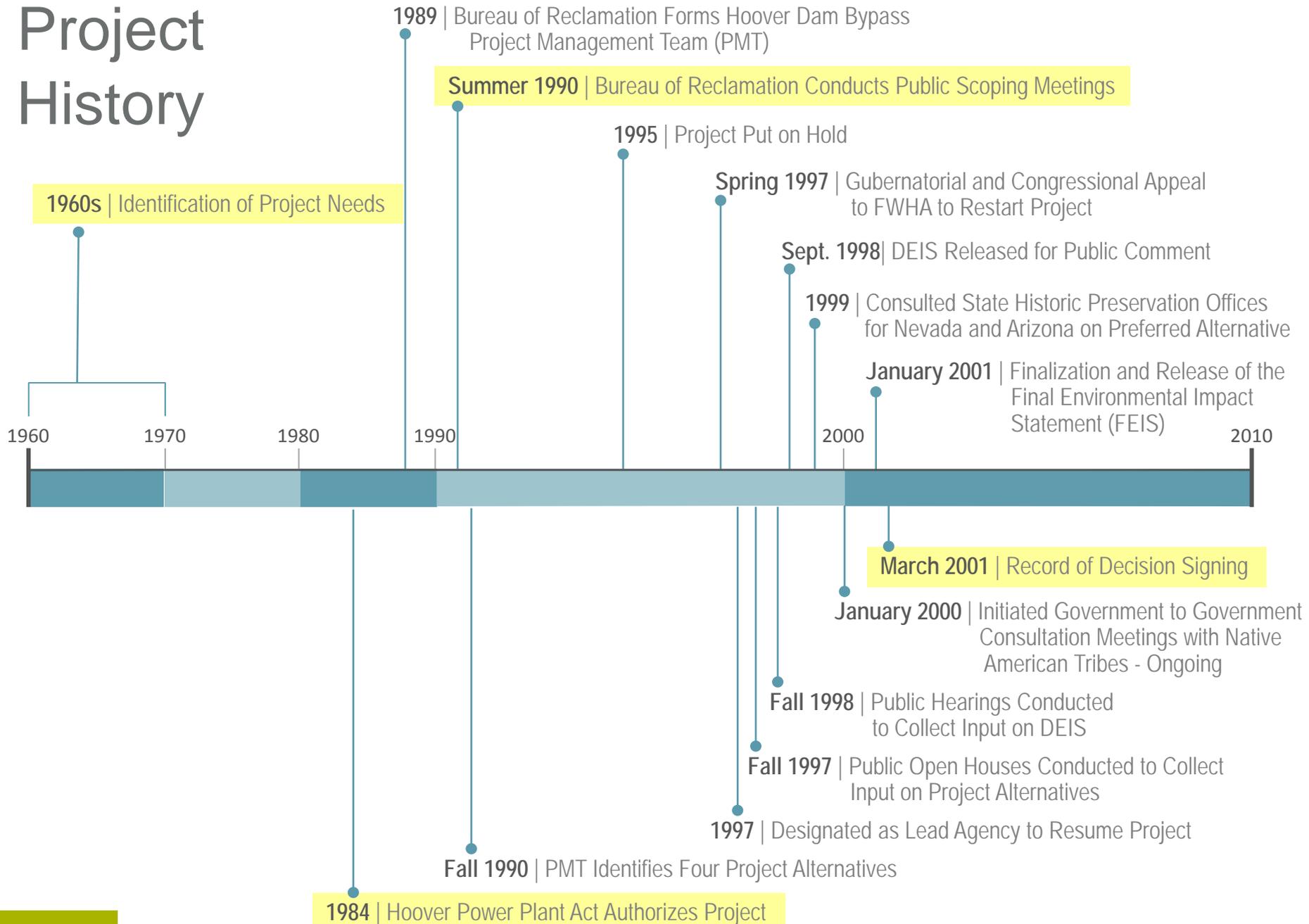
- HDR Engineering
- Sverdrup Civil (Jacobs)
- T.Y. Lin International

Geotechnical

Subconsultant:

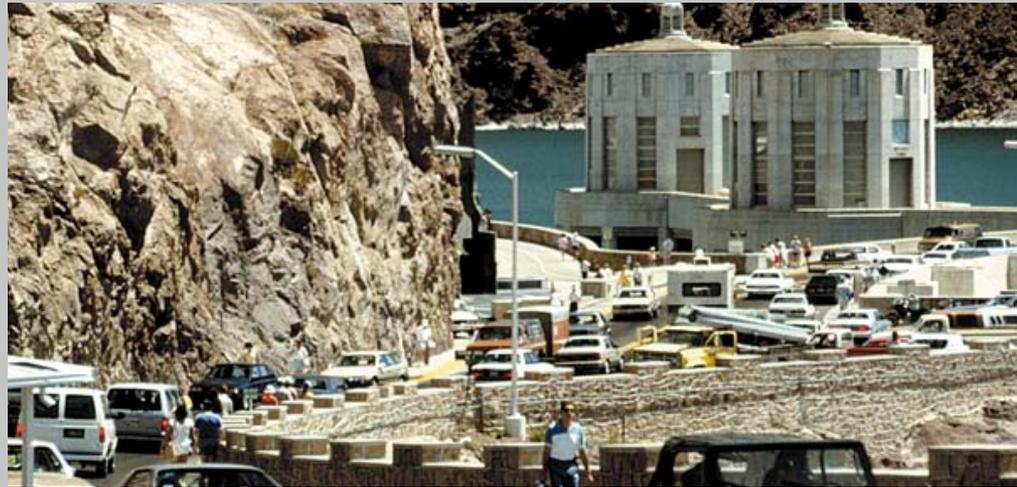
- AMEC Earth & Environmental

Project History



Why is the bypass needed?

- Remove trucks and through-traffic from dam
- Remove U.S. 93 bottleneck
- Reduce traffic accidents
- Protect Hoover Dam facilities, workers, and visitors
- Protect waters of the Colorado River
- Enhance visitor experience
- Reduce interference with dam operations



Refined Concept



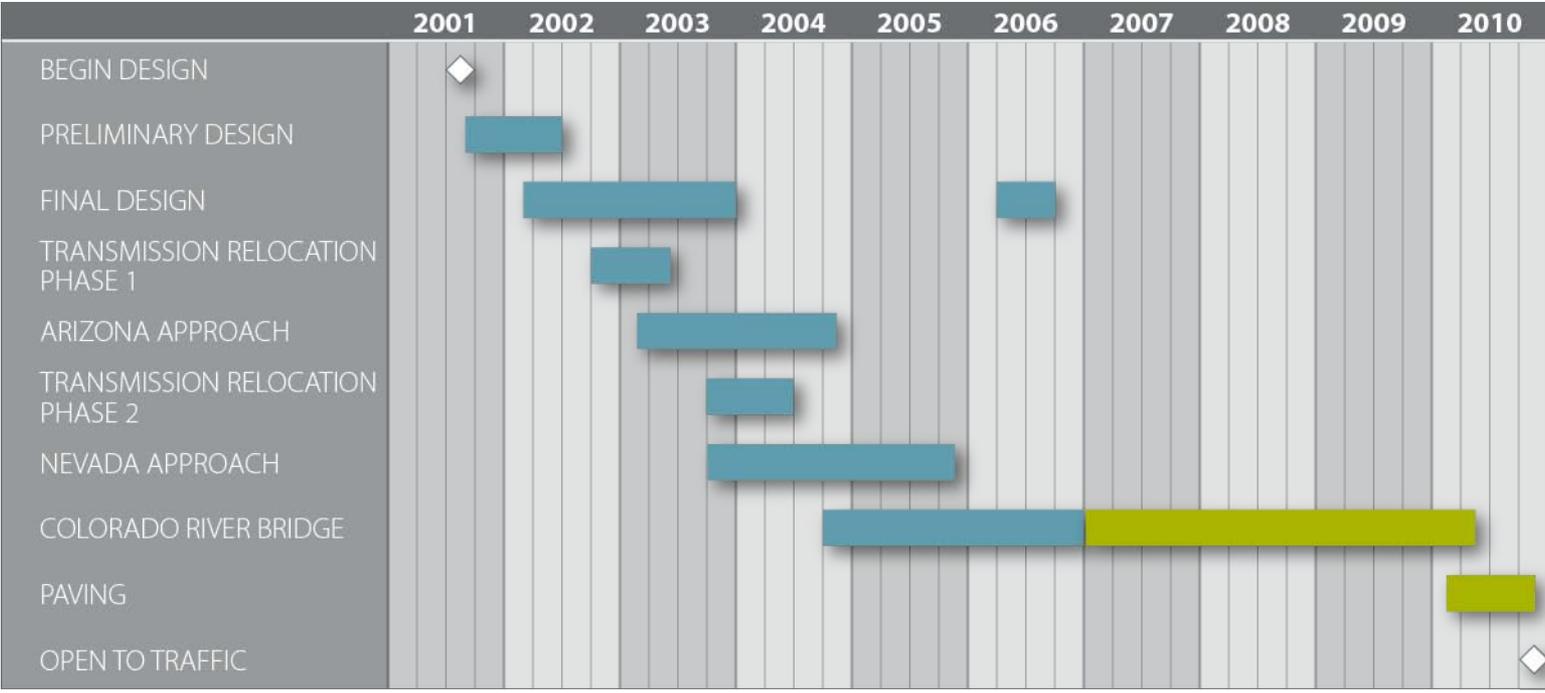
Refined Concept – NV Approach



Project Drive Through

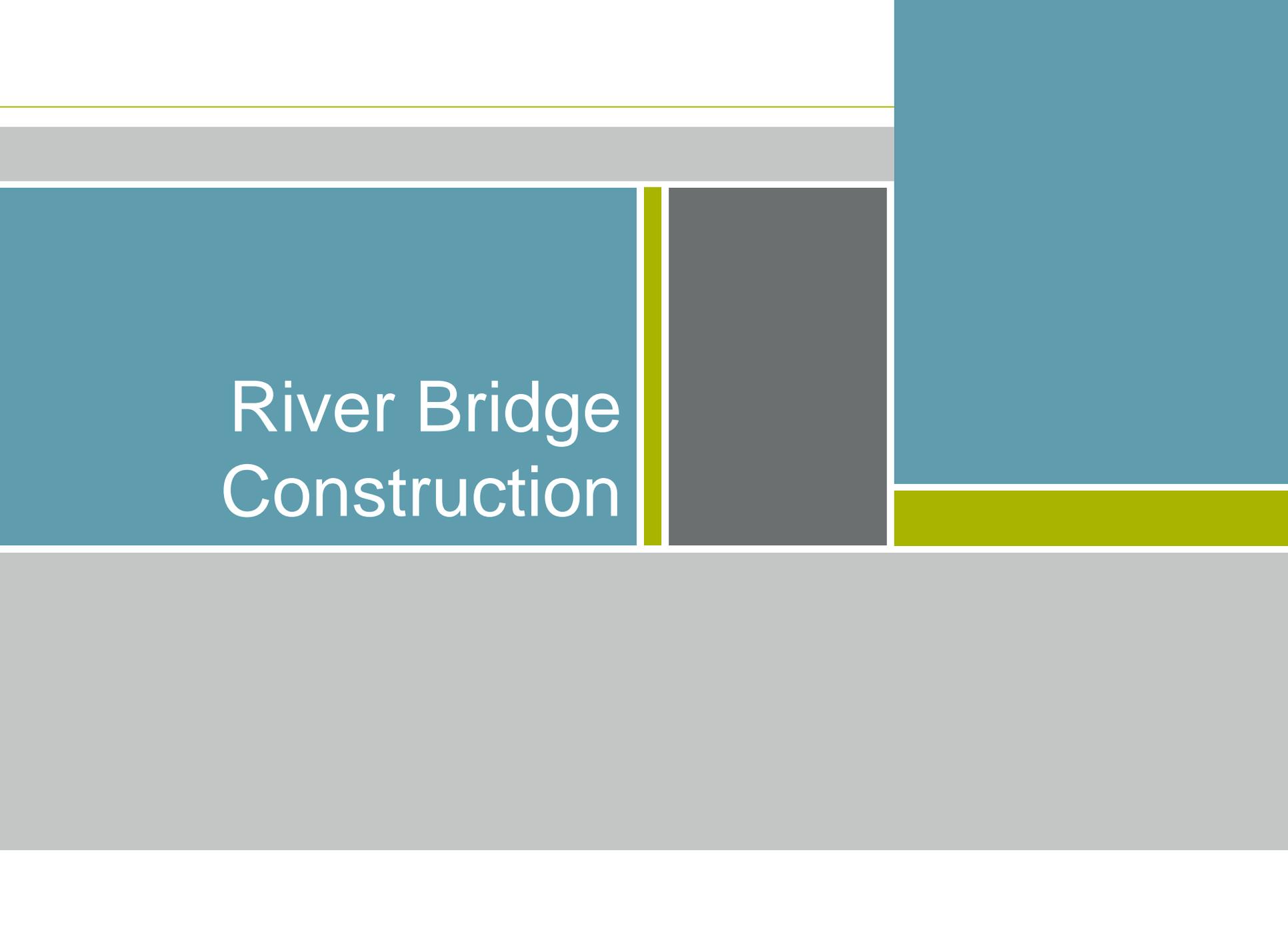


Project Schedule



Four Construction Contracts

Contract	Contractor	Value
AZ Approach	Monks/VASTCO	\$22M
NV Approach	Edward Kraemer & Sons	\$30M
River Bridge	Obayashi/ Mitsubishi	\$114M
Paving	Frehner & Las Vegas Paving	\$15M
Total		\$181M

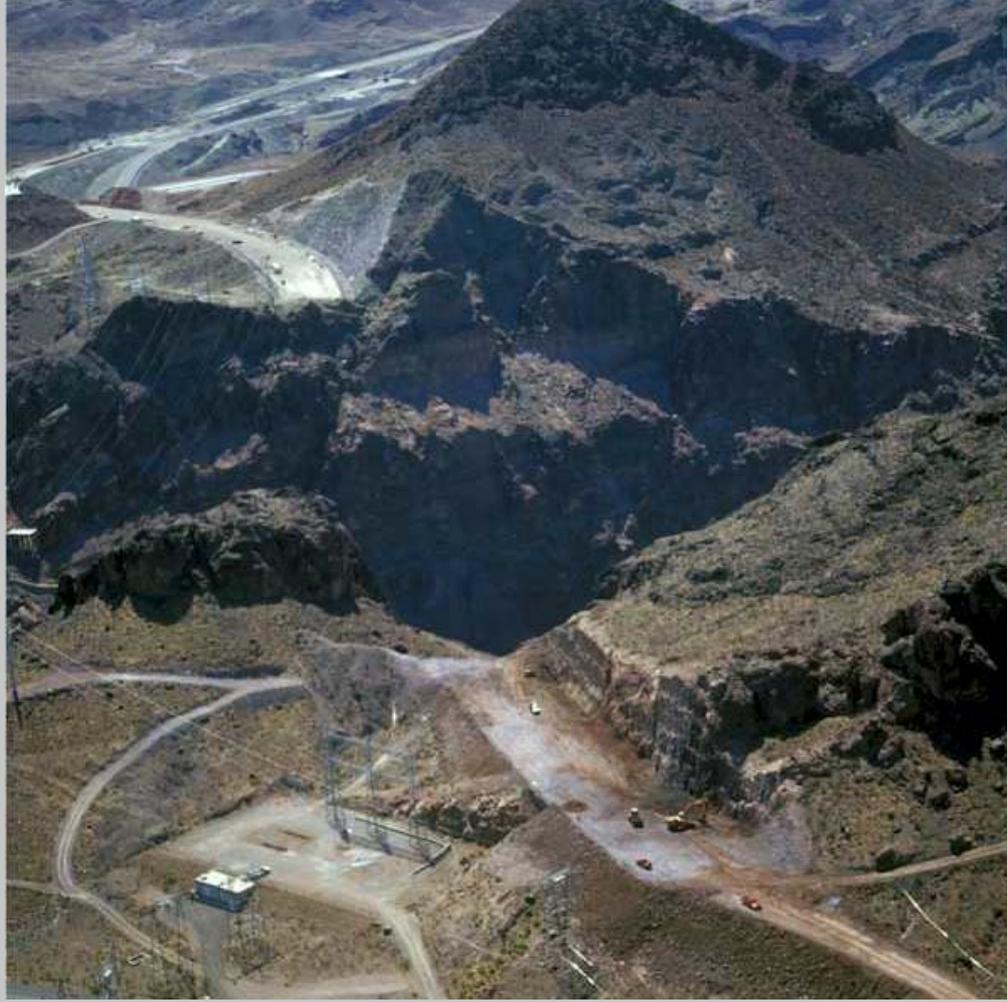


River Bridge Construction

Composite Arch
Alternative



January 2005



Construction Animation





Foundations



Foundations



Foundations

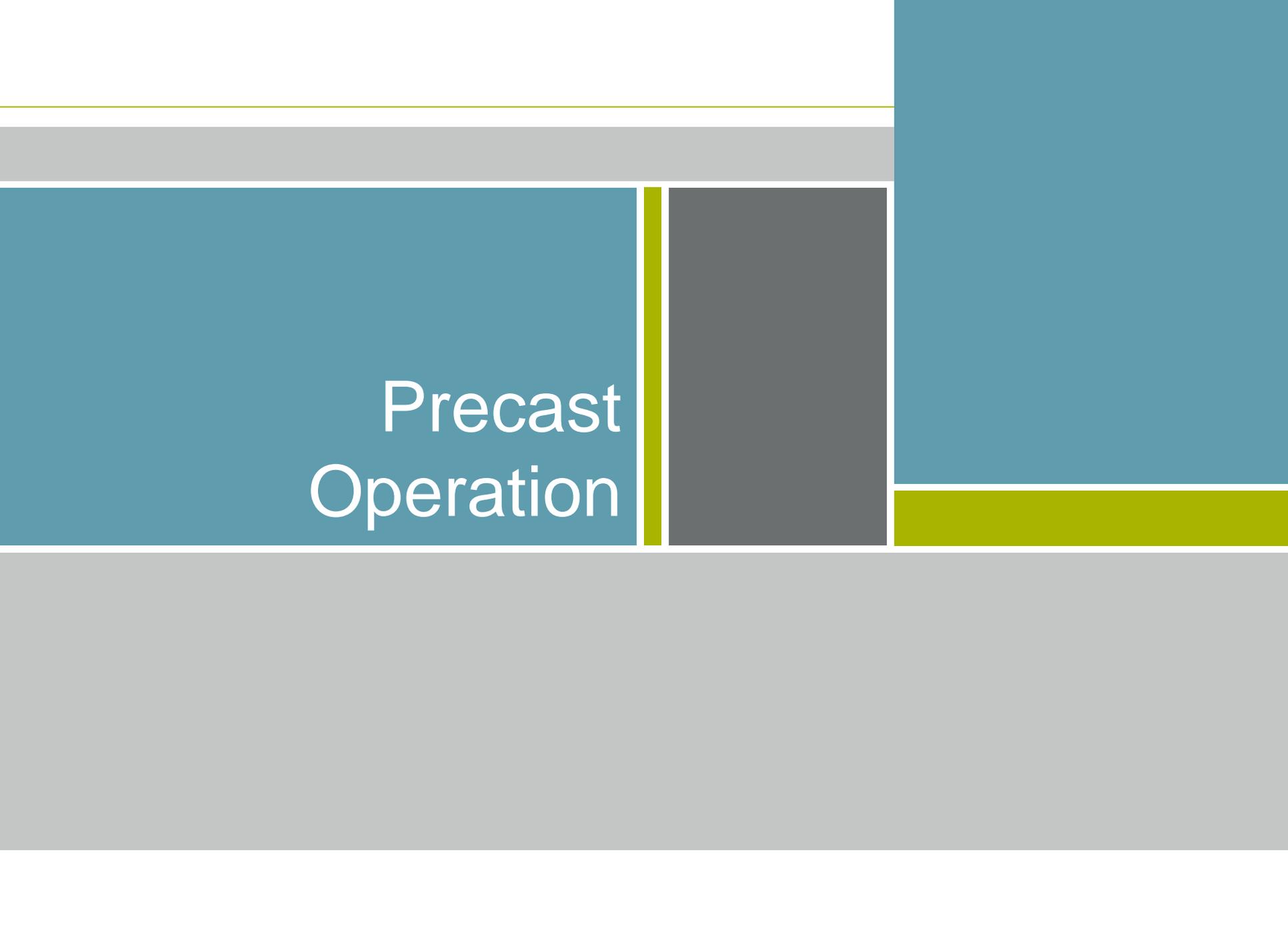


Foundations



Foundations





Precast
Operation

Precast Operation



Precast Operation



Precast Operation



Precast Operation



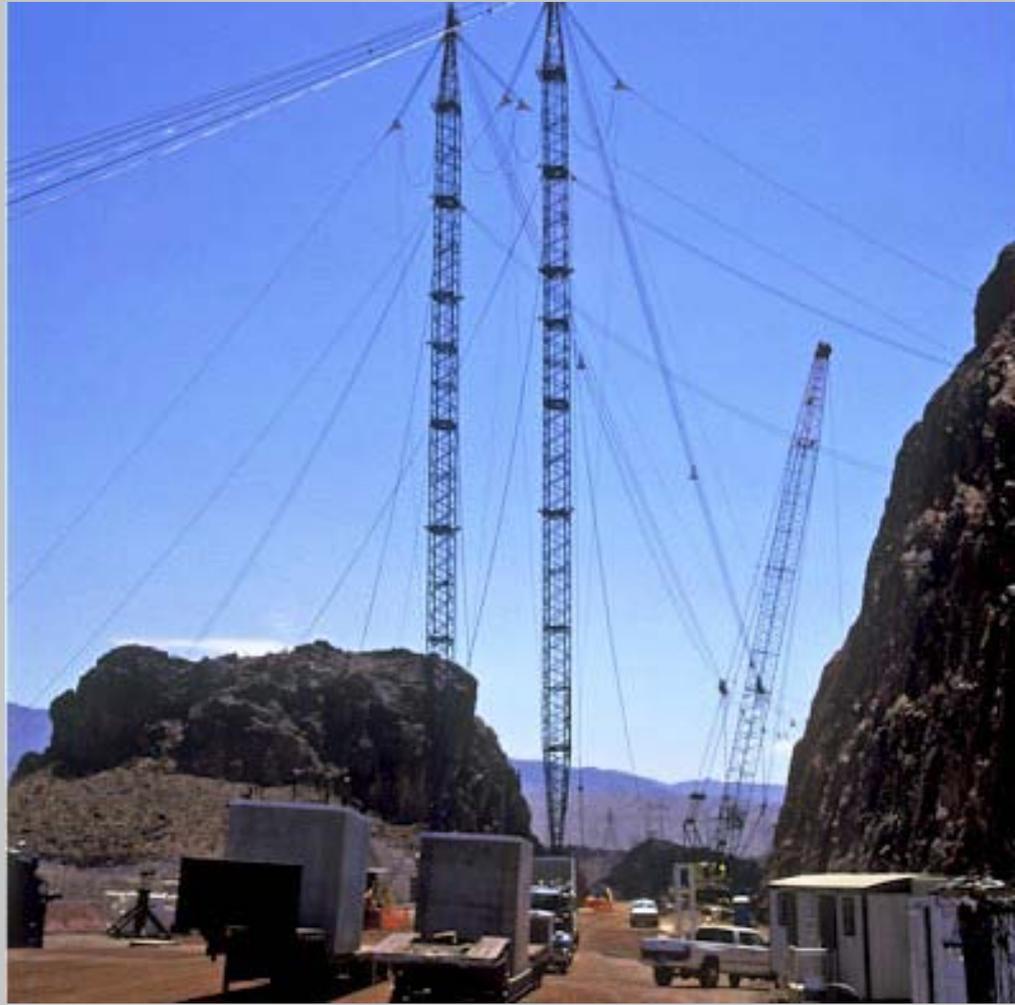
Precast Operation

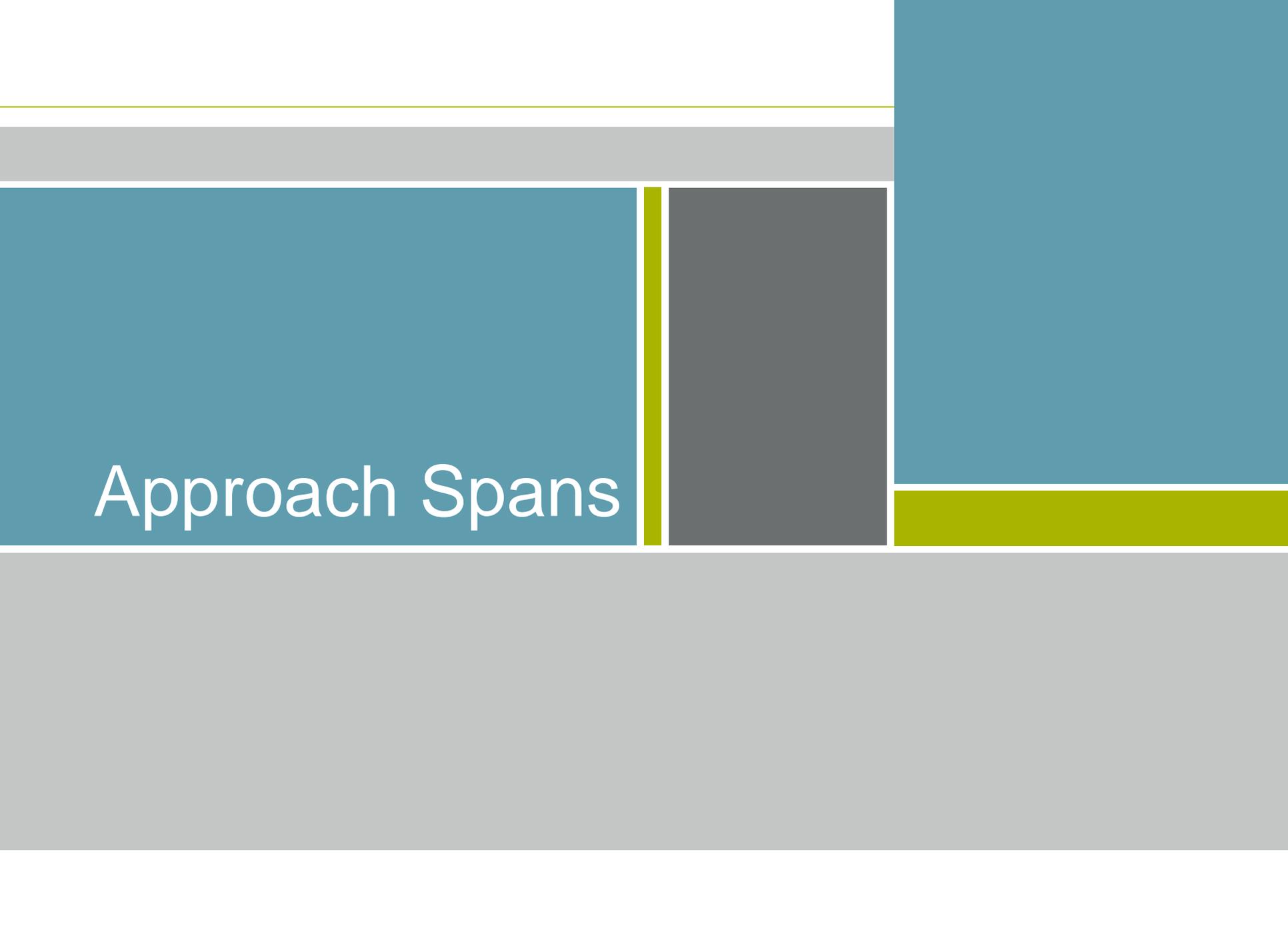


Precast Operation



Precast Operation





Approach Spans



Approach Spans





Approach Spans



Approach Spans

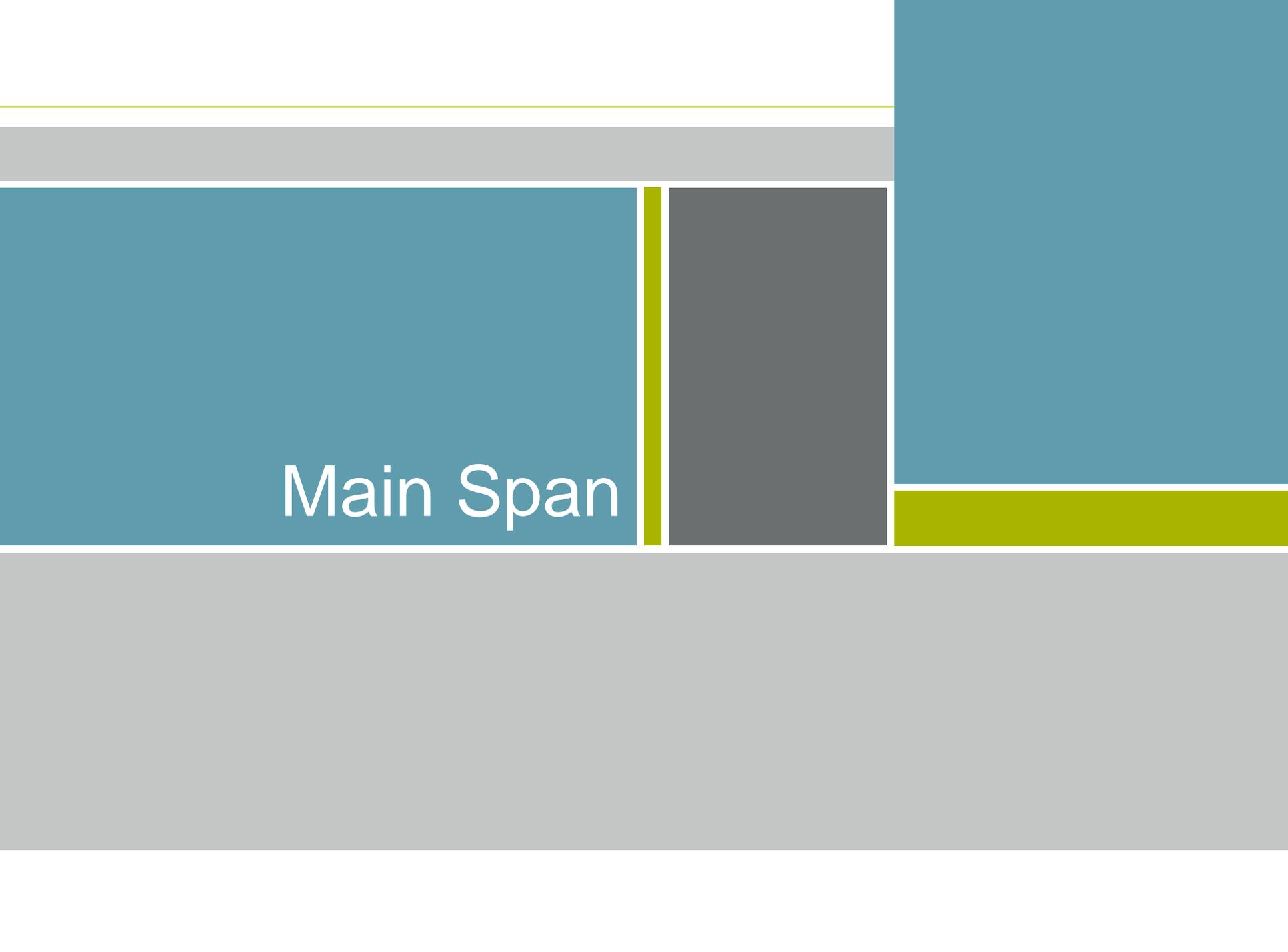


Approach Spans

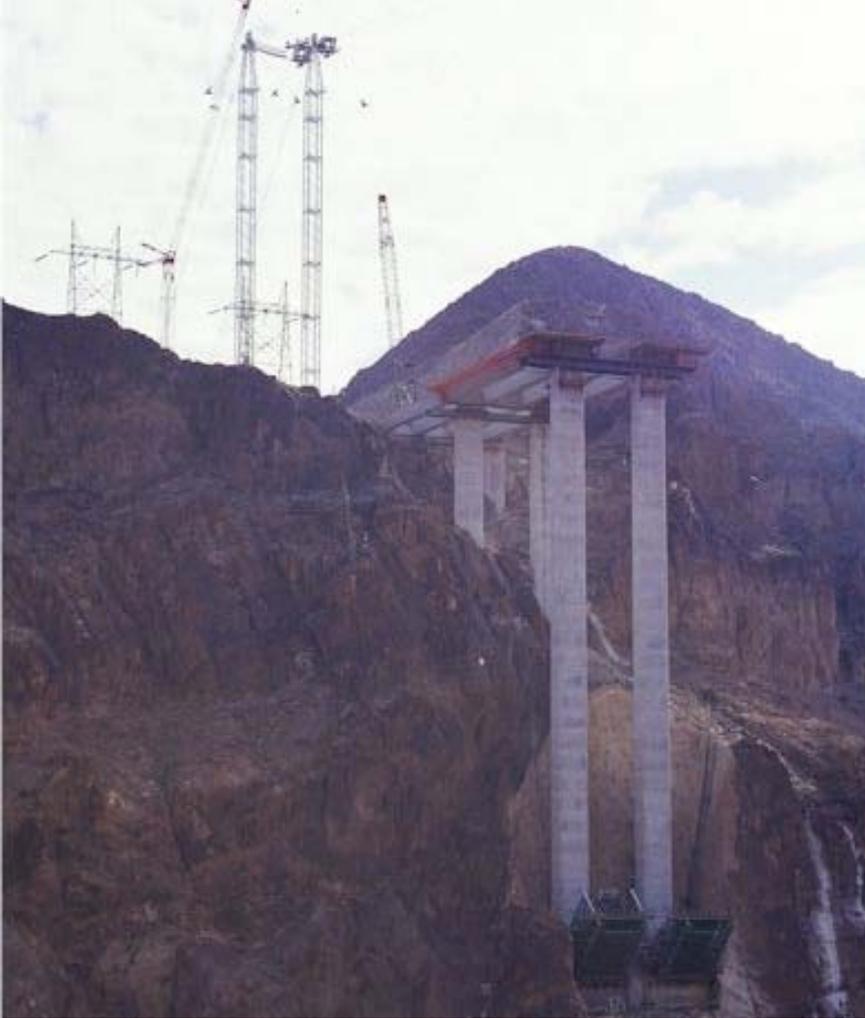


Approach Spans



The image features a minimalist, abstract design. It consists of several rectangular blocks of color: a large teal block on the left containing the text 'Main Span', a dark grey block to its right, and a yellow-green block below the grey one. The background is a light grey, with a white border at the top and bottom. A thin yellow-green line runs horizontally across the top, and a thicker yellow-green line runs horizontally across the middle, separating the teal and grey blocks.

Main Span



Main Span



Main Span



Main Span



Main Span

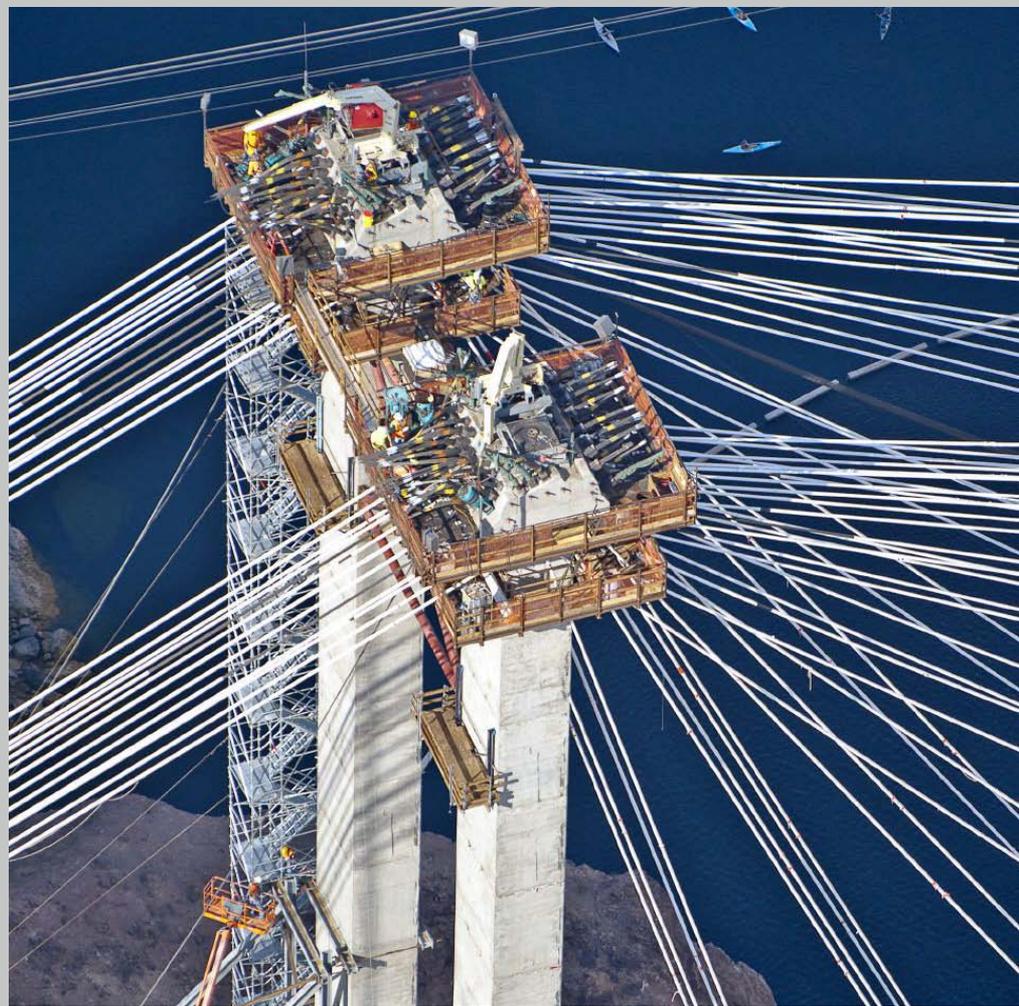


Main Span





Main Span





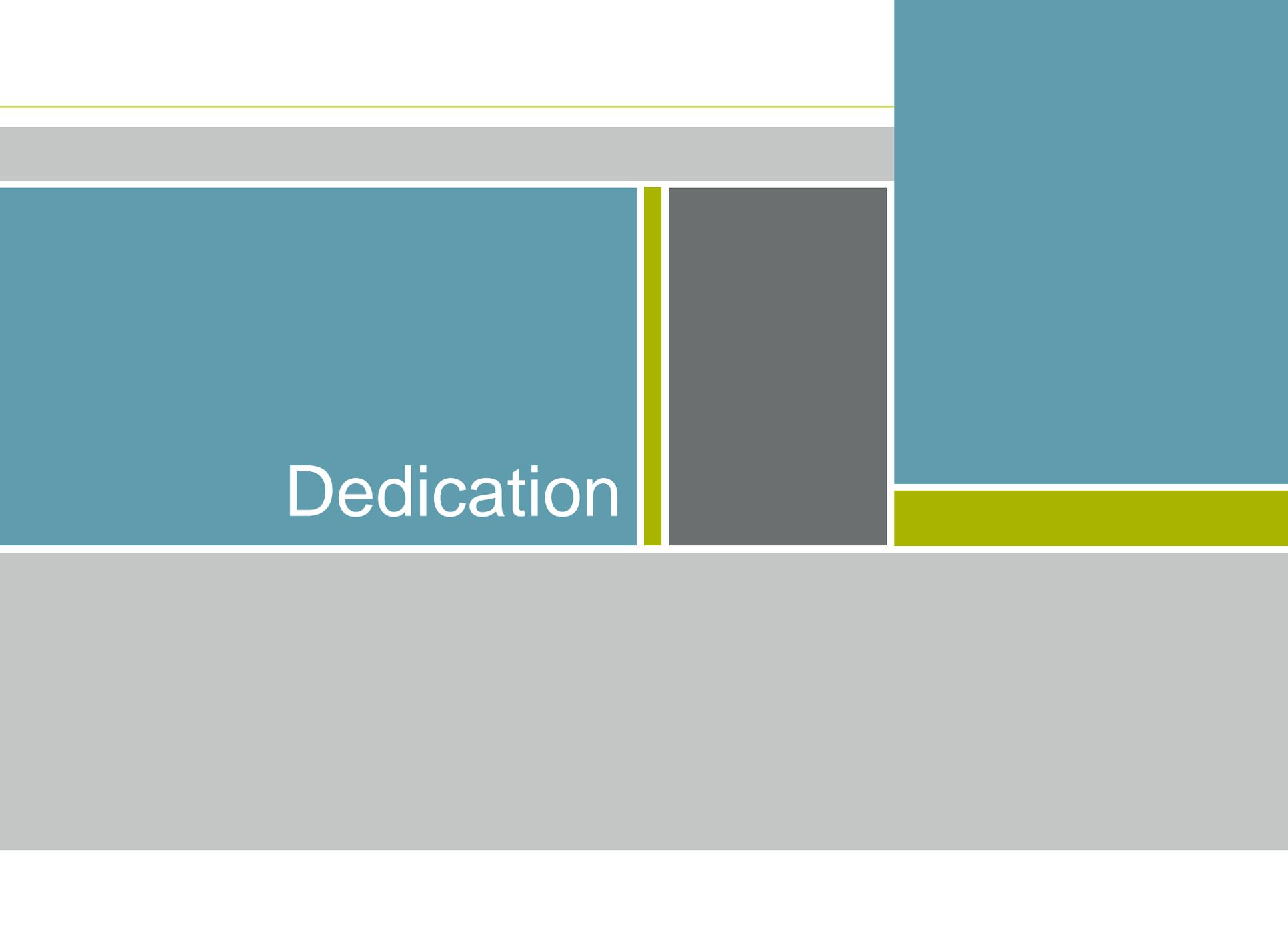
Main Span

Main Span



Main Span





Dedication



The Mike O'Callaghan- Pat Tillman
Memorial Bridge

Dedicated October 14, 2010



A Visitor's Spectacle

View from
Dam



A Visitor's Spectacle

View from
Bridge



SASHTO | Louisville, KY
August 23, 2011

The Mike O'Callaghan-
Pat Tillman Memorial
Bridge

Questions?

