









Discussion: Nighttime Construction

May 1, 2024













Discussion Outline

- 1. Allowed Construction Hours
- 2. Private Development Night Work & Construction Considerations
- 3. Public Works Night Work
- 4. CIP Night Work











QC: Construction Hours

- 1. 6:00 am 7:00 pm (Mon.-Fri.)
- 2. 5:00 am 7:00 pm (Mon.-Fri.) summer months
- 3. Saturdays (7:00 am 5:00 pm) throughout the year
- 4. Sundays & Holidays = No Construction allowed















Nighttime Construction

- "NHCP" Nighttime & Holiday Construction Permit
- Established in 2022
- For unique Construction Projects (Private and Public)















Nighttime Construction

- + Construction projects completed faster
- + Some unique jobs (concrete) need to be completed at night
- + Easier to get large trucks/vehicles to the site
- Potential Noise impacts
- Potential Light impacts
- Disrupting sleep of Town residents













Nighttime Construction Permit Application

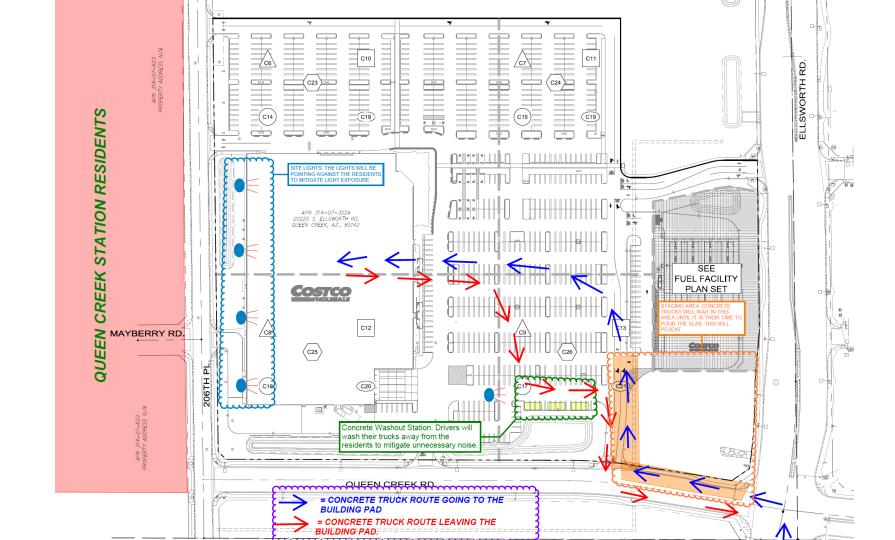
- 1. A complete schedule showing the specific dates with start and end times nighttime/holiday work is proposed to be performed;
- 2. A detailed description of the work to be performed on each date (delineating times when specific activities will be performed);
- 3. The type, size and amount of equipment, including vehicles (*i.e.*, concrete and delivery vehicles), to be sued on each specific date;
- 4. A detailed sound and light mitigation plan, if required; and
- A detailed plan for providing notice to the surrounding neighborhood including who will receive notice, and the methods, substance and times when notice will be provided, and a 24-hour contact for complaints.

Costco 2022: Nighttime Construction

- 1. April 1 264 Cubic Yards = 26 Concrete Trucks
- 2. April 4 334 Cubic Yards = 33 Concrete Trucks
- 3. April 5 269 Cubic Yards = 27 Concrete Trucks
- 4. April 7 301 Cubic Yards = 30 Concrete Trucks
- 5. April 11 381 Cubic Yards = 38 Concrete Trucks
- 6. April 12 329 Cubic Yards = 30 Concrete Trucks
- 7. April 14 187 Cubic Yards = 18 Concrete Trucks
- 8. April 18 312 Cubic Yards = 31 Concrete Trucks

TOTAL = 233 Concrete Trucks

















Public Works Night Work



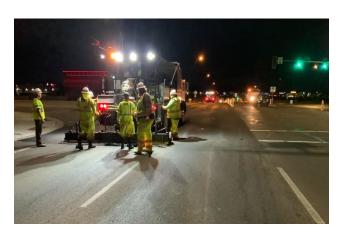








Pavement Preservation Projects

















Pavement Preservation Definition

Federal Highway Administration (FHWA) guidance describes preservation as work that is planned and performed to improve or sustain the condition of the transportation facility in a state of good repair. A common *mantra* of pavement preservation is *keeping good roads good*. Constructing quality pavement preservation treatments when the pavement condition is still satisfactory can impede deterioration, extend service life, and improve functionality in a cost-effective manner while also enhancing safety and contributing to customer satisfaction.



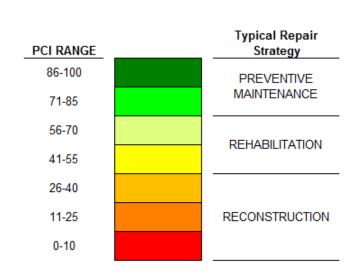


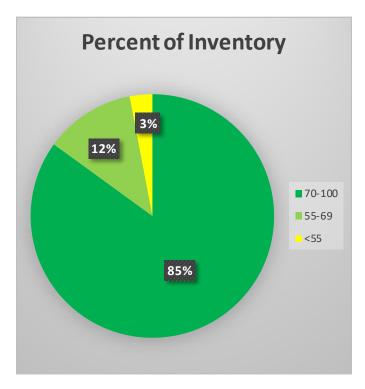






Pavement Condition









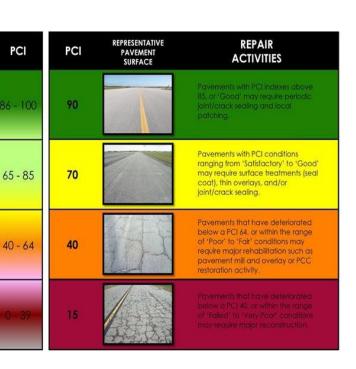






Types of Pavement Preservation Strategies

Type of Maintenance	Repair Activities	Ave Cost	ROU
Preventive Maintenance	Rejuvenator, Seal Coat, Crack Seal, Chip Seal	\$0.35 sq/ft	MENT
Repairs	Patching, Mill & Fill, Overlay	\$3.77 sq/ft	PAVE
Reconstruction	Remove pavement structure and rebuild	\$15.78 sq/ft	MAJOR













What Will \$1,000,000 Buy?

1 lane-mile of reconstruction

5.7 lane-miles of asphalt repairs

63 lane-miles of preventive maintenance













CIP Nighttime Construction











Why has CIP used night work?

- When the impact to the traveling public would be substantial.
- To complete large concrete pours to allow for curing prior to temperatures getting to hot.











Night work for CIP Projects Pro/Con

- Pros
 - Able to complete work with less traffic impact.
- Cons
 - More expensive (shift differential, lighting)
 - Loss of staff time
 - Loss of production
 - May create unsafe work zone due to light and dark areas.
 (equipment movement, trench work)
 - More disturbing to residents in their homes.
 - Material deliveries may not be available.

Examples

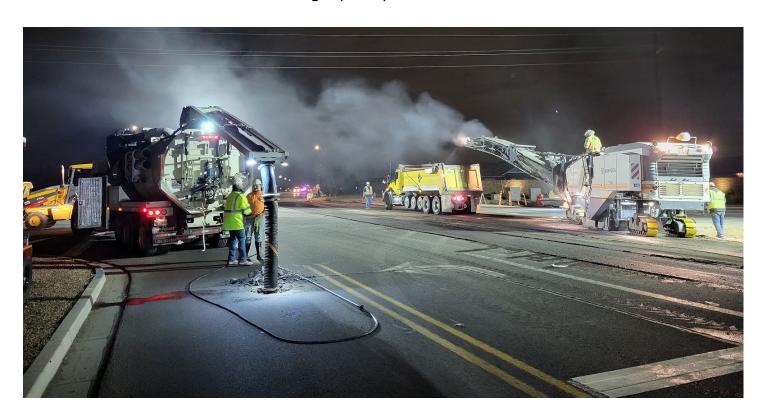
ASLD Infrastructure:

 Placing traffic control barriers at the intersection of Ironwood Road and Germann Road. This restricted Ironwood to 1 lane in each direction and closed Germann Road for several hours.



Examples

- Meridian Road and Queen Creek Road Intersection:
 - Intersection closure to remove existing asphalt prior to the restart of construction at the intersection.













Discussion - Questions?