

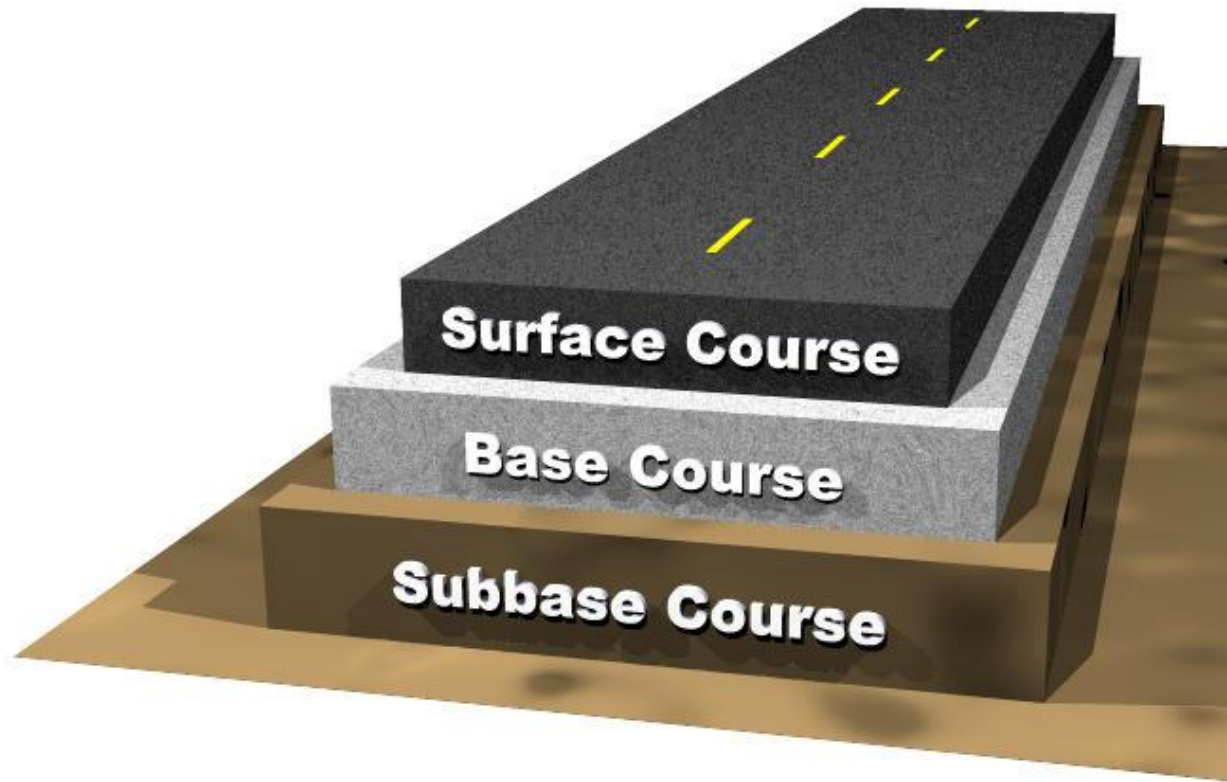


MILLER AVENUE

Main Street Pavement Rehabilitation Process

ROADWAY REALIGNMENT

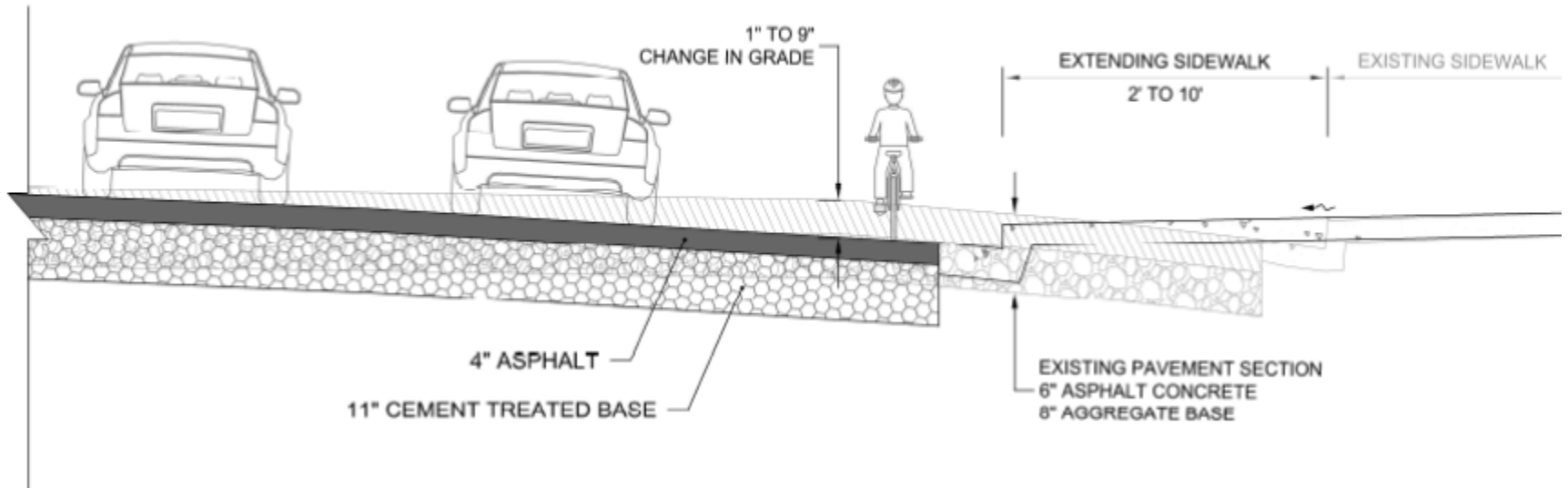
- Reduce Cross Slope to Meet Design Standards
- Provide Smooth Ride for Vehicles and Bicyclists
- Provide a 20+ Year Design Life (with Regular Preventative Maintenance)





PAVEMENT CONSTRAINT

- Miller Avenue's Pavement Cross Slope is Steep
- Insufficient Pavement Structural Section
- Large Areas of Distress with Pavement



MAIN STREET PAVEMENT CONSTRAINT



Insufficient Structural Section



Large Areas of Distress
Interim Repairs in 2014 illustrated problem

STANDARD PROCESS - RECONSTRUCT

- Need to excavate nearly 20 inches





PROPOSED PROCESS – FULL DEPTH RECLAMATION (FDR)

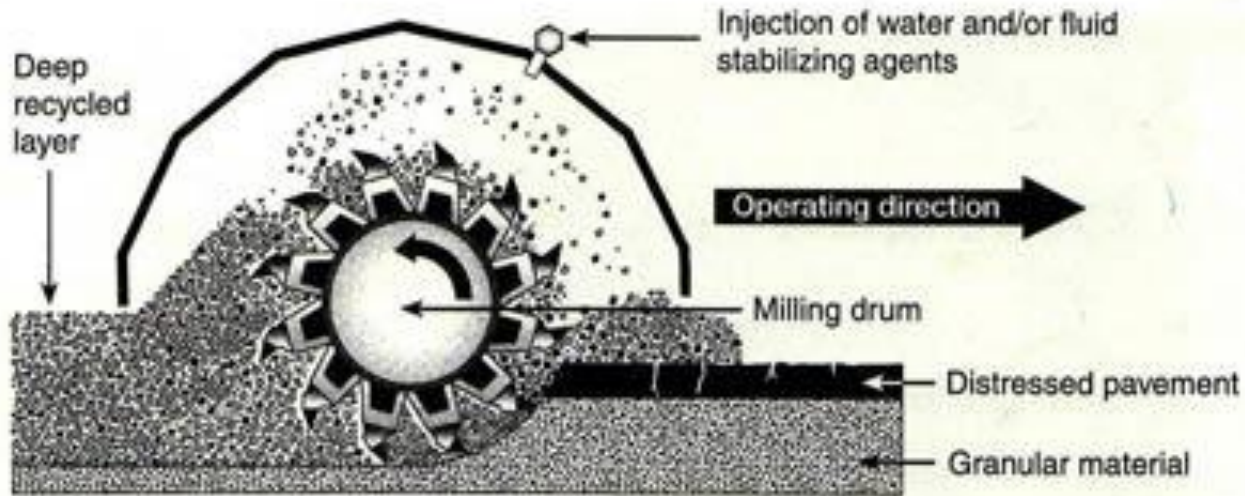
- 4 inches of asphalt over 12 inches of reclaimed material

Advantages

Recycles Material in Place

Reduces trucking - lowers cost

Reduces potential for soft subgrade conflicts



FDR STEP 1 - PULVERIZE ASPHALT IN PLACE



FDR STEP 2 – EXCAVATION AND ROUGH GRADING



FDR STEP 3A - PLACE CEMENT

NO ACCESS UNTIL
WORK COMPLETE



FDR STEP 3B – ADD WATER AND MIX MATERIALS

NO ACCESS UNTIL
WORK COMPLETE



FDR STEP 3C – FINE GRADE AND COMPACT

NO ACCESS UNTIL
WORK COMPLETE



FDR STEP 4 – CURING OF RECLAIMED MATERIAL

OKAY TO DRIVE
ON MATERIAL
EXCEPT FOR
LARGE TRUCKS



FDR STEP 4 – APPLY HOT MIX ASPHALT





BEFORE/AFTER FDR PRODUCT PRIOR TO FINAL STRIPING



NIGHT WORK

Commences in June -7 PM to 9 AM - Sunday night to Friday morning

Mill Valley



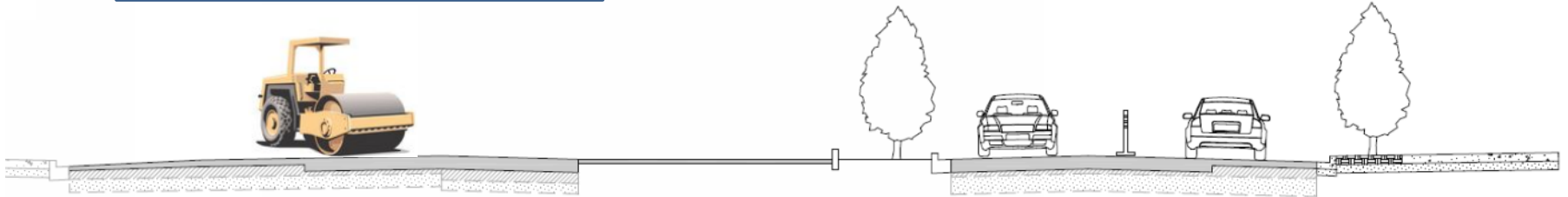
Miller Avenue
treescape

Factor	Findings	Advantage
Time to Complete	Daytime = 5-7 weeks Nighttime = 3-4 weeks	Nighttime
Traffic Disruption	Approximately 70% of the average daily traffic on Miller Avenue travels during the daytime disrupting about 7,000 vehicles at night versus 16,500 vehicles during the day	Nighttime
Vehicle Access	4 hour minimum roadway closure during curing process	Nighttime
Adjacent Driveway Access	Driveway closures required during FDR and curing process.	Nighttime
Pedestrian Access	Limited pedestrian crossing during construction hours.	Nighttime
Bicycle Access	Alternative bicycle route during construction hours.	Nighttime
Parking	No parking allowed in construction zone.	Nighttime
Noise Control		Daytime
Dust Control	Less vehicles, cyclists, and pedestrians to be impacted at night	Nighttime
Underground Utilities	Potential shut off should there be conflict during construction.	Nighttime
Public Safety/Access	Less vehicles, cyclists, and pedestrians to be impacted at night	Nighttime
Disruption to Businesses/Customers	Businesses are closed during the majority, if not all of the nighttime work hours	Nighttime
Disruption to Residents	Nighttime work is advantageous to the residents for the above noted factors, daytime is advantageous to the residents due to noise impacts	Varies

INBOUND FULL DEPTH RECLAMATION

INBOUND
WORK ZONE
NO TRAFFIC ACCESS
7 PM TO 9 AM

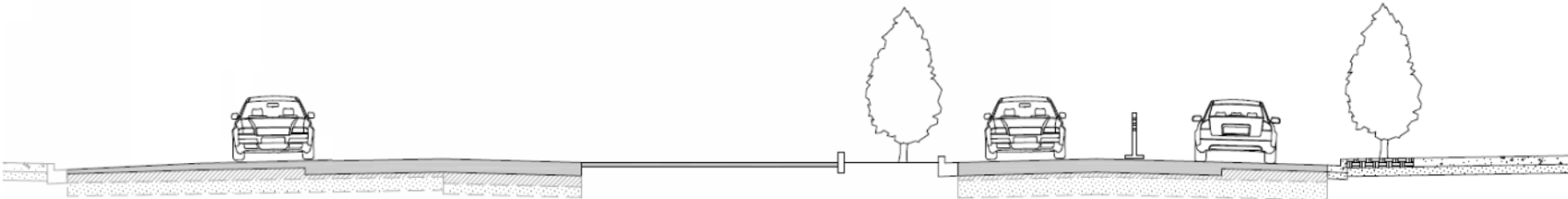
OUTBOUND
TWO WAY TRAFFIC
CONTINUOUS



DURING WORKING HOURS

INBOUND
LIMITED VEHICLE ACCESS
9 AM TO 7 PM

OUTBOUND
TWO WAY TRAFFIC
CONTINUOUS

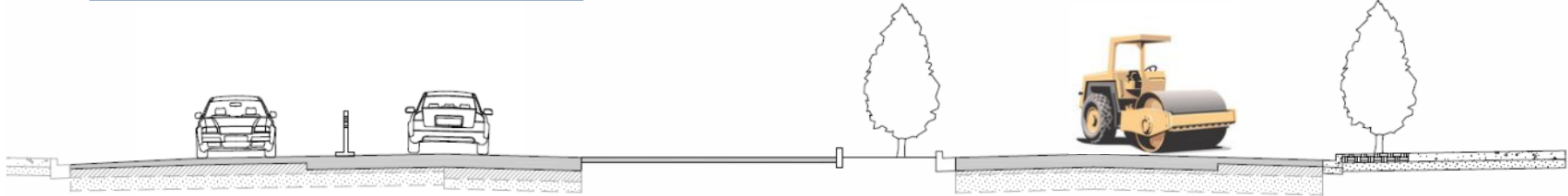


DURING NON WORKING HOURS

OUTBOUND WORK HOURS

INBOUND
TWO WAY TRAFFIC
CONTINUOUS

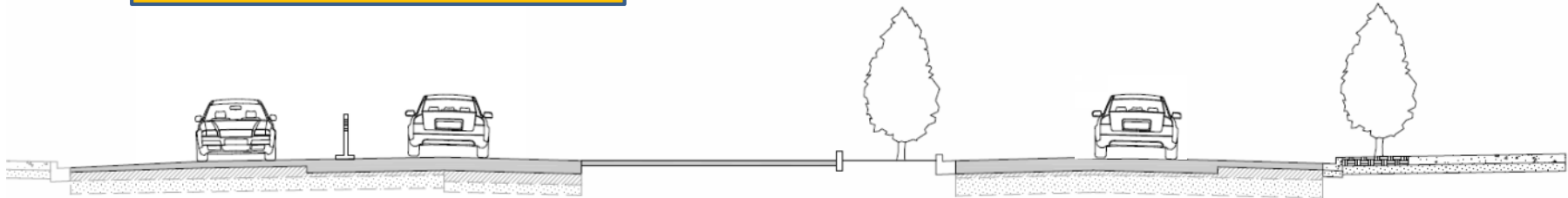
OUTBOUND
WORK ZONE
NO TRAFFIC ACCESS
7 PM TO 9 AM



DURING WORKING HOURS

INBOUND
TWO WAY TRAFFIC
CONTINUOUS

OUTBOUND
LIMITED VEHICLE ACCESS
9 AM TO 7 PM



DURING NON WORKING HOURS



MILLER AVENUE