

# Public Works Update: *Transportation Projects*

City Council Meeting  
September 12, 2017



# Discussion Topics

- Public Works Transportation Project Updates
- Flashing Yellow Turn Signal Installation
- Intelligent Transportation System (ITS)

# PW Project Updates

## Roadway Striping

Service provided by  
King County

- 195 lane miles of travel way
- 1,029,600 linear feet of channelization



# PW Project Updates

## School Zone Flashing Beacons & SE 8th

### Work Performed by City Traffic Staff

- 37 school zone flashing beacons reprogrammed for new start times & calendar items
- Timing changes affected 15 schools within Lake WA and Issaquah School Districts

### Service provided by King County

- Installed first week of September for new school year
- 20 MPH zone when flashing



# PW Project Updates

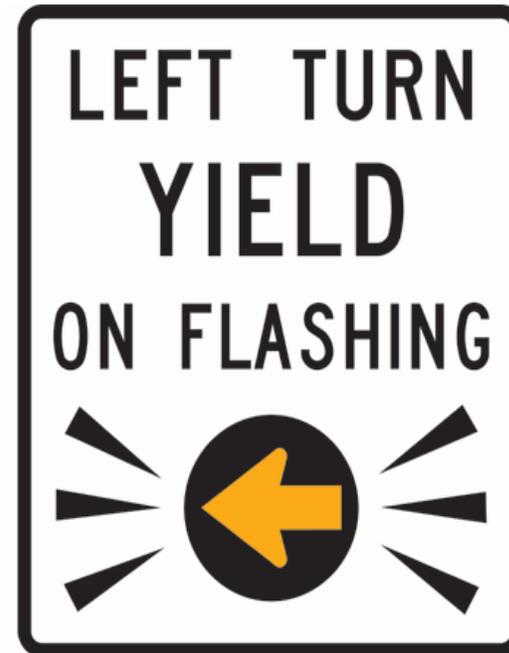
## Flashing Yellow Arrow (FYA) Left-Turn Signals

### Work Performed by City Traffic Staff

- Studied 25 signals to determine if signals qualified for FYA installation
- Design considerations:
  - Opposing lane configuration (1 v 2)
  - Sight distance
  - Shared through and turn lanes
  - Pedestrian component

### 2017 Installations by King County Traffic

- 2017 Installs begin on 9/13 :
1. 228th Ave SE/SE 4th St  
- NB & SB
  2. 228th Ave NE/Inglewood Hill Rd/NE 8th St  
- EB & WB
  3. 228th Ave SE/SE 16th St  
- NB & SB
  4. 228th Ave SE/SE 20th St  
- NB & SB
  5. 228th Ave SE/SE 24th St  
- NB & SB

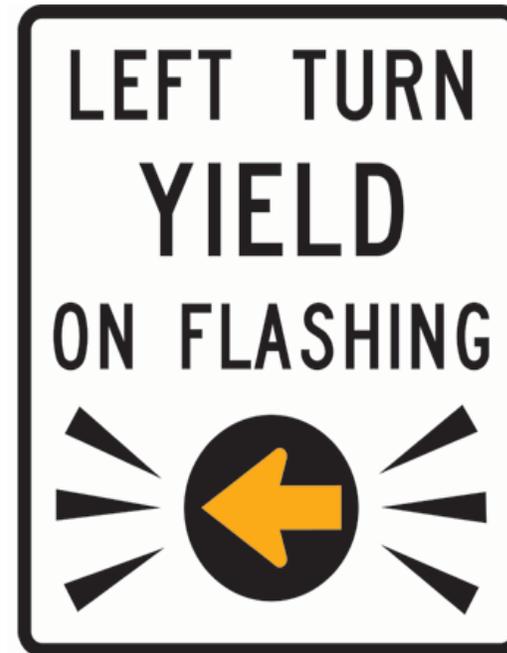


# PW Project Updates

## Flashing Yellow Arrow (FYA) Left-Turn Signals

2018 Installations TBD  
(expect to install 5-10 depending on budget)

- |  |   |
|--|---|
| 1. NE 37th Way & Sahalee Way NE                      | 8. SE Duthie Hill Road & Trossachs Boulevard SE                       |
| 2. NE 25th Way & 228th Ave NE                        | 9. Issaquah-Pine Lake Road SE & 230th Lane SE/Pine Lake Middle School |
| 3. NE 12th Place & 228th Ave NE                      | 10. SE Klahanie Boulevard & Issaquah-Pine Lake Road SE                |
| 4. NE 8th Street & 242nd Ave NE                      | 11. SE 47th Way/238th Way SE & Issaquah-Pine Lake Road SE             |
| 5. Louis Thompson Road NE & E Lake Sammamish PKWY NE | 12. SE 48th St & Issaquah-Pine Lake Road SE                           |
| 6. E Main Street & 228th Ave SE                      |   |
| 7. SE 10th Street/Spartan Way & 228th Ave SE         |   |



# PW Project Updates

## Citywide Guardrail

### Contractor Installed

- 850 linear feet of new guardrail
- Completed in August



# PW Project Updates

## Citywide Pavement Program

### Contractor Installed

- ≈20,000 tons of asphalt to be placed
- 70% complete to date
- Inglewood Hill final lift and 211<sup>th</sup> included
- Expected to finish all sites in October



# PW Project Updates

## Citywide ADA Sidewalk Upgrade

### Contractor Installed

- Associated with pavement overlay program (federal requirement)
- Bid separate in 2017 from overlay for QA/QC and timing
- 85% complete to date
- Expected to finish all sites in October



# PW Project Updates

## 212<sup>th</sup> Non-Motorized Improvements

### Contractor Installed

- ≈600 linear feet of sidewalk installation
- Utility pole relocation
- Improves sight distance at 212<sup>th</sup> / SE 24<sup>th</sup> Intersection
- 90% complete to date
- Expected to finish within the next 30 days



# PW Project Updates

## 212<sup>th</sup> Way SE / Snake Hill

### Contractor Installed

- ≈4,000 linear feet of full roadway reconstruction
- Expected to finish in mid-November...
- Issues:
  - Coordinating water main shut down
  - Concrete supplier strike
  - Substantial groundwater management





# PW Project Updates

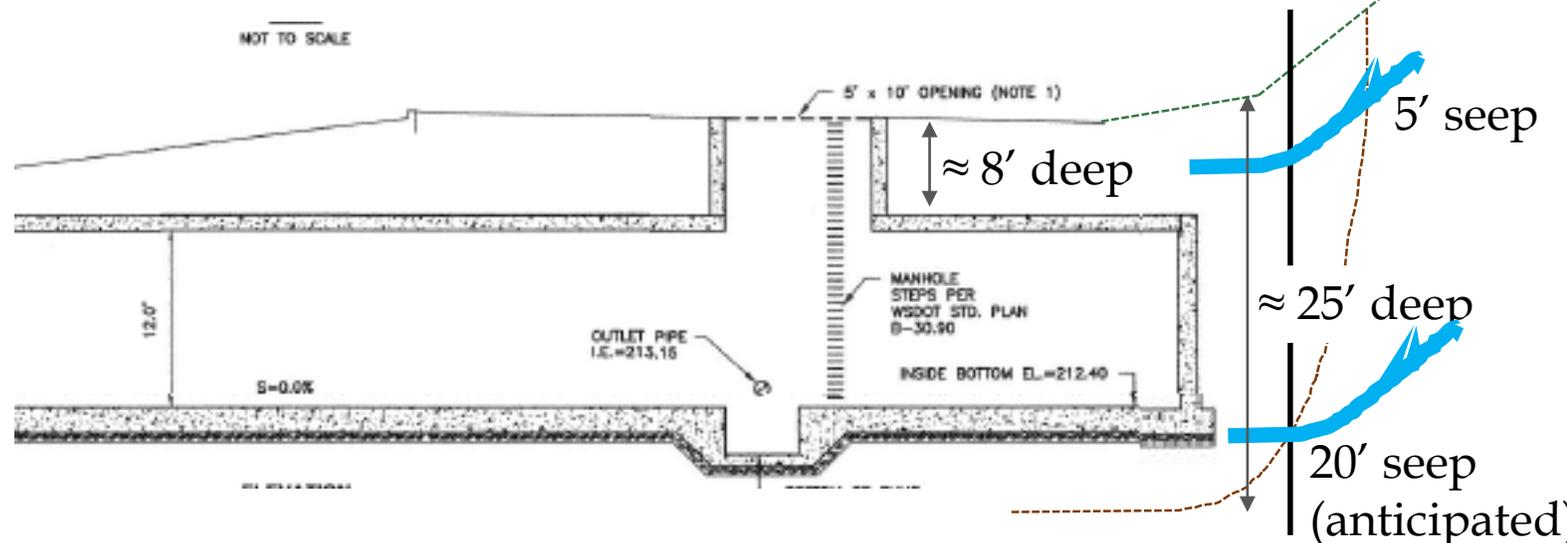
## 212<sup>th</sup> Way SE / Snake Hill

### Vault Construction

- Constructability issue:
  - Top of vault is  $\approx 8'$  below the existing GS
  - Bottom of vault needs to be excavated  $\approx 25'$
  - Groundwater intrusion is at  $5'$  below existing GS
  - Retaining wall proposed not originally included

GS = Ground surface

- Existing surface
- - - Excavation
- Potential wall
- Groundwater Seep area



# PW Project Updates

## Beaver Lake Drive / Way NTMP

### Contractor Installed

- ≈4,500 linear feet of roadway traffic calming and channelization work
- Adding:
  - 1 - four way stop
  - 2 - traffic circles
  - Curbing
  - Crosswalk striping
  - Curb extensions / raingardens
- Expected to finish within the next 30 days



# PW Project Updates

## Inglewood Hill Drainage and Overlay

### Contractor Installed

- ≈3,500 linear feet of roadway improvements including:
  - Drainage system
  - New water main (SP)
  - Sidewalk
  - Walls & handrails
  - Water quality treatment
- Overlay:
  - Bid opens 9/18, 10:00am
  - WSDOT approval
  - Council 9/19
- Expected to finish within the next 30 days



# PW Project Updates

## Inglewood Middle School



# PW Project Updates

## Intelligent Transportation System (ITS)



# PW Project Updates

## Intelligent Transportation System (ITS)

### ITS in Sammamish

- 228<sup>th</sup> : Issaquah Pine Lake Rd. to NE 12<sup>th</sup> Pl
- 11 Intersections upgraded with ITS and connected in the 228<sup>th</sup> corridor
- Video detection and in ground loops as secondary backup
- Fiber optic signal interconnectivity

### ITS Phase 1 Benefits

- Adaptive Signal Control Technology (ASCT)
- Real time condition monitoring & viewing
- Optimization of signals via programming
- Ability to add to programming manually for events, school hours, etc.

### ITS Phase 2

- 228<sup>th</sup> / Sahalee Way: NE 12<sup>th</sup> Pl to SR 202
- \$1.2M grant
- Communication connection with WSDOT & King County
- Partnering with WSDOT on SR202 ITS Improvements
- Traffic Management Center (TMC)

# PW Project Updates

Intelligent  
Transportation  
System (ITS)

Interface →



# PW Project Updates

Thank You