

Seattle Tunnel Partners monthly schedule – July 2016

The Washington State Department of Transportation's contractor, Seattle Tunnel Partners, is responsible for designing and building the SR 99 tunnel. WSDOT's contract with STP includes a number of elements. In addition to boring the tunnel and building the highway within it, STP is responsible for building highway ramps and other connections at the north and south ends of the tunnel. They are also constructing buildings at each tunnel portal to house controls for lighting, ventilation and other systems needed to operate the tunnel.

STP submits an updated schedule to WSDOT each month. These monthly schedules show projected durations for "critical-path" activities, which are activities that must be completed on time for the project to be finished on the projected completion date. An activity on the critical path cannot be started until certain prior activities are complete.

The detailed critical-path schedule can be found on the following pages. Like all large construction projects, the schedule for this project changes frequently. Because STP is responsible for the schedule under the terms of the project's design-build contract, WSDOT cannot verify any of the dates shown in this schedule.

As a reminder, after STP hands over the tunnel to the state, work must be done to connect the new tunnel to SR 99 in the south and Aurora Avenue North in the north. Based on STP's schedule, WSDOT estimates the tunnel would open to traffic in early 2019.

| July Update (Data Date Aug 1, 2016) | | Appendix B2.1 - Longest Path | | | | | | | | | 14-Aug-16 14:23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|------------------------------|-------------|-----------|------------------|-------------------|----------------|-----------------|-------------|--------------------------------------|-----------------|---|---|---|---|------|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Activity ID | Activity Name | OD | Start | Finish | Last Month Start | Last Month Finish | Start Variance | Finish Variance | Total Float | Gantt Chart (2016-2019) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 16 | 2017 | | | | | 2018 | | | | | 2019 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J |
| TB 170 | Tunnel Boring Station 225+39 - 246+25 | 64 | 18-Jul-16 A | 14-Oct-16 | 01-Aug-16 | 28-Oct-16 | 10 | 10 | 0 | [Gantt bar for TB 170] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TB 160 | Intervention 2 | 20 | 17-Oct-16 | 11-Nov-16 | 31-Oct-16 | 29-Nov-16 | 10 | 10 | 0 | [Gantt bar for TB 160] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TB 190 | Tunnel Boring Station 246+25 - 270+60 | 75 | 14-Nov-16 | 03-Mar-17 | 30-Nov-16 | 17-Mar-17 | 10 | 10 | 0 | [Gantt bar for TB 190] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TB 180 | Intervention 3 | 20 | 06-Mar-17 | 31-Mar-17 | 20-Mar-17 | 14-Apr-17 | 10 | 10 | 0 | [Gantt bar for TB 180] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TB 250 | Tunnel Boring Station 270+60 - 287+20 | 51 | 03-Apr-17 | 13-Jun-17 | 17-Apr-17 | 27-Jun-17 | 10 | 10 | 0 | [Gantt bar for TB 250] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TB 260 | Tunnel Boring Complete | 0 | | 13-Jun-17 | | 27-Jun-17 | 10 | 10 | 0 | [Gantt bar for TB 260] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EX PIT - CON - 100 | NCC Remove Break out Struts and Walers | 10 | 14-Jun-17 | 27-Jun-17 | 28-Jun-17 | 05-Jul-17 | 10 | 5 | 0 | [Gantt bar for EX PIT - CON - 100] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EX TB 100 | Move TBM into Disassembly Location & Drain Temporary Utilities | 18 | 28-Jun-17 | 16-Jul-17 | 06-Jul-17 | 14-Jul-17 | 7 | -2 | 0 | [Gantt bar for EX TB 100] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remove Temp Util 140 | Removal of TBM Temporary Utilities Reach 1 (Station 194+50 - 205+71) | 5 | 17-Jul-17 | 21-Jul-17 | 17-Jul-17 | 21-Jul-17 | 0 | 0 | 0 | [Gantt bar for Remove Temp Util 140] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TC Reach 1 - 180 | SOUTH BOUND EAST WALLS - Form, Rebar, Imbed MEP, Pour - Reach 1 (Station 194+50 - 205+71) | 22 | 22-Jul-17 | 18-Aug-17 | 22-Jul-17 | 18-Aug-17 | 0 | 0 | 0 | [Gantt bar for TC Reach 1 - 180] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TC Reach 1 - 200 | UPPER PORTION SOUTH BOUND WALLS - Shotcrete - Reach 1 (Station 194+50 - 205+71) | 22 | 28-Jul-17 | 24-Aug-17 | 28-Jul-17 | 24-Aug-17 | 0 | 0 | 0 | [Gantt bar for TC Reach 1 - 200] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 1 - 200 | SOUTH BOUND - Install Mesh - Reach 1 | 16 | 25-Aug-17 | 15-Sep-17 | 25-Aug-17 | 15-Sep-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 1 - 200] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 1 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 1 | 16 | 18-Sep-17 | 06-Oct-17 | 18-Sep-17 | 06-Oct-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 1 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 2 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 2 | 12 | 07-Oct-17 | 21-Oct-17 | 07-Oct-17 | 21-Oct-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 2 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 3 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 3 | 12 | 23-Oct-17 | 06-Nov-17 | 23-Oct-17 | 06-Nov-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 3 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 4 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 4 | 10 | 07-Nov-17 | 18-Nov-17 | 07-Nov-17 | 18-Nov-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 4 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 5 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 5 | 10 | 20-Nov-17 | 04-Dec-17 | 20-Nov-17 | 04-Dec-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 5 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 6 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 6 | 12 | 05-Dec-17 | 19-Dec-17 | 05-Dec-17 | 19-Dec-17 | 0 | 0 | 0 | [Gantt bar for MEP Reach 6 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 7 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 7 | 12 | 20-Dec-17 | 05-Jan-18 | 20-Dec-17 | 05-Jan-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 7 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 8 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 8 | 12 | 08-Jan-18 | 22-Jan-18 | 08-Jan-18 | 22-Jan-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 8 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 9 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 9 | 12 | 23-Jan-18 | 05-Feb-18 | 23-Jan-18 | 05-Feb-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 9 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 10 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 10 | 11 | 06-Feb-18 | 19-Feb-18 | 06-Feb-18 | 19-Feb-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 10 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 11 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 11 | 11 | 20-Feb-18 | 05-Mar-18 | 20-Feb-18 | 05-Mar-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 11 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 12 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 12 | 11 | 06-Mar-18 | 19-Mar-18 | 06-Mar-18 | 19-Mar-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 12 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 13 - 210 | SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 13 | 10 | 20-Mar-18 | 31-Mar-18 | 20-Mar-18 | 31-Mar-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 13 - 210] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 13 - 220 | SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 13 | 9 | 02-Apr-18 | 11-Apr-18 | 02-Apr-18 | 11-Apr-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 13 - 220] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 13 - 230 | SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Coils - Reach 13 | 8 | 12-Apr-18 | 21-Apr-18 | 12-Apr-18 | 21-Apr-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 13 - 230] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 14 - 220 | SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 14 | 8 | 12-Apr-18 | 21-Apr-18 | 12-Apr-18 | 21-Apr-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 14 - 220] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP Reach 14 - 230 | SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Coils - Reach 14 | 8 | 23-Apr-18 | 02-May-18 | 23-Apr-18 | 02-May-18 | 0 | 0 | 0 | [Gantt bar for MEP Reach 14 - 230] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER 16 - 510 | Final Wire Pull / Termination from South Bound Roadway - Electrical Room #16 | 5 | 03-May-18 | 09-May-18 | 03-May-18 | 09-May-18 | 0 | 0 | 0 | [Gantt bar for ER 16 - 510] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER 16 Prefunct - 150 | South Bound Roadway Prefunctional Check List for Electrical - ER 16 | 10 | 10-May-18 | 23-May-18 | 10-May-18 | 23-May-18 | 0 | 0 | 0 | [Gantt bar for ER 16 Prefunct - 150] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER 16 Prefunct - 160 | South Bound Roadway Prefunctional Check List for Fire Alarm System - ER 16 | 5 | 24-May-18 | 30-May-18 | 24-May-18 | 30-May-18 | 0 | 0 | 0 | [Gantt bar for ER 16 Prefunct - 160] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER 16 Prefunct - 170 | South Bound Roadway Prefunctional Check List for Controls - ER 16 | 5 | 24-May-18 | 30-May-18 | 24-May-18 | 30-May-18 | 0 | 0 | 0 | [Gantt bar for ER 16 Prefunct - 170] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER 16 Prefunct - 180 | South Bound Roadway Prefunctional Check List for Mechanical - ER 16 | 12 | 31-May-18 | 15-Jun-18 | 31-May-18 | 15-Jun-18 | 0 | 0 | 0 | [Gantt bar for ER 16 Prefunct - 180] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tun Wide Prefunc 60 | Maintenance Air Test and Balance (TR2.34) | 40 | 31-May-18 | 25-Jul-18 | 31-May-18 | 25-Jul-18 | 0 | 0 | 0 | [Gantt bar for Tun Wide Prefunc 60] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tun Wide Prefunc 70 | Prefunctional Check List for Jet & Maintenance Fans | 20 | 31-May-18 | 27-Jun-18 | 31-May-18 | 27-Jun-18 | 0 | 0 | 0 | [Gantt bar for Tun Wide Prefunc 70] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tun Wide Prefunc 30 | Pre- Commissioning Internal Testing - Tunnel Ventilation System | 20 | 28-Jun-18 | 25-Jul-18 | 28-Jun-18 | 25-Jul-18 | 0 | 0 | 0 | [Gantt bar for Tun Wide Prefunc 30] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - FPT - 120 | Maintenance Ventilation (TR 2.34) - Functional Performance Testing | 15 | 26-Jul-18 | 15-Aug-18 | 26-Jul-18 | 15-Aug-18 | 0 | 0 | 0 | [Gantt bar for MEP - FPT - 120] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - FPT - 300 | North Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Functional Performance Testing | 15 | 16-Aug-18 | 05-Sep-18 | 16-Aug-18 | 05-Sep-18 | 0 | 0 | 0 | [Gantt bar for MEP - FPT - 300] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - FPT - 144 | South Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Functional Performance Testing | 15 | 06-Sep-18 | 26-Sep-18 | 06-Sep-18 | 26-Sep-18 | 0 | 0 | 0 | [Gantt bar for MEP - FPT - 144] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - FPT - 140 | Tunnel Ventilation (TR 2.35) - Functional Performance Testing | 15 | 27-Sep-18 | 17-Oct-18 | 27-Sep-18 | 17-Oct-18 | 0 | 0 | 0 | [Gantt bar for MEP - FPT - 140] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - FPT - 230 | Functional Tests - COMPLETE | 0 | | 17-Oct-18 | | 17-Oct-18 | 0 | 0 | 0 | [Gantt bar for MEP - FPT - 230] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - IFPT - 000 | Pre - Test Integrated Functional Performance Testing | 10 | 18-Oct-18 | 31-Oct-18 | 18-Oct-18 | 31-Oct-18 | 0 | 0 | 0 | [Gantt bar for MEP - IFPT - 000] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - IFPT - 100 | Default - Integrated Functional Performance Testing - 0 | 1 | 01-Nov-18 | 01-Nov-18 | 01-Nov-18 | 01-Nov-18 | 0 | 0 | 0 | [Gantt bar for MEP - IFPT - 100] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - IFPT - 110 | Minor Fire One Direction - Integrated Functional Performance Testing - 1 | 1 | 02-Nov-18 | 02-Nov-18 | 02-Nov-18 | 02-Nov-18 | 0 | 0 | 0 | [Gantt bar for MEP - IFPT - 110] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - IFPT - 120 | Major Fire One Direction - Integrated Functional Performance Testing - 2 | 1 | 05-Nov-18 | 05-Nov-18 | 05-Nov-18 | 05-Nov-18 | 0 | 0 | 0 | [Gantt bar for MEP - IFPT - 120] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP - IFPT - 130 | Two Fires Same Direction - Integrated Functional Performance Testing - 3 | 2 | 06-Nov-18 | 07-Nov-18 | 06-Nov-18 | 07-Nov-18 | 0 | 0 | 0 | [Gantt bar for MEP - IFPT - 130] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

■ Primary Baseline
 ■ Remaining Work
 ◆ Baseline Milestone
■ Actual Work
 ■ Critical Remaining Work
 ◆ Milestone

TASK filters: (Untitled Filter)_1, Longest Path, Longest Path, No for Payment Purposes, No level of Effort.

