Silver Line Corridor Industry Impact

Program Panelist

Capital Rail Constructors – a Clark & Kiewit Joint Venture
Jim Ansari – Senior Vice President & General Manager

Moderator – Kevin Pavuk, Structural Technologies

Presentation  5:30 to 7:00 p.m.
Reception     7:00 to 8:00 p.m.
Dulles Corridor Metrorail Project
Phase 2, Package A

Capital Rail Constructors Project Update

Jim Ansari
Capital Rail Constructors

APRIL 2018
Scope
Overall Project Status

Design and Construction: 81% Complete
- Construction Status: 80% Complete
- Design Status: 99.98% Complete
Facilities: Dulles Airport Station

- Platform Granite: Apr 2018 - May 2018
- Elevator Install: May 2018 - Aug 2018
- Storefront Glass: Feb 2018 - Jun 2018
- TPSS 16 Install: Ongoing
- Start Up Station AC Switchgear: Apr 2018
Innovation Station Pavilions

SOUTH:
- Structural Precast: Complete
- Structural Steel: 90% Complete

NORTH:
- Retaining Wall: 90% Complete
- Site Ductbank: Underway
Innovation Station Pedestrian Bridges

SOUTH: 4 Spans

NORTH: 4 Spans

# = Span Installed
Facilities: Herndon Station

- Roofing: Underway
- Mezzanine Waterproofing: Underway
- Platform Paving: Underway
- Elevator Cab Installation: Underway
Herndon Station Pedestrian Bridges

SOUTH: 5 Spans

NORTH: 3 Spans

# = Span Installed
Facilities: Reston Town Center Station

- Mechanical Rough-In: Jan 2017 - Fall 2018
- Roofing: Sep 2017 - Jun 2018
- Elevator: Starts Apr
- Curtain Wall (West Stair): Starts Apr 2018
- Barrel Roof: 20% Complete
- Set Escalators: 25% Complete
- Topping Slab: 40% Complete
- Ceiling Framing: 70% Complete
- Concrete Masonry Units: 80% Complete
- EPDM Roof (Rubber Membrane): 90% Complete
- Precast: Complete
- Steel Erection: Complete
- Metal Decking: Complete
- Curtain Wall (Mezz. Level): Complete
Reston Town Center Station Pavilions

SOUTH:
- Concrete Work: 80% Complete
- Pavilion Backfill: Complete
- Precast Erection: Start Mid-Apr

NORTH:
- Precast Erection: Complete
- Escalator Setting: Complete
- Steel Canopy Erection: 90% Complete
Reston Station Pedestrian Bridges

SOUTH: 2 Spans

NORTH: Spans 4

# = Span Installed
Loudoun Gateway Station

- Precast Erection: Complete Apr 2018
- Vault Roof Steel Erection: Complete
- Granite Edge: Feb 2018 – Apr 2018
- Platform Pavers: Started Mar 2018
Loudoun Gateway Pavilion

NORTH:
- Cast-In-place Concrete: Complete
- Precast Erection: Feb 2018 – Apr 2018
- Escalators Set: Apr 2018
Loudoun Gateway Pedestrian Bridge

# = Span Installed

NORTH: 4 Span
Loudoun Gateway Pedestrian Bridge

NORTH:
Topping Slab Spans 3-4: Complete
Topping Slab Spans 1-2: Complete
## Facilities: Ashburn Station

- **Cast-In-Place Concrete:** Jan 2017 – Apr 2018
- **Precast Erection:** May 2017 – Apr 2018
- **Steel Erection:** Jan 2018 – May 2018
Ashburn Station Pedestrian Bridges

# = Span Installed

SOUTH PAVILION

SOUTH: 2 Spans

NORTH PAVILION

NORTH: 3 Spans

NORTH PAVILION

SOUTH PAVILION

SOUTH: 2 Spans

NORTH: 3 Spans
Civil: Wayside Ductbank

- Tie Breaker Stations 8 & 20 Median: Complete after Track Wall Installed Q2 & Q3
- Traction Power Substation 20 Median Phase I: Active
Civil: Storm Drainage

Storm/Wet Utilities:
- 73,500 of 86,400 Linear Feet
- Storm Pipe Installed: 85% Complete
- 9,000 of 22,400 Linear Feet of Water & Sewer Installed: 40% Complete
- Reston North & South Storm: Q2
- N09: DIAAH/DTR Median Storm: Q3
- Innovation North Water: Q2
- Ashburn North/South Water & Sewer: Q2
- Loudoun Gateway North Water & Sewer: Q2/3
Civil: Track Wall

Track Wall:
- Total Footer Installed: 72,000 of 75,000 Linear Feet: 96% Complete
- Total Wall Installed: 70,400 of 75,000 Linear Feet: 94% Complete
- East Segment: Close Leave-Outs (4 Each)
- West Segment: West of Loudoun Gateway and Ashburn Stations: Active
Civil: Grading/Excavation/Paving

East:
- Phase I Tie-in Sub-Ballast: May
- Reston South Cistern: Active
- Herndon North Pavilion Excavation: Active
- DIAAH/DTR Road Widening Near Herndon: Active
- Innovation North DTR Retaining Wall: Active

West:
- Shoulder/Sub-Ballast: Abutments B to YL: Active
- West of Loudoun Grading/Track Wall: Active
- East of Loudoun Duct Bank/Storm Drainage: Active
- Ponds 2-12 and 2-9 Construction: Active
Track: Cable Trough

- Precast Cable Trough Installed: 69,984 of 81,176 Linear Feet: 86% Complete
- Cast-In-Place Cable Trough Poured: 38,520 of 38,520 Linear Feet: Complete
Track: Direct Fixated (DF) Plinths

- Direct Fixated Track Plinth: 37,595 of 37,595 Track Feet Poured: Complete
Track: Contact Rail

- Contact Rail (Aerial Guideway): 31,116 of 40,750 Linear Feet Installed: 76% Complete
- Contact Rail (Ballasted Guideway): 24,400 of 88,446 Linear Feet Installed: 28% Complete
- Emergency Guard Rail: 40,694 of 46,760 Linear Feet installed: 87% Complete
Track: Ballasted

- Ties Set and Rail Clipped: 52,254 of 87,090 Total Feet: 60% Complete
- Traction Power Substations 13/14/15/17/18/19/20; Tie-Breaker Stations 6/7/9/10/11
- Train Control Room Buildout Complete for Automatic Train Control at Segment N97 and Underway at Segments N96/N09
- Automatic Train Control Cable Pulled and Devices Set at Segments N97/N96 and Underway at Segments N99E/N09
- Dominion Energy Vista Switch Yard Installations: Complete
- 95% of All 34.5kV Cable Has Been Installed, Spliced, and Terminated Project Wide
- Permanent 34.5kV Power Energized at Traction Power Substations 13/14/15/16/17/18
Start-up/Commissioning/Turnover

- **Stations:** Switchgear Testing begins April; Communications Installation Started at Dulles and Innovation Stations
- **Guideway:** Turnover to Systems 59% Complete at Segments N99E/N98A/N97/N10/N96/N09/N08
- **Waysides:** 93% of Buildings Set: Train-Braking Systems 6/7/9/10 and Traction Power Substations 12/13/14/15/17/18/19/20; Fit-Out Ongoing
- **Overall:** Finalizing Dynamic Testing Plans