

**SP21-028 Belford/Happy Canyon Probationary Storm Punchlist**  
**8/11/22**

The following items were noted during the on-site inspection performed on 08/11/22. Please note all items must be addressed and then reinspected prior to probationary approval of the storm infrastructure on site.

1. Jet and clean the entire storm sewer system of all sediment, trash, and debris. This includes but is not limited to inlets, manholes, storm sewer, forebays, trickle channels, and the outlet structure.
2. Manholes: Grout over the spaces between any cone sections, riser rings, and the cover ring.
3. INL-A: Pull all formwork out of the inlet. Cut underdrain penetration flush with inlet wall. Fill all voids left around penetrations with grout to the extents of the outer wall of the structure. Grout the underdrain and storm sewer penetrations flush with the inlet wall.
4. STMH-1: Riser rings noted to have significant cracking and some ramnek was left protruding between the riser rings. Clean up excess ramnek and then grout between the riser rings, cover ring, and cone section to provide a smooth surface. The cracks in the riser rings will continue to be monitored through final acceptance.
5. STMH-3: Some asphalt noted between the cover ring and cone section. Remove the asphalt to the extents feasible. Place steel shims between the cover ring and cone section to provide structural support. Grout over the joint between the cone sections and cover ring.
6. INL-B: Pull all formwork out of the inlet. Cut underdrain penetration flush with inlet wall. Fill all voids left around penetrations with grout to the extents of the outer wall of the structure. Grout the underdrain and storm sewer penetrations flush with the inlet wall. Seal crack noted in pipe to STMH-3 with a cure in place pipe liner.
7. STMH-4: Route and seal crack in cone section. Replace the wood shims between the cover ring and cone section with steel shims. Add 3 more steps to the bottom of the structure.
8. STMH-5: Add 2 more steps.
9. INL-C: The pipe penetration to STMH-5 appears to have been covered while pouring the inlet walls. Please determine whether the end of the pipe is within the inlet wall or falls outside of the inlet wall. If within the inlet wall and a minimum of 2-inches from the outer face of the inlet, the penetration can be cut out and grouted smooth to finish. If the pipe falls less than 2-inches from the outer face of the inlet wall or further from the inlet a concrete collar will be needed to connect the two pieces of infrastructure together. Pull all formwork out of the inlet. Cut underdrain penetration flush with inlet wall. Fill all voids left around penetrations with grout to the extents of the outer wall of the structure. Grout the underdrain and storm sewer penetrations flush with the inlet wall.
10. INL-BR1 and INL-BR2: Significant gaps noted around inlet grates. Fill gaps with grout as needed.
11. Forebay 2: The second and third pipe joints upstream of the forebay toward STMH-4 noted to exceed allowable spacing. Clean joints of all sediment and debris. Grout joints smooth with inner face of the storm sewer pipe.
12. Outlet Structure: Cut 3.5-inch by 18-inch rake hole in top grate above micropool for maintenance access. Provide silicone between the orifice plate and outlet structure wall.
13. FES H: Provide restraining bolts for the FES. Once installed tighten nuts and cut excess bolt flush with nut.

The following item must be addressed prior to final acceptance of the storm infrastructure.

1. Outlet Structure: Replace interim grates with the plan specified grates. Restrain all grates to the outlet structure.

The following items are currently under review and may generate additional punchlist items.

1. CCTV for the site received on 08/10/22 and currently under review.