**Notes and thoughts regarding construction method/ contract documentation:**

Part 1 – Vac hose out existing chamber and see if something is connecting system to RR culvert. If outlet is connected to something, clean the connected pipe all the way to river, provide a bend at the bottom, sleeve the interior all the way up with pipe, and fill/grout void.

Part 2 – Wall Refacing

Task 1 - If connecting system is not identified during Part 1, prepare design and initiate approval from RR to excavate and explore for existing 36” culvert.

Task 2 - Seal and fill voids behind wall – seal face and fill from manhole at top if possible.

Task 3- Place footer and reface up to designated location

Task 4 - Shortcrete remainder of the wall

Part 3 – excavate and connect existing chamber to the existing culvert

Part 4 – place pipe and manhole adjacent to S.R. 7, extend pipe down over wall into Chamber.

Issues:

How to maintain existing flow after Part 2, Task 2.

May want to consider a different inlet treatment to reduce the size of debris that passes through the system. Use a CB-4, 5, or 8 (not sure which) with a sloped grate that directs larger debris over the grate with the force of the flow.

Other Investigation considerations:

Video culvert from river side to determine condition under RR. – would require additional RR coordination.

Dye test from the west side of SR 7 to see where water from system is going – could identify a different outlet along river – would require RR coordination.