

Riaz Abbas, M.Eng., P.Eng. Bio

Professional engineer with over 25 years of experience coupled with strong academic background in working with public and private organizations. Riaz has extensive expertise in leading and managing the infrastructure engineering projects; planning and designing of structural engineering projects; and managing and designing all types of structures on permafrost areas, haul roads for oil & gas, and mining companies.

He has been involved in small to complex projects, contract administration and construction supervision, hydrotechnical design for bridges, culverts and river engineering, and is capable of designing in steel, concrete, wood and masonry structures.

Relevant Project Experience

North East Anthony Henday Drive Bridges

Role: Design Check, **Scope:** North East Anthony Henday Drive bridges (Br 25.1, Br 25.2, and Br 32.1), concrete girder bridges, The City of Edmonton, (2014-2016).

48th Avenue Bridge Crossing

Role: Project Manager and Design Lead, **Scope:** 48th Avenue bridge crossing and other work, The City of Camrose, (2014 to 2020).

BF 83174 Little Red Deer River Bridge

Role: Design Check and Corporate Support, **Scope:** BF 83174 Little Red Deer River Bridge, a single span steel girder bridge, Mountain View County, (2016 – 2018).

Bridge Deck Testing and Inspections

Role: Project Manager – Bridge Deck Testing & Inspections, **Scope:** Bridge deck testing and inspections, Alberta Transportation, (2016 – 2017).

Hwy 63, Bear Creek, House River, and Crow Creek Bridges

Role: Contract Administration and Management, **Scope:** Hwy 63, Bear Creek, House River, and Crow Creek bridges on Hwy 63, steel and concrete girder bridges founded on steel driven piles, Alberta Transportation, Alberta (2014-2016).

Flood Mitigation Projects

Role: Project Manager, **Scope:** Flood mitigation projects, BF73810, BF13824, BF76117, BF80694, BF76474, BF79472, BF79710, BF79473, and BF79475, near to Grand Cache, Whitecourt, Alberta, Alberta Transportation (2014-2017).

Various Projects

Role: Design Check and Corporate Support, **Scope:** BF 310, Dogpound Creek Bridge, single span steel girder bridge, Alberta Transportation (2015 – 2017); Wentzel River Bridge, Little Red Deer Bridge (35 m NU concrete girders), Mooselake River Bridge (16 m SCC Girders), LeaPark Bridge, Rehabilitation works, (2003 – 2005); South Heart River Bridge (44 m steel girders), Highway 16/21 Intersection (Design of Retaining Walls), Baker Crossing Bridge (Conceptual Structural options Report) (2004 – 2005); Plamondon Creek Bridge (Steel Liner Option), Assessment of different bridges (BF09680, BF71438, BF73728, BF78075, etc), Reita Creek Bridge (12 m SC Girder Bridge), Culvert Options on Local Road (BF77380, BF74504, BF7384, BF79634), (2003 – 2005).

Other Experience

- Inuvik to Tuktoyaktuk Highway (ITH) Design include 67 watercourse crossings (bridges and culverts), DOT, NWT, (Project Manager and Design Lead) (2012 – 2013).
- Baker Creek Crossing on Hwy 4, Yellowknife, DOT, NWT, (Project Manager and Design Lead) (2013)
- Hwy 3 twinning Functional Planning Study – Bridge planning Lead (2012).
- Terwillegar Park Foot Bridge, 3 span Stressed Ribbon Bridge Option, the City of Edmonton, (Project Manager) (2013)
- Rabbit Hill Road overpass structure (51 – 65 m steel and NU concrete girders) on Anthony Henday Drive,

- Edmonton, Alberta Transportation, (Project Manager and Design lead) (2009 – 2011).
 - Cameron Heights Drive Interchange (52 – 66 m steel girders) on Anthony Henday Drive, Edmonton, Alberta Transportation, (Project Manager and Design Lead).
 - Hwy 63:11 Six Laning – Franklin Ave, confederation way, Grant MacEwan, Beaconhill, and Hanging Stone bridge structures (Design Lead) (2007-2013).
 - Heavy Haul Road over McLeod River and County Road, Hinton, Teck Coal Limited, (Project Manager and Design Lead) (2009 – 2012).
 - Heavy Haul Road over the Upper McLeod River and County Road, Hinton, Teck Coal Limited, (Project Manager and Design lead) (2010 – 2011).
- Tawatinaw River Bridge on Hwy 55, Town of Athabasca, Alberta Transportation, (Project Manager) (2005 – 2013).