

### **RC Engineer 3 and 4 – Job Description Addendum**

1. Conduct engineering work for the planning, designing, construction and maintenance on a wide variety of multimodal projects, using standard engineering techniques, procedures, and criteria. This position would focus primarily on transit projects (rail, dedicated bus rapid transit, and arterial bus rapid transit) but could also include design and planning of bicycle infrastructure (off-street trails, on-street facilities), and pedestrian facilities.
2. Confer, consult, and interact with project partners, government entities, public agencies, private businesses, utility owners, citizens, or other affected groups to address questions on projects.
3. Determine necessary Ramsey County resources for project advancement and approvals.
4. Prepare and present technical reports.
5. Participate and develop recommendations on policy and procedural matters.
6. Coordinate design plans with other subject matter experts within Ramsey County.
7. Coordinate with County staff, Metro Transit project office staff, and consultant engineers to advance project design plans to 30%, 60%, 90% and final plan levels. Examples of areas where expertise in civil design and coordination are needed could include:
  - Right of way
  - Surveying
  - Subsurface utility engineering
  - Historic resource accommodation
  - Traffic analysis
  - Phase 1 Environmental Study Assessment
  - Stormwater management requirements
  - Horizontal geometry
  - Vertical profile
  - Cultural resources
  - Constrained urban section design refinement (building face to building face)
  - Initiate conceptual utility relocations (betterments)
  - Conceptual drainage layout and preliminary modeling
  - Conceptual stormwater management footprint and modeling
  - Guideway, station locations (in key areas – cures, constrained right of way)
  - Power availability assessment
  - Conceptual bridge plans
  - Conceptual retaining wall layout
  - Geotech investigations
  - Conceptual traffic signal layout
  - Conceptual system signal layout
  - Proof of concept for business access during construction
  - Conceptual ADA design and MnDOT ADA coordination
  - Conceptual lighting plans

- Conceptual street/hardscaping plans
- Preliminary load flow analysis
- Regulated materials
- Constructability review
- Construction

8. Estimated Time Allocation for Position Duties

<b>Time %</b>	<b>General Task Description</b>
50	Oversee the development and evaluation of design plans for multimodal projects.
25	Conduct technical analysis
15	Coordinate design reviews with Ramsey County Public Works staff
10	Prepare and evaluate scope/specification documents