

**CITY OF ROCHESTER**  
**DEPARTMENT OF PUBLIC WORKS**  
**PLAN CHECK LIST**

**KEY****Blank = Not Applicable****Y = Yes****E = No****Subdivision:** \_\_\_\_\_**Engineer:** \_\_\_\_\_**SPECIFICATIONS**

- NPDES permit is included.
- Measurements, pay items conform to documentation.
- Reference governing specifications.

**GENERAL**

- Soils Report included
- Specification Included
- North arrow shown up or to right.
- Project Description is accurate and complete.
- Signed by the engineer and drafters initials.
- Dimension the right of way widths.
- Lot dimensions & numbers, block numbers, addition names, etc.
- Roadway width shown, along with sidewalk location.
- Stationing on CL, SL.
- Station and angle at intersections with side streets, section line, & R.R. crossings.
- Stationing, Northing & Easting on alignment data, and control monuments along with any notes.
- Bench mark elevation and description.
- Street names.
- Federal, State, and/or City project numbers.
- Field book or electronic survey number.
- Sheet numbers
- Scales, bar scales.
- Sufficient overlap of sheets.
- Sheet index on title sheet.
- Location map.
- Signature blocks.
- Easements shown for any work outside of right of way.
- Stationing on block corners.
- Inplace curb & ROW dimensions.
- Inplace underground utilities shown and labeled.
- All pertinent topography shown and labeled.
- Profile elevations, CL profile line, and rock and/or water table lines shown and labeled.
- Check abutting subdivision plans for comparison of data.
- Right of Way to be acquired.
- Beginning and End of Project labeled.
- Construction at corner lots covers entire frontage on both sides.
- Temporary turn around is provided.
- Temporary Barricades are provided at temporary dead ends
- Present & projected ADT, design speed, GE equivalent, etc., for State Aid projects.
- Minimum ROW on cul-de-sac is 49.5'.

**ROADWAY**

- Road Section is designed in accordance with Mn/DOT Pavement Design practices.
- Roadway is constructed along all lots of subdivision including cross streets.
- Typical section showing the depths of surfacing and base.
- Turning radii checked.
- Erosion control shown and labeled.
- Soils Report recommends road design requirements
- Cross slopes are 1-3% for driving lanes, 3-5% for parking lanes, and 2-7% for boulevards.
- Minimum radius to back of curb is 40.5' for cul-de-sacs.

**GRADING**

- Minimum longitudinal grade for concrete paving is 0.40% and 0.50% for bituminous paving.
- Sod/seed areas.
- CL grades, lane grades, top of curb grades.
- Driveability of drive approaches.
- 2% maximum longitudinal grade thru intersections.
- 1% minimum longitudinal grade in the radial portion of cul-de-sac streets.

**CURB & GUTTER**

- Curb exposure, design of curb.
- Curb return information.
- Driveway width dimensions.
- Driveway type.
- Driveway type A, D or E used in the Central Business District.
- Minimum slope for C & G is 0.4%.
- Minimum slope of C & G in cul-de-sacs is 0.5%
- 2' clearance from face of curb to face of any permanent object in boulevard.
- Gutter drainage does not flow across intersections
- Driveover curb is permitted at one and two family dwellings with street grades less than 8%.
- Driveways meet the criteria shown in the standard detail plates.

**SIDEWALK**

- Driveways are constructed with sidewalk section.
- Handicap ramps provide 1:12 ramp slope with 4' minimum landing at top in accordance with standards.
- Pedestrian curb ramps at all quadrants of intersections.
- Minimum thickness is 4 inches.
- Minimum 5' wide walk is shown for collector and arterial streets.
- Minimum 4' wide walk is shown for all other streets.
- Sidewalk is 1' from property line except where boulevard width would be less than 6'.

- Bikeways shown in accordance with City standards.

**SANITARY SEWER**

- Label pipe size, class and length (center to center).
- Manhole numbers and construction notes or charts.
- Minimum of 6 feet of cover.
- Maintain 10 feet clear of watermain alignment.
- Maximum of 5.5 feet from centerline.
- Maximum spacing between manholes is 450 feet.
- Minimum grade is 0.40% on an 8" pipe. For pipe sizes larger check w/engineer.
- In common trench with watermain; use watermain quality pipe for sewer.
- Outside drop manhole is to be used if the difference between the inlet and outlet is 2 feet or more. Otherwise keep the difference to 6 inches or less.
- Notes on plans match notes in profile.
- When paying for granular backfill, be sure to deduct the volume of pipe.
- When calculating rock excavation quantity, be sure to account for pipe thickness.

**STORM SEWER**

- Label pipe size, class and length (center to center).
- Manhole & catch basin numbers and construction notes or charts.
- Check for conflicts with other mains and utilities.
- Label length & size of catch basin leads from center of structure.
- Culverts are extended beyond front property lines.
- Pipe is paid from inside to inside of structures.
- When paying for granular backfill, be sure to deduct the volume of pipe.
- When calculating rock excavation quantity, be sure to account for pipe thickness.
- Minimum grade is 0.40% .
- Notes on plans match notes in profile.
- Existing checked for taps, roof leads, floor drains, etc.
- Riprap and filter fabric quantities meet Mn/DOT Sanitary, Subdrain & water standards and are shown on plan.
- Drainage study done and the pipe sizes and grades agree with it.
- When the standard 4.0' catch basin has leads that have a steep grade, use a deeper depth basin to flatten grade.

**WATERMAIN**

- Minimum 8 inch watermain unless the City Engineer approves a lesser size.
- Maximum hydrant spacing is 400 feet.
- Minimum of 6.5 feet of cover in streets and 6 feet elsewhere.
- Check for conflicts with other mains.
- Watermain fitting numbers and construction notes or charts.
- Hydrant breakoff elevations.
- Label size and class of pipe.
- Notes match fittings on plan.
- Hydrant locations are out of sidewalk area. Valves clear of curb & gutter, and walks.
- Insulation is provided where storm sewer crosses water main.
- Valves clear of curb & gutter, and walks.
- When calculating rock excavation quantity, be sure to account for pipe thickness.

**SUB-DRAIN SEWER**

- Check for conflicts with other mains.
- Label pipe size, class and length (center to center).
- Manhole numbers and construction notes or charts.
- Maximum spacing between manholes is 500 feet.
- Notes on plan match notes in profile.
- Subdrain system is provided in areas that have existing tile systems.
- Subdrain pipe with service connections is a minimum of 6 inches of perforated sewer quality pipe and covered with a geotextile fabric. Subdrain systems that are in a common trench but not at bottom of common trench shall be non-perforated.
- Subdrains without service connections is a 4-inch wrapped corrugated polyethylene pipe.
- Subdrain systems that are in a common trench but not at bottom of common trench shall be non-perforated.

**SERVICES**

- Sanitary, Subdrain & water services do not conflict with main lines
- Service elevations at boulevard are shown
- Depth to Sanitary at boulevard is 7 1/2' min.
- Depth to water at boulevard is 7 feet min.
- Depth of Sanitary is at least 2' below floor elevation listed on grading plan.
- Sewer service minimum size is 4-inch placed at 2% grade.
- Water service minimum size is 1-inch.
- Notes for wye locations, and risers.

**COMMENTS:** \_\_\_\_\_

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