

CONCRETE CURB AND GUTTER REPLACEMENT

Concrete Curb and Gutter shall be constructed in accordance with MnDOT Spec. 2531 the State Aid Concrete Pavement Rehabilitation (CPR) Best Practices Manual for Curb and Gutter Repair Type SA-CG and the following:

1. Contractor shall remove and dispose the concrete curb and gutter at his expense at a site of his own choosing outside the City limits of the City of Owatonna. Any damages or excess excavation in the boulevard or street shall be repaired or replaced by the Contractor at his expense.
2. The Contractor shall assure a straight edge on the front of the gutter section by either matching the existing bituminous street surface or by sawing the existing bituminous street surface on a straight line, removing bituminous and setting a front form. This sawing, as well as any sawing required for curb and gutter removal, shall be considered incidental work.
3. Tree roots shall be cut and grubbed to provide a minimum 2 inch clearance from the new curb and gutter.
4. The new curb and gutter shall be placed on a minimum 4 inch thick aggregate base. Following removal of the curb and gutter, if no aggregate base is found to exist, the Contractor shall excavate to a depth of 4 inches and place and compact aggregate base. All excavation, furnishing and installation of aggregate base shall be considered incidental work.
5. The type of the new curb and gutter shall match the adjoining curb and gutter. The Contractor shall furnish and install two No. 13 reinforcing steel tie bars, 18" long on each end of the repair. Drill and grout one-half of the bar with an approved non-shrink grout.
6. Curb and gutter shall be backfilled with good topsoil, tamped and raked smooth within 72 hours of the curb and gutter placement. The Contractor shall then re-establish turf, by either seeding or sodding, to match existing lawns and shall maintain for 30 days to guarantee that it is in a normal, healthy growing condition. Any dead or unacceptable turf at the end of this period shall be replaced by the Contractor at his own expense. Backfilling and turf establishment shall be considered incidental work.
7. Any bituminous street surface that was removed in order to set forms for new curb and gutter shall be filled, tamped and brought to grade with a minimum 6 inch thick aggregate base. Bituminous surfacing will be replaced by the City.
8. The Contractor shall provide barricades and flashers to protect the construction to the satisfaction of the City Engineering Department.
9. Contractor shall furnish the City with a Certificate of Public Liability Insurance before construction commences in an amount of at least \$1,000,000 combined single limit or equivalent naming the City as "additional insured".

10. Payment shall be for a lineal foot of removal and replacement. All types of curb and gutter shall be considered the same for payment purposes.
11. All curb and gutter replacement work shall be completed by September 15 and all turf establishment shall be completed by October 15. The Contractor will be assessed a daily charge of \$100.00 for each calendar day that any work remains uncompleted after the specified completion dates.
12. Guarantee
The Contractor shall hold himself responsible for any and all defects which may develop within three (3) years from and after the date of final acceptance of the installation furnished by him and upon receipt of written notice from the Owner or Engineer shall immediately replace and make good, without expense to the Owner, such faulty part or parts and the damage done by reason of such faulty parts.

7. CURB AND GUTTER REPAIR TYPE SA-C

Curb and Gutter Repair Type SA-CG

This repair details how to remove and replace curb and gutter sections.

Designer Notes: Curb and Gutter Repair Type SA-CG

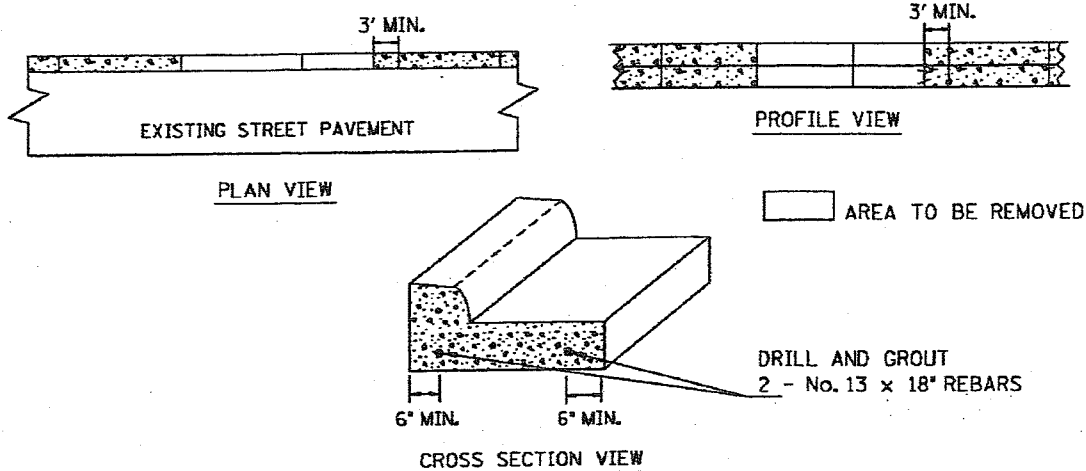
1. This plate is used to detail how to remove and replace existing curb and gutter sections which are experiencing drainage problems.
2. The repair shall leave as a minimum three feet of the existing curb and gutter in place. Otherwise remove back to the nearest existing joint.

Construction Notes: Curb and Gutter Repair Type SA-CG

1. Care must be taken to restore area behind the curb and gutter after replacement.
2. Payment shall be the nearest lineal foot of removal area.

CURB AND GUTTER REPAIR TYPE SA-CG

DESCRIPTION: REMOVE CONCRETE. RESTORE BASE. PLACE REINFORCING STEEL.
FURNISH AND PLACE CONCRETE. REFORM JOINTS AS NECESSARY.



WORK TO BE DONE

1. Define removal area at existing joint or if necessary saw full depth of curb gutter pan and as much as possible of curb. Remove concrete curb and gutter section.

If existing curb and gutter is an Integral Curb and Gutter design. Saw full depth of pavement at on a line 1' from face of curb and parallel to back of curb to define removal area.
2. Restore load transfer at each end of removal area by the following: At each end of the removal area furnish and install No. 13 reinforcing steel bars 18" long. Drill and grout $\frac{1}{2}$ of the bar with an approved non-shrink grout.
3. If existing Aggregate Base is inadequate place 4" of Class 5 aggregate. Restore subgrade by compaction with a hand operated vibratory compactor.
4. Place $\frac{1}{2}$ " isolation material only at ends of city blocks abutting pedestrian ramp areas or to isolate driveway concrete.
5. Clean in place vertical slab surface. Place structural concrete. Finish to grade, slope, and texture. Apply cure.
6. Restore joints by green sawing or hand tooling to match existing joint pattern.

BASIS OF PAYMENT

Measurement and payment shall be paid by the lineal foot for the type of curb and gutter section.

2301 Curb and Gutter Repair
(Type SA-CG) lin. ft.

DATE: AUG-24-2005

S.A.P. NO.

SHEET OF SHEETS