

SECTION 858

ADJUSTMENT OF CATCH BASINS, MANHOLES, DROP INLETS, METER BOXES AND VALVE BOXES

858-1 DESCRIPTION

Raise or lower existing catch basins, manholes, drop inlets, meter boxes and valve boxes encountered within the limits of the project to match the adjacent finished work.

858-2 MATERIALS

Refer to Division 10.

Item	Section
Asphalt Plant Mix	1020
Brick	1040-1
Concrete Block	1040-2
Curing Agents	1026
Grout, Type 3	1003
Joint Fillers	1028-1
Joint Sealers	1028
Mortar	1040-9
Portland Cement Concrete, Class B	1000
Precast Risers	1077
Reinforcing Steel	1070
Steps	1074-8

858-3 CONSTRUCTION METHODS

Perform the adjustment with brick masonry, block masonry or Portland cement concrete on existing walls in accordance with Subarticle 840-3(C).

Adjust manholes, meter boxes and valve boxes as provided above by using approved fittings. When fittings are used, leave the existing walls in place and securely attach the fittings to the existing walls or install in a manner that will eliminate movement of the fitting.

Backfill excavated areas in an existing pavement with Portland cement concrete. High early strength concrete may be used. Wait at least 72 hours after the placement of the concrete before placing any surfacing or resurfacing material over the concrete. This time period will not be required where the strength of the concrete is at least 2,500 psi as evidenced by nondestructive tests made in place by a rebound hammer in accordance with ASTM C805. Thoroughly compact backfill of other excavated areas.

In areas to be opened to traffic, construct a temporary ramp of asphalt plant mix 360° around the adjusted structures within one calendar day after completing the adjustment. Construct the ramp with a tapered slope of not less than one foot per inch of height in traffic sections with a speed limit of less than 35 mph and 1.5 feet per inch of height to a maximum of 3 feet from the structure in traffic sections with a speed limit of 35 mph or higher. Construct the ramp using any type of asphalt surface course plant mix meeting the requirements of any job mix formula issued by the Department for a Department project. Compact to an approved density.

Place bituminous plant mix flush with the top of the raised structure within 7 days after raising the structure.

Make the adjustments before the final layer of surfacing material is placed in areas to be surfaced or resurfaced. Salvage and reuse existing frames, grates, manhole covers, rings, meter boxes and valve boxes in the adjustment.

Section 859

858-4 MEASUREMENT AND PAYMENT

Adjustment of Catch Basins will be measured and paid in units of each for catch basins satisfactorily adjusted.

Adjustment of Drop Inlets will be measured and paid in units of each for drop inlets satisfactorily adjusted.

Adjustment of Manholes will be measured and paid in units of each for manholes satisfactorily adjusted.

Adjustment of Meter Boxes or Valve Boxes will be measured and paid in units of each for meter boxes or valve boxes satisfactorily adjusted.

Where any catch basin, drop inlet, manhole, meter box or valve box is adjusted more than once because of milling operations, multiple adjustments will be counted as one adjustment.

Where a catch basin, manhole, drop inlet, meter box or valve box is raised more than 2 feet, the number of linear feet exceeding 2 feet that such structure has been raised will be measured and paid per linear foot as provided in Article 840-4 for *Masonry Drainage Structure*. Measurement will be made by subtracting the elevation at the highest point of the original structure from the elevation at the highest point of the adjusted structure and then subtracting 2 feet from the results.

Such price includes, but is not limited to, excavation and backfilling, removal of a portion of the existing structure, brick masonry, mortar, grout, concrete, reinforcing steel, fittings, furnishing and hauling asphalt plant mix and any other materials and placing, maintaining, removing and disposing of traffic ramps.

Payment will be made under:

Pay Item	Pay Unit
Adjustment of Catch Basins	Each
Adjustment of Drop Inlets	Each
Adjustment of Manholes	Each
Adjustment of Meter Boxes or Valve Boxes	Each

SECTION 859 CONVERTING EXISTING CATCH BASINS, DROP INLETS AND JUNCTION BOXES

859-1 DESCRIPTION

Convert existing catch basins, drop inlets and junction boxes to catch basins, drop inlets or junction boxes, including all necessary construction and reconstruction in accordance with the contract.

859-2 MATERIALS

Refer to Division 10.

Item	Section
Brick	1040-1
Concrete Block	1040-2
Curing Agents	1026
Grout, Type 3	1003
Joint Fillers	1028-1
Joint Sealers	1028
Mortar	1040-9
Portland Cement Concrete, Class B	1000
Reinforcing Steel	1070