

Cobb County Water System Manhole Grade Adjustment Lowering of Existing to Accommodate Milling

The Contractor shall lower all existing manholes, as identified by the project engineer, prior to road surface milling operations. The following general guidelines shall apply (refer to Detail 03410 – 15 (A)):

- Accurately locate the manhole (if not currently visible) and its center. Reference and record location for subsequent adjustment.
- Mechanically core or saw cut the full depth of existing roadway around the manhole, or completely remove the concrete pad/patch if such exists.
- Remove the manhole frame and cover. Remove any existing manhole adjustments, i.e. adjustment rings, bricks, shims, etc.
 - All rings and covers shall be delivered to CCWS (contractor to coordinate directly with CCWS)
- Place an adequate sized steel traffic plate (min. 3' x 3' x 1") over the manhole structure.
 - Steel plate shall have a 3" diameter hole in the center
- All debris, including the manhole frame and cover shall be removed from the site.
 - Contractor shall protect debris from entering the manhole
 - Debris allowed to drop into sewer manholes shall <u>immediately</u> be removed to avoid the potential of sewer blockages.
 - Contractor shall notify CCWS dispatch if debris is observed in manhole
- Backfill with select granular material and compact to a level of 3-inches below the anticipated road surface milling depth.
- Place hot mix asphalt or quick-setting concrete to a level flush with the existing roadway surface.
- Following completion of the resurfacing of the roadway, CCWS will permanently adjust to grade each manhole.
 - Steel plates (owned by Resurfacing contractor) removed by CCWS during this operation will be taken to CCWS (contractor to coordinate directly with CCWS)
- Contractor(s) do not have to be pre-qualified with CCWS to lower manholes as part of this contract

Payment will be made under:

611-8999 Lowering Existing Manhole for Milling Per EA	
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DETAIL 03410 - 15 (A) COBB COUNTY WATER SYSTEM MANHOLE GRADE ADJUSTMENT

TEMPORARY LOWERING OF EXISTING MANHOLE TO ACCOMODATE ROADWAY MILLING OPERATION STEP 1

DECEMBER 3, 2009 AGENCY DIRECTOR CONTRACTOR TO RECORD EXACT LOCATION BEFORE STARTING WORK 3" MINIMUM (QUICK-SETTING MIX, GDOT QUALIFIED PRODUCTS LIST 27) EXISTING ROADWAY SURFACE (PRIOR TO PROPOSED MILLING OPERATIONS) — TEMPORARY STEEL TRAFFIC PLATE (PLATE SIZE LESS THAN DIMENSIONS OF NEW COLLAR) MINIMUM 6 GAB CO **EXISTING MANHOLE** PAD / COLLAR OR ROADWAY STRUCTURE COMPACTED BACKFILL STANDARD PROCTOR 98% FOR ALL LIFTS UP TO 12" BELOW SUBGRADE 100% FOR THE FINAL 12" PREVIOUS MANHOLE RING AND COVER ADJUSTMENTS **TOP OF MANHOLE** CONE SECTION TO
ACCOMMODATE "TYPE A "
MANHOLE GRADE ADJUSTMENT (TO BE REMOVED) LIMITS OF REQUIRED EXCAVATION RE-USED EXISTING MANHOLE SECTION ADDITIONAL 1 - FOOT PRECAST CONCRETE MANHOLE RISER SECTION IF NEEDED (W/ JOINTS SEALED AND GROUTED) **EXISTING MANHOLE** STRUCTURE