

Design Standards Letter

Letter Number: G-2000-08

Letter Date: 06/26/2000

Effective Date: 06/26/2000

Section/Plan No.: None

Subject: Contract Leveling Course Projects

Body

In order to coordinate and expedite the preparation of projects for the 2000-2001 Contract Leveling Course Program (formerly referred to as Maintenance Leveling Surface Program), we are requesting that all projects be prepared in English units and be submitted to General Headquarters Design by September 1, 2000. This will enable the bidding and contract services section to adjust the groupings, if necessary, and to appropriately schedule the bid opening dates.

To shorten the processing time, improve the quality of plans and to standardize procedures across the state, the following should be used when preparing plans in English units:

1. Each project should have, as a minimum, the following plan sheets:
 - a. Title Sheet, with north arrow pointing to the top of the sheet, if possible.
 - b. Length of Project Sheet - should include "exceptions."
 - c. Typical Section Sheet - should include "estimate factors."
2. The plans are placed in a proposal that contains a vertical format. The plans should read accordingly when possible. Original plans should be submitted using the format shown on Figure 6-05.1 of the *Project Development Manual*. To improve the quality of printing, please send originals not copies.
3. Do not break projects at district, county or city limit lines (short projects which abut should not be shown as separate projects).
4. Projects less than two (2) miles in length should have 268 square feet of construction signs. Projects greater than two (2) miles in length should have 288 square feet of construction signs.

5. Projects greater than 10 miles in length should be split into sections of 10 miles in length or less and should be shown as such on the plans, however do not split the estimate.

6. General Headquarters Design will assign all project identification numbers.

7. Attached is an acceptable sample copy. Templates for the location sketch, project length and typical section(s) are available electronically in Microstation format as attachments to this letter in the Design Standards Letters database.

Tack quantities are based on tacking the entire roadway surface at an estimated rate of 0.05 gallons/square yard. The asphalt binder for the contract leveling course mixture (surface leveling) should typically be PG 64-22. Other quantities to use are as follows:

Sec 402 BP-2 Mix BP-1 and

Description Unit Type Plant Mix Rates Rates Superpave Mix Rates

Asphalt Binder 0.1 Ton 45.0 Tons/Mile 43.0 Tons/ 60.0 Tons/Mile
(Course Leveling) Mile

Mineral Aggregate 1.0 Ton 705 Tons/Mile 757 Tons/ 1080 Tons/Mile
(Course Leveling) Mile

Tack Coat 10.0 Gallon 585 Gallons/Mile 585Gallons/ 585 Gallons/Mile
Mile

The above rates are based on state wide average estimate factors for 750 Tons/Mile of 20 foot traveled way compacted Plant Mix Bituminous Surface Leveling mixture, 800 Tons/Mile of 20 foot traveled way compacted Plant Mix Bituminous Pavement (BP-2) mixture and 1140 Tons/Mile of 20 foot traveled way compacted Plant Mix Bituminous Pavement (BP-1) or Superpave mixture. Rates for individual projects will vary should be are shown on the typical section sheets for the project. Minimum thickness for BP-2 mixtures should be 1 ¼ inches, and for BP-1 and Superpave mixtures 1 ¾ inches. The calculated rates for the BP-2, BP-1 and Superpave mixtures reflect these thicknesses accordingly.

The following table should be used as a guide for selecting bituminous mixtures for contract leveling course projects. If the district elects to use a mixture other than what is specified, the project manager should submit by letter to General Headquarters Design the justification for specifying a different mixture or thickness than given in the table. In addition, at the bottom of the letter an approval signature block similar to that on the Design Exception Information Form should be provided for the State Design Engineer.



**Bituminous Mixtures Criteria
for Contract Leveling Course Projects**

<u>Corridor Designation</u>	<u>Traffic</u>	<u>Recommend Mix & Thickness</u>
Light Duty	ADT \leq 1750	1" Sec 402 Mixture
Light Duty	1750 < ADT \leq 3500	1 1/4" BP-2 * (Sec 401)
Light Duty	ADT > 3500 and Total Average 24 Hour Commercial Truck Traffic \leq 400	1 3/4" BP-1 (Sec 401)
Light Duty	ADT > 3500 and Total Annual Average 24 Hour Commercial Truck Traffic > 400	1 3/4" SP125LD
Medium Duty	All traffic	1 3/4" SP125MC
Heavy Duty	All traffic	1 3/4" SP125HB
*If the district feels warranted, a 1 3/4" BP-1 (Sec 401) mixture may be substituted for this application.		

If special situations require limiting loads on a given route, a "Haul Road Restriction" special provision will be considered on a project by project basis. Otherwise, the only load restrictions, other than the 80,000 pound legal load limit, will be any posted bridge load limits.

Traffic control plans, revised standard plans and job special provisions will be inserted by General Headquarters Design.

Copies of the traffic control sheets are available on district servers. The pay item and quantities should be provided for temporary raised pavement markers to mark the entire project. The pay item 612-90.40, Installing "No Center Stripe" Signs, per each should be included with the quantity needed to sign the entire project. On contract leveling jobs, final pavement marking should be provided by Traffic personnel, or if elected by the district, included as part of the work in the contract.

Please contact General Headquarters Design if you have any questions.

pm/sb

Attachments



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