

**TABLE 1 PROPOSED REVISIONS FOR EDITION 13 OF
HIGHWAY STANDARD SPECIFICATIONS – Final**

A. Standard Specifications
<p><u>Specification 1.2 General Specifications</u></p> <ul style="list-style-type: none"> i) 1.1.3 include definition for sign structure and standard bridges ii) Add 1.1.20 “Total Tender” shall mean the sum of all the extensions of all the bid items in the unit price schedule in the original signed Contract. iii) Section 1.2.2.2.1 Conditions for Unit Price Adjustment, defined what constitutes a major bid item for over-runs and under-runs. iv) 1.2.5.2 Safety Prequalification, add reference to Alberta Human Resources and Employment, Workplace Health and Safety. v) 1.2.5.2 and 1.2.44.2, all reference to Alberta Human Resources and Employment changed to Alberta Employment, Immigration and Industry. vi) 1.2.7.2, add page break after 1.2.7.2 (iii) to clarify intent. vii) 1.2.17.3 Compensation For Standby, correct reference to section 1.2.55 to section 1.2.54 Claims and Dispute Resolution. viii) Sections 1.2.19 & 1.2.20. Include micro-surfacing. ix) 1.2.20 Failure to Complete on Time changed “liquidated damages” to “damages for delay”, separated out Actual loss or damages and replaced “pay” with “provide” in (i) and (ii). x) Section 1.2.26 Release of Holdback, correct reference from 1.2.54 to section 1.2.53 xi) Section 1.2.31 Stakes, Marks and Engineering Tests, correct reference to section 1.2.54 xii) Section 1.2.40 – Additional requirements for scale shack, scale accuracy inspection, loading procedures and verification testing by the Consultant. xiii) Section 1.2.44.2 Worksite Hazards. Remove requirement to submit safety policies, plans or procedures to OH&S. xiv) Section 1.2.49.1 – all costs for locating buried facilities within the right of way that are not part of One Call should be paid as extra work. xv) Section 1.2.49.2 all costs for locating buried facilities within the right of way that are not part of One Call should be paid as extra work. xvi) Section 1.2.49.3 Contractor responsible for obtaining utility crossing agreements in borrow and borrow haul roads. No separate payment. xvii) Section 1.2.49.4.6 change “Track Supervisor” to “Track Maintenance Supervisor” xviii) Section 1.2.49.4.6 add “that is acceptable to the railway company as special training is required for a railway flagperson.” xix) Section 1.2.50 Environmental Management updated to new regulations and manuals. xx) Section 1.2.54.1.2 Resolution of Claims, removed last sentence in third paragraph.

**TABLE 1 PROPOSED REVISIONS FOR EDITION 13 OF
HIGHWAY STANDARD SPECIFICATIONS – Final**

	<p><u>Specification 2.1 Clearing</u></p> <p>i.) Incorporate the commonly used “Mulching” SP into standard spec</p>
	<p><u>Specification 2.3 Grading</u></p> <p>i.) Benching requirements outlined in section 2.3.4.7.3.1 required for any cuts greater than 2 m in depth.</p> <p>ii.) Lime for drying specification amendment incorporated into sections 2.3.4.7.3.1 and 2.3.6.13.5.</p>
	<p><u>Specification 2.4 Culverts</u></p> <p>i.) Sections 2.4.3.2.1 and 2.4.3.2.2 - Changes to the amount of minimum cover will be as directed by the Consultant.</p> <p>ii.) Revised to include pre-cast reinforced concrete box culverts.</p> <p>iii.) Section 2.4.3.5.4 – Grouting to start at the upstream end of the culvert.</p>
	<p><u>Specification 2.19 Guardrail and Guide Posts</u></p> <p>Including the use of Type IV sheeting material</p>
	<p><u>Specification 2.25 Highway Street Lighting</u></p> <p>CEMA references are replaced with NEMA (National Electronics Manufacturers Association)</p>
	<p><u>Specification 2.26 Traffic Signals</u></p> <p>Incorporated Supplemental Specification into Specifications.</p>
	<p><u>Specification 3.2 Aggregate Production and Stockpiling</u></p> <p>i.) Table 3.2.3.2(B) included the 8 000 µm sieve.</p> <p>ii.) Table 3.2.3.2 (C) – Revised QC testing frequencies for sieve analysis and detrimental matter content. Testing requirements included for uncrushed fine fraction(s).</p> <p>iii.) Section 3.2.3.3 – Stacking conveyors not to be allowed for Des 3-12.C or 16 aggregates and all Des 4.</p> <p>iii.) In section 3.2.4.2 Interim Crushing ..., clarified that the ASBC rate of 35% is in addition to the \$3.25 per tonne provided for crushing and stockpiling</p> <p>iv.) New interim & surplus crush rates.</p>
	<p><u>Specification 3.6 Granular Base Course</u></p> <p>Section 3.6.4.2 – nominal lift thickness shall not be less than 100 mm.</p>

**TABLE 1 PROPOSED REVISIONS FOR EDITION 13 OF
HIGHWAY STANDARD SPECIFICATIONS – Final**

	<p><u>Specifications 3.24 Chip Seal Coat, 3.26 Micro-Surfacing & 3.22 Double Seal Coat</u> Revisions handled through a separate tri-party task group under the direction of the Operations Committee. Not here included, previously circulated to industry.</p>
	<p><u>Specification 3.26 Micro-Surfacing</u> Incorporated Supplemental Specification into Specifications.</p>
	<p><u>Specification 3.40 Cutting of Pavement</u> Incorporated Supplemental Specification into Specifications.</p>
	<p><u>Specification 3.50 ACP - EPS</u></p> <ul style="list-style-type: none"> i.) Section 3.50.2.4 Reclaimed pavement used in ACP mixtures not to contain sulphur or other additives. ii.) In 3.50.2.1 revise the AASHTO reference to “Appendix A of AASHTO M323”. iii.) In Table 3.50.3.2, revise 2 face fracture count to 70% and Marshall Stability to 10 000 N for S3 mix type. iv.) In 3.50.3.4, the number of JMF alterations is limited prior to the need for a new mix design submission. v.) Section 3.50.4.4.2.2 - Profilograph testing no longer required for highways with a posted speed limit less than 70 kph. Roughness induced by man holes, etc. may be excluded by the Consultant. Three metre straightedge to be used to determine localized surface irregularities (obvious defects). Table 3.50 C also revised, the 35 mm thickness column reference is increased to 45 mm. vi.) Section 3.50.4.5 – Clarify that sublots to be tested again and assessed for smoothness after the one attempt to improve smoothness. vii.) The bonus/penalties for aggregate gradation listed in Section 3.50.4.6 and Table 3.50 F are both doubled to remain relevant with recent price increases for ACP. Net \$ effect to the Department remains the same, i.e. total penalty \$ roughly equal to total bonus \$. viii.) Appeal testing costs in section 3.50.4.8.4 are increased to more closely reflect current rates. ix.) Segregation caused by paver screed drag will not be assessed for segregation adjustments (section 3.50.7.1.2) but will be listed as an obvious defect requiring repair (3.50.6.3). x.) Bonus/penalty rates for pavement compaction in Table 3.50 A are all doubled in line with recent increases in ACP prices. Impact on the Department is for the net bonus payments to double from \$480,000 (2006) to roughly \$960,000 per year.

**TABLE 1 PROPOSED REVISIONS FOR EDITION 13 OF
HIGHWAY STANDARD SPECIFICATIONS – Final**

	<p><u>Specification 3.50 ACP – Superpave</u></p> <ul style="list-style-type: none"> i.) Same revisions as per Spec 3.50 except reference to S3 mixes (These revisions are not yet added to Specification 3.53). ii.) Section 3.53.3.2 – Updated reference to new AASHTO Superpave design procedure. iii.) Section 3.53.2.2 – Reference to restricted zone removed and replaced with Primary Control Sieve to designate “coarse” and “fine” graded mixes. iv.) Moisture Susceptibility requirements in section 3.53.3.2.3 revised to reflect mandatory freeze-thaw conditioning contained in latest version of AASHTO T 283.
	<p><u>Specification 4.2 Concrete Curbs, Sidewalks, Medians and Traffic Islands</u></p> <ul style="list-style-type: none"> i.) Class of concrete changed to “C” from “B” ii.) Section 4.2.2.5 Curing and Sealing Compounds. Sealing compounds not to be used unless otherwise specified.
	<p><u>Specification 4.5 Hauling</u></p> <ul style="list-style-type: none"> i.) Section 4.5.3.2 – Clarify that load restrictions, when applicable apply to haul roads and portions of the highway within the construction contract limits.
	<p><u>Specification 5.2 Supply of Aggregate</u></p> <ul style="list-style-type: none"> i.) Section 5.2.4.2 – Requirements outlined for installation and maintenance of pit warning signs for Department aggregate sources. ii.) Section 5.2.4.2 – Overburden requirements are further defined in regards to topsoil, subsoil and inorganic overburden. iii.) Section 5.2.4.2 – Requirements are outlined for the disposal of construction materials and asphalt materials.
	<p><u>Specification 5.5 Supply of Portland Cement Concrete</u></p> <ul style="list-style-type: none"> i.) 5.5.1.2 - Revised design table to include a “pile” class and revised entrained air content of 4 to 7% for 28 mm aggregate as per CSA A23.1 -04. ii.) 5.5.2.7 – Fly ash characteristics and criteria outlining when it may be used. iii.) 5.5.3.2 Aggregate Tests and Concrete Mix Design – New section based upon that used in the Bridge specifications. Aggregate testing and reporting requirements reduced to reflect the service expectations and the lower quantities of concrete used. Minimum cement content requirement added. iv.) In section 5.5.3.6 curing and protection requirements are revised to be more in line with CSA A23.1-04. v.) Section 5.5.4.4 added, based upon CSA A23.1 and the AIT bridge specifications to deal with slump and air content outside of the specified range.
	<p><u>Specification 5.7 Supply of Asphalt</u></p> <p>Updated references to ASTM test procedures for the emulsified asphalt products.</p>

TABLE 1 PROPOSED REVISIONS FOR EDITION 13 OF HIGHWAY STANDARD SPECIFICATIONS – Final

	<p><u>Specification 5.16 Supply of Precast Concrete Pipe and Precast Concrete Box Culvert</u> Specification re-titled and revised to include precast box culverts</p>
	<p><u>Specification 5.24 Supply of Polyethylene Pipe</u> Included requirement for Closed Profile Pipe and Open Profile Pipe.</p>
	<p><u>Specification 5.31 Geotextile</u> Incorporated Supplemental Specification into Specifications.</p>
	<p><u>Specification 6.10 Gabions and Gabion Mattresses</u> Incorporated Supplemental Specification into Specifications.</p>
	<p><u>Specification 6.5 Permanent Environmental Protection Devices</u> Incorporated Supplemental Specification into Specifications.</p>
	<p><u>Specification 7.1 Traffic Accommodation and Temporary Signing</u> Section 7.1.7 – Requirement for flagpersons to wear headgear at all times. Hard hats to be worn based upon safety assessment completed by the Contractor. Current requirement is hardhats at all times.</p>
B. Specification Amendments, Standard Special Provision	
	<p><u>Specification Amendment – Truck Haul Registry</u> AMC_S231 new requirements for all haul trucks to belong to ASGA Truck Registry.</p>
	<p><u>Specification Amendment – Construction Staking and Survey Majority by Contractor</u> AMC_S53.1 add wording that deals with base and paving activities but doesn't imply that the Consultant is putting the centerline nails and string line.</p>
	<p><u>Specification Amendment – Construction Staking and Survey Majority by Consultant</u> AMC_S53.2 add wording that deals with base and paving activities</p>
	<p><u>Specification Amendment – Diesel Fuel Cost Adjustment</u> AMC_C230 incorporate supplemental specification into specification amendments.</p>

s:\ceb\specifications\construction specifications\version 13 - 2007\summary of changes.doc