

## **ROADWAY AND TRAFFIC DESIGN STANDARDS (METRIC UNITS).**

### **(REV 7-31-00) (1-02)**

SUBARTICLE 5-1.1 (Page 26). The “Roadway and Traffic Design Standards” booklet for Metric Units, dated January, 2000, is modified as follows:

Revision Sheet, Index No. 517, “GENERAL NOTES – Note 4 added” – Index deleted and entry deleted.

Index No. 199 (Sheet 1 of 1) - Sheet deleted and sheet Interim Index No. 0199 (Sheet 1 of 1) substituted.

Index No. 0199 (Sheet 1 of 1) – Interim index sheet titled ‘GEOTEXTLE CRITERIA’, sheet to be inserted in the plans when applicable.

Index No. 231(Sheet 2 of 2), ‘GENERAL NOTES’, note 7-Note deleted.

Index No. 287 (Sheet 2 and 3 of 3) - All surfaces tagged ‘Type S’ and references to ‘Type S’ are deleted and Type SP substituted.

Index No. 302 (Sheet 1 of 1), ‘TYPE IV CONCRETE TRAFFIC SEPARATOR’, ‘OPTION II’, and ‘TYPE I CONCRETE TRAFFIC SEPARATOR’, ‘OPTION II’, notations ‘No Extra Payment For Pavement’ – notations deleted and the following notations substituted: Cost Of The Flexible Pavement Under The Option II Separator Included In The Cost Of The Separator.

Index No.305 (Sheet 5 of 5), joints labeled ‘Expansion Joint’ – ‘Expansion Joint’ deleted and label Contraction Joint substituted.

Index No.400 (Sheet 1 of 31), ‘GENERAL NOTES’, note 8 – Word ‘curved’ in second line deleted and word ‘curbed’ substituted.

Index No. 400 (Sheet 12 of 31), ‘ELEVATION’ view, tagged notes to ‘Railing Barrier’ and ‘Guardrail Payment’ dimension lines – Notes deleted and the following notes substituted in respective order: See Structures Standard Drawing Index Nos. 700, I-790 and I-795 For Barrier End Details; and, Guardrail Transition And Connection Cost To Be Included In the Contract Price For The Approaching Guardrail System; No Additional Payment For Guardrail Bridge Anchorage Assembly, Thrie Beam Panels, Nested Panels, W-Thrie Beam Transition Panel, Back-up Plate, Filler Plate and Accessories.

Index No. 400 (Sheet 13 of 31) – Sheet deleted and sheet Interim Index No. 0400 (Sheet 13 of 31) substituted.

Index No. 0400 (Sheet 13 of 31) – Interim index sheet subtitled ‘DETAIL E’; sheet to be inserted in the plans when Index No. 400 applicable.

Index No. 400 (Sheet 16 of 31), ‘STEEL MODIFIED THRIE-BEAM OFFSET BLOCK’, height dimension ‘554’ – ‘554’ deleted and 432 substituted; all hole sizes and locations remain the same and the v-notch size, shape and position remain the same but in location relative to the bottom of the 432 mm block.

Table ‘PERMISSIBLE POST AND OFFSET BLOCK COMBINATION’, all references to ‘554’ for length of steel modified offset block – ‘554’ deleted and 432 substituted.

Index No. 400 (Sheet 19 of 31), ‘THRIE-BEAM TERMINAL CONNECTOR’ – The six (6) interior 24 by 45 mm slots rotated to match the orientation of the six (6) end slots.

Index No. 400 (Sheet 24 of 31), ‘CONTROLLED RELEASE RETURN NOTES’, note 1, last line-Insert SKT.

Index No. 400 (Sheet 26 of 31)-Sheet deleted and sheet Interim Index No. 0400 (Sheet 26 of 31) substituted.

Index No. 0400 (Sheet 26 of 31)-Interim index sheet subtitled ‘END ANCHORAGE ASSEMBLY TYPE SRT-350 (8 POST SYSTEM)’; sheet marked REVISED 05/05/00 to be inserted in the plans when Index No. 400 applicable.

Index No. 400 (Sheet 29 of 31) – ‘END ANCHORAGE ASSEMBLY TYPE SKT-350’, ‘ELEVATION’ view and footnote ‘Do Not Attach Rail To Block At Post Locations 3, 5 and 7, and, Rail To Post At Post No. 1. ‘ – Post bolts required and to be indicated at Posts Nos. 3, 5 and 7; the text in the footnote to be deleted and text ‘Do Not Attach Rail To Post At Post No. 1.’ substituted.  
‘SECTION BB’, ‘Note: Do not attach rail to block at post locations 3, 5 and 7.’ – Note deleted.

Index No. 400 (Sheet 30 of 31), ‘ELEVATION’ and ‘PLAN’ views-Arrow tag to second (middle) beam deleted; label ‘Standard 3.81 m Rail’ and arrow tag added to second (middle) beam.

‘END ANCHORAGE ASSEMBLY TYPE FLEAT-350’, ‘SECTION BB’, ‘Note: Do not attach rail to block at post locations 3, 5 and 7.’ – Note deleted.

Rail is not attached Post No. 3 as stated in other footnotes.

Index No. 401 (Sheet 1 of 9), ‘GENERAL NOTES’, note 10-Text “See Index 400 Detail N for limit of guardrail measurement.” deleted.

Index No. 415 (Sheet 3 of 4), note ‘3.’ – Text ‘without expressed approval by the Engineer’ and text ‘such substitutions’ deleted.

Index No. 417 (Sheet 1 of 1), 'NOTES FOR TEMPORARY INERTIAL CRASH CUSHION,' note '1.', last sentence – Text 'without expressed approval by the Engineer' and text 'such approved substitutions' deleted.  
note 5 – Text "The cost of object Marker shall be included in the contract price for the modules." added.

Index No. 452 (Sheet 1 of 2), notations tagged to '14 Ga. Tension Bands'-Spacing dimension '(≤180)' deleted and dimension '(≤380)' substituted.

Index No. 461 (Sheet 1 of 1), 'GENERAL NOTES', note 2, end of line three (3)-16 mm added.

Index No. 501 (Sheets 1 thru 8 of 8)-Interim index subtitled 'GEOSYNTHETIC REINFORCED SOILS' to be inserted in the plans when applicable.

Index No. 510 (Sheet 2 of 3), 'SHOULDER CONSTRUCTION WITH SUPERELEVATION', notation 'SHOULDER ON HIGH SIDE:', Second paragraph-Paragraph deleted.

Index No. 514 (Sheet 1 of 2), base group table, column 7 – "ABC-3 (Min. Marshall Stability 4500N)" heading deleted and heading 'Type B-12.5 (ABC-3)' substituted; and, column 8 – "ABC-3 and 100 mm Granular Base, LBR-100\*" - heading deleted and heading 'Type B-12.5 (ABC-3) and 100 mm Granular subbase, LBR 100\*' substituted.

"GENERAL NOTES", note 4; and; asterisk (\*) notation, lines one(1) and line four (4) – text "ABC-3" deleted and text 'Type B-12.5 (ABC-3)' substituted.

Index No. 520 (Sheet 2 of 2), 'ALUMINUM PIPE HANDRAIL NOTES', note 1-Note text deleted and the following text substituted: This handrail is applicable to mountings on walls and other roadway structures subject to pedestrian use where dropoffs do not exceed 760 mm; and, applicable to select uses on sidewalks, within service areas and similar locations where foundation support and anchorage are adequate or can be provided.

Also the following notes are added: 'DESIGN NOTES' and note 1. For dropoffs that exceed 760 mm, handrails for customary applications are provided in Structures Standard Index No. 850. For unusual site conditions where handrails are needed, the handrails are to be designed site specific by the responsible engineer.

Index No. 600 (Sheet 5 of 11), 'SPEEDING FINES DOUBLED WHEN WORKERS PRESENT SIGN', second paragraph-Paragraph deleted and the following text substituted: The placement should be 150 meters downstream of the first ROAD WORK sign or midway to the next sign whichever is less.

Index No. 600 (Sheet 8 of 11), 'CHANNELIZING AND LIGHTING DEVICE NOTES,' note 9.3.-Word 'sole' deleted.

Index No. 600 (Sheet 9 of 11), subtitle 'LANE DROP AND LANE SHIFTS-PLAN SHOWN FOR RIGHT LANE MERGE LEFT-INVERTED PLAN FOR LEFT LANE MERGE RIGHT', notation 'Reflectorized Pavement Markings:', last line-Text 'Or, Lane Line (No Passing)' deleted.

Index No. 600 (Sheet 11 of 11), 'NOTES', note 1, second sentence-Sentence extended by the following text: 'with the exception that Class D markers be placed at a maximum spacing of 5' center to center.'

Index No. 602 (Sheet 1 of 1), 'GENERAL NOTES,' note 3, line one-Delete word 'vehicles' and substitute 'work vehicles'

Index No. 628 (Sheet 1 of 1), GENERAL NOTES,' note1.-Text 'one traffic lane' deleted and text 'two-way left turn' substituted.

Index No. 631 (Sheet 2 of 2)-Sheet deleted and Interim Index No. 0631 (Sheet 2 of 2) substituted.

Index No. 0631 (Sheet 2 of 2)-Interim index sheet subtitled 'TEMPORARY CROSSOVER FOR MEDIAN WIDTHS FROM 15.3 m to < 22.5 m'; sheet to be inserted in the plans when Index No. 631 applicable.

Index No. 640 (Sheet 2 of 2),'GENERAL NOTES,' note 5-Note text deleted and the following text substituted: "Warning devices shall be in conformance with 'DROPOFFS IN WORK ZONES', Index No. 600."

In the plan view, notation 'White Reflectorized Pavement Markings', 'Yellow Reflectorized Markings'-Text in parenthesis deleted and the text "(Double Line reflectorized marking in no-passing zones)" substituted.

Index No. 650 (Sheet 1 of 2), 'PHASE I', note 2.-Text deleted and text 'Construct temporary structure, approaches and guardrail; and, construct crash cushions at each end of truss if center truss constructed.' Substituted.

Notation tagged to 'END ROAD WORK' sign, line 3-Kilometer value '3.2' deleted and value '1.6' substituted.

'Phase II', notation tagged to R4 7 sign-Text 'To Protect Center Truss' is deleted and text 'if center truss constructed' substituted.

Index No. 650 (Sheet 2 of 2), 'GENERAL NOTES', note 7-Text 'Index No. 415' deleted and text 'Index No. 435' substituted.

Index No. 5012 (Sheet 20 of 20), X-5, Superimposed sheet image-Image deleted.

Index No. 11860 (Sheet 2 of 3), note 'SIGN PANEL', text '3 mm' – '3 mm' deleted and 2 mm substituted.

Index No. 17352 (Sheet 2 of 2), 'TRAFFIC LINES', inset-The color of the RPM's on the lane lines at the stop line is changed from "Mono-Colorless" to "Bi-directional Colorless/Red".

Index No. 17355 (Sheet 8 of 12), 'FTP-62'-Last line of legend is changed from "\*347" to "(347)".

Index No. 17500 (Sheet 1 of 3)-The following note is added: POLE CABLE NOTE, The Duraline Division of the J.B. Nottingham Company (Duraline) claims exclusive rights to the wiring design illustrated in this drawing under U.S. Patent 5,335,160. Any infringement on the rights claimed by Duraline shall be the sole responsibility of the Contractor or Supplier infringing on the rights claimed by Duraline.

Barrier wall or bridge mounted poles: The wiring shall be in accordance with Section 992 of the Standard Specifications.

Index No. 17502 Sheet 2 of 4-Add the following heading and text below "POLE SPECIFICATIONS" text and 'Note': ALTERNATE POLE: A spun high mast prestressed concrete pole listed on the Qualified Products List may be substituted for a steel pole with approved shop drawing and calculations. If the concrete pole is provided as a substitute for the steel pole, payment will be made under the items bid for steel poles and associated foundations and plan quantity of these items will be the basis for payment.

Index No. 17725 (Sheet 1 of 1) – Sheet deleted and sheet Interim Index No. 017725 substituted.

Index No. 017725 (Sheet 1 of 1) – Interim index sheet to be inserted in the plans when applicable.

Index No. 17740 (Sheets 1 & 2 of 2) – New index; sheets to be inserted in the plans when traffic signal mast arms are applicable.

Index No. 17742 (Sheet 1 of 1) – New index; sheet marked 'Revised 05/05/00' to be inserted in the plans when traffic signal mast arms are applicable.

Index No. 17744 (Sheets 1-5 of 5) – New index; sheets to be inserted in the plans when traffic signal mast arms are applicable.

Index No. 017900 (Sheet 1 of 1) – Supplemental sheet to Index No. 17900 for inclusion in the plans when Microwave Radar Sensors, Type II used.