

DESIGN STANDARDS MODIFICATIONS

(2004 Booklet)

(English Units)

Effective Date: January 1, 2006

NOTE: Interim Indexes listed in these Modifications may be viewed by going to www.dot.state.fl.us/rddesign and clicking on “Design Standards”.

Index No. 104 (Sheet 1 of 2), under the “WILDFLOWERS SEEDING RATE” chart add the following footnote: “Wildflower seeding rates are for restoring impacted wildflower areas.”

Index No. 199 (Sheet 1 of 1), “MIN GRAB TENSILE STRENGTH kN”, “MIN SEWN STRENGTH kN/M”, “MIN PUNCTURE kN” and “MIN TRAPEZOIDAL TEAR kN” - All “>50%” values deleted and “≥50%” values substituted.

Index No. 200 (Sheet 1 of 2), “GENERAL NOTES”, Note 3, “ 96” deleted and “96” substituted.

Index No. 201 (Sheets 4 & 5 of 6), are deleted and Interim Index No. 0201 (Sheets 4 & 5 of 6), Dated 07-01-05 are substituted.

Index No. 206 (Sheet 1 of 2), “GENERAL NOTES”, Note 1 deleted and the following note substituted:

“1. Trench drain is intended for use in gutters and driveways as shown on the typical locations on Sheet 2. Type I is intended for use in Type E, F and drop curbing, and adjacent to traffic separators and standard barrier walls. The width of the channel grate for Type I Trench Drain shall be 1 3/4” throughout the length of its application. The linear slope or gradient for Type I may be manufactured by varying the depth of the channel neck. Type II may also be used in those locations if an independent laboratory certifies that the grating used has an open area equal to at least 0.27 square feet per linear foot. Type II is primarily intended for use in valley gutter across driveway openings and drop curbing; Type I may also be used in those locations. The width of the channel grate for Type II Trench Drain shall be the same as the width of the channel. The linear slope or gradient for Type II may be manufactured by varying the depth of the channel. Trench Drain shall not be placed in designated pedestrian paths unless ADA compliant grates are used.”

Note 8 deleted and the following note substituted: “Payment to be made under the contract unit price for Trench Drain, LF.”

“DESIGN NOTES” - Note 3, the following sentence added: “Grate Type I and Type II must have at least 30% open area.”

“PREFORMED POLYETHYLENE ALTERNATE”, Section Line A-A deleted.

“ROUND CSP ALTERNATE”, Section Line B-B deleted.

Index No. 232 (Sheet 1 of 5) is deleted and Interim Index No. 0232 (Sheet 1 of 5), Dated 07-01-05 is substituted.

Index No. 260 (Sheet 1 of 1), “GENERAL NOTES”, Note 4 - Text “With Grate” deleted from the first sentence.

Index No. 261 (Sheet 1 of 3), “GENERAL NOTES”, Note 9 deleted and the following note substituted:

“9. Endwall to be paid for under the contract unit price for U-Endwall, Each. Payment shall include cost of concrete, reinforcing steel, and when called for in the plans, steel grating and accessories. Quantities shown are for estimating purposes only.”

“ENDWALLS FOR 2:1 SLOPES”-text “2:1” deleted and “1:2” substituted.

Index No. 280 (Sheet 2 of 4), “GUARD AT PIPE ENDS”, “Note” text “for Endwall Grate, LB” deleted and “Reinforcing Steel (Miscellaneous)” substituted.

“CONCRETE GUTTER AND DRAINS AT RETAINING WALLS”-“Note:” text deleted and the following text substituted: “PVC pipe, Schedule 40, to be paid for under the contract unit price for Polyvinyl Chloride Pipe Culvert (4”), LF.”

Index No. 287 (Sheet 1 of 3), “GENERAL NOTES FOR CONCRETE PAVEMENT SUBDRAINAGE”, Note 8, text “Type S” deleted and “Type SP” substituted.

“ALIGNMENT OF OUTLET PIPE” “Type S” deleted and “Type SP” substituted in two places.

Index No. 287 (Sheet 2 of 3), “NOTES FOR DRAINCRETE PAVEMENT SUBDRAINAGE”, Note 1 - Text” Alternate #1” deleted.

“FOR REHABILITATION:”, Note 1, paragraph 4 - Text “Tack coat shall be paid for under the contact unit price for Bit Mat’1 (Tack Coat), GA.” deleted.

Index No. 304 (Sheets 1 thru 5 of 5), “PUBLIC SIDEWALK CURB RAMPS” is deleted and Interim Index No. 0304 (Sheets 1 thru 6 of 6) Dated 01-01-05 is substituted.

Interim Index No. 0304 (Sheet 1 of 6), Detail in lower left corner, the note “When crosswalk markings - -” is deleted and the following note substituted: “When crosswalk markings are required, ramp runs must fall within crosswalk limits and where practical, be parallel with the projected crosswalk alignment. The bottom of the ramp beyond the curb line shall have a clear space 48” minimum within the markings of a marked crosswalk. If no crosswalk markings are present, the bottom of the ramp beyond the curb ramp shall have a clear space 48” minimum outside active traffic lanes.”

Index No. 310 (Sheet 1 and 2 of 2), under Note 5, Sheet 1 and under Note 4, Sheet 2, add the following: “When the plans show construction of handrail on a sidewalk and requires the construction of an edge beam for attachment of the handrail, cost of the edge beam is to be included in the price of the sidewalk.”

Index No. 310 (Sheet 1 of 2), “SECTION AA” Sidewalk surface cross slope “0.02” deleted and “0.02 Max” substituted.

“SIDEWALK WITH UTILITY STRIP” plan view walkaround dimensions “3’ Min” deleted and the following substituted: “4’ Std., May be reduced to 3’ Min. in restricted conditions when approved by the Engineer.”

“SECTION BB” Sidewalk surface cross slope “0.02” deleted and “0.02 Max” substituted.

“SIDEWALK WITHOUT UTILITY STRIP” plan view walkaround dimensions “3’ Min” deleted and the following substituted: “4’ Std., May be reduced to 3’ Min. in restricted conditions when approved by the Engineer.”

Index No. 310 (Sheet 2 of 2), “SECTION CC” Sidewalk surface cross slope “0.02” deleted and “0.02 Max” substituted.

Index No. 400 (Sheet 1 of 31), “GENERAL NOTE”, Note 7 - Text “General Note No. 10” deleted and “General Note No. 11” substituted.

“GENERAL NOTES”, Note 6, add the following text: “Guardrail end anchorage assemblies shall be of the type called for in the plans. If the plans call for end anchorage assembly “flared” and does not identify the specific system(s) to be used, the contractor has the option to construct any FDOT approved flared assembly provided in this Index or identified on the Qualified Products List (QPL), subject to the conditions identified in the approved Index drawings, or QPL drawings if applicable.

If the plans call for end anchorage assembly “parallel” and does not identify the specific system(s) to be used, the contractor has the option to construct any FDOT approved parallel assembly provided in this Index or identified on the QPL, subject to the conditions identified in the approved Index drawings, or QPL drawings if applicable.

If the plans call for a specific end anchorage assembly, substitutions with other end anchorage assemblies will not be permitted unless approved by the Engineer. Approved substitutions will not be eligible for VECP consideration.

When an end treatment is attached to guardrail with Pedestrian Safety Treatment, only end treatment systems with timber posts are to be used.

Proprietary end anchorage systems must be identified on the QPL. Manufacturers seeking approval of proprietary end anchorage systems for inclusion on the QPL must submit application along with design documentation showing the end anchorage system is crash tested to NCHRP Report 350 Test Level 3 criteria, is accepted by FHWA for use as a guardrail end anchorage system, and is compatible with FDOT guardrail systems. System approvals will be contingent on FDOT’s evaluation of crash test performance results for

consistency with FDOT guardrail application and use. If approved, installation drawings signed and sealed by a professional engineer licensed in the State of Florida will be required.”

Index No. 400 (Sheet 4 of 31), “GUARDRAIL APPLICATION FOR NARROW MEDIAN AND GORE HAZARDS” - Notation text referring to “General Note No. 13” deleted and “General Note No. 14” substituted. Text “*1:10 Taper Rate For Design Speeds \leq 45 mph, 1:15 Taper Rate For Design Speeds \geq 50 mph” added.

Index No. 400 (Sheet 15 of 31), “STEEL MODIFIED THRIE-BEAM OFFSET BLOCK”, “SIDE VIEW” – Text “M14x17.2” deleted and “M14x18” substituted.

“PEDESTRIAN SAFETY TREATMENTS”, under Note 1 add the following: “Refer to Sheet 1, Note 6 for end treatment requirements.”

Index No. 400 (Sheet 17 of 31), “5/8” OVAL SHOULDER BUTTON HEAD BOLT” - in table under “APPLICATION” for 10” bolt, text added as follows: “As an option, a single 25”* long post bolt may be used.” Under “APPLICATION” for 25” bolt, text added as follows: “Double Faced Guardrail Steel Posts.”

“5/8” STEEL WASHER”, at the end of the second sentence of the note add: “and under hex nut for connecting rubrail to wood and steel posts.”

Index No. 400 (Sheet 18 of 31), “THRIE-BEAM”, Notation text “Anchor Plate” deleted and “Post Bolt Slot” substituted.
“GALVANIZED STEEL BACK-UP PLATES FOR CONNECTING SPECIAL END SHOES AND TERMINAL CONNECTORS TO CONCRETE BRIDGE TRAFFIC RAILING BARRIERS AND CONCRETE BARRIER WALLS”, “THRIE-BEAM TERMINAL CONNECTOR”, dimension “20”” deleted and “21”” substituted.
Dimension “2 3/8”” deleted and “2 7/8”” substituted.

Index No. 400 (Sheet 24 of 31), “ET 2000 NOTES”, Note 6, Paragraph (b), second and third line, text “two parallel 3” x 3” x 1/4” steel angles, one angle each side between Post No. 1 and No. 2.” deleted and text “one 3” x 3” x 1/4” steel angle on the back side between Post No. 1 and No. 2.” substituted.

Index No. 400 (Sheet 27 of 31), “LET NOTES”, Note 6, Paragraph (b), second and third line, text “two parallel 3” x 3” x 1/4” steel angles, one angle each side between Post No. 1 and No. 2.” deleted and text “one 3” x 3” x 1/4” steel angle on the back side between Post No. 1 and No. 2.” substituted.

Index No. 400 (Sheet 30 of 31), “END ANCHORAGE ASSEMBLY TYPE REGENT” is deleted and Interim Index No. 0400, Sheet 1 of 1, dated 08-21-03 is substituted.

Interim Index No. 403 (Sheets 1 thru 2 of 2), Dated 07-01-05, “GUARDRAIL TRANSITIONS FOR EXISTING BRIDGE TRAFFIC RAILING RETROFITS” is added.

Index No. 410 (Sheet 20 of 22), Plan detail “MEDIAN BARRIER WALL” - Text “ 16’-3” “ deleted and “ 6’-3” “substituted.

Interim Index No. 412 (Sheets 1 thru 5 of 5) dated 09-29-03 is added.

Interim Index No. 412 (Sheet 1 of 5), - Dated 09-29-03, “GENERAL NOTES”, Note 3, second paragraph, first sentence, text deleted and the following substituted: “Barrier wall units shall conform to Section 521 of the Standard Specifications and shall be produced in Department approved plants with quality control plans for precasting concrete barrier wall.”

Interim Index No. 412 (Sheet 1 of 5) Dated 09-29-03, “GENERAL NOTES”, Note 4, The following added as paragraph 2: “Low profile barrier wall units shall be installed so as to be in firm contact with adjoining units. Nuts on tensioning rods shall be installed snug tight.”

Interim Index No. 412 (Sheet 1 of 5), - Dated 09-29-03 Sheet 1 of 5 “GENERAL NOTES”, Note 6, the following sentence added: “The cost of the tubular markers and Type I object marker shall be included in the cost of the low profile barrier.”

Index No. 413 (Sheet 1 of 1), “GENERAL NOTES”, Note 4 added as follows: “4. Barrier wall units shall conform to Section 521 of the Standard Specifications and shall be produced in Department approved plants with quality control plans for precasting concrete barrier wall.”

Index No. 415 (Sheet 2 of 10), “ALIGNMENT AND LENGTH OF NEED”, “*” Last sentence text – “600” deleted and “642” substituted and text – “expressway” deleted and “freeway” substituted.

Index No. 417 (Sheet 1 of 1), “NOTES FOR TEMPORARY INERTIAL CRASH CUSHIONS” - Note 1 deleted and the following note substituted: “1. The crash cushion arrays shown on this Index can be used on the State Highway System only when all of the following conditions are met:

- a. Use is limited to shielding temporary concrete barrier wall approach ends.
- b. Use only when a temporary gating crash cushion or inertial crash cushion is specifically called for in the plans.
- c. Use is limited to installations that will not exceed 30 calendar days in duration, unless otherwise called for in the plans.

When the plans do not specifically call for a temporary gating crash cushion, and/or when the installation will exceed 30 days in duration, a redirective crash cushion system in accordance with Index 415 is required.”

Note 6 deleted and the following note substituted: “6. Temporary gating crash cushion systems listed on the Department’s Qualified Products List (QPL) may be substituted for the crash cushion arrays shown in this Index, provided a configuration using the system for this substitution has been detailed in the approved QPL drawings. Manufacturers

seeking approval of temporary gating crash cushions for inclusion on the QPL must submit application along with design documentation showing the crash cushion system is crash tested to NCHRP Report 350 Test Level 3 criteria, is accepted by FHWA and is compatible with FDOT temporary barrier wall systems. System approvals will be contingent on FDOT's evaluation of crash test performance results for consistency with FDOT temporary barrier wall end shielding applications and uses. If approved, installation drawings signed and sealed by a professional engineer licensed in the State of Florida will be required."

Note 7 added as follows: "7. Temporary crash cushions (gating) are to be paid for per array under the contract unit price for Vehicular Impact Attenuator/Crash Cushion (Gating) (Temporary), LO."

Interim Index No. 430 (Sheets 1 thru 2 of 2) Dated 07-01-05, "OPTIONAL CRASH CUSHION DETAILS" is added.

Index No. 435, "QUADGUARD" – Note that details for the QuadGuard HS are posted on the Qualified Products List.

Index No. 440, "TRACC SYSTEMS" – Note that details for the WideTRACC and the TRACC Modular Base are posted on the Qualified Products List.

Index No. 440 (Sheet 1 of 5), "GENERAL NOTES", Note 7, The text is deleted and the following substituted: "All permanent units shall be factory new at completion of construction. Temporary construction units and units under Maintenance responsibility may be shop repaired units utilizing new or salvaged parts which will produce condition new units."

Index No. 440 (Sheet 1 of 5), "DESIGN NOTES AND GUIDELINES", Note 2, The first two paragraphs are deleted and the following substituted: "When equipped with the modular base, the TRACC is a restorable system that is well suited to shielding hazards subject to high speed traffic with a history of frequent errant vehicle departures from the roadway or the potential exists for such departures. The TRACC is also well suited to shielding hazards where the approach space is limited; and for conditions where the terminal must be located close to the traffic lane."

Index No. 441, "TAU II" – Note that details for the TAU-II Revised and Universal TAU-II are posted on the Qualified Products List.

Index No. 451 (Sheet 1 of 2), "GENERAL NOTES", Note 19 - text last sentence "Type A" deleted.

Note 20 - text first sentence "and pay" deleted.

Note 21- Note deleted and the following substituted: "21. This index details fencing that is constructed with farm fabric 46 1/2" (47" nominal) in height and with specific ground clearance and specific barbed wire spacings."

Note 22 added with the following text- "22. All posts, braces, tension wires, fabric, tie wires, Class I concrete and all miscellaneous fittings and hardware to be included in the

cost for Fencing, LF. Fencing shall be inclusive of the lengths of pull, end and corner post assemblies, but exclusive of gate widths.”

Index No. 452 (Sheet 1 of 2), “GENERAL NOTES”- Note 7(b) is deleted and the following note substituted: “(b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the engineer.”

Note 7(c) “4.5” deleted and “5.5” substituted.

Note 11- text last sentence “Type B,” deleted.

Note 12-text deleted and the following substituted: “12. For construction purposes, corner post assemblies shall consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed above. End Post assemblies shall consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed above.”

Note 13 added with the following text: “13. All posts, tension wires, chain link fabric, tie wires, Class I concrete, and all miscellaneous fittings and hardware to be included in the cost for Fencing, LF.”

Index No. 452 (Sheet 2 of 2), “BARB WIRE ATTACHMENT”, “NOTES”, - text “Attachments to be paid for under the contract unit price for Fencing, Type B (With Barb Wire Attachment) LF.” deleted.

Index No. 505 (Sheet 3 of 3), “RIGID PAVEMENT - SPECIAL SELECT SOIL OPTION”- bottom note deleted and the following substituted: “ 3” of #57 or #89 Coarse Aggregate Mixed into Top 6””.

Index No. 515 (Sheet 2 of 6), “Plan A” in the plan view detail the line indicating the back of sidewalk at the driveway is modified to be a continuous straight line in-line with the back of the sidewalk on each side of the driveway. Dimension “4’ Min.” deleted and the following substituted: “4’ Min., May be reduced to 3’ Min. in restricted conditions when approved by the Engineer.”

“SPECIAL NOTES FOR URBAN FLARED TURNOUTS”, Note 11 is added as follows: “11. All sidewalk surfaces crossing driveways with a cross slope shown in this Index to be 0.02 shall be 0.02 Maximum”.

Index No. 515 (Sheet 3 of 6), Notation “Δ”, Text “Depth less than 4’ allowable only under findings of infeasibility” deleted and the following text substituted: “May be reduced to 3’Min. in restricted conditions when approved by the Engineer. Depth less than 3’ allowable only under findings of infeasibility.”

Index No. 515 (Sheet 4 of 6), Notation “Δ”, Text “Depth less than 4’ allowable only under findings of infeasibility” deleted and the following text substituted: “May be reduced to 3’Min. in restricted conditions when approved by the Engineer. Depth less than 3’ allowable only under findings of infeasibility.”

Index No. 520 (Sheet 1 of 1), KEY DETAIL, (TOP VIEW), “55#” is deleted and “30#” substituted.

SECTION details, below the reference “#4 Bars @ 18” Ctrs. (Max.)” add “(Grade 40 or Grade 60)”.

Index No. 515 (Sheet 6 of 6), “URBAN TURNOUT PROFILE” – text “3’ walk around” deleted and the following substituted: “4’ std., 3’ min.”

Index No. 532 (Sheet 1 of 3), GENERAL NOTES, Note 4, the first paragraph is deleted and the following substituted: “Mailboxes shall be light sheet metal or plastic construction, in traditional style only, and only in Size 1 as prescribed by the Domestic Mail Manual of the U. S. Postal Service (DMM).”

Index No. 544 (Sheet 1 of 1), “NOTES:” Note 5 added with the following text. “5. Commercial tree bracing systems approved by the Engineer may be used in lieu of the tree bracing methods detailed on this Index.”

Index No. 560 (Sheet 1 of 1), Title “TYPICAL FLEXIBLE PAVEMENT REPLACEMENT AT PANEL RR CROSSINGS” deleted and new title substituted “TYPICAL CROSSING MATERIAL REPLACEMENT AT RR CROSSING”. Text “Type S Asphalt” deleted and “Type SP Asphalt” substituted.

Index No. 600 (Sheet 1 of 10), “PREFACE”, first paragraph, 3rd sentence - Text deleted and the following text substituted: - “This Index contains information specific to Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.”

Index No. 600 (Sheet 2 of 10), Under the Heading “OVERHEAD WORK”, delete the existing text and replace with the following:

Work is only allowed over a traffic lane when one of the following options is used:

OPTION 1 (OVERHEAD WORK USING A MODIFIED LANE CLOSURE)

Overhead work using a modified lane closure is allowed if all of the following conditions are met:

- a. Work operation is located in a signalized intersection and limited to signals, signs, lighting and utilities.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- e. Aerial lift equipment is placed directly below the work area to close the lane.

- f. Traffic control devices are placed in advance of the vehicle/equipment closing the lane using a minimum 100 foot taper.
- g. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.

OPTION 2 (OVERHEAD WORK ABOVE AN OPEN TRAFFIC LANE)

Overhead work above a open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within an area bounded by 2 feet outside the edge of travel way and 18 feet high.
- e. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- f. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- g. Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OPTION 3 (OVERHEAD WORK USING A STANDARD LANE CLOSURE)

The lane directly below the overhead work is closed in accordance with the appropriate standard index drawing or detailed in the plans.

Index No. 600 (Sheet 4 of 10), Add New Heading –“GROOVED PAVEMENT AHEAD SIGN” and text “The GROOVED PAVEMENT AHEAD sign is required 500’ in advance of a milled or grooved surface open to traffic.”

Add Heading "Utility Work Sign" with note "The UTILITY WORK (W21-7) sign may be used as an alternate to the ROAD (STREET) WORK (W20-1) sign for utility operations on or adjacent to a highway.

Index No. 600 (Sheet 6 of 10), "Add ""TRANSVERSE JOINTS to existing header "MANHOLES/CROSSWALKS". Add the following text after the first paragraph - "All transverse joints that have any difference in elevation shall have a temporary asphalt apron constructed as shown in the diagram below."

Index No. 600 (Sheet 8 of 10), "Note 5 deleted and the following note substituted: ""5. During hours of darkness, warning lights shall be used on drums, vertical panels, Type I, Type II, Type III and direction indicator barricades in accordance with ""Warning Lights"" Sheet 6."" Note No. 12 added as follows: ""12. The Direction Indicator Barricade may be used in tapers and transitions where specific directional guidance to drivers is necessary. If used, Direction Indicator Barricades shall be used in series to direct the driver through the

transition and into the intended travel lane. See MUTCD 2003 edition for detail of Direction Indicator Barricade".

Index No. 601 (Sheet 1 of 1), Delete text in note 1 and substitute text: "If the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the 15 foot zone in any one hour, traffic control will be in conformance with Index No. 602."

Delete text in note 4 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Top drawing: delete "15 feet or more" and substitute "15 feet or more (or behind an existing barrier)"; under "Conditions" delete "15 feet or more" and substitute "15 feet or more (or behind an existing barrier)".

Index No. 602 (Sheet 1 of 1), Delete text in note 1 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Note 3 – Add text after "one hour period or less," "(excluding establishing and terminating the work area)".

Note 7 delete text "WS/2 and substitute text "WS/3"; delete text WS²/120 and substitute "WS²/180".

Delete text in note 11 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Delete two "ROAD WORK 1500" signs; substitute two "ROAD WORK AHEAD" signs. Change the two distances shown between the "ROAD WORK AHEAD" sign and the Men Working Symbol sign from "1000" to "500".

Index No. 603 (Sheet 1 of 2), Delete text in note 2 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Delete text in note 11 and substitute: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Add new note "The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be eliminated if the work area is occupied only by a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights."

Index No. 603 (Sheet 2 of 2), Delete text in note 2 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Delete text in note 9 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Add new note "The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be eliminated if the work area is occupied only by a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights."

Index No. 604 (Sheet 1 of 1), Delete text in note 2 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Delete text in note 11 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Add new note "The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be eliminated if the work area is occupied only by a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights."

NOTE: Third sign on the left approach should read "ONE LANE ROAD 1000 FT"

Index No. 607 (Sheet 1 of 1), Delete text in note 2 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Delete text in note 8 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Index No. 610 (Sheet 1 of 1), Delete text in note 1 and substitute text: ""If the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the 15' zone in any one hour, traffic control will be in conformance with Index No. 602 undivided or Index 611 divided."

Delete text in note 6 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Top drawing: delete "15' or more" and substitute "15' or more (or behind an existing barrier)"; under "Conditions" delete "15' or more" and substitute "15' or more (or behind an existing barrier)".

Index No. 611 (Sheet 1 of 1), Delete text in note 1 and substitute text: "All vehicles, equipment, workers and their activities are restricted to one side of the roadway."

Note 2 - Add text after "one hour period or less,""(excluding establishing and terminating the work area)".

Delete text in note 3 "either pavement" and substitute "travelway".

Note 6 delete text "WS/2 and substitute text "WS/3"; delete text WS²/120 and substitute "WS²/180."

Delete text in note 12 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Delete text in note 13 and substitute text. "For operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used."

Delete two "ROAD WORK 1500" signs substitute two "ROAD WORK AHEAD" signs. Change the two distances shown between the "ROAD WORK AHEAD" sign and the Men Working Symbol sign from "1000" to "500."

Index No. 612 (Sheet 1 of 1), Delete text in note 2 and substitute text: "All vehicles, equipment, workers and their activities are restricted to one side of the roadway."

Delete text in note 4

Delete text in note 12 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Index No. 613 (Sheet 1 of 2), Delete text in note 2 and substitute text: "All vehicles, equipment, workers and their activities are restricted to one side of the roadway."

Delete text in note 12 and substitute text: "When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes."

Index No. 621 (Sheet 1 of 1), Delete text in note 2 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Remove two KEEP LEFT Signs and symbol from this drawing

The two channelizing devices directly in front and directly at the end of the work area

may be eliminated if the work area is occupied only by a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights.

Index No. 623 (Sheet 1 of 2), Delete text in note 1 and substitute text: "All vehicles, equipment, workers (except flaggers) and their activities are restricted to one side of the roadway."

Add new note "The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be eliminated if the work area is occupied only by a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights."

Index No. 670 (Sheet 1 of 1), "MOTORIST AWARENESS SYSTEM" is deleted and Interim Index No. 0670 (Sheet 1 of 1) Dated 07-01-05 is substituted.

Index No. 5000 (Sheet 1 of 1) "RETAINING WALL SYSTEM GENERAL NOTES" is deleted and Interim Index No. 05000, (Sheet 1 of 1) Dated 08-21-03 is substituted.

Index No. 5015 (Sheets 1 thru 14 of 14) "RETAINING WALL SYSTEM, REINFORCED EARTH COMPANY, REINFORCED EARTH WALL" is deleted and Interim Index No. 05015 (Sheets 1 thru 16 of 16) Dated 01-01-05 is substituted.

Index No. 5021 (Sheets 1 thru 13 of 13), Index deleted.

Index No. 5025 (Sheets 1 thru 17 of 17), "RETAINING WALL SYSTEM, TENSAR EARTH TECHNOLOGIES, MSE RETAINING WALL" is deleted and Interim Index No. 05025 (Sheets 1 thru 16 of 16) Dated 01-01-05 is substituted.

Interim Index No. 5035 (Sheets 1 thru 14 of 14) Dated 01-01-05 is added.

Interim Index No. 5040 (Sheets 1 thru 13 of 13) Dated 07-01-05, "RETAINING WALL SYSTEM, HILFIKER SQUARE PANEL", is added.

Interim Index No. 5045 (Sheets 1 thru 13 of 13) Dated 07-01-05, "RETAINING WALL SYSTEM, T & B SQUARE PANEL" is added.

Interim Index No. 5110 (Sheets 1 thru 5 of 5) Dated 01-01-05 is added.

Index No. 5115 (Sheets 1 thru 17 of 17) "RETAINING WALL SYSTEM, THE REINFORCED EARTH COMPANY, TERRATREL WIRE WALL" is deleted and Interim Index No. 05115 (Sheets 1 thru 6 of 6) Dated 01-01-05 is substituted.

Index No. 5120 (Sheets 1 thru 5 of 5), Index deleted.

Index No. 5125 (Sheets 1 thru 4 of 4) "RETAINING WALL SYSTEM, TENSAR EARTH TECHNOLOGIES, TEMPORARY RETAINING WALL" is deleted and Interim Index 05125 (Sheets 1 thru 5 of 5) Dated 01-01-05 is substituted.

Interim Index No. 5140 (Sheets 1 thru 5 of 5) Dated 07-01-05, “RETAINING WALL SYSTEM, HILFIKER TEMPORARY WIRE WALL”, is added.

Index No. 11862 (Sheet 1 of 1), Col. Size “4 x 3/16” deleted and “4 x 1/4” substituted in two columns.

Index No. 17344 (Sheets 2 and 3 of 6), Text “see Index No. 17346 Sheet 9 of 13” deleted and the following text substituted: “See Index No. 17346 Sheets 2 and 7 of 13”

Index No. 17346 (Sheet 5 of 13) “SPECIAL MARKING AREAS” is deleted and Interim Index No. 017346 (Sheet 5 of 13) Dated 01-01-05 is substituted.

Index No. 17346 (Sheet 8 of 13), “TURN LANES * CURBED AND UNCURBED MEDIANS”-table, “RURAL CONDITIONS”, L₂ and L distance values deleted and the following values substituted:

L ₂	L
185’	290’
225’	350’
260’	405’
290’	460’

Index No. 17355 (Sheet 10 of 10) “MOT-13-04”- text “Freeway Sign” added. “MOT-14-04”-text “Arterial Sign” added.

Index No 17500 (Sheet 1 of 3) “CONVENTIONAL LIGHTING” is deleted and Interim Index No. 017500 (Sheet 1 of 3) Dated 01-01-05 is substituted.

Index No. 17502 (Sheet 4 of 4), “SLAB DIMENSIONS”-detail dimensions “2’-8”, 2’-01/2” and 4’-1” “ deleted and text “varies” substituted. Detail dimensions “2’-11 1/2” “ -deleted.

Index No. 17900 (Sheet 5 of 9) “TRAFFIC MONITORING” is deleted and Interim Index No. 017900 (Sheet 5 of 9) Dated 01-01-05 is substituted.