New Jersey Department of Transportation

Baseline Document Change

Standard Roadway Construction/Traffic Control/
Bridge Construction Details Booklets, October 1996
BDC96D - 001

October 25, 1996

MEMORANDUM
Baseline Document Change

Subject: Release of Metric Version of Standard Roadway Construction/Traffic Control/ Bridge Construction Details Booklets

The Standard Roadway Construction/Traffic Control/Bridge Construction Details Booklets are Metric versions of the approved English Standard Construction Detail Booklets issued by ADU Memorandum dated September 29, 1995(90087 ADU).

Also, the metric version of the ADU Memorandum dated March 22, 1996 on guide rail end treatments has been incorporated in these Standard Roadway Construction/Traffic Control/Bridge Construction Details Booklets that contain the following:

Added Slotted Guide Rail Terminals details(CD-612-5.1 & CD-612-8.6).
Added Extruder Terminals details(CD-612-5.2 & CD-612-5.3).
Added Controlled Release Terminals details(CD-612-6).
Added Telescoping Guide Rail End Terminals detail(CD-612-7.3).
Revised Median Guide Rail Treatment details(CD-612-7.1 & CD-612-7.2).
Deleted Breakaway Cable Terminals details.
Deleted Median Breakaway Cable Terminals details.

Rumble strip details(CD-202-1.4) were added as per ADU Memorandum dated December 20, 1995.

The following are additions and/or revisions to the Standard Roadway Construction/Traffic Control/Bridge Construction Details Booklets that were not incorporated by previous ADUs:

Added Attaching Two Silt Fences detail(CD-212-1.2).
Added notes to Heavy Duty Silt Fence detail(CD-212-1.1 & CD-212-1.3).
The detail numbers have been changed to reflect the appropriate 1996 Standard Specifications Road and Bridge Construction Division numbers.
Revised 685 MM High Parapet With Sidewalk and 2000 MM High Parapet With Sidewalk Over Electrified Railroad details(BCD-3).
Revised 865 MM High Parapet With Barrier Curb detail(BCD-3).
Revised Elevation detail(BCD-3).
Added Notes 7 through 9(BCD-3).
Revised Typical Section detail(BCD-4).
Added Note 4(BCD-4).

As per the September 29, 1995 ADU on Standard Construction Details Booklets, Standard Construction Details will no longer be included in the plans. However, those details which are revised by BDC memorandums subsequent to the issuance of these booklets, nonstandard details, and those sheets which require design specific information shall be included in the plans.

The following note shall be placed on the key sheet directly under the Index of Sheets.

STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS BOOKLET DATED OCTOBER, 1996 AND ELECTRICAL BUREAU STANDARD DETAILS (1996) ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

By using this note it will be possible to tell which construction detail booklets were used in the project as in the future additional updated booklets will be issued. It is anticipated that updated detail booklets will be issued every two years.

There are 3 U-post sheets (CD-619-6, CD-619-12, and CD-619-15), one landscape sheet (CD-813-1), and two electrical sheets (L-1094M and L-1794M) that will contain the following note in the booklets only.

THIS SHEET REQUIRES THAT DESIGN SPECIFIC INFORMATION BE ADDED.

Therefore, these sheets will always be superseded in the plans.

The following text pertains to the Bridge Construction Details:

Any detail that does not represent the proposed bridge construction detail to be used on a given project, shall be modified and placed in the Bridge Plans. The designer shall include notes in the Bridge plans that identifies which Bridge Construction Details have been changed and are no longer valid for the given project. The designers attention is directed to the following comments concerning the use of the Bridge Construction Details sheets:

- Sheets numbered BCD-1A and BCD-1B are for bridge deck rehabilitation repair work. The details shown on these sheets shall not be used for deck patching repair work. Details for bridge deck patching shall be developed by the designer from information provided by Structural Engineering. Bridge deck patching details shall be included in the bridge plans. Deck patching repair

work differs from deck rehabilitation work in the type of repairs to be performed and the way in which the repairs are to be done.

- Sheet numbered BCD-3 shows various types of bridge parapets. The designer shall identify by details or notes on the bridge plans the type of bridge parapet to be used for each bridge in the project. The designer may need to make changes to the bridge parapets for the addition of metal railings or fencing. Any other changes to bridge parapets shall be approved by Structural Engineering.

- Sheet numbered BCD-4, view titled, 810 MM HIGH MEDIAN BARRIER ON BRIDGE, shows the height of the bridge barrier at 810 MM. The designer shall verify that the heights of the roadway approach barriers match the height of the bridge barrier to ensure a smooth transition between the barriers.

- Sheet numbered BCD-6, view titled, TYPICAL PLAN - CULVERT AND HEADWALLS, identifies a concrete apron to be used at the culvert ends when required by hydraulic design. The designer shall provide a detail on the Bridge plans as to size and location of concrete aprons, if aprons are required to be constructed at the ends of the culvert. See view titled, TYPICAL PLAN - ABUTMENTS, this detail identifies joints between the abutment wall and retaining walls. The designer shall show by note(s) on the Bridge plans whether these joints are expansion or contraction joints.

- Sheet numbered BCD-7, view titled, DRAINAGE BACK OF WALL, the invert elevations for the underdrain pipe shall be shown on the Bridge plans. The designer shall investigate and identify the location of the nearest roadway inlet for the steel culvert pipe to which to connect. This information shall be noted on the Bridge plans.

The Bridge Construction Detail sheets were developed from various Guide Sheets contained in the NJDOT Design Manual for Bridges and Structures. The Bridge Design Manual also contains Standard Drawings. The Standard Drawings are full size (841 MM x 594 MM) drawings and are intended to be incorporated into the Bridge plans, if applicable to the project. This practice of including Bridge Standard Drawings in the plans will be maintained and is unaffected by using the Bridge Construction Detail sheets. Section 1.8.10 of the Design Manual for Bridges and Structures contains more information on the use of Bridge Standard Drawings.

Distribution to In-House Staff and Various Public Agencies

This memorandum along with the half-scale set of Standard Roadway Construction/Traffic Control/Bridge Construction Details Booklets is being distributed to our In-House Staff and Various Public Agencies based on our distribution list by Document Control. Additional half-scale sets and/or full size mylars of the Standard Roadway Construction/Traffic Control/Bridge Construction Details can be acquired by contacting:

Configuration Management
E & O Bldg., 1st Floor
1035 Parkway Ave
Trenton, NJ 08625
Phone: (609) 530-5587
FAX) (609) 530-6626

Distribution to Other Outside Agencies(Consultant, Contractors, etc.)

This BDC Memorandum is posted on the NJDOT Electronic Bulletin Board System under Conference Number 10 - Highway Design, File Area 56 - Baseline Document Change Memorandums. Half-scale sets of the Standard Roadway Construction/Traffic Control/Bridge Construction Details Booklets can be purchased for $25.00 (price subject to change) by contacting Configuration Management or below:

Plans and Specification Distribution Center
Thiokol Bldg. 6 and 8
930 Lower Ferry Road
Trenton, NJ 08625
Phone: (609) 530-8584
Fax: (609) 530-8347

Full size mylars of the details can be acquired by contacting Configuration Management shown above.

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