

This e-Notification deleted by SOL 483-16-02 which issued April 2016 Edition on 5/10/2016

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PennDOT BQAD Publications e-Notification
Bureau of Design
Bridge Quality Assurance Division
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Publication No. 218M & 219M
Standard: All Current
RE: Linked PDF files
No. 14
Date: 1-29-07 w/ 11-28-07, 4-24-13 & 12-30-13 updates

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The current Bridge Design (BD-600M Series) and Bridge Construction (BC-700M Series) standards' PDF files have been assembled into single folder per series on both a Department ftp server and the network shared drive. The Index Sheets included in these folders contains links to the specific standard's PDF file. Each standard is stored as a single PDF file which contains all of its sheets.

Users requested this arrangement to make it easy to download all the current standard files (one per standard) onto their local drive for later burning to a CD-R for use in the field with a laptop.

Please use the following pair of links to access these ~~50 to 74MB~~ bridge standard PDF file folders:

For PennDOT users:

~~P:\bridge shared\Bridge Standards Revisions\Pub 218M - 2003 Edition PDF Files\bd600m - Index Sheet.pdf~~

~~P:\bridge shared\Bridge Standards Revisions\Pub 219M - 2003 Edition PDF Files\BC700M - Index Sheet.pdf~~

For non-PennDOT users:

~~bd600m - Index Sheet.pdf on ftp.dot.state.pa.us~~

~~BC700M - Index Sheet.pdf on ftp.dot.state.pa.us~~

Please direct any questions to:

Gary P. Gordon, P.E.
PENNDOT Bureau of ~~Design~~ **Project Delivery**
Bridge ~~Quality Assurance~~ Division
Phone: (717) 783-7551 ← Design & Technology
Fax: (717) 787-2882
email: gagordon@~~state.pa.us~~ **pa.gov**

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Bureau of Project Delivery
Bridge Design & Technology Division



PennDOT e-Notification No. 30

Dec. 9, 2011

Interim Revision to Bridge Standard Drawing(s)	BD-601M, "Concrete Deck Slab", Sheet 4, dated 9/20/2010. Sidewalk Cross slope and reinforcement revisions.
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Background:

The revision in the sidewalk's cross slope is to provide some construction tolerance in relation to ADA requirements.

Loading of sidewalk doesn't warrant its transverse reinforcement to have 180 degree hooks.

The following three (3) revised details on Sheet 4 are being included:

1. TYPICAL SIDEWALK DETAIL – cross slope changed from 2% to 1.5% in two call-outs.
2. RAISED SIDEWALK DETAIL – cross slope changed from 2% to 1.5% in three call-outs.
3. ALTERNATE SIDEWALK DETAIL – cross slope changed from 2% to 1.5%. The 180 degree hook is being eliminated from end of transverse reinforcement.

These revisions are indicated with red-mark-ups on the attached 8 ½" x 11" sheets.

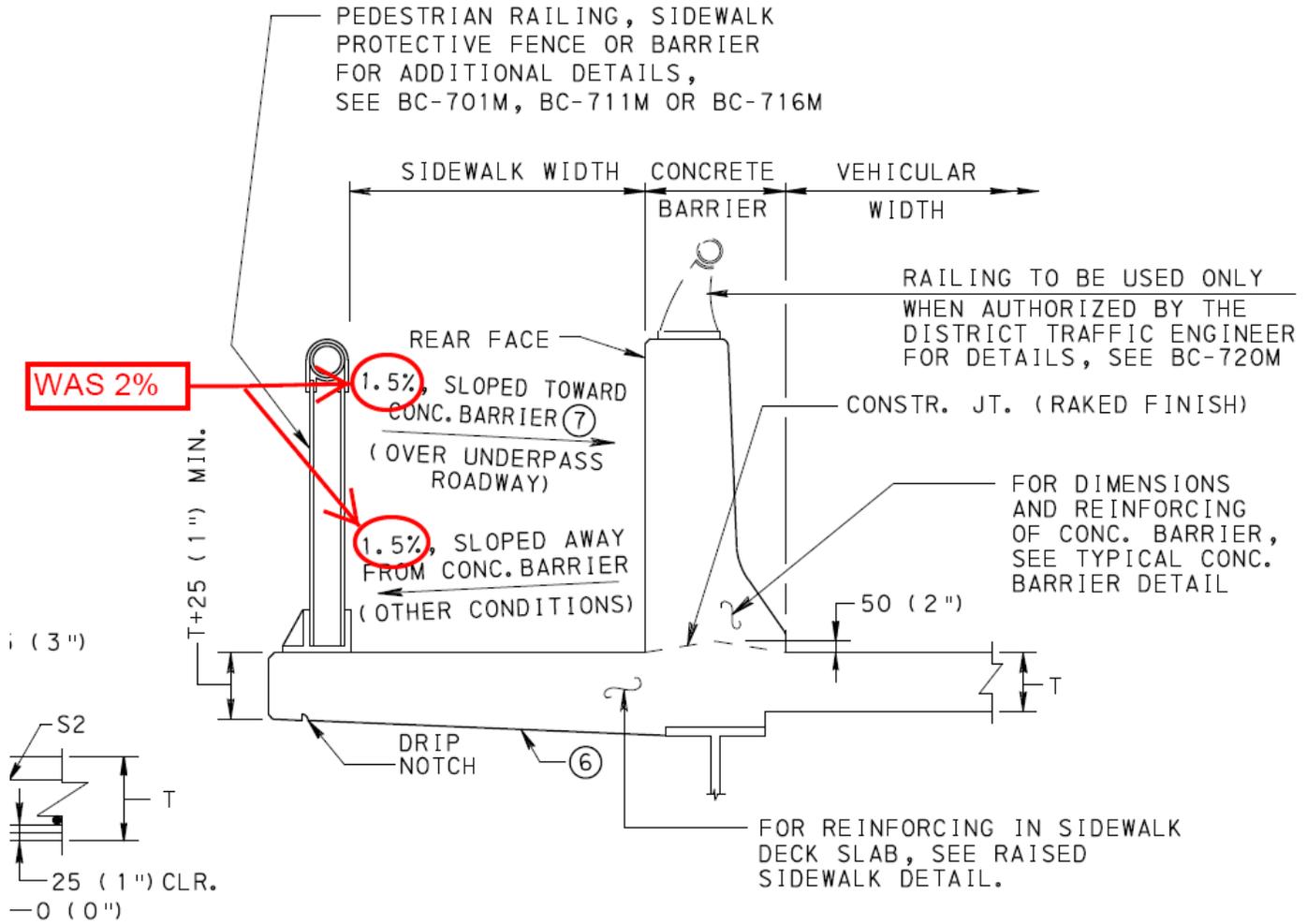
Please note that implementation of this revision is effective for all projects with P.S.& E. dates after Feb. 1, 2012.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery, Bridge Design and Technology Division
Phone: (717) 783-7551 / Fax: (717) 787-2882
gagordon@pa.gov

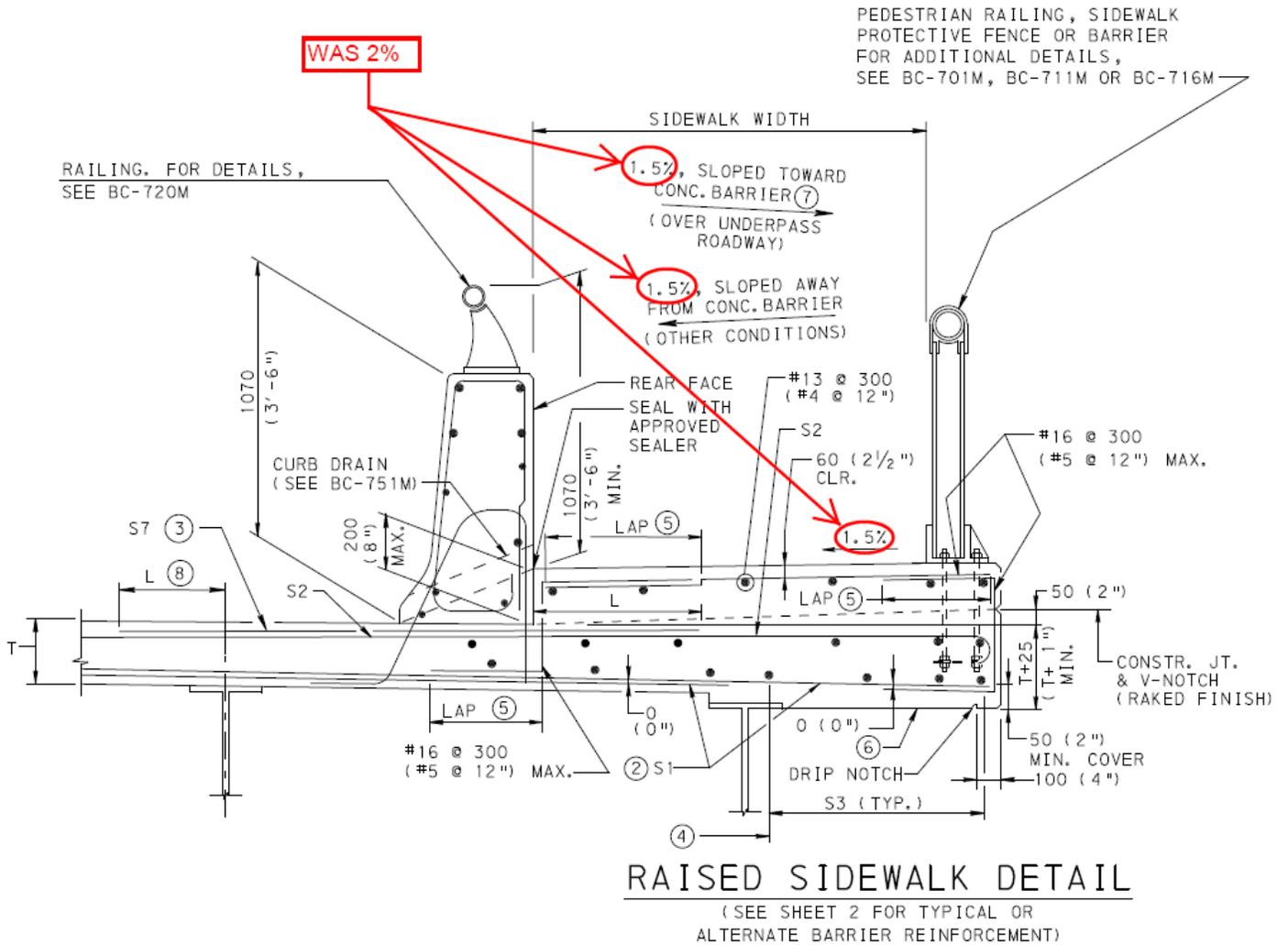
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e-Notification No. 30, 12/9/11



TYPICAL SIDEWALK DETAIL

BD-601M, Sheet 4



BD-601M, Sheet 4

Bureau of Project Delivery
Bridge Design & Technology Division



PennDOT e-Notification No. 31

April 20, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-629M, "Reinforced Concrete Piers", Sheet 1, dated 9/20/2010. Design Data Temperature/Displacement Table Note Revision.
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Background:

The last DESIGN DATA note is revised to clarify that the temperature/displacement table is only needed for steel bridges.

See attached 8.5"x11" sheet which shows the revised text for this note.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery, Bridge Design and Technology Division
Phone: (717) 783-7551 / Fax: (717) 787-2882
gagordon@pa.gov

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DESIGN DATA

- DENSITY OF BACKFILL MATERIAL = 1900 kg/m^3 (120 lb/ft^3)
- DENSITY OF CONCRETE = 2400 kg/m^3 (150 lb/ft^3)
- EQUIVALENT FLUID EARTH PRESSURE = 5.5 Pa/m (35 psf/ft) OF DEPTH
- FOR FOOTINGS USE A MINIMUM DEPTH INCREMENT OF 75 (3")
- 600 (2'-0") MINIMUM FOOTING THICKNESS FOR SPREAD FOOTINGS,
750 (2'-6") MINIMUM FOOTING THICKNESS FOR FOOTINGS ON PILES.
- SOLID PIERS SHALL HAVE A MINIMUM THICKNESS OF 600 (2'-0") AND MAY BE WIDENED AT THE TOP TO ACCOMMODATE THE BRIDGE SEAT WHEN REQUIRED.
- FOR ROUND, SQUARE AND RETANGULAR COLUMNS USE A 900 (3'-0") MIN. COLUMN DIA./WIDTH. USE INCREMENTS OF 150 (6") MINIMUM TO INCREASE COLUMN WIDTHS/DIA.
- SHRINKAGE KEYS MUST NOT BE USED IN PIER CAPS TO ELIMINATE PARTIAL OR TOTAL SHRINKAGE STRESSES.
- FOR COLUMNS OR PIER BENTS LOCATED IN THE SLOPED PORTION OF AN EMBANKMENT, INCREASE THE EARTH PRESSURE AGAINST THE BACK OF THE FOOTING AND COLUMN 100% TO INCLUDE THE EFFECT OF THE ADJACENT EMBANKMENT.
- PIERS LOCATED IN THE EMBANKMENT MUST BE INVESTIGATED FOR STABILITY NOT CONSIDERING SUPERSTRUCTURE LOADS.
- FOR MULTIPLE FIXED PIERS WITH CONTINUOUS DECK DESIGN, PROVIDE A TEMPERATURE/DISPLACEMENT TABLE FOR PLACEMENT AT OTHER THAN 70°F. ← (OLD TEXT)

(NEW TEXT)



- FOR **STEEL BRIDGES WITH** MULTIPLE FIXED PIERS **AND** CONTINUOUS DECK DESIGN, PROVIDE A TEMPERATURE/DISPLACEMENT TABLE FOR PLACEMENT AT OTHER THAN 70°F.

e-Notification No. 31

BD-629M, SHT. 1
(APRIL 20, 2012)

DESIGN DATA NOTE
REVISION

Bureau of Project Delivery
Bridge Design & Technology Division



PennDOT e-Notification No. 32

May 16, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-613M, "High Load Multi-Rotational Pot Bearings", Sheets 11 & 13, dated 9/20/2010. Stainless Steel to Guide Plate Weld; Dimension Arrowhead Correction.
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Background:

Designers/Fabricators have requested an option in the production of pot bearings:

- Eliminate the need to blast and paint small area beneath guide/sole plate beyond the stainless steel attachment fillet weld.

Drawing revisions:

Sheet 11, DETAIL A: Add a note to 1/8" MIN. edge distance using "*" which states it may be reduced to zero in order to eliminate blasting and painting of small edge area as long as the quality of weld is not compromised.

Sheet 13, ALTERNATE GUIDE BAR FABRICATION DETAIL and DETAIL B: Correction of dimension arrowhead locations for the II GUIDE PL. PTFE THICKNESS.

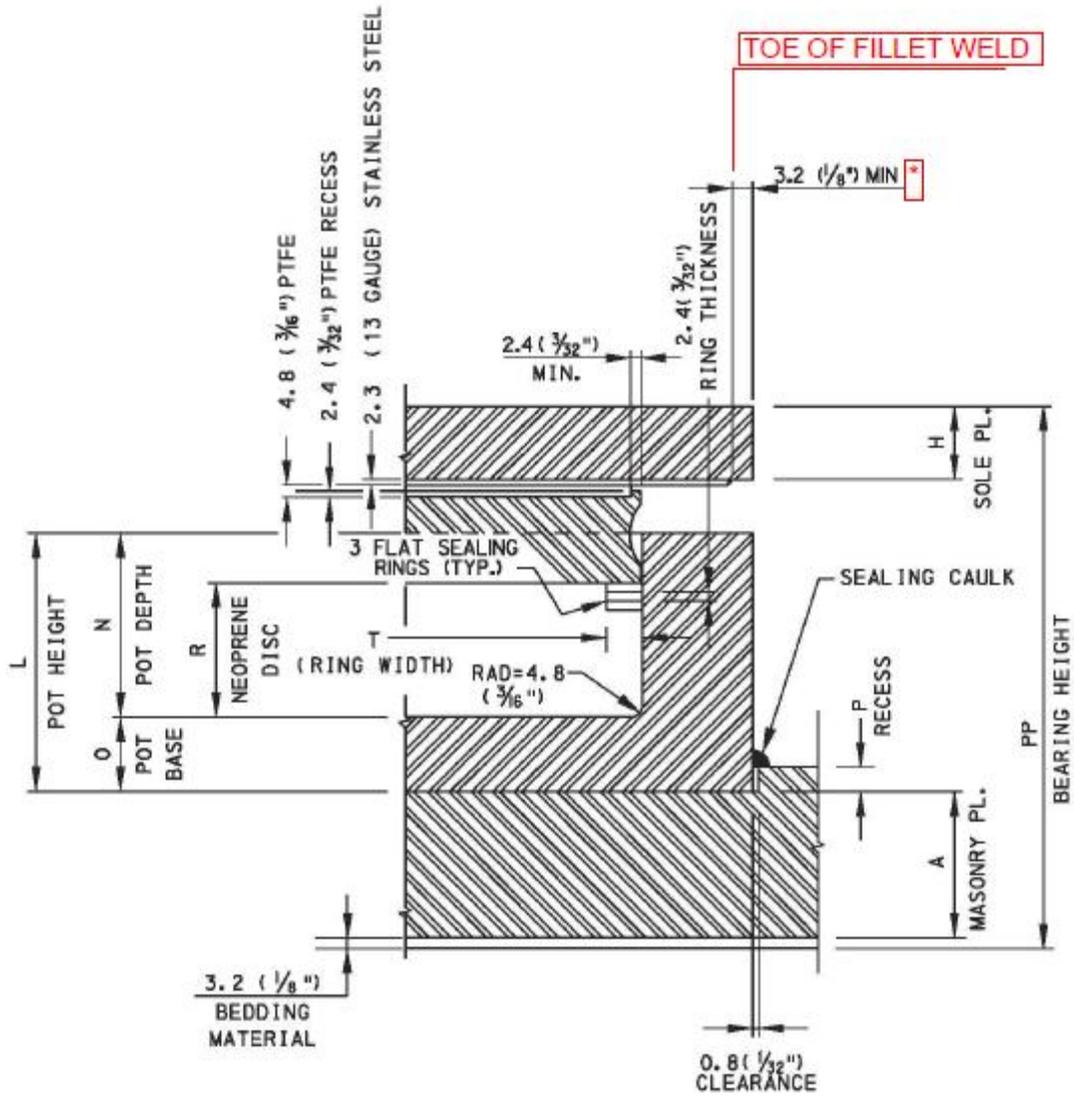
See three (3) attached 8.5"x11" sheets which show these revisions.

Direct any questions concerning the above issue to:

Patricia L. Kiehl, P.E.
PennDOT, Bureau of Project Delivery, Bridge Design and Technology Division
Phone: (717) 772-0568/ Fax: (717) 787-2882
pkiehl@pa.gov

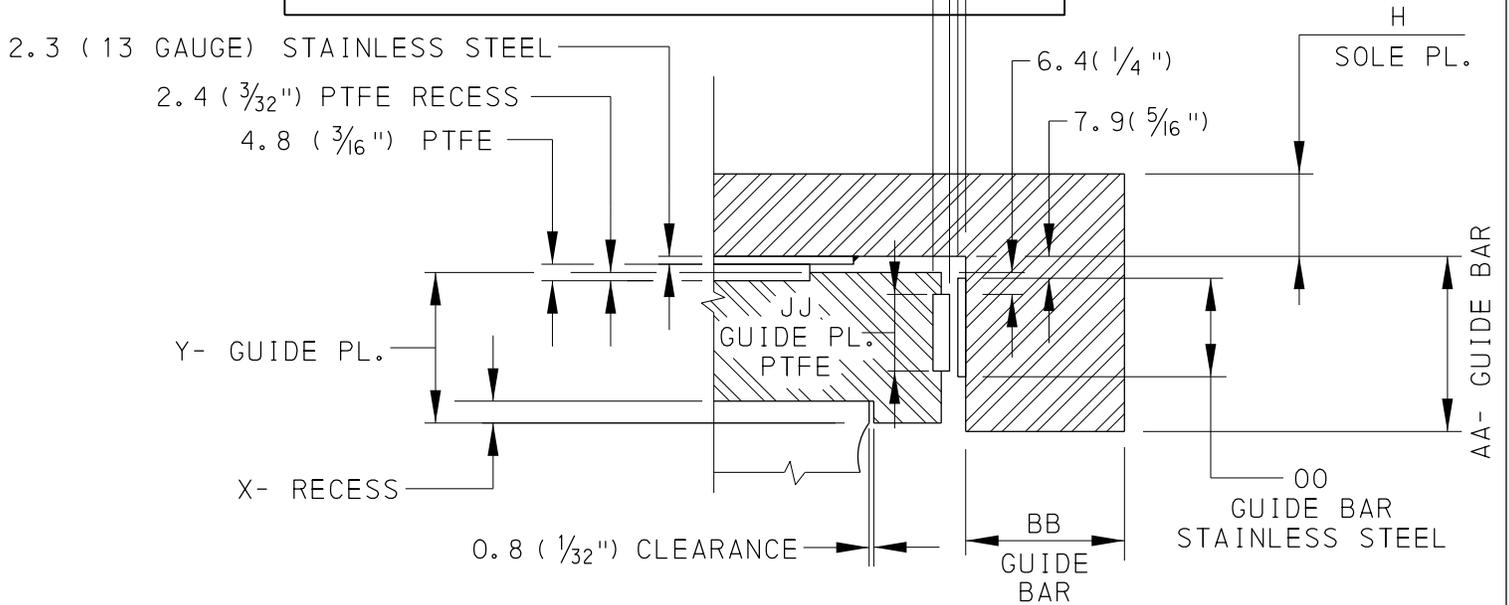
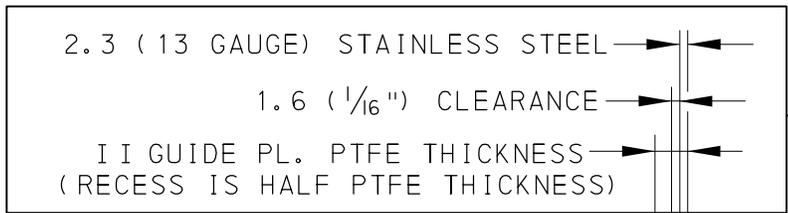
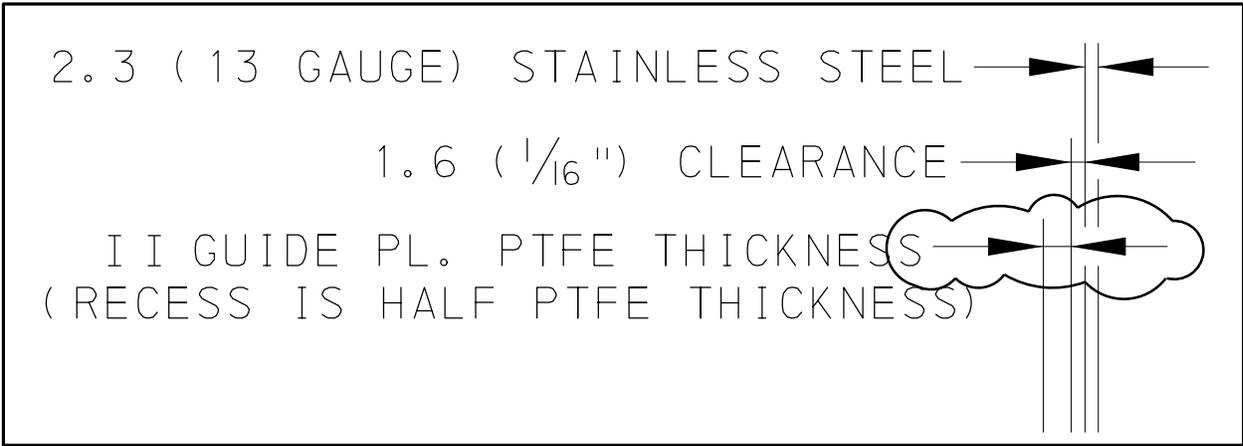
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* 1/8" MIN MAY BE REDUCED TO ZERO IN ORDER TO ELIMINATE BLASTING AND PAINTING OF SMALL EDGE AREA BENEATH SOLE PLATE AS LONG AS THE QUALITY OF WELD IS NOT COMPROMISED.



DETAIL A

BD-613M, Sheet 11



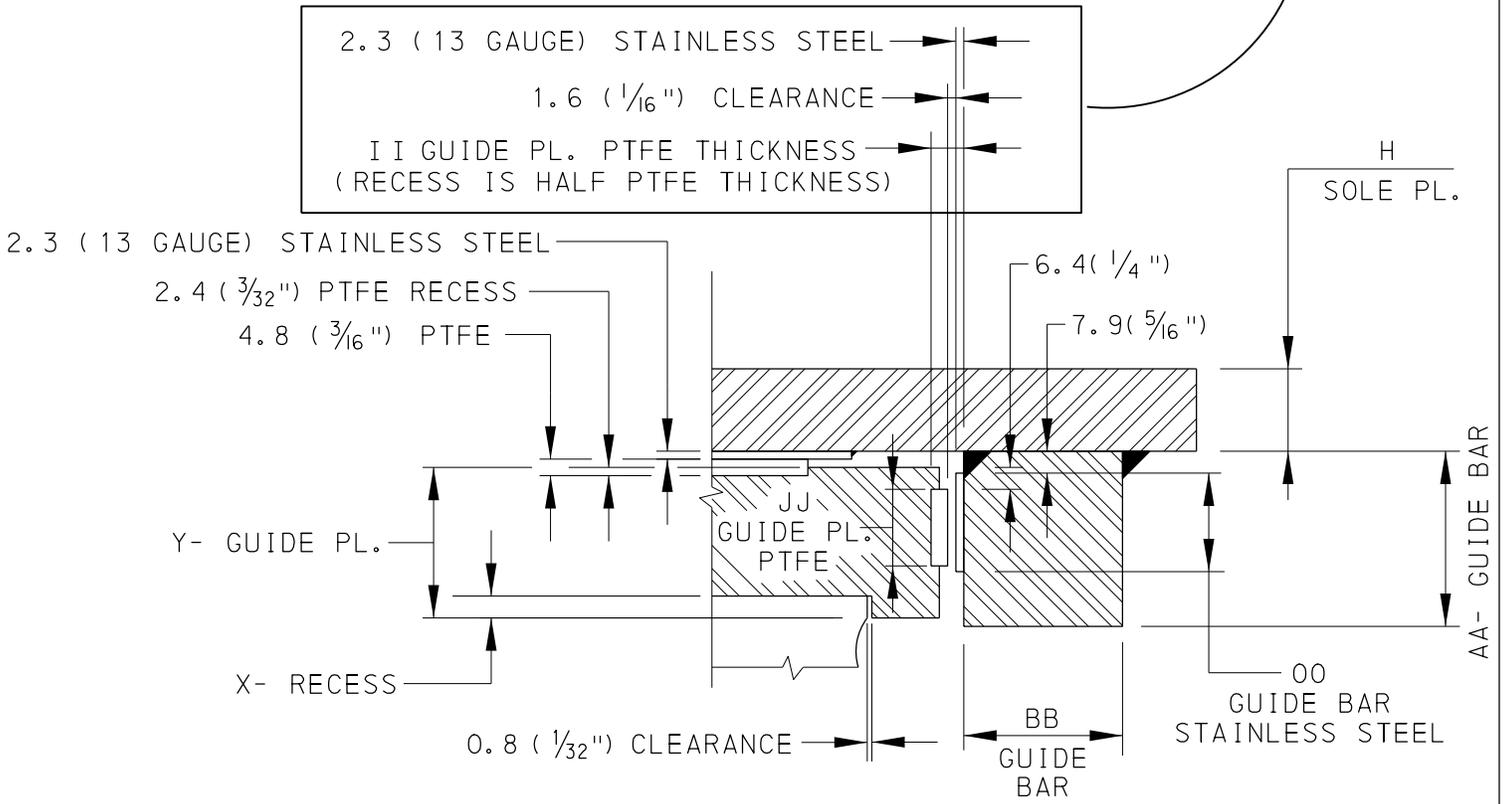
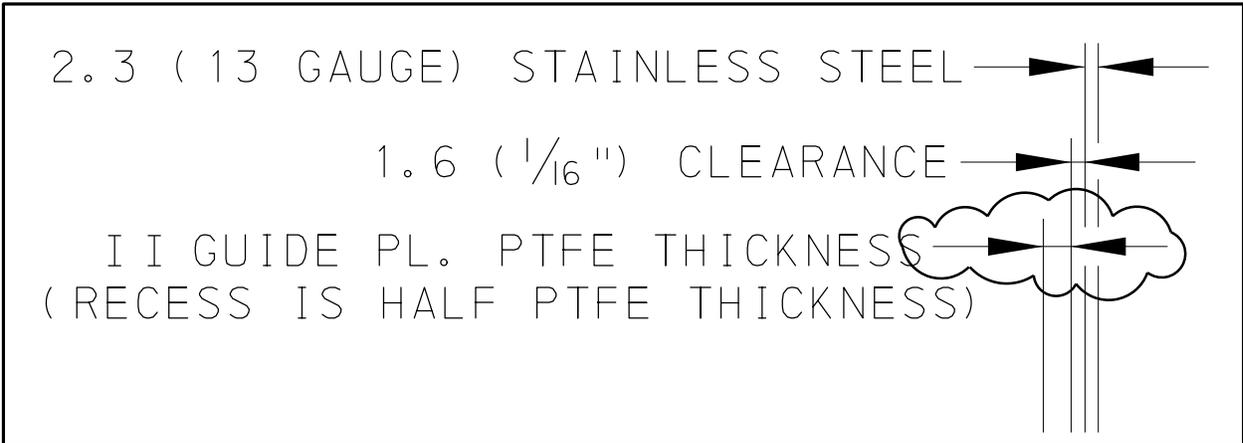
ALTERNATE GUIDE BAR FABRICATION DETAIL

(GUIDE BAR FABRICATED FROM SINGLE PLATE)

e-Notification No. 32

BD-613M, SHT. 13
(MAY 16, 2012)

POT BEARING DETAIL
DIMENSION ARROWHEAD CORRECTION



DETAIL B

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 33

May 31, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-610M, PA BRIDGE BARRIER, Sept. 20, 2010 Sht. 13 – Revision of Vertical Reinforcement detail
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Sheet 13

VERTICAL REINFORCEMENT; *NOTE:

Add "DIMENSIONS MAY ALSO BE MODIFIED BY PRESTRESS FABRICATOR TO AVOID INTERFERENCE WITH BEAM FORM WORK" to the end of existing note.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@state.pa.us

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Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 34

May 31, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-617M, PA TYPE 10M BRIDGE BARRIER, Sept. 20, 2010 Shts. 13 & 15 – Revision of Vertical Reinforcement Detail & Anchor Bolt Detail
--	---

Sheet 13

VERTICAL REINFORCEMENT; *NOTE:

Add "DIMENSIONS MAY ALSO BE MODIFIED BY PRESTRESS FABRICATOR TO AVOID INTERFERENCE WITH BEAM FORM WORK" to the end of existing note.

Sheet 15

Add "OPTIONAL" to title of "ANCHOR BOLT DETAIL"

Please note implementation of these revisions is immediate.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@state.pa.us

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Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 35

May 31, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-618M, CONCRETE VERTICAL WALL BRIDGE BARRIER, Sept. 20, 2010 Sht. 11 – Revision of Vertical Reinforcement Detail
--	---

Sheet 11

VERTICAL REINFORCEMENT; *NOTE:

Add "DIMENSIONS MAY ALSO BE MODIFIED BY PRESTRESS FABRICATOR TO AVOID INTERFERENCE WITH BEAM FORM WORK" to the end of existing note.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@state.pa.us

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Bureau of Project Delivery
Bridge Design and Technology
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PennDOT e-Notification No. 36

May 31, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-622M, R.C. ABUTMENTS WITH BACKWALL FLARED WINGS, Sept. 20, 2010 Sht. 1 – Revision of Section A-A
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Sheet 1

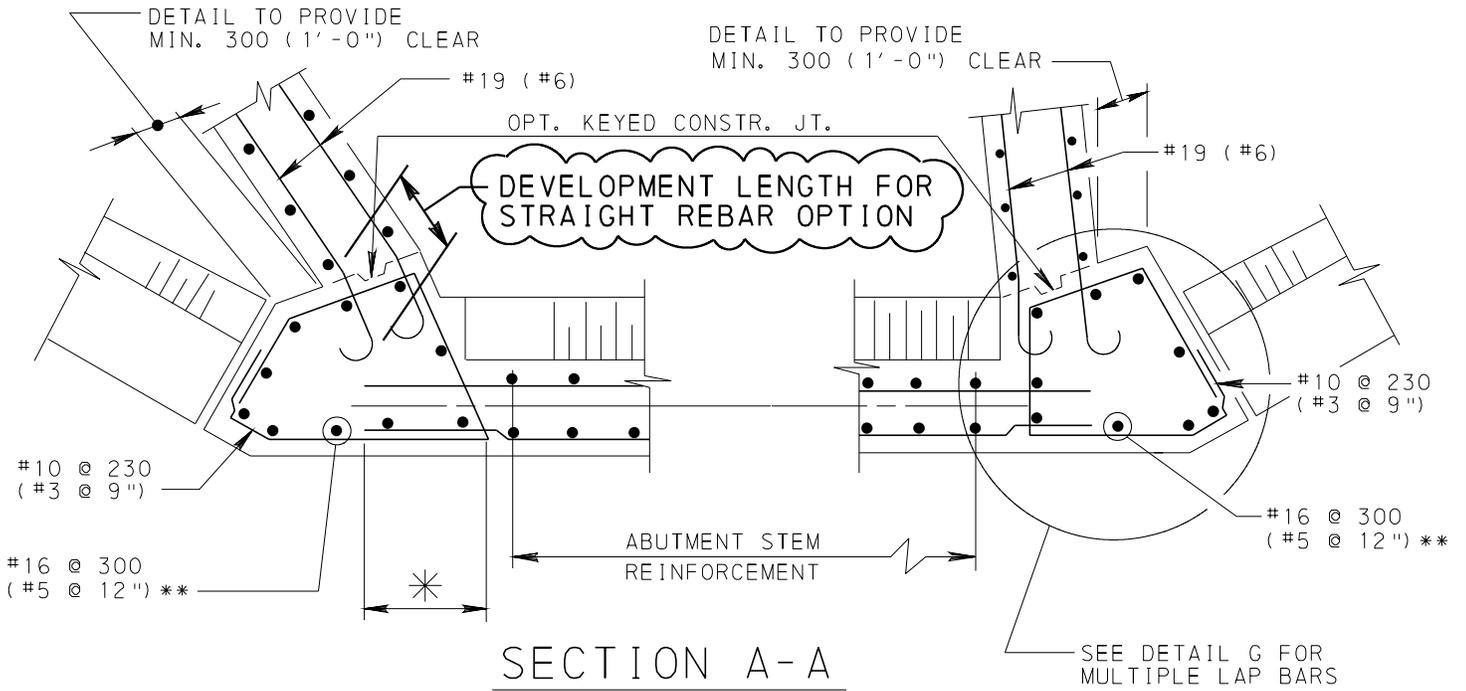
Add "DEVELOPMENT LENGTH FOR STRAIGHT REBAR OPTION" call-out to abutment section A-A as shown on attachment.

Note: In addition to the modification listed above, BC-751M was added to the "REFERENCE DRAWING" list on sheet 1

Please note implementation of these revisions is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@state.pa.us

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NOTE:

IN ADDITION TO THE MODIFICATION INDICATED ABOVE,
BC-751M WAS ADDED TO THE "REFERENCE DRAWING" LIST ON SHEET 1.

e-Notification No. **36**

BD-622M, SHT. 1
(MAY 31, 2012)

ADDED "DEVELOPMENT LENGTH" NOTE
TO ABUTMENT SECTION A-A

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 37

July 2, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-604M, GRID REINFORCEMENT CONCRETE BRIDGE DECK, Sept. 20, 2010 Sht. 2 – Revision of Typical Expansion/Relief Joint
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Sheet 2

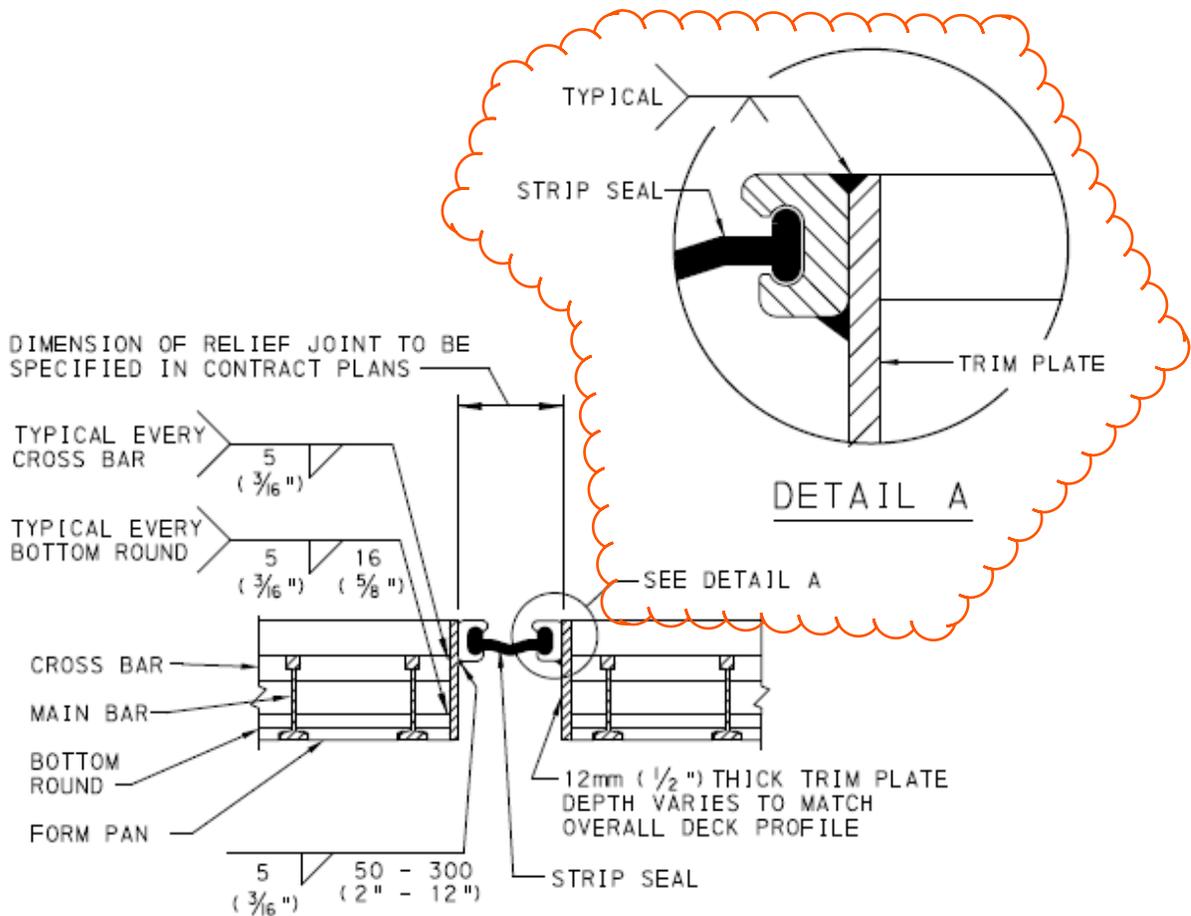
TYPICAL EXPANSION/RELIEF JOINT detail:

Fillet weld replaced by groove weld to allow strip seal extrusion to be positioned flush with top of bridge deck.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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TYPICAL EXPANSION/RELIEF JOINT

e-Notification No. 37

BD-604M, Sht. 2

July 2, 2012

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 38

December 20, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-609M, PA Structure Mounted Guide Rail Barrier Sht. 1 – Addition of Bolt Location Dimensions on Elevation and Section A-A
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See attached page for sketch of revised details:

ELEVATION detail:
Add 1 ½" (TYP.) dimension.

SECTION A-A detail:
Add bolt dimensions.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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Bureau of Project Delivery
Bridge Design and Technology
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PennDOT e-Notification No. 39

December 20, 2012

Interim Revision to Bridge Standard Drawing(s)	BD-632M, R.C. BOX CULVERT – HEADWALL DETAILS, Sht. 7 – Correction of dimension on Section F-F
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See attached page for sketch of revised detail:

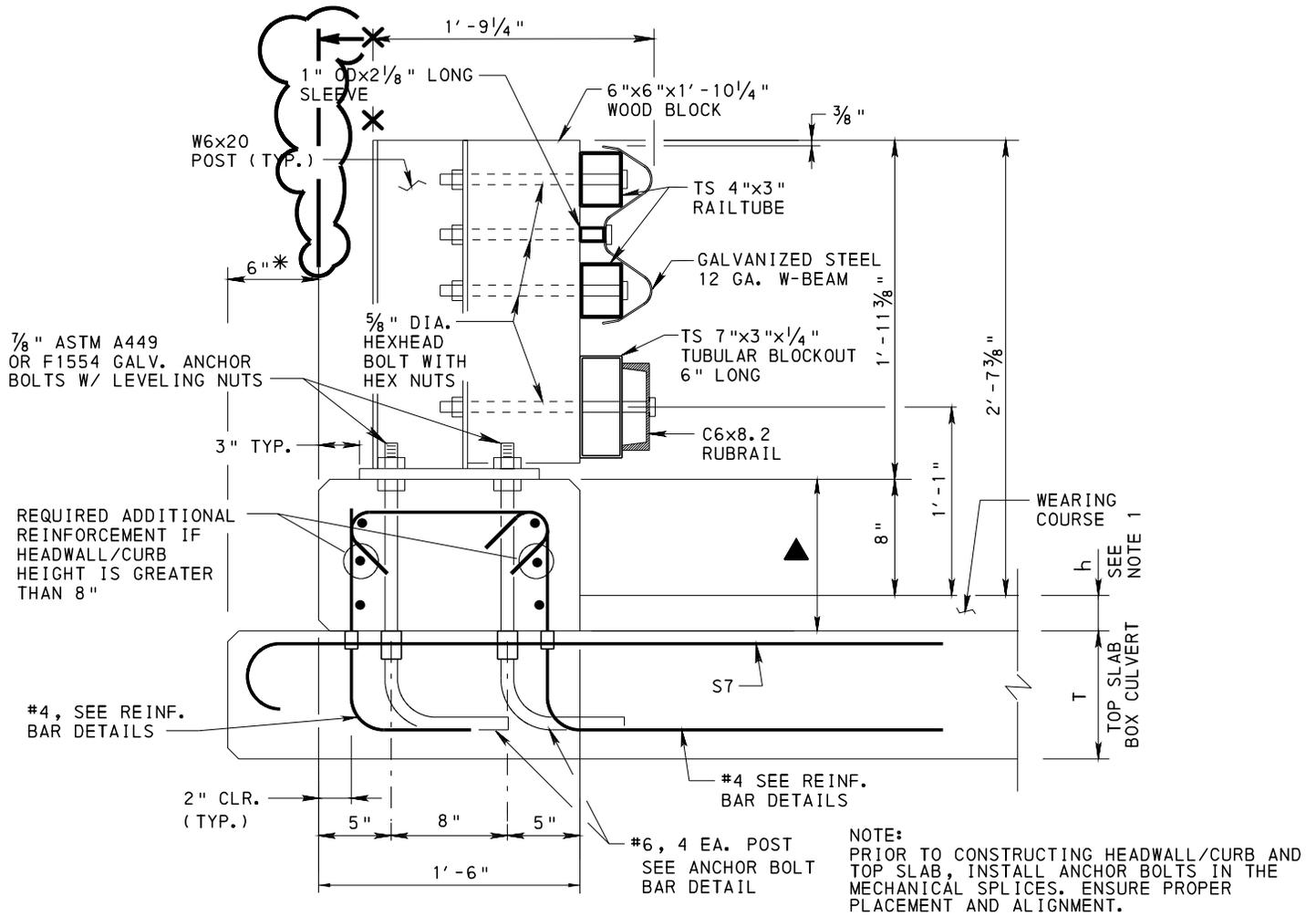
SECTION F-F:

Corrected dimension to indicate distance from front face of W-beam to rear face of headwall/curb. This dimension had been properly indicated on other details.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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SECTION F-F

(SLAB BRIDGES & LIKE STRUCTURES)

- CURB REINFORCEMENT SHOWN FOR CLARITY, SEE BD-609M.
- SEE RC-52M FOR TYPE 2 STRONG POST GUIDE RAIL DETAILS
- S7 REINFORCEMENT REQUIRED AT POST LOCATIONS ONLY. SEE SLAB REINFORCEMENT BAR DETAILS THIS SHEET.

e-Notification No. 39

BD-632M, SHT. 7
(AUGUST 31, 2012)

MODIFIED DIMENSION TO INDICATE
DISTANCE FROM FRONT FACE OF
W-BEAM TO REAR FACE OF CURB

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 40

April 4, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-632M, R.C. BOX CULVERT – PRECAST, Sht. 5 – Alternative cutoff wall with grouted rock
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See attached pages for details:

An alternative cutoff wall with grouted rock detail is being added to the box culvert standard.

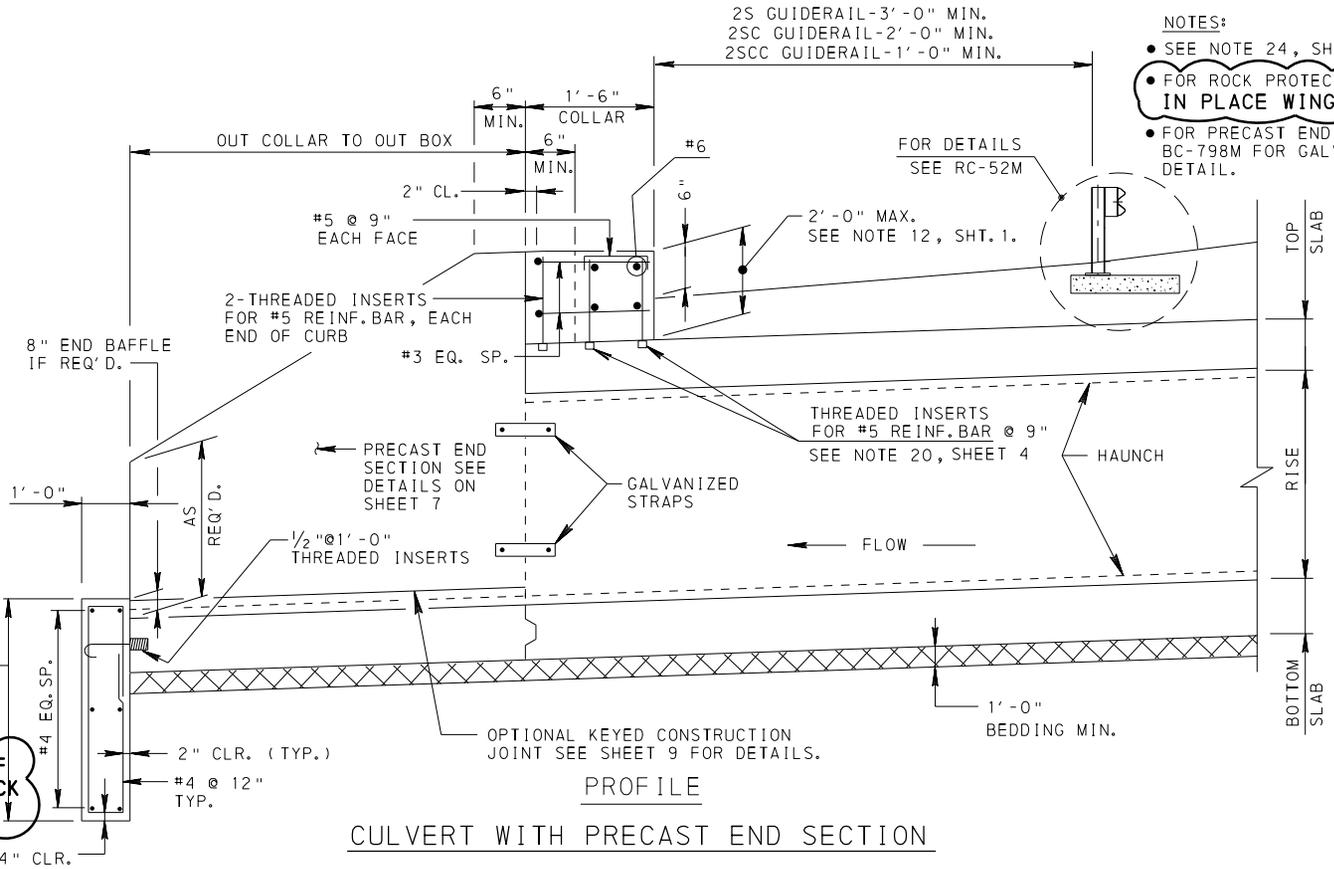
Please note implementation of this revision is immediate.

Direct any questions concerning the above issue to:

Guozhou Li, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 214-8773 Fax: (717) 787-2882
guli@pa.gov

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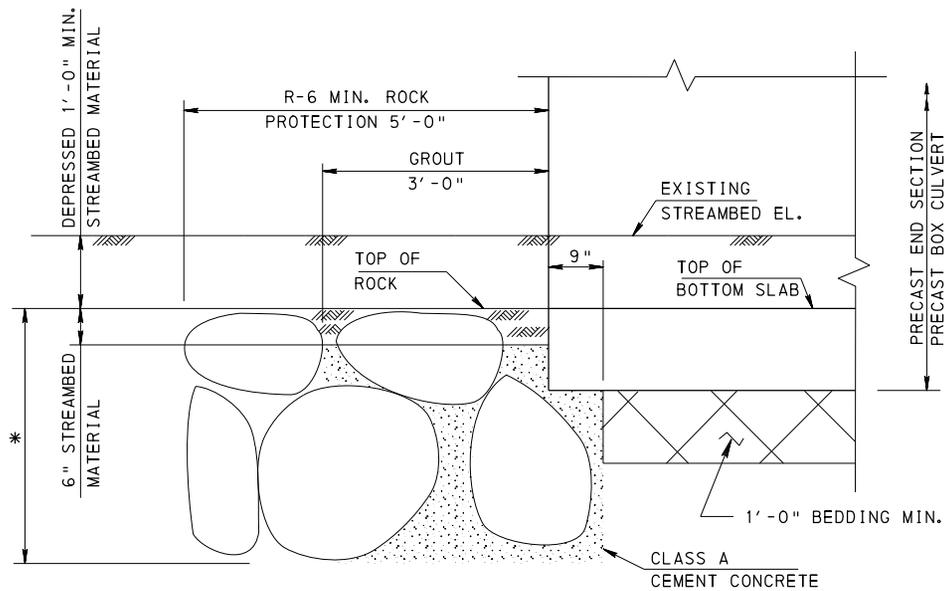
<http://www.dot.state.pa.us/Internet/BQADStandards.nsf/home?OpenFrameset>



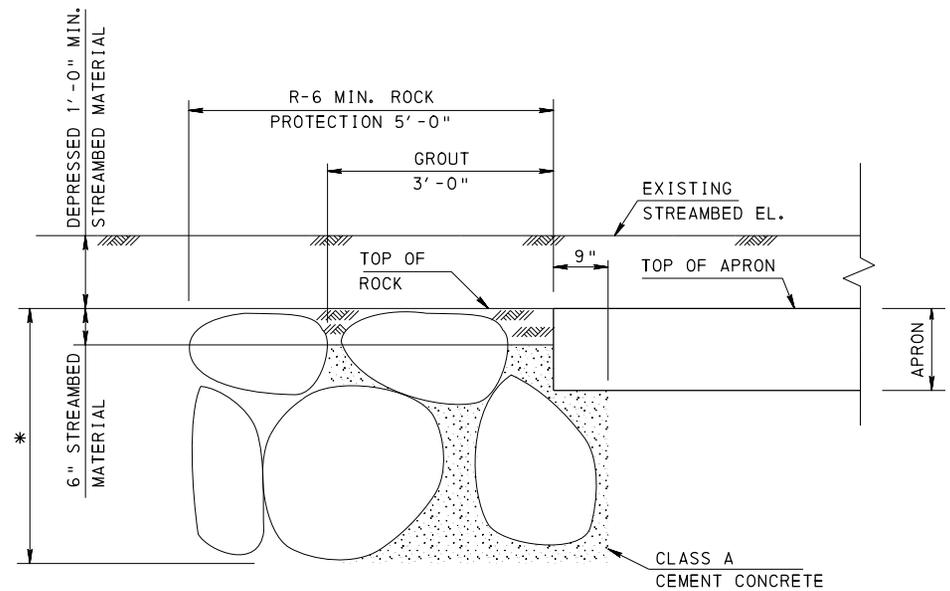
- NOTES:
- SEE NOTE 24, SHEET 4.
 - FOR ROCK PROTECTION SEE "CULVERT WITH CAST IN PLACE WINGWALLS" DETAIL, ON SHT. 6.
 - FOR PRECAST END SECTION CONNECTION SEE BC-798M FOR GALVANIZED STRAP CONNECTION DETAIL.

AN ALTERNATIVE CUTOFF WALL WITH GROUTED ROCK IS PERMITTED, SEE DETAIL A ON SHEET 6.

e-Notification No. 40
BD-632M, SHT. 5 (AUGUST 31, 2012)
EDITED EXISTING NOTES RELATED TO ROCK LINING AND ALTERNATIVE CUTOFF WALL



DETAIL A (WITHOUT APRON)



DETAIL B (WITH APRON)

* TO BOTTOM OF WINGWALL FOOTING OR BOTTOM OF ROCK LINING WHICH EVER IS DEEPER (3'-6" MIN.). FILL VOIDS IN ROCK WITH VIBRATED CLASS A CEMENT CONCRETE 6" BELOW STREAMBED TO BOTTOM OF ROCK. FILL TOP 6" OF ROCK WITH NATURAL STREAMBED MATERIAL

ALTERNATIVE CUTOFF WALL WITH GROUTED ROCK

e-Notification No. 40

BD-632M, NEW SHT. 6
(AUGUST 31, 2012)

ALTERNATIVE CUTOFF WALL
WITH GROUTED ROCK DETAIL

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 41

April 12, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-609M, PA Structure Mounted Guide Rail Barrier Sht. 1 – Addition of Bolt Location Dimensions on Elevation and Section A-A
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** This e-Notification supersedes e-Notification No. 38, dated December 20, 2012. **

See attached page for sketch of revised details:

ELEVATION detail:

Add **1 3/4"** (TYP.) dimension instead of 1 1/2" (TYP.).

SECTION A-A detail:

Add bolt dimensions. Bolts are spaced at **3 13/16"** instead of 2 13/16".

Please note implementation of this revision is immediate.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 42

April 24, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-644M, Overhead Tri-Chord Truss Sign Structure, 2- Post Structure, Sht. 4: Removal of Back Side Sign from Elevation and View A-A
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Background: BC-744M, Sheet 7- on the right hand side of TOP VIEW OF TRUSS detail there is the following call-out: "SIGNS AND CATWALKS ARE PROHIBITED ON BACK SIDE OF 2-POST STRUCTURES".

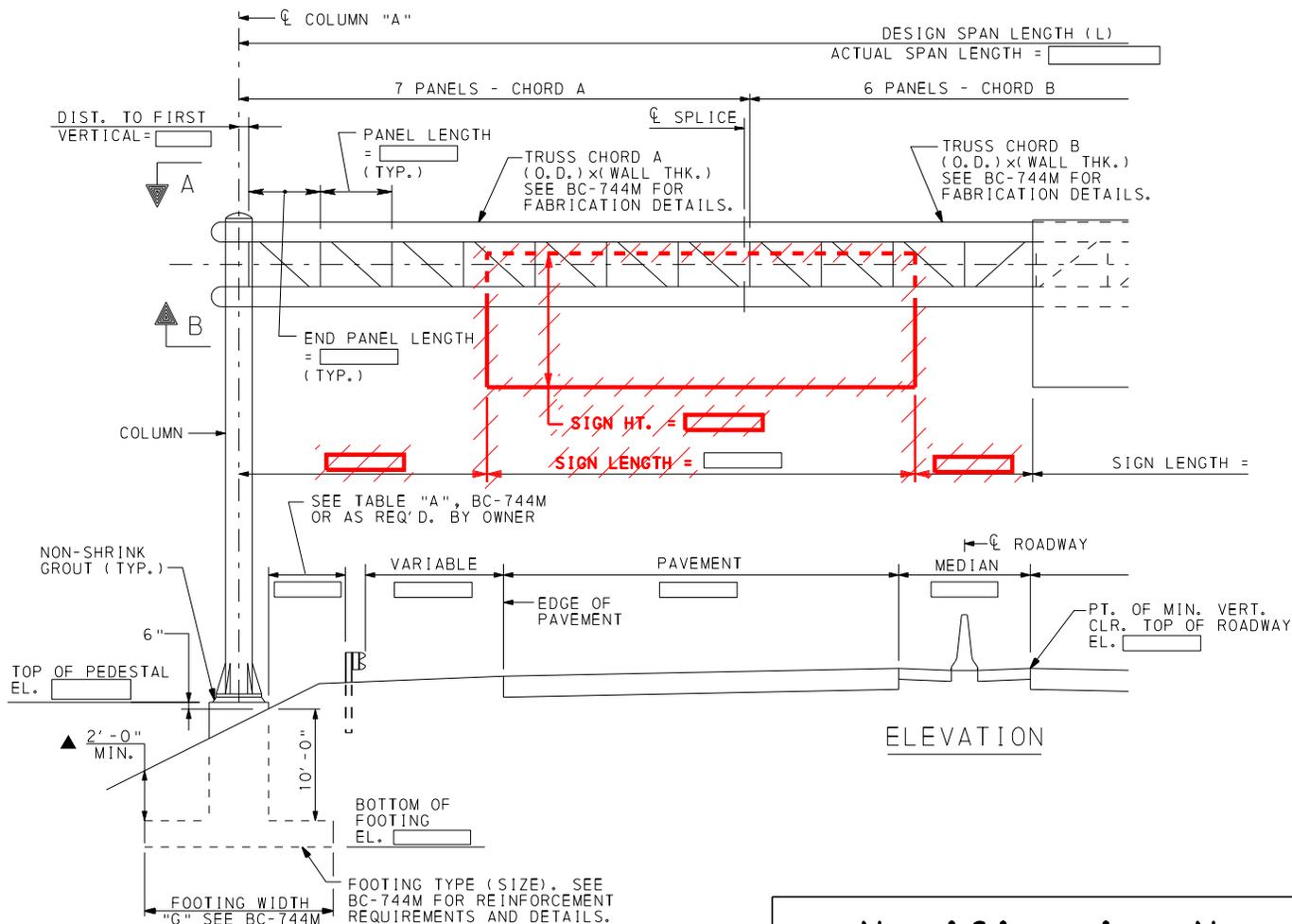
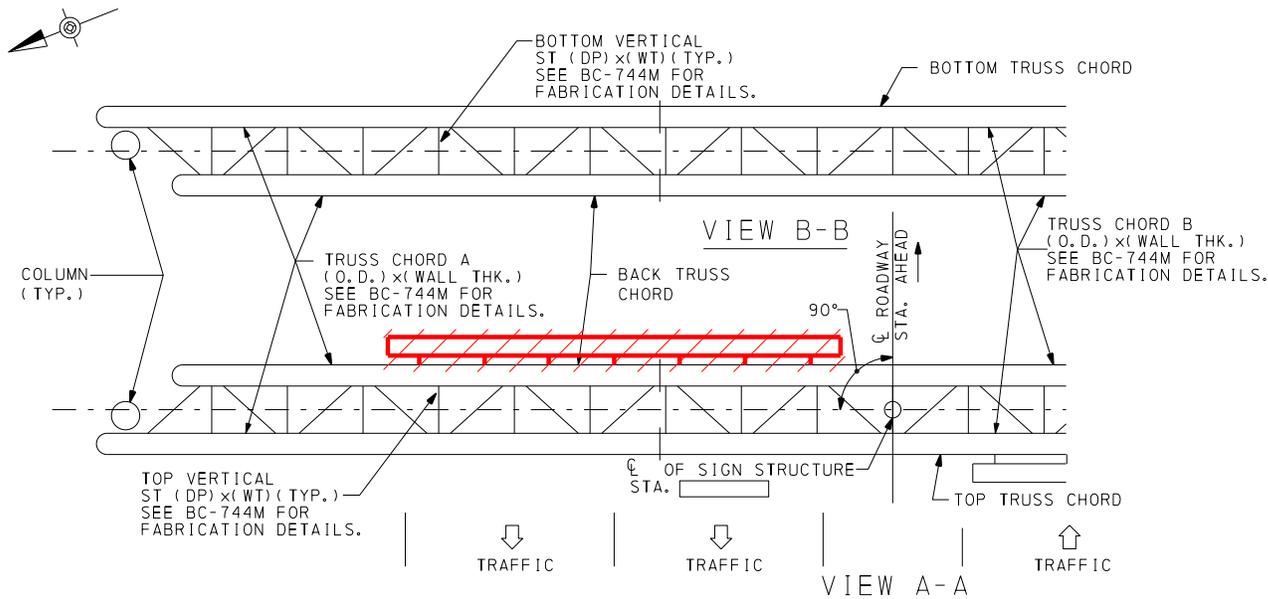
ELEVATION & VIEW A-A

To be in accordance with the above mentioned restriction, the back side sign panel is being removed from BD-644M, Sheet 4 as indicated on the attached page.

Please note: implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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e-Notification No. 42

BD-644M, SHT. 4
(AUGUST 31, 2012)

REMOVAL OF SIGN FROM BACK SIDE
OF 2-POST TRI-CHORD
OVERHEAD SIGN STRUCTURE

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 43

July 22, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-632M, R.C. BOX CULVERT MISCELLANEOUS DETAILS – PRECAST, Sht. 8 – Typical Haunch Section Detail - Diagonal reinforcement bar at end of culvert w/ PT pocket
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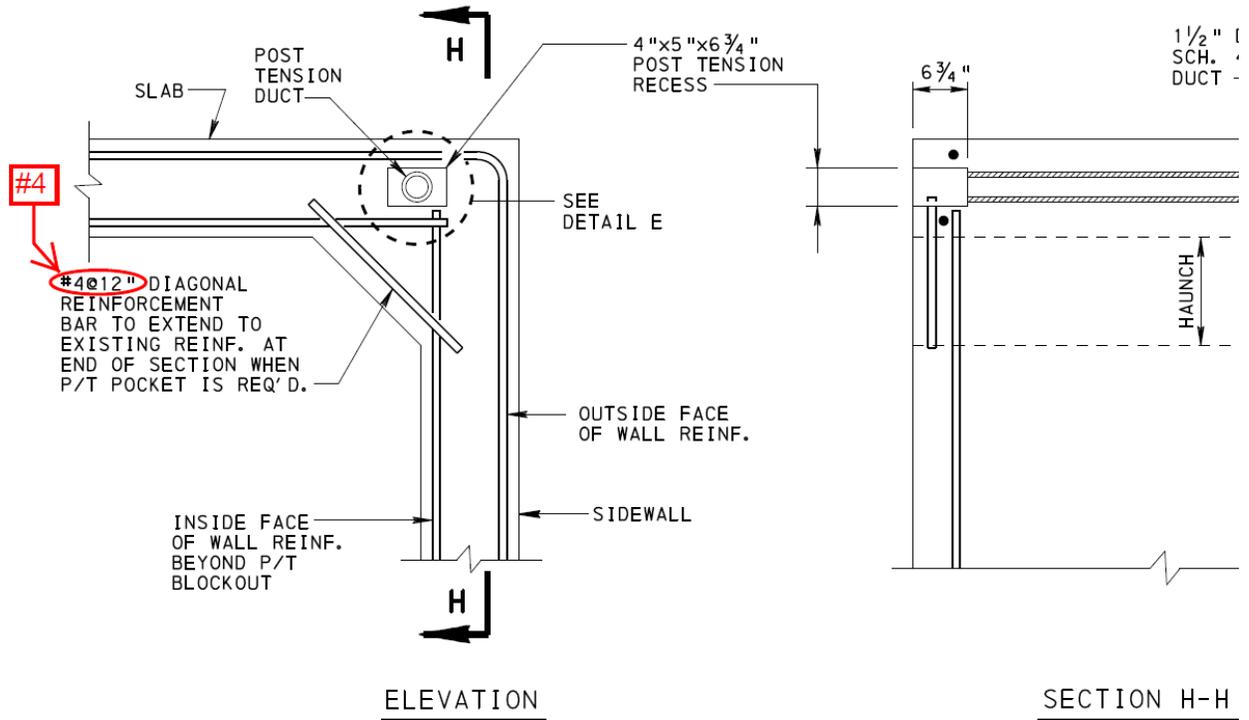
ELEVATION: remove the spacing in the callout for the diagonal reinforcement bar placed in the haunch since only a single bar is required at the end of the box culvert when a post-tensioning pocket is present. See the markup of this detail on the next page.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
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e-Notification No. 43
(BD-632M, Sht. 8)



TYPICAL HAUNCH SECTION DETAIL

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 44

October 4, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-661M, BOX BEAM REINFORCEMENT DETAILS, Sheets 2, 4 & 5 – Adjacent Box Beam Typical Sections – Repositioning of Top Slab Longitudinal Rebars, dated 8/31/2012
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BACKGROUND: A prestressed concrete beam fabricator recently reported a problem with maintaining adequate rebar cover in the top slab of adjacent box beams if its longitudinal rebars were placed as show in this standard. Prior to the 2006 revisions to this standard the beam top slab longitudinal rebars were located above its transverse reinforcement. Therefore, in order to provide adequate cover to the top slab reinforcement of adjacent box beams, the dot rebars in top slab are being repositioned to be on top of the transverse reinforcement. With the exception being the corner dot bars which are being kept as previously shown.

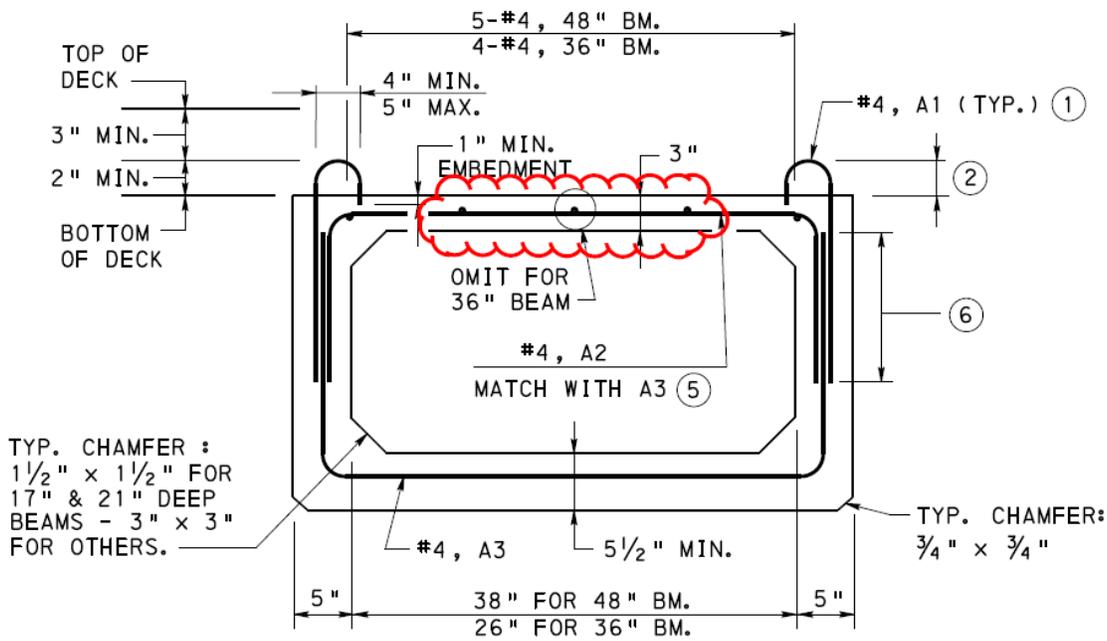
TYPICAL SECTIONS: Top slab longitudinal rebar in adjacent box beams to be repositioned to be on the top of the transverse beam reinforcement. See the four typical sections with this correction clouded in red on the next three pages.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

Archived copies of all previously distributed e-Notifications can be obtained from the PENNDOT Bridge Standards website at
<http://www.dot.state.pa.us/Internet/BQADStandards.nsf/home?OpenFrameset>

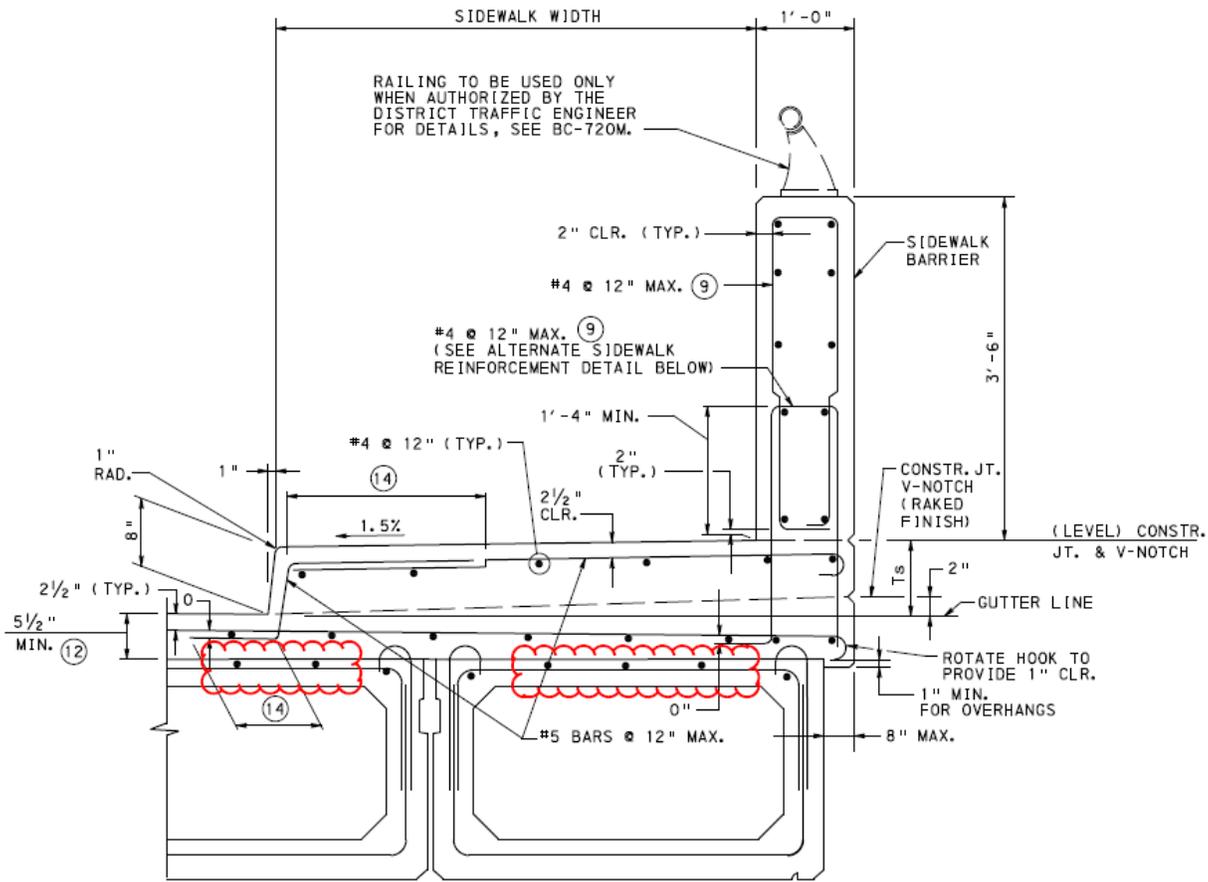
e-Notification No. 44
(BD-661M, Sht. 2)



ADJACENT BOX BEAM SECTION
 (COMPOSITE)

- FOR ADJACENT BOX BEAMS SUPPORTING BARRIERS, SEE SHEETS 4 AND 5.
- FOR PLANK BEAM DETAIL, SEE SHEET 7.

e-Notification No. 44
(BD-661M, Sht. 5)



36" & 48" COMPOSITE
ADJACENT BOX BEAMS
SUPPORTING ALTERNATE SIDEWALK

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 45

October 8, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-678M, GROUND MOUNTED SOUND BARRIERS – STEEL POSTS, Sheets 2 & 3 – Deletion of Minimum Footing Thickness Note under Spread Footing Design Parameters and extraneous line segment in SECTION A-A, dated 9/20/2010
--	---

BACKGROUND: One of the Districts reported being confused over the minimum footing depth. After extensive review, it was decided to remove the Design Parameter note regarding the minimum design footing depth.

SECTION A-A: An extraneous horizontal line segment was removed to the right side of the footing. See the revised Design Parameters Notes for Spread Footings and Section A-A on the next two pages.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

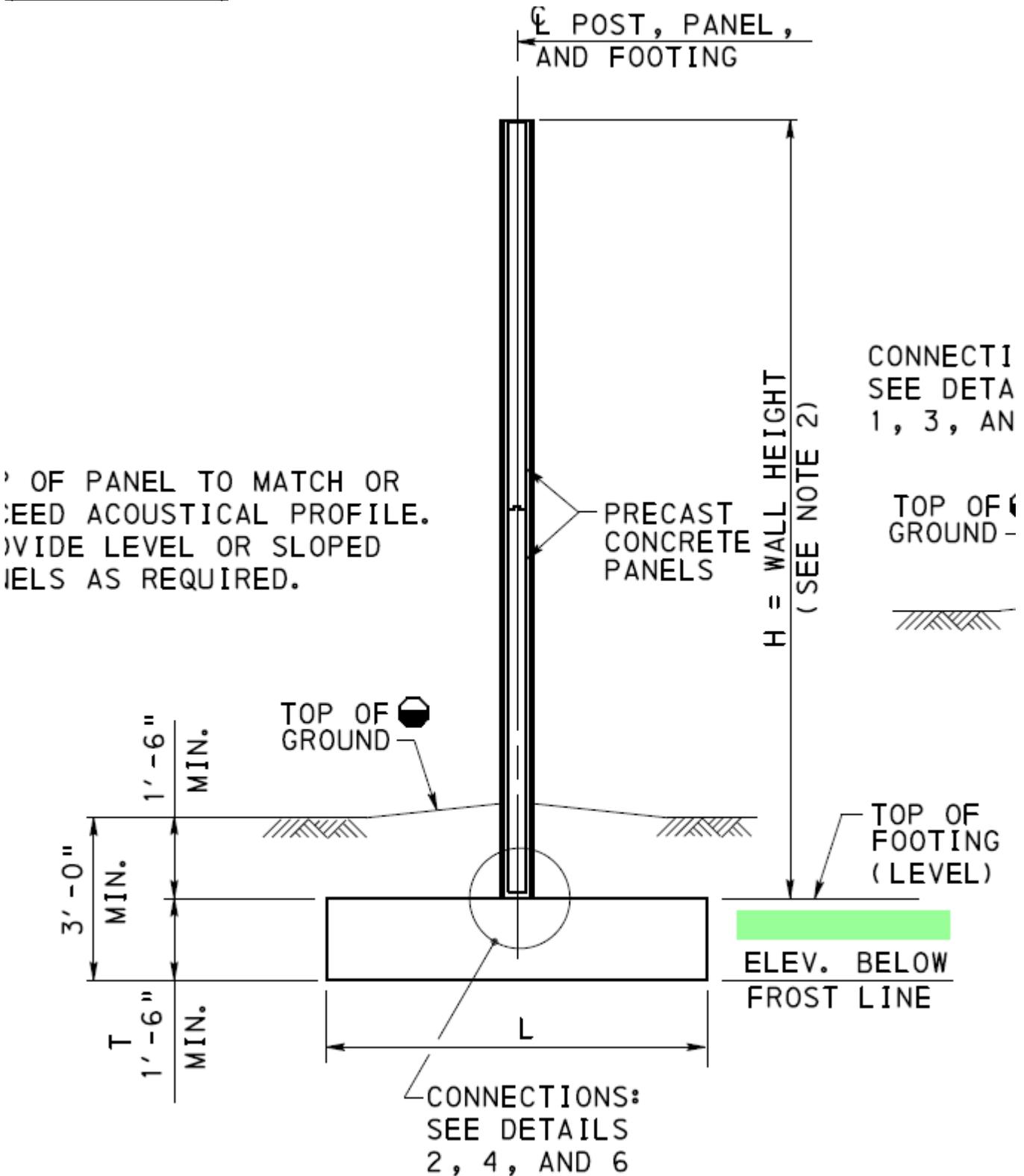
Archived copies of all previously distributed e-Notifications can be obtained from the PENNDOT Bridge Standards website at
<http://www.dot.state.pa.us/Internet/BQADStandards.nsf/home?OpenFrameset>

e-Notification No. 45

(BD-678M, Sht. 2 – DESIGN PARAMETERS)

4. SPREAD FOOTINGS:

- SPREAD FOOTINGS ARE DESIGNED BEARING ON SOIL WITH AN ALLOWABLE BEARING PRESSURE EQUAL TO 1.50 TONS/SQ. FT. AND A COEFFICIENT OF SLIDING FRICTION EQUAL TO 0.30.
- SPREAD FOOTINGS ARE DESIGNED FOR WIND PRESSURES EQUAL TO 20 PSF AND 28 PSF.
- FACTOR OF SAFETY AGAINST SLIDING = 1.50 MINIMUM
- FACTOR OF SAFETY AGAINST SLIDING FOR SEISMIC LOADING = 1.125 MINIMUM
- FACTOR OF SAFETY AGAINST OVERTURNING = 2.00 MINIMUM
- FACTOR OF SAFETY AGAINST OVERTURNING FOR SEISMIC LOADING = 1.50 MINIMUM
- WEIGHT OF BACKFILL MATERIAL = 100 LB. / CU. FT.
- PROVIDE A MINIMUM SOIL DEPTH OF 1'-6" ABOVE THE TOP OF FOOTING.
- SPREAD FOOTINGS ARE DESIGNED FOR NO UPLIFT.
- SPREAD FOOTINGS ARE DESIGNED FOR LEVEL GROUND. A SITE SPECIFIC DESIGN IS REQUIRED IF GROUND IS SLOPED.
- SPREAD FOOTINGS ARE DESIGNED WITHOUT LIVE LOAD SURCHARGE. REDESIGN FOOTINGS IF LIVE LOAD SURCHARGE IS REQUIRED.
- ALTERNATE SPREAD FOOTING DESIGNS ARE PERMITTED IF SUPPORTED ON ROCK. FOUNDATION DESIGN PARAMETERS MUST BE ACCEPTED BY THE DEPARTMENT.



SECTION A-A

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 46

December 27, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-649M, DMS CENTER-MOUNT SIGN STRUCTURES, Sheets 3 & 4, dated 11/26/2013 – Correction of Footing Depth and Two Typos in Table 1
--	---

BACKGROUND: This e-Notification is being issued to correct several recently noticed drafting errors on two sheets of this new standard drawing as noted below.

Sheet 3, SIDE ELEVATION: replace erroneous footing thickness with 2'-0".

Sheet 4, TABLE 1, PEDESTAL SIZE (E): revise two entries to be 4'-3" and 3'-9".

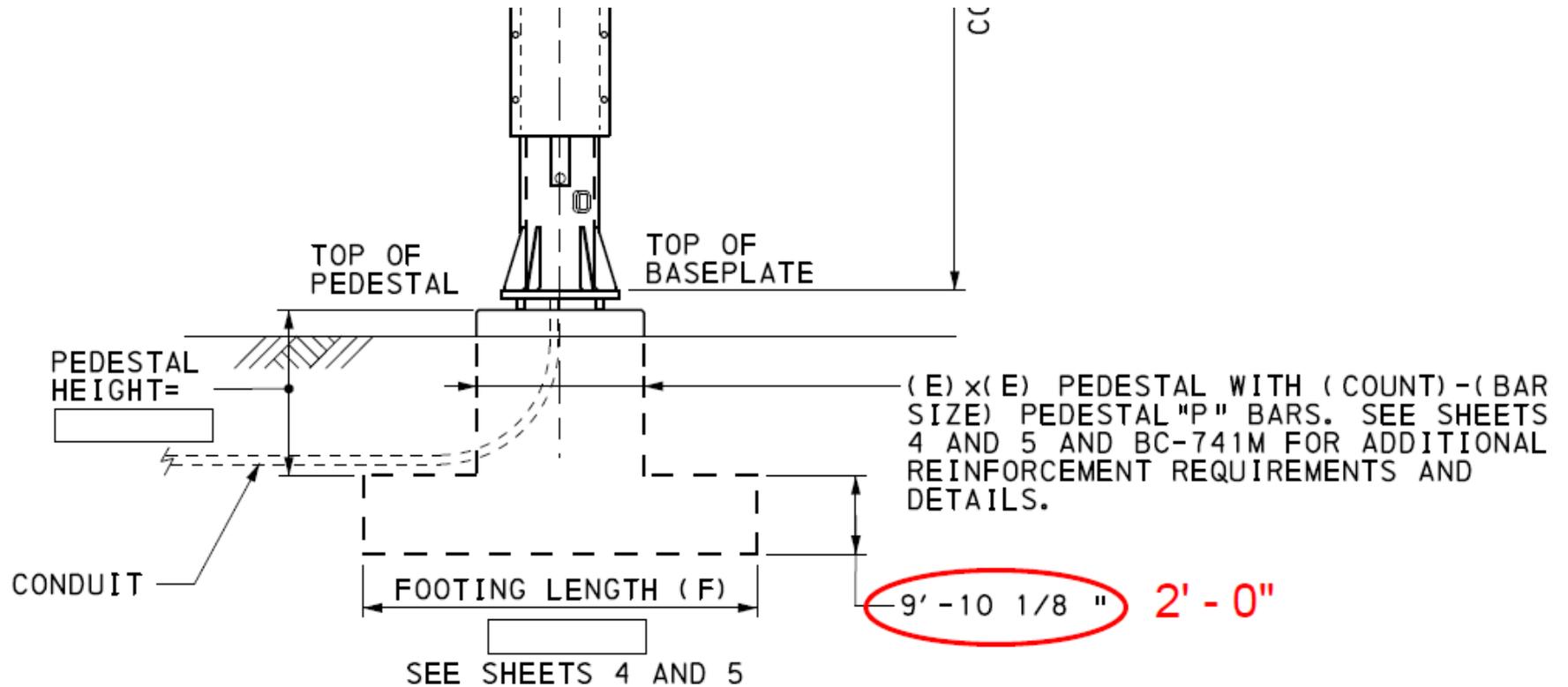
Red markups of Side Elevation and a portion of Table 1 are included on the next two pages.

Please note implementation of this revision is immediate.
Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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e-Notification No. 46 – BD-649M, Sheet 3:



SIDE ELEVATION

FRONT/BACK CATWALK SIMILAR
(WALK-IN ACCESS PLATFORM)

LADDER (IF REQUIRED) NOT
SHOWN FOR CLARITY

WITH FRONT ACCESS CATWALK

(W)	MAXIMUM ECCENTRICITY ft	STRUT SIZE	COLUMN SIZE	PEDESTAL SIZE E	#
	2.21	4" x 0.237"	20" x 0.375"	3'-9"	
	2.29	6" x 0.280"	20" x 0.375"	3'-9"	
	1.88	6" x 0.280"	20" x 0.375"	3'-9"	
	2.46	10" x 0.365"	20" x 0.375"	3'-9"	
	2.46	10" x 0.365"	24" x 0.500"	4'-3"	
	2.05	10" x 0.365"	24" x 0.500"	4'-3"	
	2.21	4" x 0.237"	20" x 0.375"	3'-9"	
	2.29	6" x 0.280"	20" x 0.375"	3'-9"	
	1.88	6" x 0.280"	20" x 0.375"	3'-9"	
	2.38	8" x 0.322"	24" x 0.500"	4'-3"	
	2.46	10" x 0.365"	24" x 0.500"	4'-3"	
	2.05	10" x 0.365"	24" x 0.500"	4'-3"	
	2.21	4" x 0.237"	20" x 0.375"	3'-9"	
	2.29	6" x 0.280"	20" x 0.375"	3'-9"	
	1.88	6" x 0.280"	20" x 0.375"	3'-9"	
	2.38	8" x 0.322"	24" x 0.500"	4'-3"	
	2.46	10" x 0.365"	24" x 0.500"	4'-3"	
	2.05	10" x 0.365"	24" x 0.500"	4'-3"	
	2.21	4" x 0.237"	20" x 0.375"	3'-9"	
	2.29	6" x 0.280"	20" x 0.375"	3'-9"	
	1.88	6" x 0.280"	24" x 0.500"	4'-3"	
	2.38	8" x 0.322"	24" x 0.500"	4'-3"	
	2.46	10" x 0.365"	24" x 0.500"	4'-3"	
	2.05	10" x 0.365"	24" x 0.938"	4'-3"	

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 47

December 30, 2013

Interim Revision to Bridge Standard Drawing(s)	BD-661M, BOX BEAM REINFORCEMENT DETAILS - ADJACENT BOX BEAM, Aug. 31, 2012 Sht. 2, ADJACENT BOX BEAM SECTIONS - Addition of missing shear keys
--	---

BACKGROUND: e-Notification No. 44 corrected the position of the top slab rebars in this standard's box beam sections. Recently it was noticed that in one of the adjacent box beam cross section details on Sheet 2 of this standard was missing the required shear keys.

Sheet 2, ADJACENT BOX BEAM SECTIONS: added missing lines for shear keys on both sides of the box. Also, added a call-out for shear keys on one side of box.

Red markups of this detail are shown on the next page.

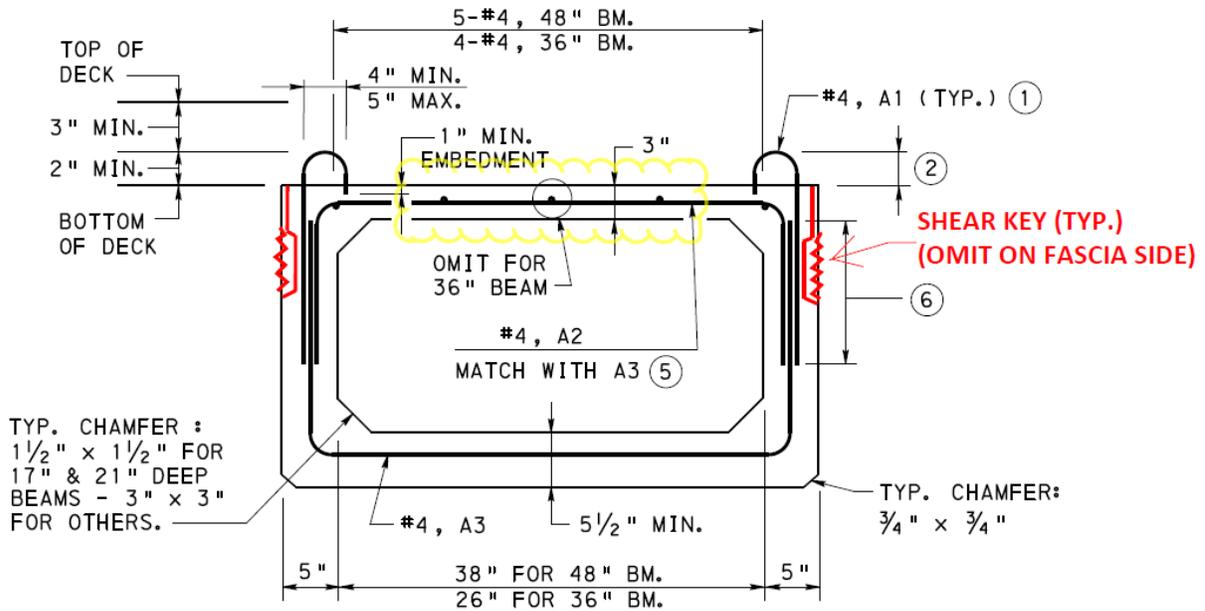
Please note implementation of this revision is immediate.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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e-Notification No. 47
(BD-661M, Sht. 2):



ADJACENT BOX BEAM SECTION
 (COMPOSITE)

- FOR ADJACENT BOX BEAMS SUPPORTING BARRIERS, SEE SHEETS 4 AND 5.
- FOR PLANK BEAM DETAIL, SEE SHEET 7.

■ e-Notification No. 44, dated 10-4-2013

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 48

February 24, 2014

Interim Revision to Bridge Standard Drawing(s)	BD-627M, MOMENT SLABS, Aug. 31, 2012 Sht. 5, MOMENT SLAB (BURIED) WITH TOE WALL AND TYPICAL C.I.P. BARRIER – Correction of Front Face dimension from Top of Ground line to Gutter line
--	---

BACKGROUND: A designer reported this detail's dimension problem using the problem reporting link on the lower portion of the Bridge Standard Drawings Web Page.

DETAIL - MOMENT SLAB (BURIED) WITH TOE WALL AND TYPICAL C.I.P. BARRIER: Revise **3'-0" MAX.** dimension for height of exposed front face of toe wall up to the gutter line to be **4'- 1 ½" MAX.**

Red markups of this detail are shown on the next page.

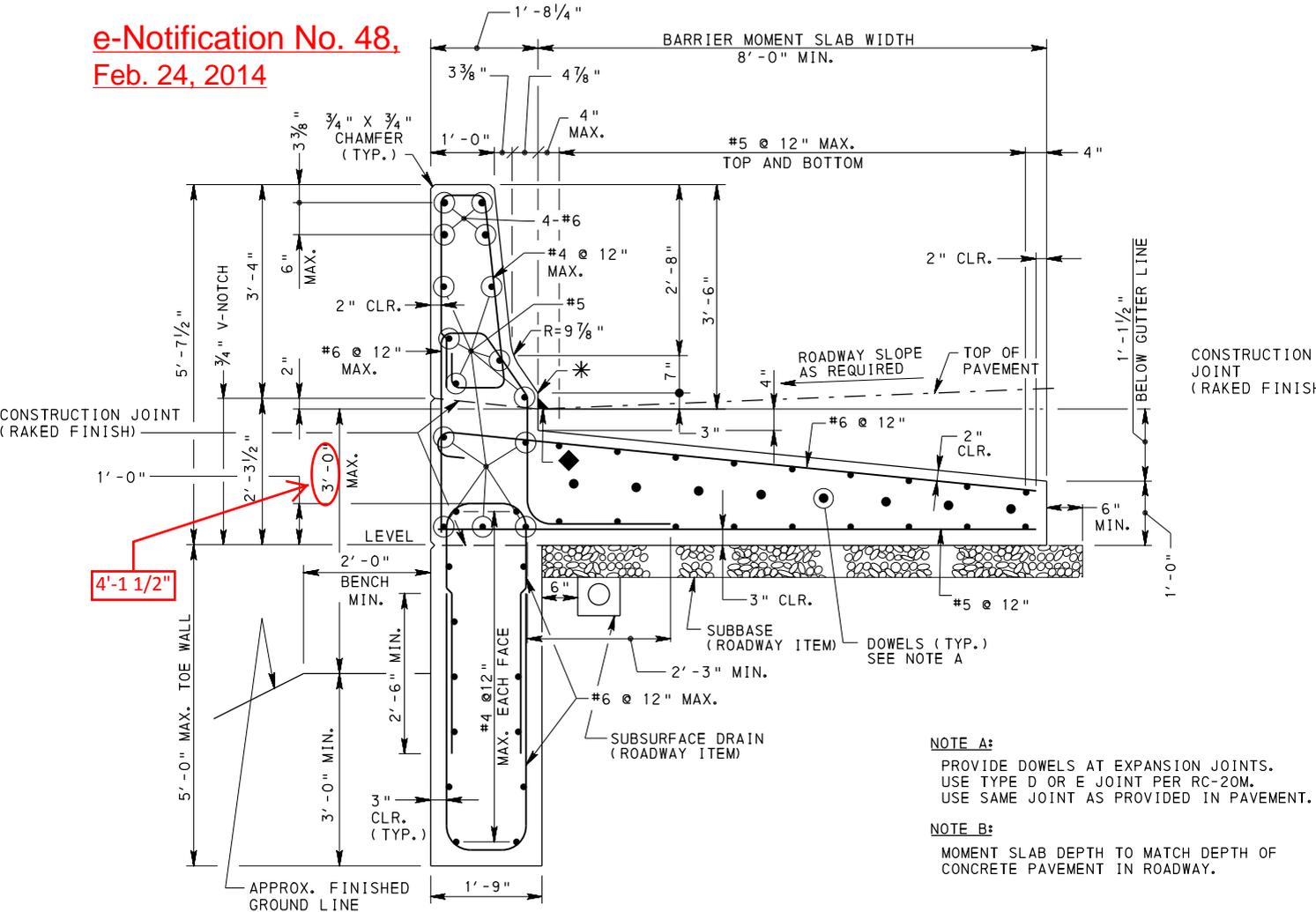
Please note that implementation of this revision is immediate.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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<http://www.dot.state.pa.us/Internet/BQADStandards.nsf/home?OpenFrameset>

e-Notification No. 48,
Feb. 24, 2014



NOTE A:
 PROVIDE DOWELS AT EXPANSION JOINTS.
 USE TYPE D OR E JOINT PER RC-20M.
 USE SAME JOINT AS PROVIDED IN PAVEMENT.

NOTE B:
 MOMENT SLAB DEPTH TO MATCH DEPTH OF
 CONCRETE PAVEMENT IN ROADWAY.

BD-627M, Sht. 5,] **MOMENT SLAB (BURIED) WITH TOE WALL**
AND TYPICAL C.I.P. BARRIER
 dated 8-31-2012

SEE SHEET 6 FOR PLAN OF C.I.P. MOMENT SLAB

- * R=1"
- ◆ ASPHALT RUBBER SEALING COMPOUND [PUB. 408, SECTION 705.4(g)]

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 49

April 21, 2014

Interim Revision to Bridge Standard Drawing(s)	BD-601M, CONCRETE DECK SLAB, NOV. 26, 2013 Sht. 8, HAUNCH REINFORCEMENT DETAILS - P/S CONC. PA I-BEAM & PA BULB-TEE BEAMS – Increase haunch depth from 3” to 5” for which haunch reinforcement is required for Interior bays with SIP forms.
--	---

BACKGROUND: A designer recently pointed out that there was an inconsistency in the haunch depth limit, which when exceeded, requires transverse reinforcement be placed in haunch.

Sht. 8, HAUNCH REINFORCEMENT DETAILS – P/S CONC. PA I-BEAM & PA BULB-TEE BEAMS: Revise haunch thickness limit from 3” to 5” in note beneath title of this detail. Also, added WITH SIP FORMS FOR INTERIOR BAYS to end of this same note.

Red markups of this detail are shown on the next page.

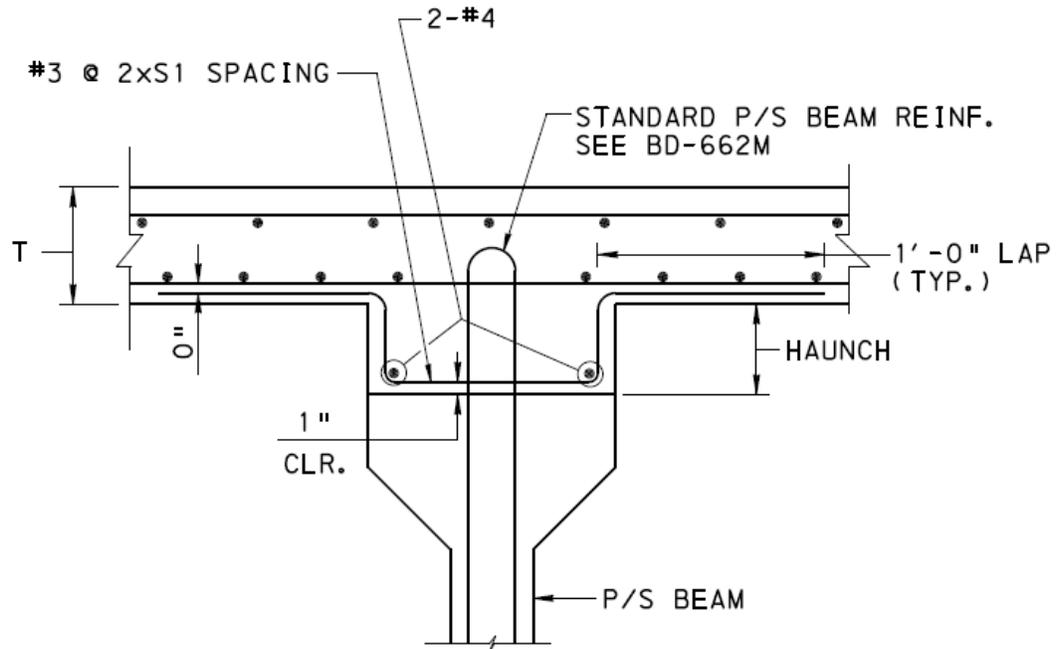
Please note that implementation of this revision is immediate.

Direct any questions concerning the above issue to:

Guozhou Li, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 214-8773 Fax: (717) 787-2882
guli@pa.gov

Archived copies of all previously distributed e-Notifications can be obtained from the PENNDOT Bridge Standards website at <http://www.dot.state.pa.us/Internet/BQADStandards.nsf/home?OpenFrameset>

e-Notification No. 49 – BD-601M, Sheet 8:



P/S CONC. PA I-BEAM & PA BULB-TEE BEAMS

PROVIDE WHEN HAUNCH THICKNESS IS 3" OR GREATER
ANYWHERE ACROSS WIDTH OF HAUNCH

5"

WITH SIP FORMS FOR
INTERIOR BAYS

This e-Notification deleted by SOL 483-16-02 which issued April 2016 Edition on 5/10/2016

=====
PennDOT BDTD Publications e-Notification
Bureau of Project Delivery
Bridge Design and Technology Division
=====
Publication No. 218M
Standard: BD-632M
RE: Shts. 10, 11 & 13
No. 51
Date: 1-13-15
=====

Background

An inadvertent error in the baffles shown on sheets 10, 11 and 13 of the BD-632M standard, dated Nov. 21, 2014, which was included in Change 3. Since the issuance of SOL 483-14-09 on December 15, 2014, the BD-632M has been available via two links provided in the attachments to this letter and late last week from our Bridge Standards web page. This problem was corrected and the revised BD-632M was placed onto the various storage folders on Jan. 12th.

Required Action

Please re-download this standard and the Change 3 Transmittal Letter to be sure that you are working with the latest/corrected documents.

The Publications Office has been contacted in time to incorporate this correction and all printed sets of Change 3 will include the revised BD-632M and the Dec. 15, 2014 Transmittal Letter.

Use our Standards Web Page or the following pair of links to access these two updated documents:

For PennDOT users:

<P:\bridge shared\Bridge Standards Revisions\BD-600M Series, Pub 218M thru Change 3, November 2014\bd632m.pdf>

<P:\bridge shared\Bridge Standards Revisions\BD-600M Series, Pub 218M thru Change 3, November 2014\Transmittal Letter for BD-600M, Change 3.pdf>

For non-PennDOT users:

ftp://ftp.dot.state.pa.us/Bureau_of_Project_Delivery/Bridge/Bridge_Standards_of_Change_3/BD632M.pdf

[ftp://ftp.dot.state.pa.us/Bureau_of_Project_Delivery/Bridge/Bridge_Standards_of_Change_3/Transmittal Letter for BD-600M, Change 3.pdf](ftp://ftp.dot.state.pa.us/Bureau_of_Project_Delivery/Bridge/Bridge_Standards_of_Change_3/Transmittal_Letter_for_BD-600M,_Change_3.pdf)

Please direct any questions to:

Gary P. Gordon, P.E.
PENNDOT Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551
Fax: (717) 787-2882
email: gagordon@pa.gov

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Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 52

January 23, 2015

Interim Revision to Bridge Standard Drawing(s)	BD-605M, FULL DEPTH PRECAST CONCRETE DECK PANELS FOR PRESTRESSED CONCRETE PA BULB-TEE BEAM AND STEEL I-BEAM/I-GIRDER BRIDGES, Nov. 21, 2014, Sht. 4 - Haunch Dimension Correction.
--	---

BACKGROUND: This newly released standard is inadvertently displaying 3" MIN instead of 3" MAX for the beam haunch thickness.

Sheet 4 – REMOVABLE HAUNCH FORMWORK DETAIL – INTERIOR STEEL BEAM/GIRDER: Maximum haunch thickness corrected to read 3" MAX. instead of 3" MIN.

Red markups of this detail are shown on the next page.

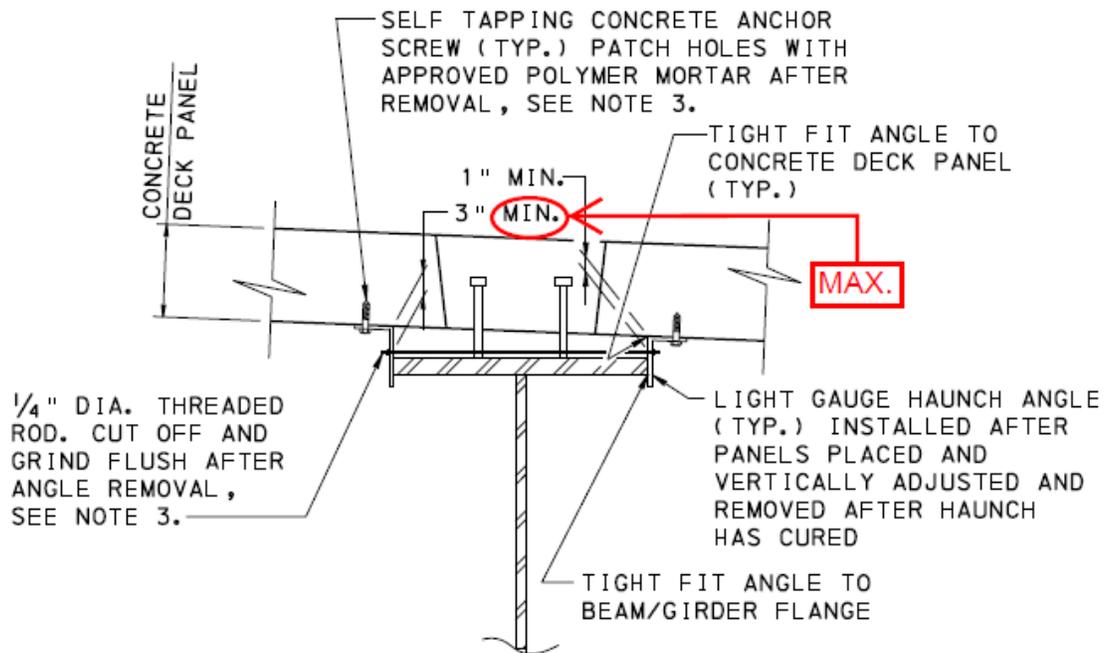
Please note that implementation of this correction is immediate.

Direct any questions concerning the above issue to:

Guozhou Li, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 214-8773 Fax: (717) 787-2882
guli@pa.gov

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e-Notification No.52, BD-605M, Sht. 4 – Haunch Dimension Correction:



REMOVABLE HAUNCH FORMWORK DETAIL
INTERIOR STEEL BEAM/GIRDER

Bureau of Project Delivery
Bridge Design and Technology
Division



PennDOT e-Notification No. 53

March 18, 2015

Interim Revision to Bridge Standard Drawing(s)
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BD-662M, I-BEAM & PA BULB-TEE BEAM REINFORCEMENT DETAILS, Aug. 31, 2012, Sht. 3 – Beam Dap Details – Dap Width Correction.

BACKGROUND: An inconsistency in how the beam dap width was displayed was pointed out via the Bridge Division's web page Bridge Standards Problems email submission link.

Sheet 3 – BEAM DAP DETAILS – SECTION B-B AT LOW END OF BEAM: Dap Width, "W" and dimension "A" are both denoted to be MEASURED NORMAL TO CL BEARINGS, but should be MEASURED ALONG CENTERLINE BEAM as indicated in PLAN. See attached red markup sheet.

Please note that implementation of this correction is immediate.

Direct any questions concerning the above issue to:

Gary P. Gordon, P.E.
PennDOT, Bureau of Project Delivery
Bridge Design and Technology Division
Phone: (717) 783-7551 Fax: (717) 787-2882
gagordon@pa.gov

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e-Notification No.53, BD-662M, Sht. 3 – Beam Dap Width Correction:

