

TEMPORARY CONCRETE
BARRIER ATTACHMENTS



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

SECTION
605-300

REFERENCES

TEMPORARY CONCRETE BARRIER WALL Requirements for Connection to Bridge Railings and Permanent Barrier Walls

- 1.) THESE NOTES APPLY TO THE REQUIREMENTS FOR THE CONNECTION OF A TEMPORARY CONCRETE BARRIER WALL TO A PERMANENT BARRIER WALL AND A BRIDGE RAILING WALL WITH THE SAFETY SHAPE, A BRIDGE RAILING WALL WITH A VERTICAL FACE, A BRIDGE RAILING WALL WITH AN ADJACENT SIDEWALK, AND A BRIDGE RAIL & POST WITH A SAFETY CURB. IMPLEMENT THESE CONNECTIONS WITH THRIE BEAM GUARDRAIL AND THRIE BEAM TERMINAL CONNECTORS WITH SUPPLEMENTAL BLOCKOUTS WHEN REQUIRED. W-BEAM GUARDRAIL IS PROHIBITED FOR USE AS CONNECTION HARDWARE.
- 2.) WHEN CONNECTING THE END OF A LINE OF TEMPORARY CONCRETE BARRIER WALL TO A STRUCTURE SUCH AS PERMANENT BARRIER WALL OR A BRIDGE RAILING, ANCHOR THE LAST TWO (2) SECTIONS OF THE LINE OF TEMPORARY CONCRETE BARRIER WALL ADJACENT TO THE STRUCTURE TO ENSURE STABILIZATION OF THE TEMPORARY CONCRETE BARRIER WALL AND INTEGRITY OF THE CONNECTION HARDWARE. IMPLEMENT THE ANCHORAGE OF THE TEMPORARY CONCRETE BARRIER WALL, INCLUDING INSTALLATION OF THE CONNECTION HARDWARE, MATERIALS, ETC., IN ACCORDANCE WITH THE REQUIREMENTS OF THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION" AND AS DIRECTED BY THE ENGINEER.
- 3.) UTILIZE AND INSTALL ONLY THOSE TEMPORARY CONCRETE BARRIER WALLS DESIGNED AND APPROVED FOR ANCHORAGE WHEN THE ROADWAY CONDITIONS, THE PLANS, THE SPECIFICATIONS, OR THE ENGINEER INDICATES OR DIRECTS ANCHORAGE IS NECESSARY. WHEN ANCHORAGE IS REQUIRED FOR ANY SECTIONS OF TEMPORARY CONCRETE BARRIER WALL WITHIN A LINE OF TEMPORARY CONCRETE BARRIER WALL, ALL SECTIONS OF THE TEMPORARY CONCRETE BARRIER WALL THAT REQUIRES ANCHORAGE SHALL BE THE SAME TYPE AND DESIGN AND SHALL HAVE THE SAME TYPE OF CONNECTION APPARATUS OR HARDWARE.
- 4.) ANCHORAGE FOR THE LAST TWO (2) SECTIONS OF A LINE OF TEMPORARY CONCRETE BARRIER WALL SHALL BE INSTALLED ON EITHER OF FOUR (4) TYPES OF FOUNDATION PADS.
 - (A) TYPE I FOUNDATION - A PORTABLE PAD CONSTRUCTED OF 8 INCHES OF CLASS 4000 PORTLAND CEMENT CONCRETE, REINFORCED WITH #5 REBAR SPACED ON NO GREATER THAN A 12 INCH X 24 INCH GRID. THE 8 INCH DEPTH FOR THE CONCRETE IS A MINIMUM THICKNESS REQUIREMENT FOR THIS FOUNDATION.
 - (B) TYPE II FOUNDATION - A CONCRETE ROADWAY WITH A MINIMUM THICKNESS OF 8 INCHES.
 - (C) TYPE III FOUNDATION - A BRIDGE WITH A BRIDGE DECK THICKNESS OF 14 INCHES OR GREATER.
 - (D) TYPE IV FOUNDATION - A BRIDGE WITH A BRIDGE DECK THICKNESS LESS THAN 14 INCHES.
- 5.) UTILIZE EITHER THE "ADHESIVE BONDING METHOD" OR THE "BOLT THROUGH DECK METHOD" BASED ON SITE CONDITIONS AND THE FOUNDATION TYPE. FOR ANCHORAGE TO A REINFORCED PORTABLE CONCRETE PAD OR A CONCRETE ROADWAY, UTILIZE THE "ADHESIVE BONDING METHOD" AND INSTALL THE ANCHORS AT A DEPTH OF 6 1/2 INCHES. FOR ANCHORAGE TO BRIDGE DECKS, INSTALL EACH ANCHOR IN ACCORDANCE WITH THE ANCHORAGE AND ATTACHMENT REQUIREMENTS FOR TEMPORARY CONCRETE BARRIER WALLS TO BRIDGE DECKS IN ACCORDANCE WITH THE BARRIER WALL TYPE AND AS SPECIFIED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION".
- 6.) ONLY INSTALL ANCHORS ON THE TRAFFIC SIDE OF THE TEMPORARY CONCRETE BARRIER WALL. ANCHOR EACH OF THE TWO SECTIONS OF TEMPORARY CONCRETE BARRIER WALL WITH FIVE (5) OR SIX (6) ANCHORS IN ACCORDANCE WITH THE BARRIER WALL TYPE AND AS SPECIFIED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION".
- 7.) EXCAVATE THE SITE LOCATION PRIOR TO THE INSTALLATION OF A TYPE I FOUNDATION. UTILIZE THE TYPE I FOUNDATION AT ALL TIMES WHEN THE EXISTING PAVEMENT STRUCTURE IS NOT CONCRETE OR IN COMPLIANCE WITH THE REQUIREMENTS OF A TYPE II, III, OR IV FOUNDATION. INSTALL THE TYPE I FOUNDATION TO PROVIDE THE SAME GRADE ELEVATION OF THE TOP OF THE TYPE I FOUNDATION AS THE ADJACENT TRAVEL LANE OR SHOULDER. BACKFILL AND DRESS THE AREAS ADJACENT TO THE EDGES OF THE TYPE I FOUNDATION.
- 8.) INSTALL, ATTACH, AND MAINTAIN ALL THRIE BEAM GUARDRAIL AND THRIE BEAM TERMINAL CONNECTORS UTILIZED FOR CONNECTING THE END OF A LINE OF TEMPORARY CONCRETE BARRIER WALL TO A STRUCTURE SUCH AS A PERMANENT BARRIER WALL OR A BRIDGE RAILING AS DIRECTED BY THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" LATEST EDITION, ALL SUPPLEMENTAL SPECIFICATIONS, THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION", THE SPECIAL PROVISIONS, THE PLANS, AND THE ENGINEER. FOR ADDITIONAL INFORMATION REGARDING INSTALLATION AND ATTACHMENT DETAILS OF THE THRIE BEAM GUARDRAIL AND THE THRIE BEAM TERMINAL CONNECTORS, CONTACT ROADWAY DESIGN.
- 9.) INSTALL BLOCKOUTS AS ILLUSTRATED TO MAINTAIN STRENGTH AND INTEGRITY OF THE THRIE BEAM GUARDRAIL. INSTALL BLOCKOUTS AS DIRECTED BY THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" LATEST EDITION, ALL SUPPLEMENTAL SPECIFICATIONS, THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION", THE SPECIAL PROVISIONS, THE PLANS, AND THE ENGINEER.

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell
SIGNATURE
7/1/10
DATE

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2	4-20-10	JCS	ANCHORAGE REVISIONS
1	6-2-08	JCS	ANCHORAGE REVISIONS
0	11-19-07	JCS	ANCHORAGE REVISIONS
#	DATE	CHK	DESCRIPTION

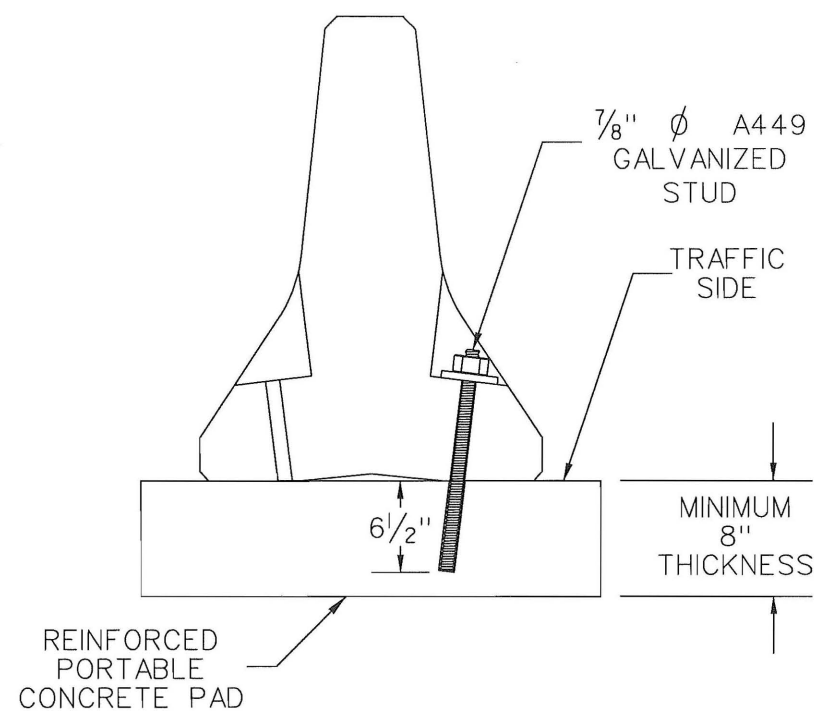
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
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COLUMBIA, SC 29201

STANDARD DRAWING
TEMPORARY CONCRETE BARRIER CONNECTION REQUIREMENTS TO BRIDGE RAILINGS & PERMANENT BARRIER WALLS

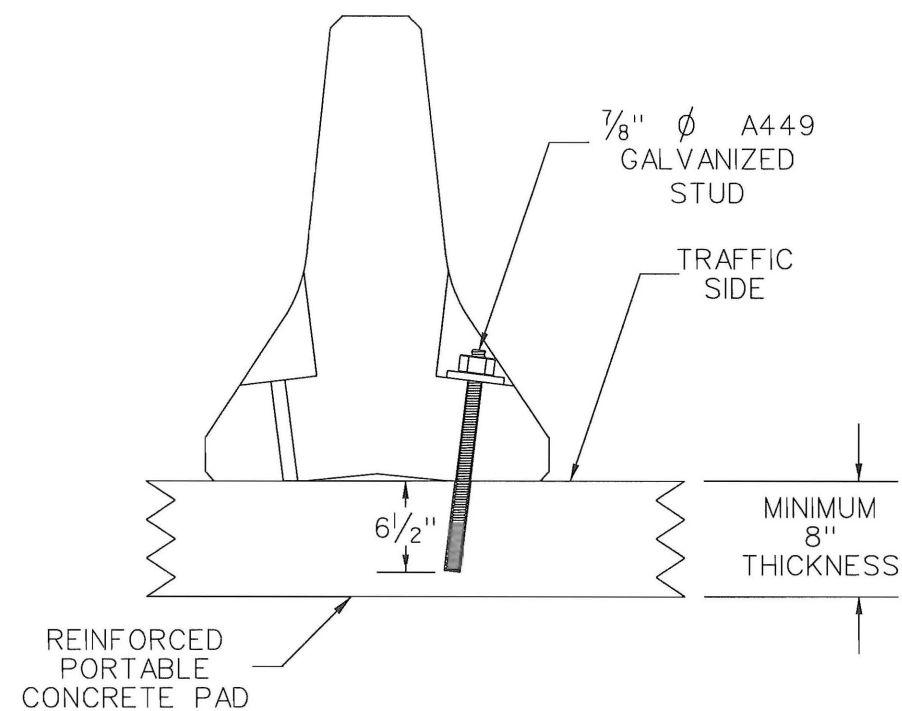
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EFFECTIVE LETTING DATE JAN 2011

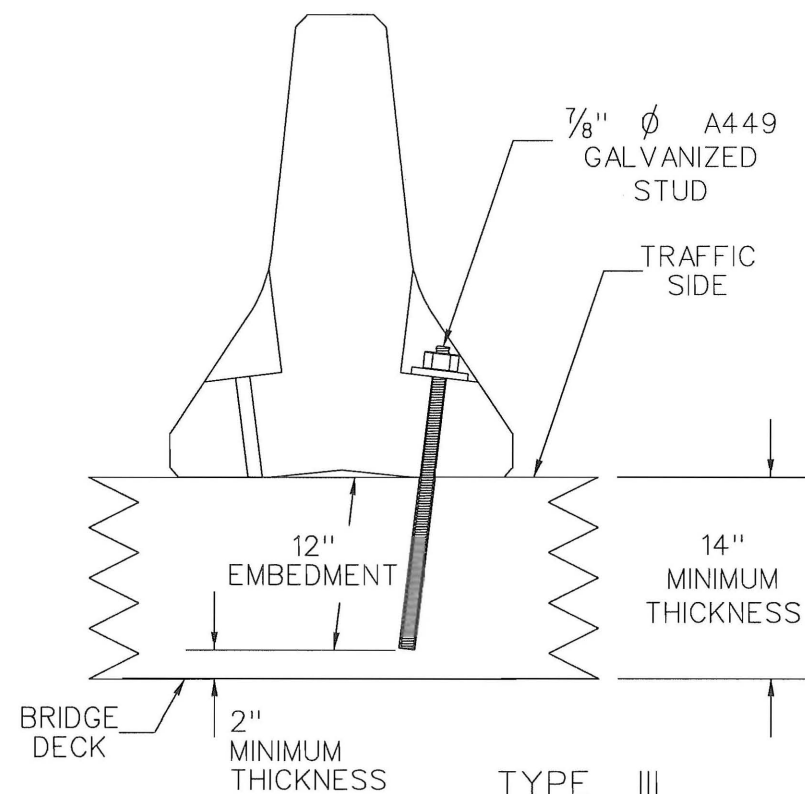
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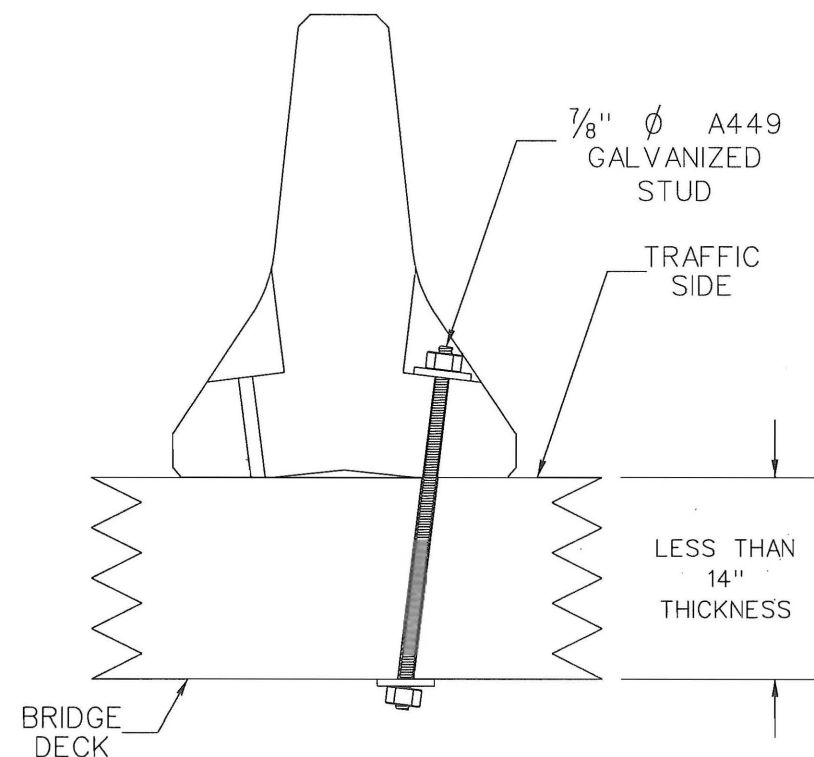
TYPE I
FOUNDATION
TYPICAL
REINFORCED PORTABLE
CONCRETE PAD



TYPE II
FOUNDATION
TYPICAL
CONCRETE ROADWAY



TYPE III
FOUNDATION
TYPICAL
BRIDGE DECK
MINIMUM 14" THICKNESS

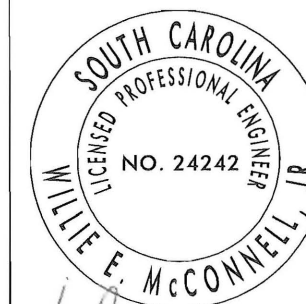


TYPE IV
FOUNDATION
TYPICAL
BRIDGE DECK
LESS THAN 14" THICKNESS

THIS DRAWING IS NOT TO SCALE

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



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7/1/10
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2	4-20-10	JCS	ANCHORAGE UPDATE
1	6-6-08	JCS	ANCHORAGE UPDATE
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#	DATE	CHK	DESCRIPTION

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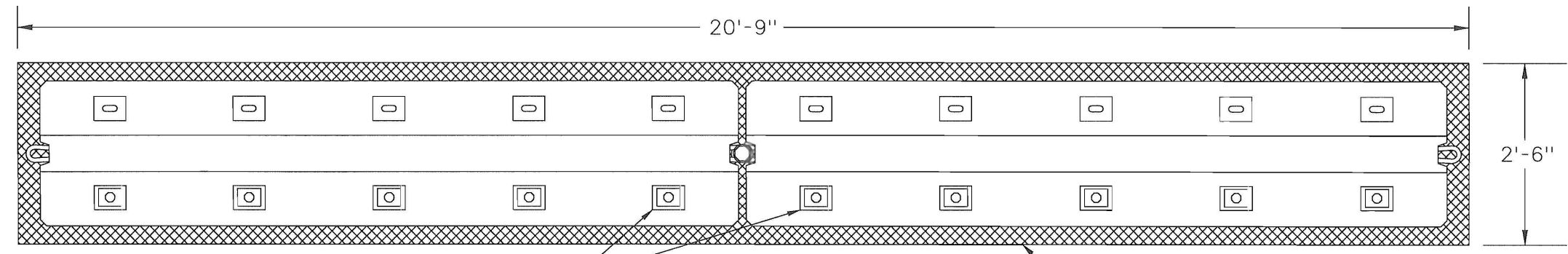
STANDARD DRAWING

TEMPORARY
CONCRETE BARRIER
CONNECTION
ANCHORAGE
REQUIREMENTS PER
FOUNDATION TYPES

605-310-01
EFFECTIVE LETTING DATE JAN 2011

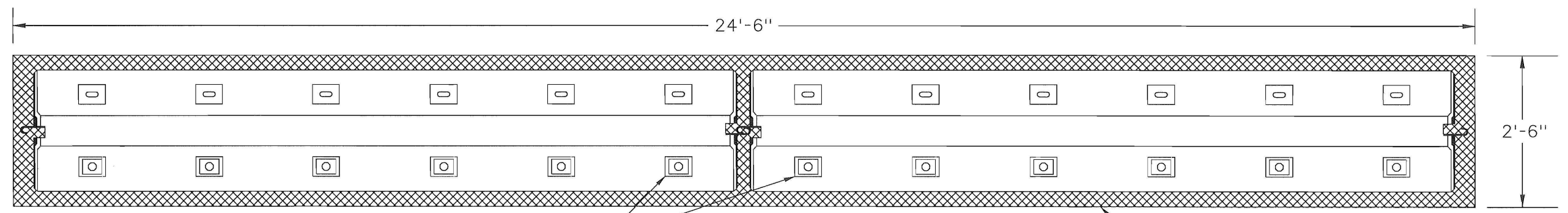
REFERENCES

TYPE I FOUNDATION ANCHORAGE LAYOUTS
TYPICAL LAYOUTS
(10' AND 12' BARRIER WALLS)



ANCHOR TRAFFIC SIDE ONLY

PORTABLE CONCRETE PAD

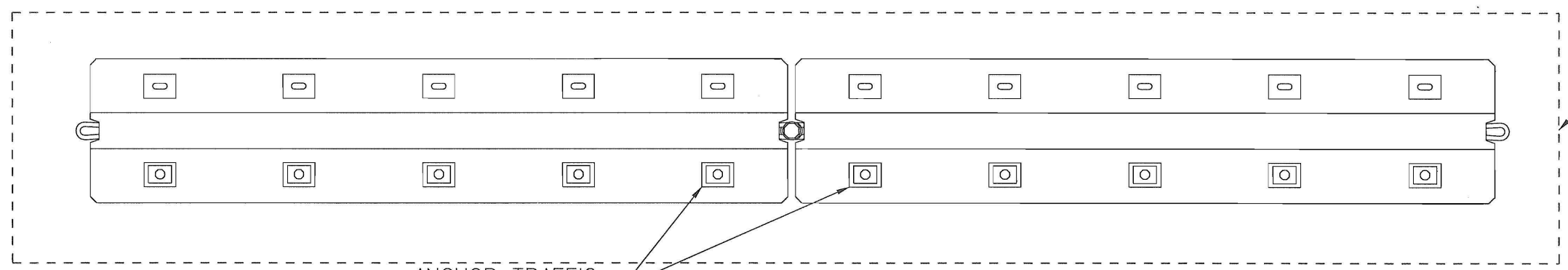


ANCHOR TRAFFIC SIDE ONLY

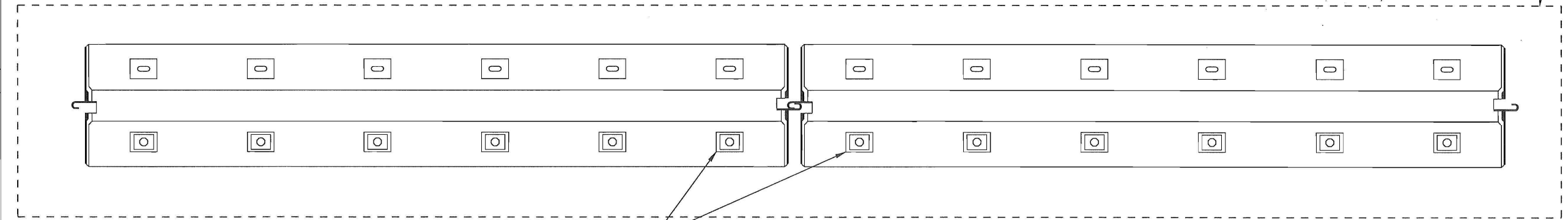
PORTABLE CONCRETE PAD

TYPES II, III, & IV FOUNDATION ANCHORAGE LAYOUTS
TYPICAL LAYOUTS
(10' AND 12' BARRIER WALLS)

CONCRETE ROADWAY OR BRIDGE SURFACES



ANCHOR TRAFFIC SIDE ONLY



ANCHOR TRAFFIC SIDE ONLY

WORK ZONE TRAFFIC CONTROL ENGINEER



W. McConnell
SIGNATURE
7/1/10
DATE

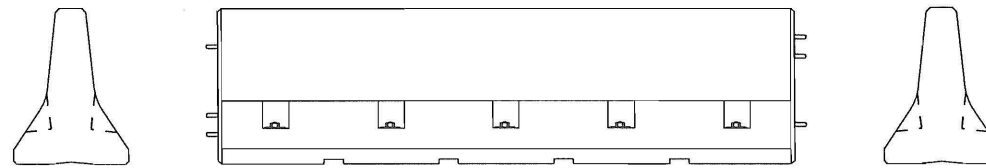
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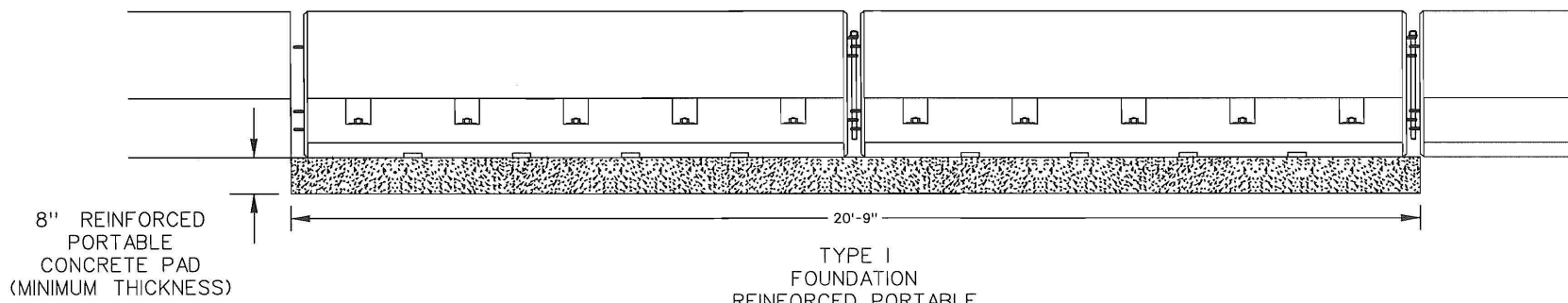
STANDARD DRAWING
TEMPORARY CONCRETE BARRIER CONNECTION ANCHORAGE PER FOUNDATION TYPES PLAN VIEW

605-310-02
EFFECTIVE LETTING DATE: JAN 2011

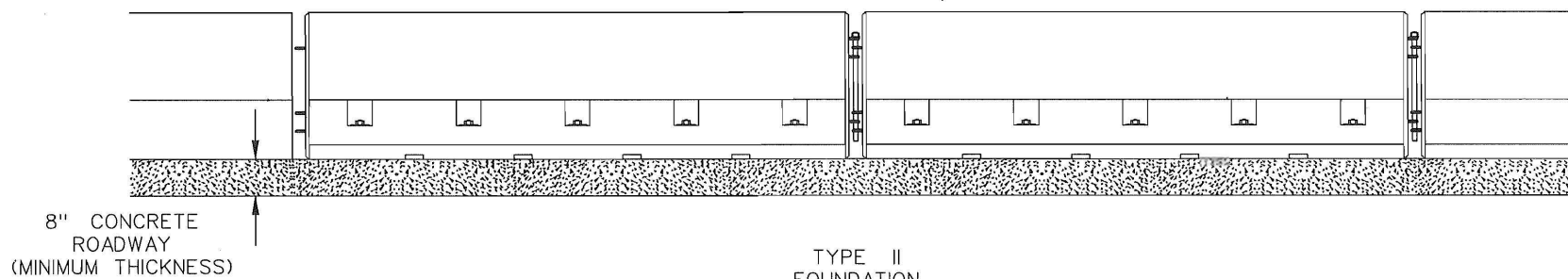
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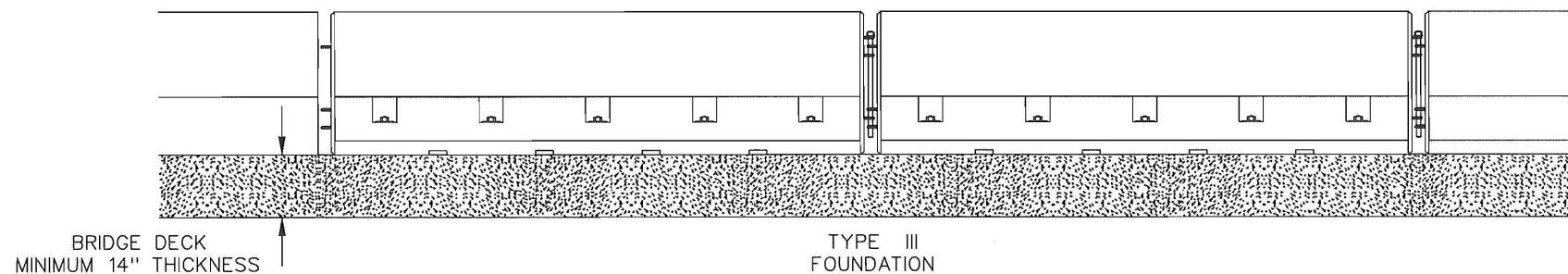
TEMPORARY CONCRETE BARRIER
10'
--TYPICAL--



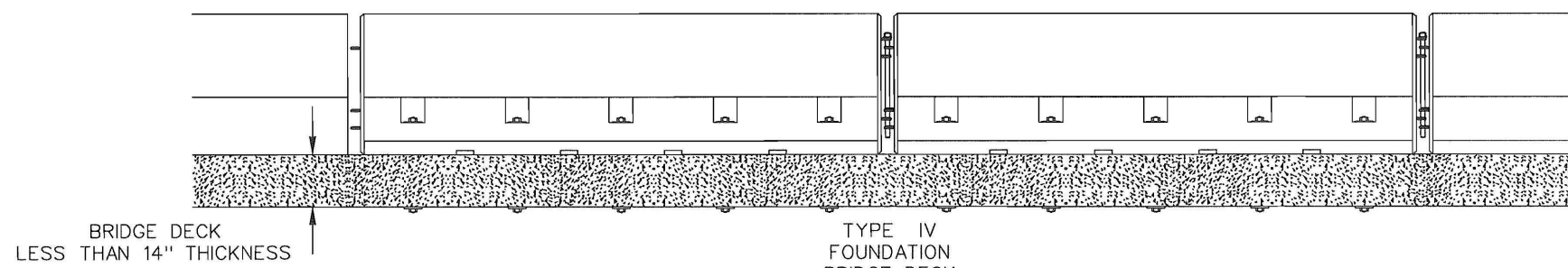
TYPE I
FOUNDATION
REINFORCED PORTABLE
CONCRETE PAD



TYPE II
FOUNDATION
CONCRETE ROADWAY



TYPE III
FOUNDATION
BRIDGE DECK
MINIMUM 14" THICKNESS



TYPE IV
FOUNDATION
BRIDGE DECK
LESS THAN 14" THICKNESS

THIS DRAWING IS NOT TO SCALE

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie McConnell
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1	6-10-08	JCS NEW DRAWING
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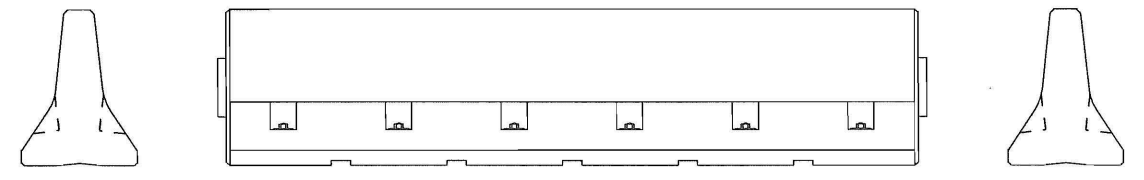
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STANDARD DRAWING

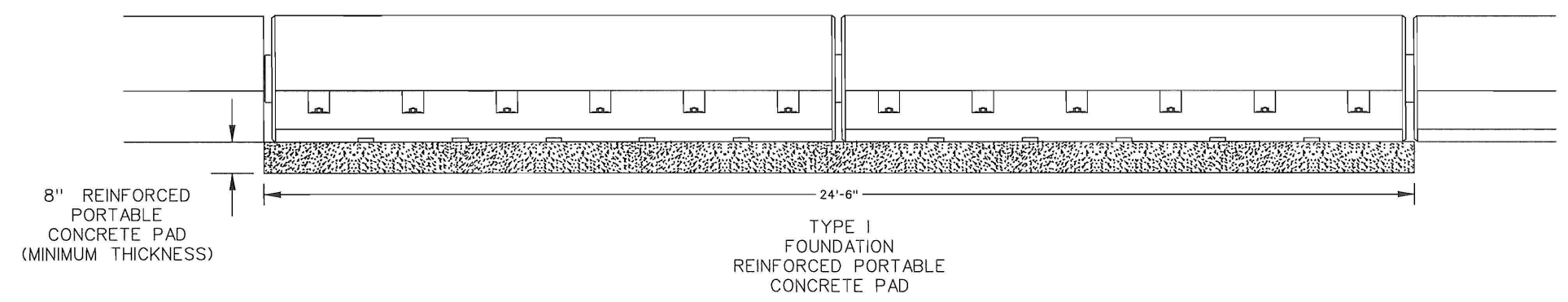
TEMPORARY CONCRETE BARRIER CONNECTION ANCHORAGE PER FOUNDATION TYPES ELEVATION VIEW 10' BARRIER WALLS

605-310-03
EFFECTIVE LETTING DATE JAN 2011

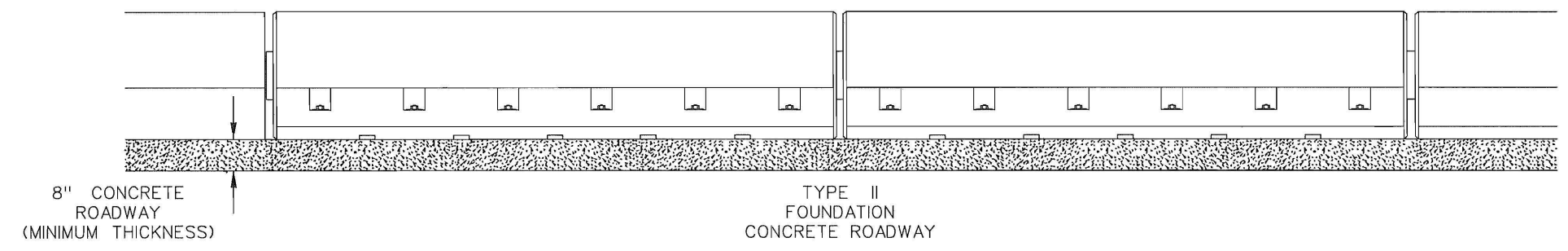
REFERENCES



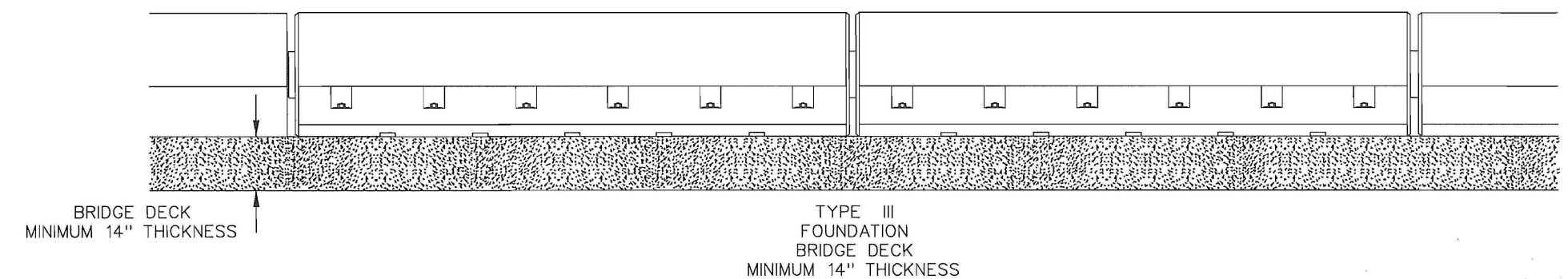
TEMPORARY CONCRETE BARRIER
12'
--TYPICAL--



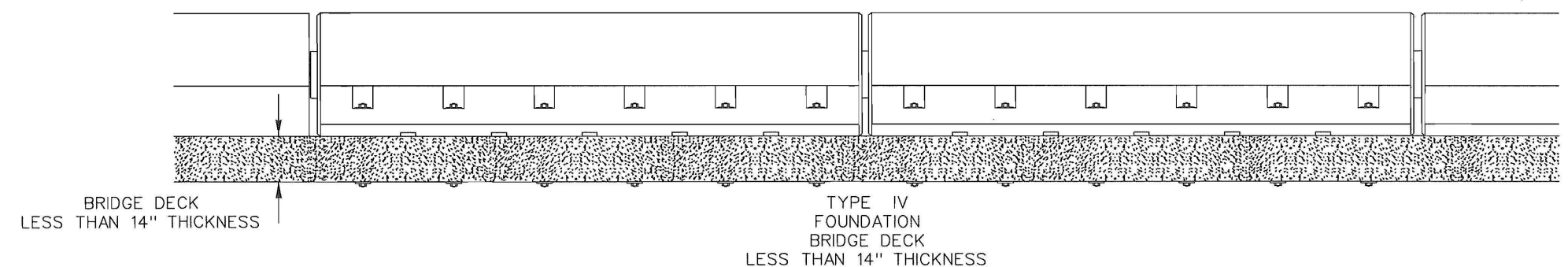
8" REINFORCED PORTABLE CONCRETE PAD (MINIMUM THICKNESS)
24'-6"
TYPE I FOUNDATION REINFORCED PORTABLE CONCRETE PAD



8" CONCRETE ROADWAY (MINIMUM THICKNESS)
TYPE II FOUNDATION CONCRETE ROADWAY



BRIDGE DECK MINIMUM 14" THICKNESS
TYPE III FOUNDATION BRIDGE DECK MINIMUM 14" THICKNESS



BRIDGE DECK LESS THAN 14" THICKNESS
TYPE IV FOUNDATION BRIDGE DECK LESS THAN 14" THICKNESS

WORK ZONE TRAFFIC CONTROL ENGINEER



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SIGNATURE

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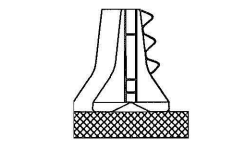
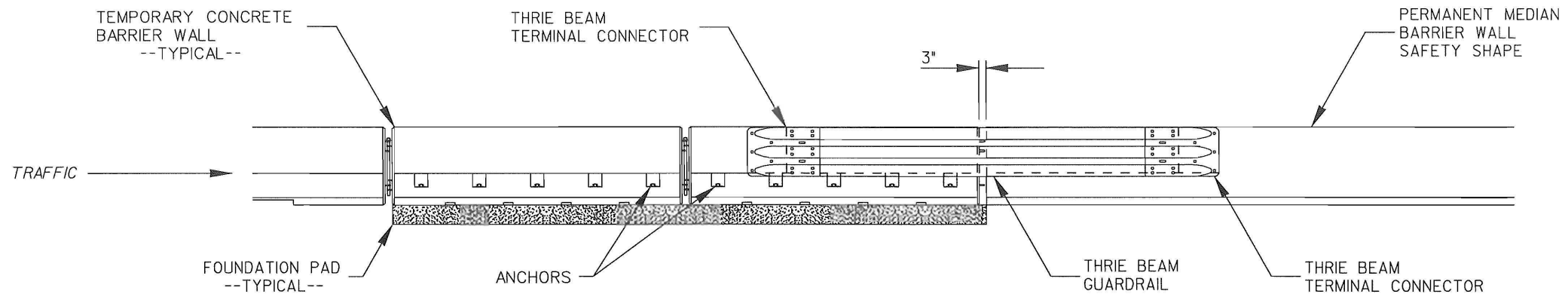
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STANDARD DRAWING

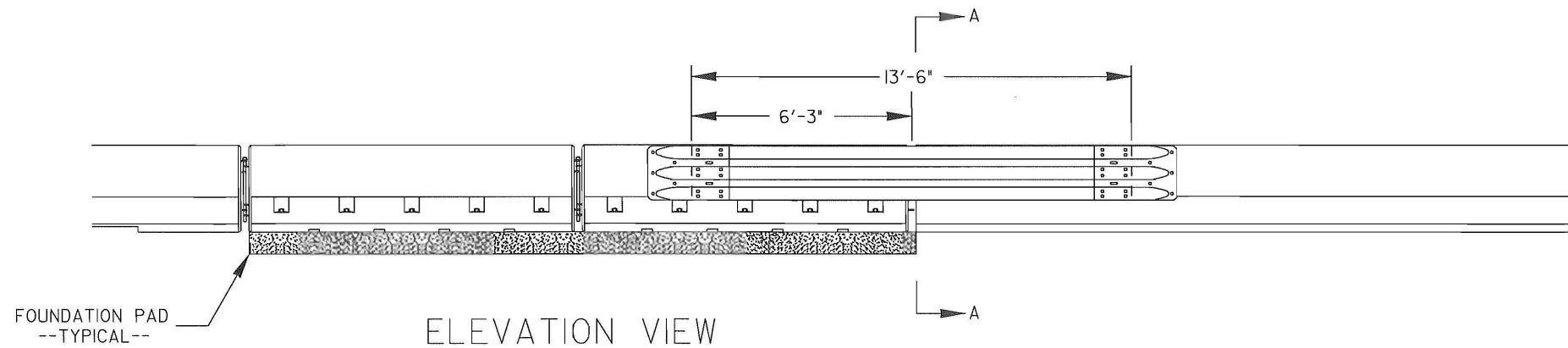
TEMPORARY CONCRETE BARRIER CONNECTION ANCHORAGE PER FOUNDATION TYPES ELEVATION VIEW 12' BARRIER WALLS

605-310-04

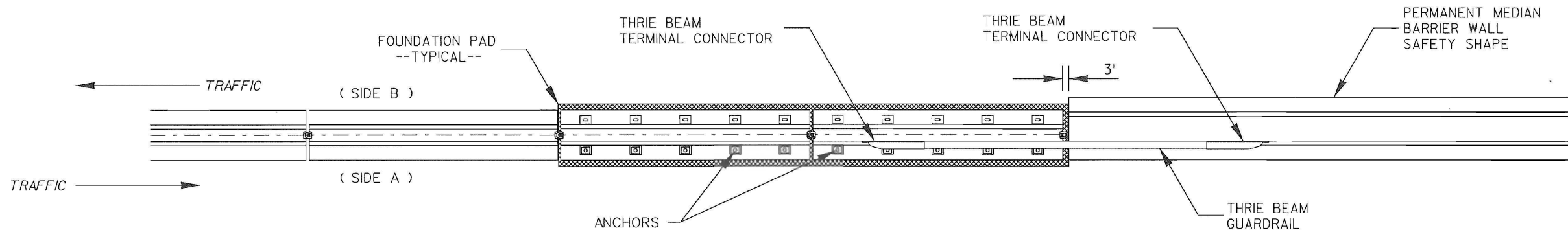
EFFECTIVE LETTING DATE **JAN 2011** THIS DRAWING IS NOT TO SCALE



SECTION A-A



ELEVATION VIEW



PLAN VIEW

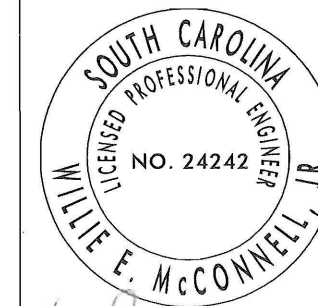
INSTALL ANCHORS ON BOTH SIDES OF THE TEMPORARY CONCRETE BARRIER WALL WHEN ATTACHING TO A MEDIAN BARRIER WALL, SEPARATING TWO-WAY TRAFFIC, AND TRAFFIC IS WITHIN 30 FEET OR LESS OF SIDE "B" OF THE TEMPORARY CONCRETE BARRIER WALL. OTHERWISE, ONLY INSTALL ANCHORS ON SIDE "A" OF THE TEMPORARY CONCRETE BARRIER WALL WHEN TRAFFIC ON SIDE "B" OF THE TEMPORARY CONCRETE BARRIER WALL IS BEYOND 30 FEET FROM SIDE "B" OF THE TEMPORARY CONCRETE BARRIER WALL.

SPECIAL NOTE:

INSTALL AND ATTACH THE THRIE BEAM GUARDRAIL AND THRIE BEAM TERMINAL CONNECTORS TO STRUCTURES AS DIRECTED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION", "DRAWING NO. 805-325-00" FOR STRUCTURES WITH THE SAFETY SHAPE AND "DRAWING NO. 805-330-00" FOR STRUCTURES WITH A VERTICAL FACE. FOR ADDITIONAL INFORMATION REGARDING INSTALLATION AND ATTACHMENT DETAILS, CONTACT PRECONSTRUCTION SUPPORT IN THE PRECONSTRUCTION OFFICE.

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell, Jr.
SIGNATURE

7/1/10
DATE

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2	4-23-10	JCS	ANCHORAGE UPDATE
1	6-23-08	JCS	NOTE REVISION
0	11-29-07	JCS	ANCHORAGE REVISIONS
#	DATE	CHK	DESCRIPTION



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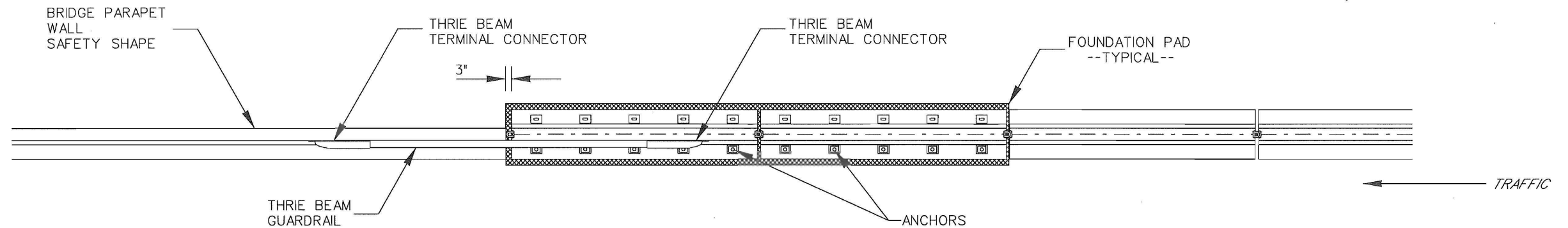
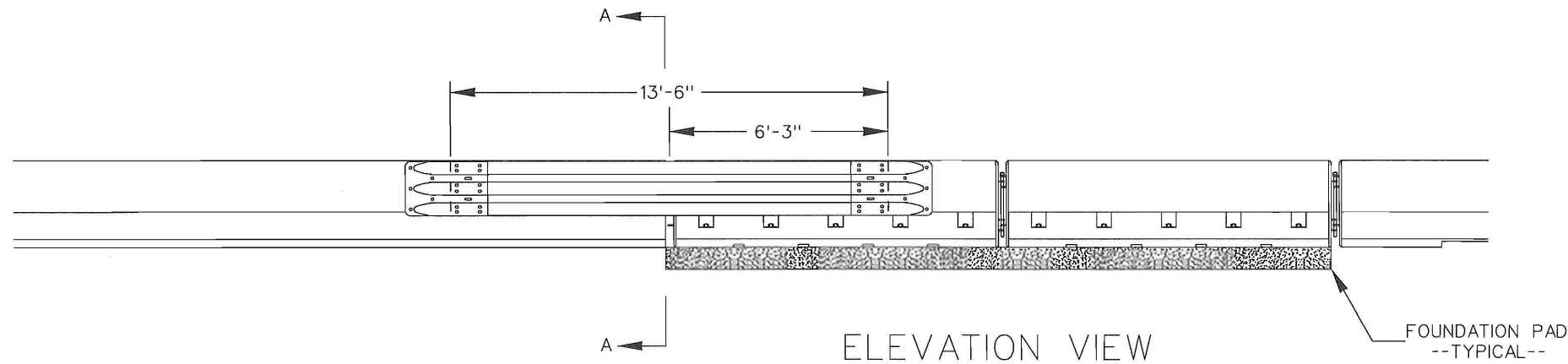
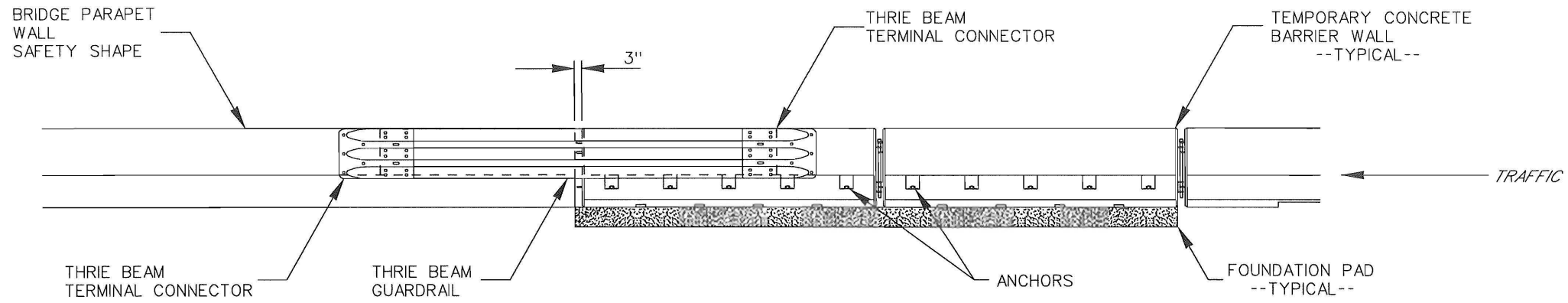
STANDARD DRAWING

TEMPORARY CONCRETE BARRIER CONNECTION TO PERMANENT MEDIAN BARRIER WALL

605-315-00

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REFERENCES



PLAN VIEW

SPECIAL NOTE:

INSTALL AND ATTACH THE THRIE BEAM GUARDRAIL AND THRIE BEAM TERMINAL CONNECTORS TO STRUCTURES AS DIRECTED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION", "DRAWING NO. 805-325-00" FOR STRUCTURES WITH THE SAFETY SHAPE AND "DRAWING NO. 805-330-00" FOR STRUCTURES WITH A VERTICAL FACE. FOR ADDITIONAL INFORMATION REGARDING INSTALLATION AND ATTACHMENT DETAILS, CONTACT PRECONSTRUCTION SUPPORT IN THE PRECONSTRUCTION OFFICE.

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell
SIGNATURE
7/1/10
DATE

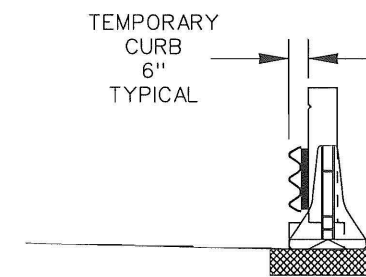
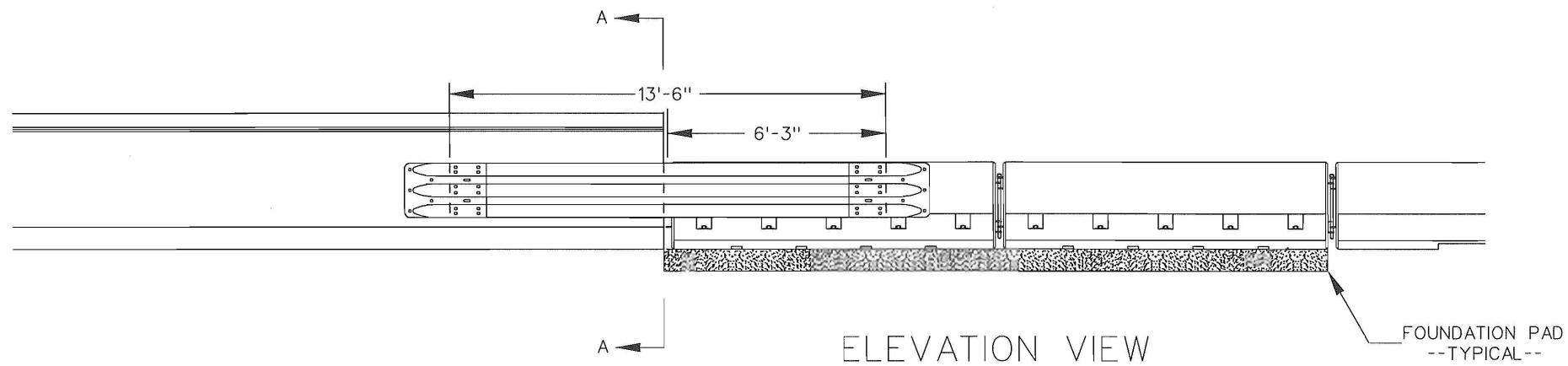
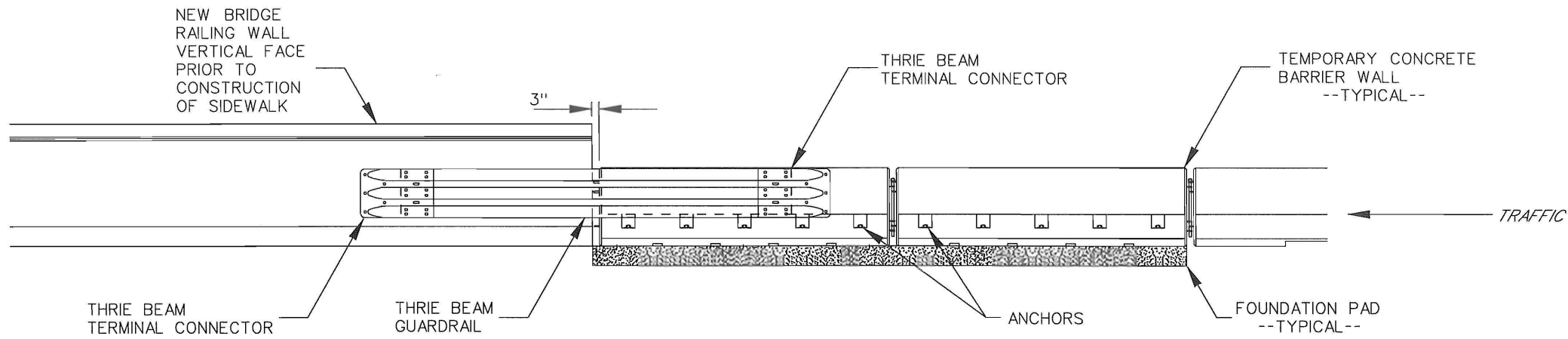
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0	11-29-07	JCS	ANCHORAGE REVISIONS
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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
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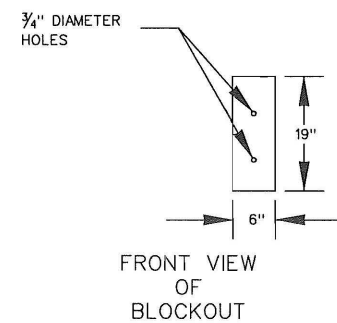
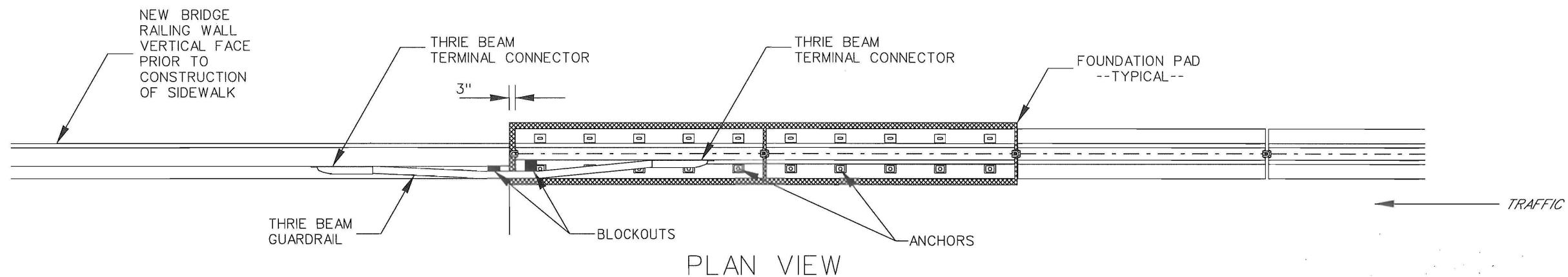
STANDARD DRAWING
TEMPORARY CONCRETE BARRIER CONNECTION TO BRIDGE PARAPET WALL SAFETY SHAPE

605-320-00

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SECTION A-A



SPECIAL NOTE:
 INSTALL AND ATTACH THE THRIE BEAM GUARDRAIL AND THRIE BEAM TERMINAL CONNECTORS TO STRUCTURES AS DIRECTED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION", "DRAWING NO. 805-325-00" FOR STRUCTURES WITH THE SAFETY SHAPE AND "DRAWING NO. 805-330-00" FOR STRUCTURES WITH A VERTICAL FACE. FOR ADDITIONAL INFORMATION REGARDING INSTALLATION AND ATTACHMENT DETAILS, CONTACT PRECONSTRUCTION SUPPORT IN THE PRECONSTRUCTION OFFICE.

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REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



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 7/1/10
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2	4-27-10	JCS	ANCHORAGE UPDATE
1	6-23-08	JCS	NOTE REVISIONS
0	11-29-07	JCS	ANCHORAGE REVISIONS
#	DATE	CHK	DESCRIPTION



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 ROOM 405
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STANDARD DRAWING

TEMPORARY CONCRETE BARRIER CONNECTION TO BRIDGE RAILING VERTICAL FACE

605-325-00
 EFFECTIVE LETTING DATE: JAN. 2011

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



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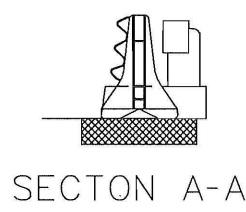
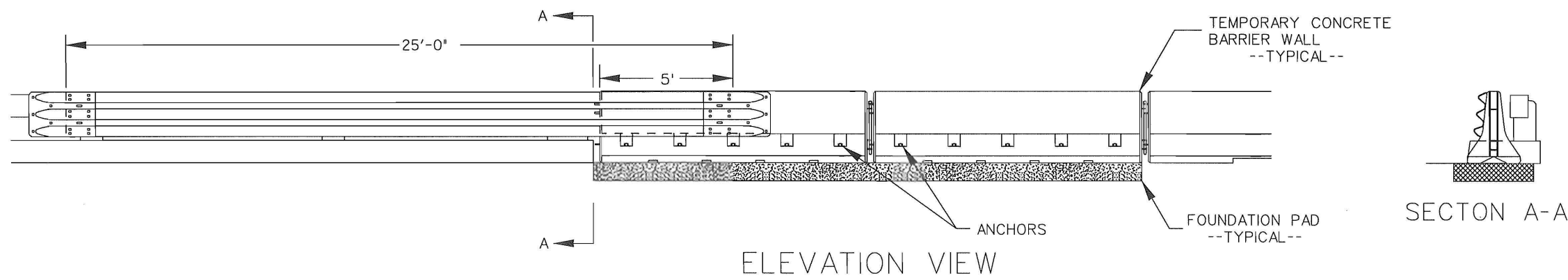
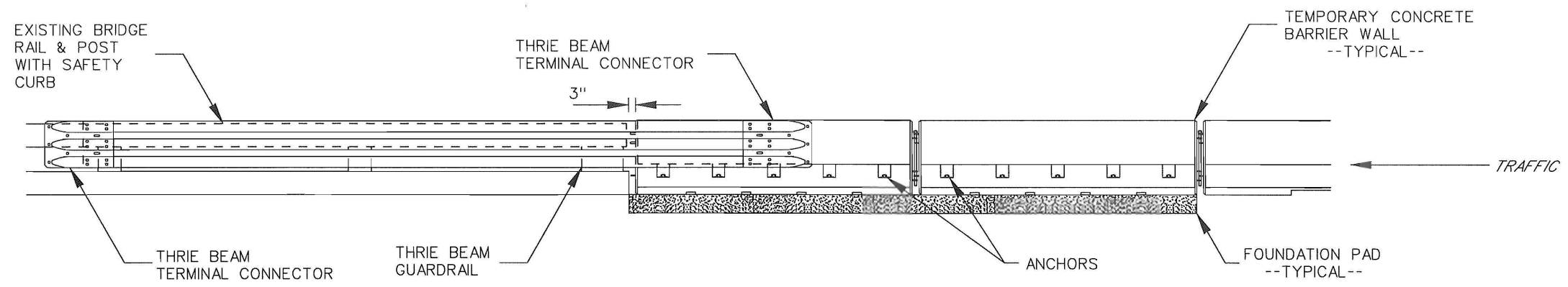
STANDARD DRAWING

TEMPORARY CONCRETE BARRIER CONNECTION TO BRIDGE RAILING BRIDGE RAIL & POST with CURB

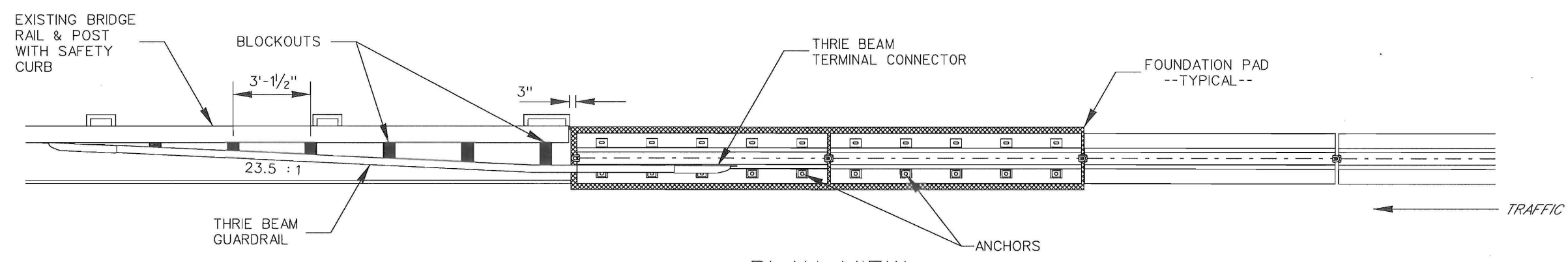
605-330-00

EFFECTIVE LETTING DATE JAN 2011

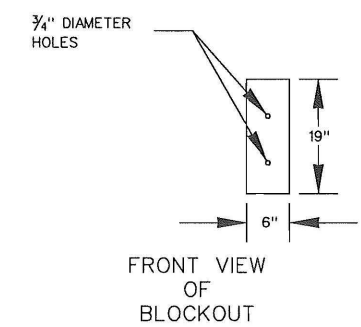
THIS DRAWING IS NOT TO SCALE



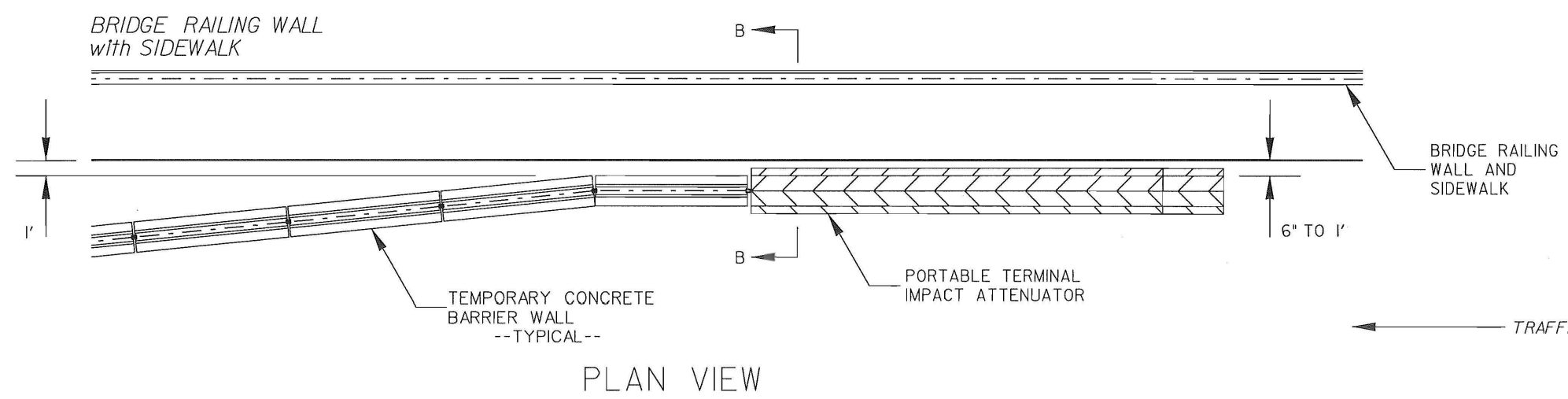
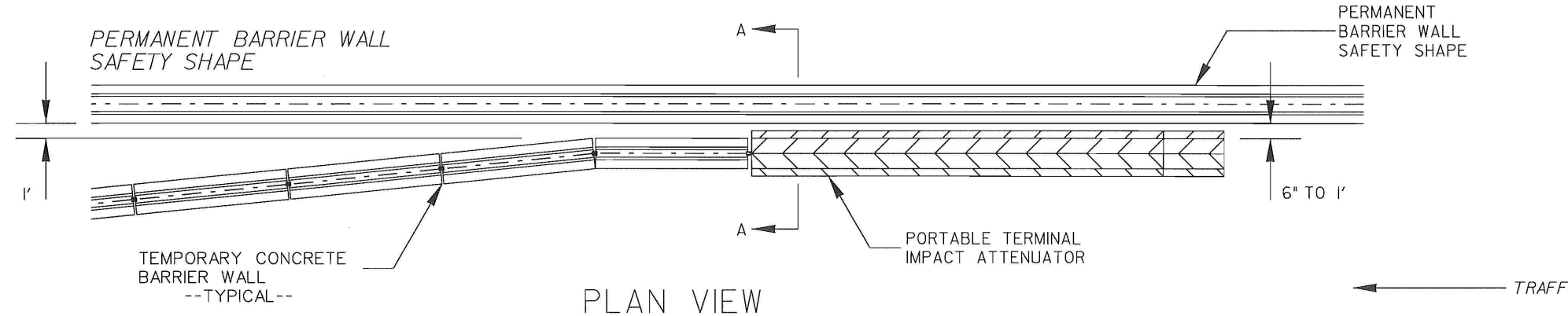
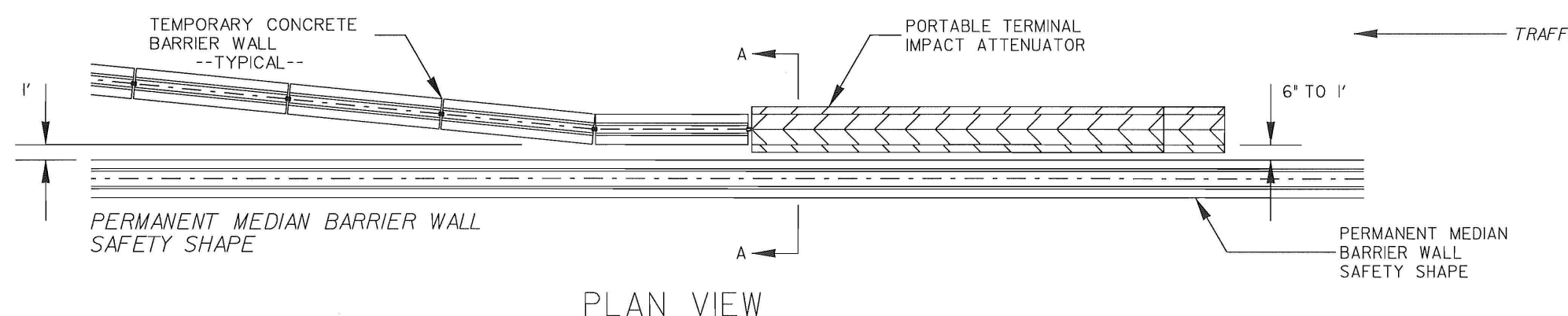
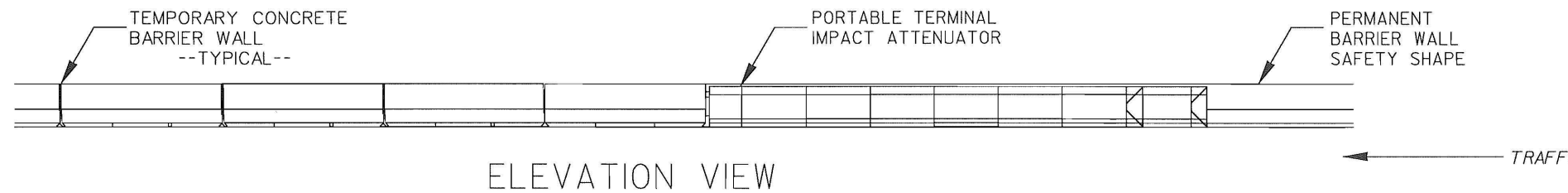
ELEVATION VIEW



PLAN VIEW

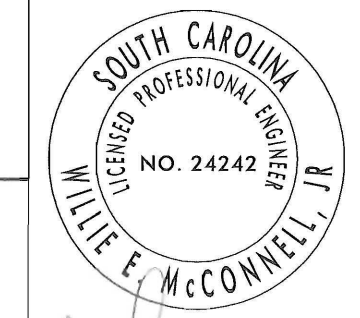


SPECIAL NOTE:
INSTALL AND ATTACH THE THRIE BEAM GUARDRAIL AND THRIE BEAM TERMINAL CONNECTORS TO STRUCTURES AS DIRECTED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION", "DRAWING NO. 805-325-00" FOR STRUCTURES WITH THE SAFETY SHAPE AND "DRAWING NO. 805-330-00" FOR STRUCTURES WITH A VERTICAL FACE. FOR ADDITIONAL INFORMATION REGARDING INSTALLATION AND ATTACHMENT DETAILS, CONTACT PRECONSTRUCTION SUPPORT IN THE PRECONSTRUCTION OFFICE.



REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



Willie E. McConnell, Jr.
SIGNATURE
2.4.2009
DATE

6			
5			
4			
3			
2			
1	6-23-08	JCS	NOTE REVISION
0	10-10-07	JCS	DRAWING NO. UPDATE
#	DATE	CHK	DESCRIPTION



STANDARD DRAWING

TEMPORARY CONCRETE BARRIER TERMINATION with ATTENUATOR ADJACENT TO PCMB & BRIDGE RAILS

605-335-00
EFFECTIVE LETTING DATE | MAY 2009

THIS DRAWING IS NOT TO SCALE

REFERENCES

WORK ZONE TRAFFIC CONTROL ENGINEER



W. McConnell
SIGNATURE

2/4/2011
DATE

6			
5			
4			
3			
2			
1			
0	11-1-10	JCS	NEW DRAWING
#	DATE	CHK	DESCRIPTION



SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

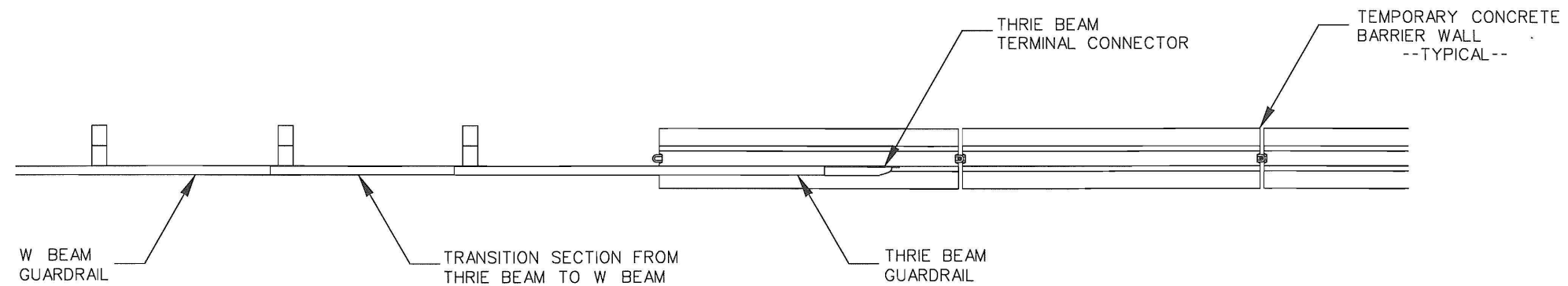
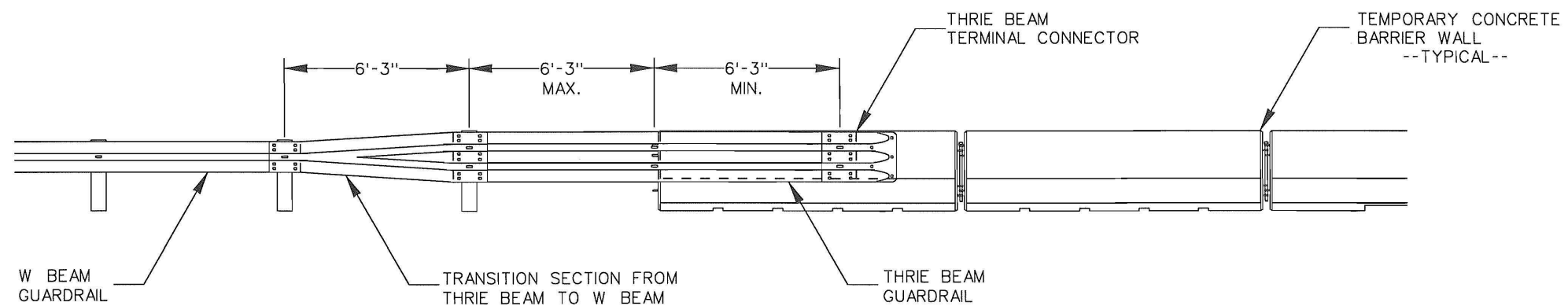
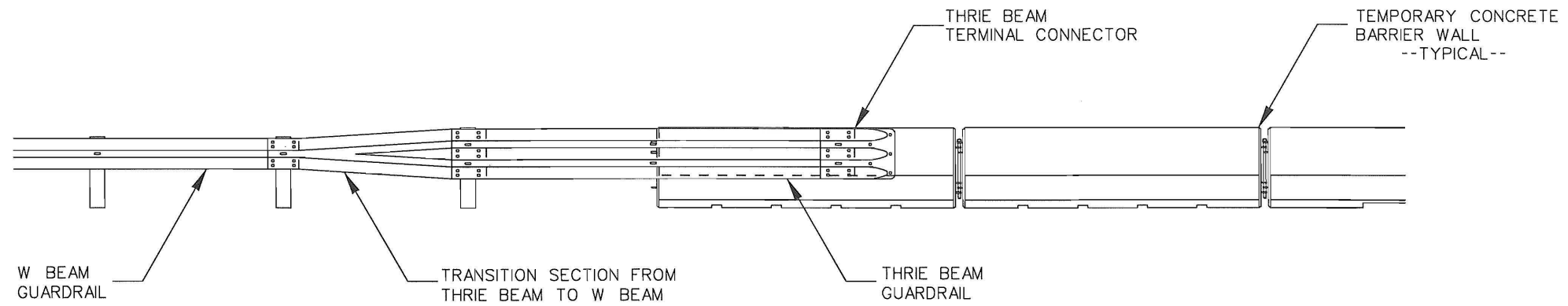
STANDARD DRAWING

TEMPORARY CONCRETE BARRIER TERMINATION ATTACHMENT TO W BEAM GUARDRAIL

605-340-00

EFFECTIVE LETTING DATE | MAY 2011

THIS DRAWING IS NOT TO SCALE



NOTES:

INSTALL AND ATTACH THE THRIE BEAM GUARDRAIL, THE THRIE BEAM TERMINAL CONNECTOR, AND THE THRIE BEAM TO W BEAM GUARDRAIL TRANSITION SECTION TO STRUCTURES AS DIRECTED BY THE "STANDARD DRAWINGS FOR ROAD CONSTRUCTION". FOR ADDITIONAL INFORMATION REGARDING INSTALLATION AND ATTACHMENT DETAILS, CONTACT PRECONSTRUCTION SUPPORT IN THE PRECONSTRUCTION OFFICE.

OVERLAP THE TEMPORARY CONCRETE BARRIER WALL WITH THE THRIE BEAM GUARDRAIL A MINIMUM DISTANCE OF 6'-3". THE DISTANCE INTERVAL BETWEEN THE END OF THE TEMPORARY CONCRETE BARRIER WALL AND THE ADJACENT POST SHALL NOT EXCEED 6'-3".

ALWAYS SUPPLEMENT THE APPROACH END OF THE THRIE BEAM GUARDRAIL WITH A THRIE BEAM TERMINAL CONNECTOR.