<table>
<thead>
<tr>
<th>Standard</th>
<th>Modification Summary</th>
<th>Effective: 03-01-2021</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G12</strong></td>
<td>Structure Mounted Noise Abatement Wall Details</td>
<td></td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Clarified built up member details in section and show web plate full length as flanges</td>
<td></td>
</tr>
<tr>
<td>Sheet 2</td>
<td>Move top bent plate and add lifting hole to of post. Revise bottom bearing angle to match panel structural thickness.</td>
<td></td>
</tr>
<tr>
<td><strong>G13</strong></td>
<td>Central Tri-State Structure Mounted Noise Abatement Wall Details</td>
<td></td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Clarified built up member details in section and show web plate full length as flanges</td>
<td></td>
</tr>
<tr>
<td>Sheet 2</td>
<td>Move top bent plate and add lifting hole to of post. Revise bottom bearing angle to match panel structural thickness.</td>
<td></td>
</tr>
<tr>
<td><strong>G14</strong></td>
<td>Central Tri-State Bump-Out Mounted Noise Abatement Wall Details</td>
<td></td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Revised channel plate to 19&quot; with 5&quot; flanges</td>
<td></td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Move top bent plate and add lifting hole to of post</td>
<td></td>
</tr>
<tr>
<td>Sheet 2</td>
<td>Revised clear cover to match G12 and G13 panels</td>
<td></td>
</tr>
<tr>
<td><strong>G15</strong></td>
<td>Non-Crashworthy Ground Mounted Noise Abatement Wall Details</td>
<td></td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Move top bent plate and add lifting hole to of post</td>
<td></td>
</tr>
<tr>
<td>Sheet 2</td>
<td>Clarified the 90 degree detail, added dimension C and revised clear cover on 4&quot; panels to 1.5&quot;</td>
<td></td>
</tr>
<tr>
<td>Sheet 2</td>
<td>Revise bottom bearing angle to match panel structural thickness.</td>
<td></td>
</tr>
<tr>
<td><strong>G16</strong></td>
<td>Crashworthy Ground Mounted Noise Abatement Wall Details</td>
<td></td>
</tr>
<tr>
<td>Sheet 1</td>
<td>Move top bent plate, add lifting hole to of post and correction to M dimension in table</td>
<td></td>
</tr>
<tr>
<td>Sheet 2</td>
<td>Revise bottom bearing angle to match panel structural thickness.</td>
<td></td>
</tr>
<tr>
<td>Sheet 3</td>
<td>Clarified the 90 degree detail and removed the bent plate table</td>
<td></td>
</tr>
<tr>
<td>Sheet 3</td>
<td>Add 3/4&quot; clip to bearing plate detail</td>
<td></td>
</tr>
</tbody>
</table>

**New Sheet**  

**Retired Standard**
GENERAL
1. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" X 45° STEEL BENT PLATE. SEE PANEL STIPPLED AREA ABOVE TOP OF BARRIER.

2. CHAMFER, EXCEPT WHERE SHOWN OTHERWISE. NO CHAMFER WILL BE ALLOWED AT HORIZONTAL JOINTS BETWEEN PANELS.

3. CONSTRUCTION CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES SHOWN ARE FOR INFORMATION ONLY.

4. REFER TO ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR SHOWN DECK REINFORCEMENT, JOINT DETAILS AND OTHER MISCELLANEOUS DETAILS NOT DETAILED IN THIS STANDARD.

5. MINIMUM DISTANCE BETWEEN CENTERLINE OF POST TO CENTERLINE OF LIGHT POLE IS: 3'-8" MIN. BETWEEN POSTS (2 PLATES) BETW. POSTS (2 PLATES) 1/4" X 2" X 1/2" STAINLESS STEEL BOLTS W/WASHERS AND NUTS. PROVIDE BRASS GROMMET IN ELASTOMERIC FLAP.

6. CONSTRUCTION JOINT/BEARING ANGLE (2 ANGLES) 11 LBS. FOR CLARITY) NOISE BLOCKING ASSEMBLY 4 PLATE (FULL LENGTH OF ELASTOMERIC SPLICE). 7 LBS. BETWEEN POSTS (2 PLATES) BETW. POSTS (2 PLATES) 1/4" X 2" X 1/2" STAINLESS STEEL BOLTS W/WASHERS AND NUTS. PROVIDE BRASS GROMMET IN ELASTOMERIC FLAP.

7. MIN. ANGLE AT POST AND PANELS.

8. DO NOT SCALE CONSTRUCTIONJOINT/BEARING ANGLE (2 ANGLES) 11 LBS. FOR CLARITY) NOISE BLOCKING ASSEMBLY 4 PLATE (FULL LENGTH OF ELASTOMERIC SPLICE). 7 LBS. BETWEEN POSTS (2 PLATES) BETW. POSTS (2 PLATES) 1/4" X 2" X 1/2" STAINLESS STEEL BOLTS W/WASHERS AND NUTS. PROVIDE BRASS GROMMET IN ELASTOMERIC FLAP.

9. EXPOSED ANCHOR BOLT EMERGENCE — USE PLATE AS TEMPLATE FOR DRILLING HOLE TYP.

10. CONCRETE = 150 PCF ADVANCE PROCUREMENT CONTRACT FOR THE STRUCTURAL STEEL POSTS. BENT ANCHOR BOLTS SHALL BE INSTALLED WITH ILLINOIS TOLLWAY CONSTANT SLOPE BARRIER. WALL (FULL LENGTH OF PANEL).

11. USE 4'-10" MINIMUM FROM FULL HEIGHT JOINTS ON BRIDGES.

12. EXPANSION BOLTS USE 4'-10" MINIMUM FROM FULL HEIGHT JOINTS ON BRIDGES.

13. FRAME NOT DISTANCE BETWEEN CENTERLINE OF POST TO CENTERLINE OF LIGHT POLE IS: 3'-8" MIN. BETWEEN POSTS (2 PLATES) BETW. POSTS (2 PLATES) 1/4" X 2" X 1/2" STAINLESS STEEL BOLTS W/WASHERS AND NUTS. PROVIDE BRASS GROMMET IN ELASTOMERIC FLAP.
GENERAL NOTES
1. ALL PRECAST CONCRETE PANELS HAVE A 3'-0" MINIMUM DRY WALL, EXCEPT WHERE SHOWN OTHERWISE. NO DRY WALL WILL BE ALLOWED AT ANYTHING LESS THEN PANELS.
2. MINIMUM NUMBER OF STIFFENERS (2" X 3/8" X 36"") SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270, UNLESS NOTED OTHERWISE.
3. REINFORCEMENT BARS DESIGNATED WITH SHIM ARE FOR INFORMATION ONLY. DESIGN STRESSES ARE FOR SPECIFIED REINFORCEMENTS AND SHALL NOT BE APPLIED TO THE DESIGN.
4. CONSTRUCTION CONTRACTOR SHALL SCREW OR WELDING FROM THE CONCRETE PANELS INTO THE STEEL POSTS WHERE SHOWN.
5. CONSTRUCTION CONTRACTOR SHALL SCREW OR WELDING FROM THE CONCRETE PANELS INTO THE STEEL POSTS WHERE SHOWN.

DESIGN SPECIFICATIONS
1. BUILT-UP SHAPE J 3'-0" X 5'-0" FABRIC REINFORCED CONCRETE WALL. STEEL POST MAX. ALLOWABLE DEFLECTION - H/360
2. SIGNS PANEL MOUNT
3. REFER TO ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR DECK REINFORCEMENT, FOR DRILLING HOLE, TYP, 45 ,, (I POST STEEL POST MAX. ALLOWABLE DEFLECTION - H/360
4. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE SUPPLIED BY THE FABRICATOR OF ACRAIL CAulk ALONG ELASTOMERIC SIDE TYP. 4/16, 3/4"
5. ADVANCE PROCUREMENT CONTRACT FOR THE STRUCTURAL STEEL POSTS. BENT ANCHOR WALL (FULL LENGTH). TYP.

MISCELLANEOUS STEEL
1. STEEL POST (8) ADJACENT DETAIL = 40 LBS.
2. BENT PLATE ALLOWANCE (8 PIECES) 29 LBS.
3. NOISE BLOCKING ASSEMBLY BETWEEN POSTS (2 PLATES)
4. BEARING PLATE DETAIL
5. MISCELLANEOUS STEEL
6. STANDARD 013-02

DATE: 3-01-2021
REVISIONS: Move top bent plate, add lifting hole and rev. bearing width angle

ILLINOIS TOLLWAY CONSTANT SLOPE BARRIER - DETAILS

- Sheet 1 of 2
- Illinois Tollway
- Area Code 850-351-3513
- Phone 850-351-3513
SUGGESTED TYPICAL NOISE ABATEMENT WALL INSTALLATION SEQUENCE AND PROCEDURE

NOTES:
1. ALL TYPICAL INSERTS SHALL HAVE A FACTOR OF SAFETY OF 4:1
2. THE ABOVE INSTALLATION PROCEDURES SHOWN ON THIS SHEET PROVIDE GENERAL INSTALLATION SEQUENCE AND DETAILS FOR THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY DEFECTS IN THE DESIGN, DETAILS, AND TECHNIQUES OF CONSTRUCTION THAT MAY OCCUR AS A RESULT OF NOT FOLLOWING THE SEQUENCE AND PROCEDURES SHOWN ON THIS SHEET.
3. ALL PANELS SHALL BE CAPABLE OF SUPPORTING ALL LOADS AS REQUIRED.
4. ALL PANELS SHALL BE SECURED TO THE STRUCTURE BY ERECTION ANCHORS.
5. ALL PANELS SHALL BE NON-SHRINK, NON-METALLIC POROUS MATERIALS.
6. ALL PANELS SHALL BE BUILT-UP POST WALL PANELS.
7. ALL PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

TYPICAL LIFTING INSERT DETAIL

- ERECTION ANCHORS SHALL BE HOT-DIPPED GALVANIZED.

TYPICAL NOISE WALL PANEL DETAIL

- PANEL WIDTH = 11'-6" MAX.
- PANEL HEIGHT = 7'-0" OR 8'-0" TALL.
- PANEL IS PERMITTED TO BE 4'-0" OR 4'-6" TALL.
- TO ACCOMMODATE VARYING HEIGHTS, CENTER PANEL HEIGHTS, MAXIMUM 8FT, TO ACCOMMODATE VARYING SLAB GRADES, FULL HEIGHT PANEL WILL VARY TO FOLLOW SLOPE ON ROADWAY SIDE.
- TO ACCOMMODATE VARYING SLAB GRADES, BOTTOM PANEL WILL VARY TO FOLLOW SLOPE ON ROADWAY SIDE.

TYPICAL PLAN VIEW THRU NOISE ABATEMENT WALL

- TYP. FINISH, TYP. SMOOTH
- FINISH, TYP. SMOOTH
- ASH Shamite TAUPE TONE
- TOLLWAY RANDOM

TYPICAL LIFTING INSERT DETAIL

- TOP LIFTING INSERT
- BOTTOM LIFTING INSERT
- LIFTING INSERT SEE DETAIL

TYPICAL WALL PANEL DETAIL

- PANEL WIDTH = 11'-6" MAX.
- PANEL HEIGHT = 7'-0" OR 8'-0" TALL.

MISCELLANEOUS STEEL QUANTITY

- W POST
- BUILT-UP POST
- DESCRIPTION
- WEIGHT
- DESCRIPTION
- WEIGHT
- BASE PLATE
- 72 LBS
- BASE PLATE
- 344 LBS
- TOP CAP PLATE
- 13 LBS
- TOP CAP PLATE
- 21 LBS
- ANCHOR BOLT ASSEMBLY (16 EACH)
- 32 LBS
- ANCHOR BOLT ASSEMBLY (16 EACH)
- 39 LBS
- STRUCTURE MOUNTED CONNECTION
- 4 LBS
- STRUCTURE MOUNTED CONNECTION
- 21 LBS
- TOTAL
- 344 LBS
- TOTAL
- 205 LBS

HORIZONTAL JOINT DETAIL

- NON-STRUCTURAL CAULK SUCH THAT JOINT BETWEEN PANELS WILL NOT VISIBILITY

OPTIONAL TONGUE AND GROOVE DETAIL

- FOR PANEL CONNECTION TO POST
- FOR PANEL CONNECTION TO POST
- RESIDENTIAL SIDE
- ROADWAY SIDE

BOTTOM PANEL NOTCH AND BEARING DETAIL

- BENT PLATE ALLOWANCE (16 PIECES)
- 4" STRUCTURAL THICKNESS

TOP PANEL NOTCH AND BEARING DETAIL

- BENT PLATE ALLOWANCE (16 PIECES)
- 4" STRUCTURAL THICKNESS

SECTION B-B

- CENTRAL TRIO-STATE BUMP-OUT MOUNTED NOISE ABATEMENT WALL DETAILS
- STANDARD G14-02

SHEET 2 OF 2