**STANDARD CONCRETE RECESS DIMENSIONS:**

- **TYPE II - PLAN VIEW**
- **TYPE I - PLAN VIEW**

45° BEVEL

SECTION B - B

**CONCRETE INSERT PLAN**

ELEVATION

WIRE STRUT

FERRULE

R.P.W. - (TYPICAL ALL CONTACT POINTS)

**COVER PLATE DETAILS**

**NORMAL TO SIDEWALK**

- **FACE OF PARAPET**
- **SEAL TYP.**
- **VARIES**
- **75mm RAD.**
- **À CONCRETE INSERTS**
- **BOLT HOLES**
- **TOP OF SLAB**
- **150**
- **3**
- **À 51mm HOLES AND 21mm BOLT HOLES (INSERTS AND BOLTS NOT SHOWN HERE FOR CLARITY)**

**FACE OF PARAPET**

- **SEAL TYP.**
- **VARIES**
- **95**
- **À CONCRETE INSERTS**
- **À 51mm HOLES AND 21mm BOLT HOLES (INSERTS AND BOLTS NOT SHOWN HERE FOR CLARITY)**

**END VIEW**

EACH WELDED ATTACHMENT OF WIRE TO FERRULE SHALL DEVELOP THE TENSILE STRENGTH OF THE WIRE.

- **APPROX. 100mm 21mm FOR THE SIDE OF THE JOINT HAVING THE 12mm COVER PLATE WITH A 6mm BACKING PLATE.**
- **14mm FOR THE SIDE OF THE JOINT HAVING ONLY THE 12mm COVER PLATE.**

**COVER PLATE DETAILS**

- **50mm WD. LIMITS OF MODULAR EXPANSION JOINT SEAL**
- **50mm CL.**

**SKETCH SHOWING LIMITS OF MODULAR EXPANSION JOINT SEAL - SIDEWALK**

- **SKEW ANGLE**
- **TOTAL MOVEMENT ALONG ROADWAY**

**SECTION B - B**

<table>
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<tr>
<th>VIEW ANGLE</th>
<th>TOTAL MOVEMENT ALONG ROADWAY</th>
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<td>END BENT #1</td>
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<tr>
<td>BENT #1</td>
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**END VIEW**

- **NORMAL TO SIDEWALK**

**NOTE**

FOR MODULAR EXPANSION JOINT SEALS, SEE SPECIAL PROVISIONS.

- **STEEL PLATES SHALL CONFORM TO AASHTO M270 GRADE 250 OR APPROVED EQUAL, AND BE PAINTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. AT THE CONTRACTOR'S OPTION, THE PLATES MAY BE METALLIZED AFTER FABRICATION. SEE SPECIAL PROVISIONS FOR THERMAL SPRAY COATINGS INSTALLATION.**

- **END BENT #1**
- **END BENT #2**

**COVER PLATE DETAILS**

- **19.05mm HEX HEAD BOLTS SHALL CONFORM TO ASTM F593 ALLOY 304 STAINLESS STEEL.**
- **19.05mm CONCRETE INSERTS SHALL BE CLOSED-END FERRULES WITH LOOPED WIRE STRUTS ATTACHED TO THEM. THE INSERTS SHALL CONFORM TO AASHTO M169, GRADE 12L14 AND SHALL HAVE A TENSILE WORKING LOAD CAPACITY OF 13.3 kN.**

**CONCRETE INSERT**

- **IN EACH WELDED ATTACHMENT OF WIRE TO FERRULE SHALL DEVELOP THE TENSILE STRENGTH OF THE WIRE.**

**NOTE**

NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE STEEL PLATES. SEE SPECIAL PROVISIONS FOR THERMAL SPRAY COATINGS INSTALLATION.

**PROJECT NO.**

**COUNTY**

**STATION**

**DEPARTMENT OF TRANSPORTATION**

**REVISIONS**

**SHEET NO.**

**STATE OF NORTH CAROLINA**

**RALEIGH**

**DATE:**

**ASSEMBLED BY:**

**CHECKED BY:**

**CHECKED BY:**

**USE 0.014 X SCALE FOR PE SEAL**

**NOTES**

- **FOR MODULAR EXPANSION JOINT SEALS, SEE SPECIAL PROVISIONS.**
- **NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE STEEL PLATES. SEE SPECIAL PROVISIONS FOR THERMAL SPRAY COATINGS INSTALLATION.**
- **END BENT #1**
- **END BENT #2**
- **COVER PLATE DETAILS**
- **50mm WD. LIMITS OF MODULAR EXPANSION JOINT SEAL**
- **50mm CL.**

**SKETCH SHOWING LIMITS OF MODULAR EXPANSION JOINT SEAL - SIDEWALK**

**END VIEW**

- **NORMAL TO SIDEWALK**

**NOTE**

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