

Chapter 11 - Structural Repairs

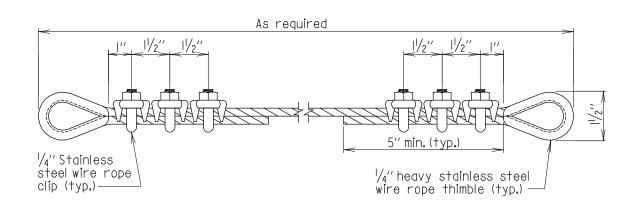
SECTION 11

NOISE WALL REPAIRS (SR-NW)

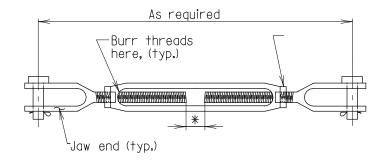
GENERAL NOTES

Wire Rope:	Wire rope shall meet the requirements of Federal Specification RR-W-410D, Latest Edition, Type 304 Stainless Steel 7 x 19 IWRC aircraft cable, Extra improved plow steel. The cable shall be $1/4''$ diameter having a minimum breaking load of 6400 lbs and a working and a working load limit of 1400 lbs.
Clips:	Wire rope clips shall be stainless steel and meet Federal Specifications FF-C-450D, Type I, Class I. A minimum of 3 clips shall be installed at each loop fitting. Nuts for clips shall be tightened to a torque of 15 ft-lbs.
Thimbles:	Wire rope thimbles shall be $^{1\!/}_{4}{}^{\prime\prime}$ heavy stainless steel and meet Federal Specification FF-T-276b, Type III.
Turnbuckle:	Turnbuckles shall be $\frac{1}{2}$ " diameter with a 6" take up and jaw end fittings at both ends that meet Federal Specification FF-T-79IB, Type I, Form I, Class 7. Turnbuckles shall be forged stainless steel, quenched and tempered. Turnbuckles shall have a minimum breaking load of II,000 Ibs and a working load limit of 2,200 Ibs.
Steel Pipe:	Stainless steel pipes shall be nominal $\frac{3}{4}$ " diameter standard weight pipe meeting A 53, Grade B furnished to the dimensions shown on the Plans. The outside edges of the pipe shall be deburred to prevent damage to the wire rope.
Epoxy Adhesive:	Refer to SHA Specification 921.04.

OFFICE OF STRUCTURES DATE: 06/28/2017	DEPARTMENT OF TRANSPORTA STATE HIGHWAY ADMINISTRAT OFFICE OF STRUCTURES		טואטכו
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	detail no. SR-NW-101	SHEET	_ OF _2_R







* Allow a ${\rm V_{2}^{\prime\prime}}$ minimum gap after wire rope is taken up to snug tightness.

DETAIL OF 1/2" DIAMETER STAINLESS STEEL TURNBUCKLE Scale: None

APPROVAL	STATE OF MARYLAND	1
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1.0	HARDWARE	
	DETAIL NO. SR-NW-101 SHEET _2_ OF _2_	AIRU

CONSTRUCTION SEQUENCE

- I. Core a $l^{\prime}\!/_4{}^{\prime\prime}$ dia hole through the existing panel at locations as shown on panel elevation view of appropriate standard sheet.
- 2. Coat the outside face of the stainless steel pipe and the inside of the 1/4'' dia hole with epoxy adhesive as specified in the General Notes. Allow epoxy to set before threading or tensioning the wire rope.
- 3. Loop wire rope through stainless steel pipe and fasten turnbuckle as shown on Section A-A of appropriate standard sheet. The turnbuckle shall be taken up to snug tightness and tightened down with the jam nut. Burr turnbuckle threads after tightening is complete.
- 4. Coat those areas of the neoprene wedges in contact with concrete with lubricant adhesive conforming to 911.04.03 before inserting.

