

## SECTION 427 – NOISE BARRIERS

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*Throughout this Section, amend the words “sound barrier” to read “noise barrier”.*

### 427.01 DESCRIPTION

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*In the first paragraph, amend the first and second sentence to read:*

*The work consists of constructing ground, bridge and retaining wall mounted noise barriers. Ground, bridge and retaining wall noise barriers shall be made of precast concrete or aluminum.*

### 427.02 MATERIALS

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#### (B) Precast Concrete Noise Barriers

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*Delete the first paragraph in its entirety, and replace it with the following:*

*Unless required otherwise by Contract documents, concrete for precast noise barrier posts and panels shall be Class P (5,000 psi minimum compressive strength at 28 days), with the posts tinted to match the panels, conforming to Subsection 905.05, and in accordance with the shapes, sizes and connections as detailed on the Plans.*

*Delete the sixth paragraph in its entirety, and replace it with the following:*

*Prince Manufacturing Company, Quincy, IL, Ph (217) 222-8854, Pigment Color 04-5305; Rockwood Pigments / Davis Colors, Beltsville, MD, Ph (800) 638-4444, Pigment Color Cocoa No. 6130; or an approved equal.*

*Add the following to the end of the eighth paragraph:*

*The penetrating stain shall be shop-applied.*

*Add the following:*

*Lightweight concrete conforming to Subsection 905.09 shall be used for all bridge-mounted noise barrier posts and panels as shown on the Plans.*

*Bearing pads for panels shall be 70 durometer neoprene.*

*Concrete for cast-in-place foundations shall be Class C.*

### 427.03 WORKING DRAWINGS.

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*In the fourth paragraph, amend the first and second sentence to read:*

*Working drawings for bridge and retaining wall noise barriers shall show precise mounting details including*

the required locations of all threaded inserts. Reinforcement steel patterns in precast panels and in bridge and retaining wall parapets shall be shown on the Shop Drawings to ensure proper installation and to avoid conflicts.

#### 427.05      PRECAST CONCRETE NOISE BARRIERS

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##### (A) General.

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*Insert the following after the first sentence:*

*The fabricator chosen by the Contractor to provide noise barrier components shall be certified by Prestressed Concrete Institute (PCI) or National Precast Concrete Association (NPCA) for manufacturing of precast concrete products. Certification and documentation of experience shall be submitted to the Engineer for approval prior to the commencement of any fabrication work including shop drawing preparation.*

#### 427.06      FOUNDATIONS

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##### (A) Post holes.

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*In the first paragraph, delete the third sentence and replace it with the following:*

*Prior to post hole excavation, the Contractor shall verify the location of any existing utility conduits by making use of the State's One Call System as specified in Subsection 106.18.*

#### 427.09      PAYMENT

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*The following pay items are deleted:*

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Ground Mounted Sound Barrier Panel .....	Square Foot
Ground Mounted Sound Barrier Panel, Type_____ .....	Square Foot
Bridge Mounted Sound Barrier Panel .....	Square Foot
Bridge Mounted Sound Barrier Panel, Type_____ .....	Square Foot

*The following pay items are added:*

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Ground Mounted Noise Barrier Panel.....	Square Foot
Ground Mounted Noise Barrier Panel, Type_____ .....	Square Foot
Bridge Mounted Noise Barrier Panel .....	Square Foot
Bridge Mounted Noise Barrier Panel, Type_____ .....	Square Foot
Retaining Wall Mounted Noise Barrier Panel .....	Square Foot
Retaining Wall Mounted Post .....	Linear Foot
Retaining Wall Mounted Noise Barrier Panel, Type_____ .....	Square Foot
Retaining Wall Mounted Post, Type _____ .....	Linear Foot
Retaining Wall Mounted End Post .....	Linear Foot

*Delete the fifth paragraph in its entirety, and replace it with the following:*

*No separate payment will be made for excavation, dewatering, sediment filtration devices, reinforcement, crushed stone called for on the plans, concrete in foundation caisson and dowels for cast in place concrete barrier curb. All associated costs thereof shall be included in the item for Ground Mounted Posts.*

*The following is added at the end of this Subsection:*

*The cost for the disposal of unsuitable material, as directed by the Engineer, shall be included in the pay item Additional Crushed Stone.*