



GENERAL NOTES

1. DESIGN SPECIFICATIONS
1996 AASHTO Standard Specifications for Highway Bridges (with interims) as modified by Section 3A of NJDOT Design Manual for Bridges and Structures and 1989 AASHTO Guide Specifications for Structural Design of Sound Barriers (with Interims).
- * 2. CONSTRUCTION SPECIFICATIONS
The NJDOT Standard Specifications for Road and Bridge Construction with current Supplemental Specifications, as modified by the Special Provisions.
3. LIVE LOAD
Wind pressure: 33 PSF corresponding to a wind velocity of 80 mph, as specified in Table 47.2 of Section 4 of NJDOT Design Manual for Bridges and Structures.
Ice Load: 47 PSF
Seismic Load for Seismic Performance Category (SPC) 'B', Maximum Value of 'A' (Acceleration Coefficient) = _____, Soil Profile = _____.
4. CONCRETE DESIGN STRESSES
(a) Precast Members (Post and Panels):
Specified Compressive Strength $f'_c = 5,000$ PSI
Extreme Fiber in Compression $fc = 2,000$ PSI
(b) Cast-In-Place Members:
Specified Compressive Strength $f'_c = 3,000$ PSI
Extreme Fiber in Compression $fc = 1,200$ PSI
5. REINFORCEMENT STEEL
Deformed Bars (ASTM A615, Grade 60)
Allowable Tensile Stress $fs = 24,000$ PSI
Deformed Welded Wire Fabric may be used as an alternate. The Welded Wire designation and spacing shall meet the minimum area of steel as determined by design. Refer to Section 915.01 (F) of the 1996 NJDOT Standard Specifications for Road and Bridge Construction for guidance concerning corrosion protection of the welded wire reinforcement.
6. CLASSES OF CONCRETE
(a) Class of Concrete Used:
Class P Concrete for Posts and Panels
Class B Concrete for Foundations and Pedestals
(b) Class Design Strengths (Mix Design Requirements)
(In accordance with Section 914 of Specifications)
Class P = 5,500 PSI
Class B = 3,700 PSI
7. Position panels using recessed lifting inserts as shown. Recessed insert holes in top panels and in posts shall be sealed with non-shrink cement mortar tinted to match color of panels and posts.
8. All concrete posts and panels shall be tinted utilizing an integral color in accordance with the Special Provisions.
9. All panels and posts shall be installed to true vertical (i.e. Faces of panels shall be flush).
10. Horizontal panel joints on each side of the post shall line up within 1" tolerance, providing that the first matching panel from the ground shall have zero tolerance and the last matching joint shall have 1" tolerance.
11. All precast members shall be fabricated to plan dimensions within the tolerances specified in Section 522 of the NJDOT Standard Specifications for Road and Bridge Construction.
12. Excavation and caissons shall be kept dry during placement of crushed concrete.
13. Spread footing and caissons shall be designed by the Designer based on actual subsurface conditions.
14. Shop drawings shall show complete noise barrier plan and elevations, including all steps and details and dimensions necessary for fabrication and erection.
15. The Contractor shall verify locations of all existing utilities prior to construction in the vicinity of the proposed noise barrier.
16. The concrete posts and panels shall be precast or prestressed utilizing a formliner. The formliner shall be as indicated in the NJDOT Standard Specifications for Road and Bridge Construction as modified by the Special Provisions.

SUMMARY OF QUANTITIES

PAY ITEM NO.	STANDARD ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY
		NOISE BARRIER, ROADWAY	S.F.	
		NOISE BARRIER, FOUNDATION	UNIT	
		TEMPORARY SHEETING	S.F.	

"Integral Coloring Pigment" shall be included in the bid price for "Noise Barrier, Roadway".
"Sheeting in Place" shall be included in the bid price for "Noise Barrier, Foundation".
"Foundation Excavation" shall be included in the bid price for "Noise Barrier, Foundation".

* The note should be modified to reflect applicable year and updated Specifications.

NOTE TO DESIGNER

THE DETAILS PROVIDED ARE FOR THE LIVE LOAD INDICATED IN THE GENERAL NOTES. THE DETAILS MUST BE DESIGNED FOR ANY MODIFICATIONS TO THE LIVE LOAD.

* When the difference of ground elevation between highway side and residential side is less than 1'-6", use 5" thick bottom panel. If the difference is between 1'-6" and 3'-0", use 9" thick bottom panel.

CONTROL SECTION		JOB NO.	
DES. BY		CHK. BY	
DWN. BY		CHK. BY	
EST. BY		CHK. BY	
SPECS. BY			
IN CHARGE OF _____			

REVISION	BY	CKD	DATE

BDC04MB-01

STANDARD DRAWING PLATE 2.8-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

**NOISE WALL BARRIERS
PRECAST CONCRETE PANEL DETAILS**

ROUTE _____ SECTION _____

MUNICIPALITY _____ COUNTY _____

SHEET NO. _____ OF _____

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