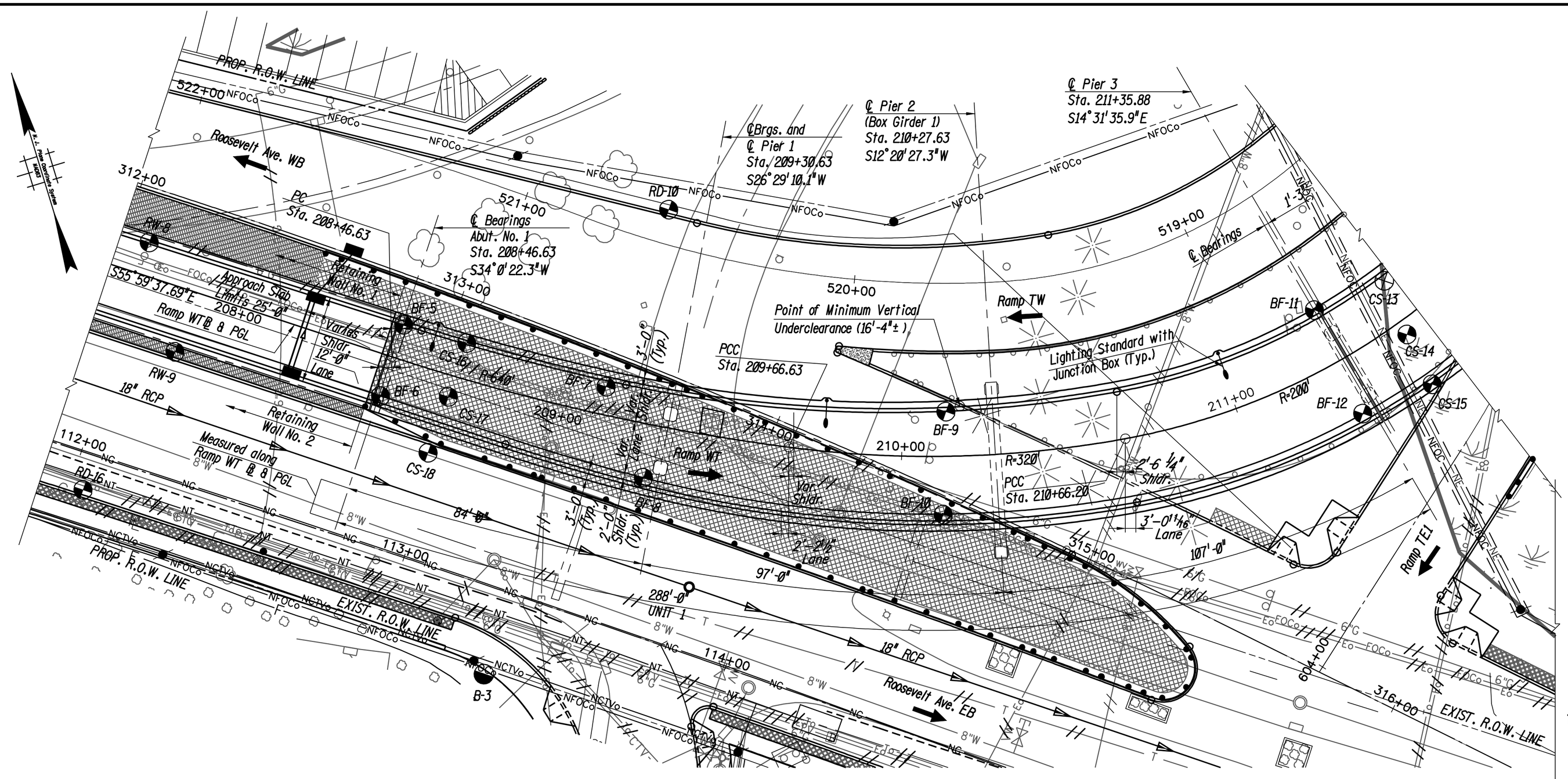
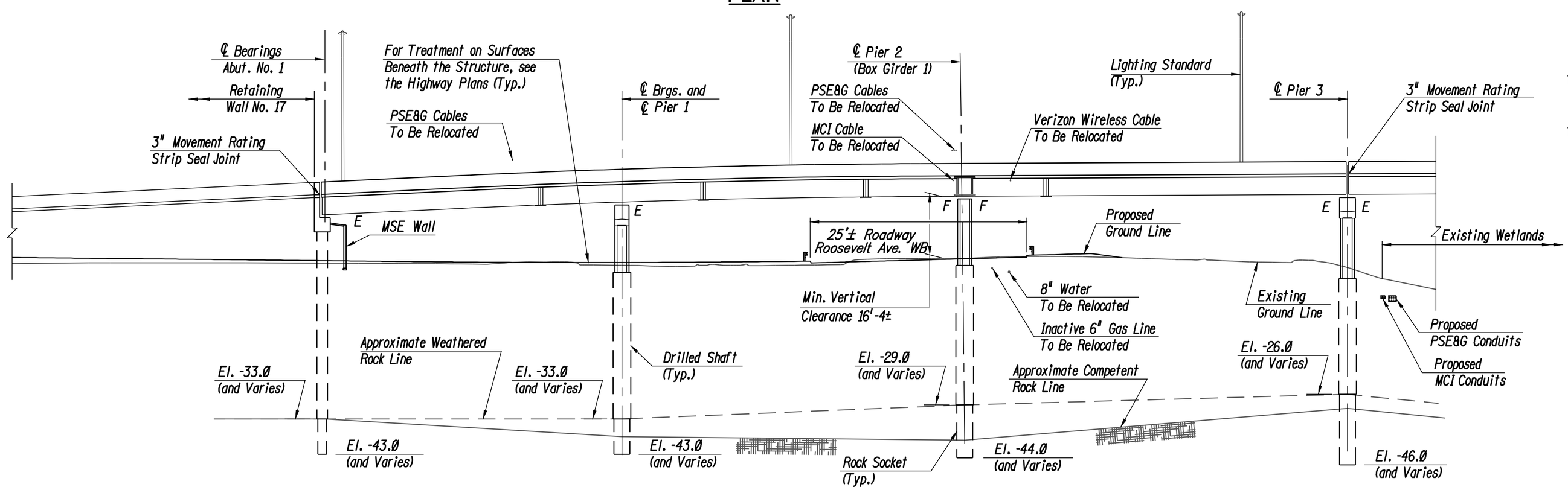


PLAN



DEVELOPED ELEVATION

GENERAL NOTES:

1. **DESIGN SPECIFICATIONS:**
   2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges.
   2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition.
   2004 AASHTO LRFD Bridge Design Specifications, 3rd Edition with Interims through 2005.
   2007 New Jersey Turnpike Authority Design Manual with Updates.
   ANSI/AASHTO/AWS Bridge Welding Code, D1.5-2002, with Revisions to 2005.
2. **CONSTRUCTION SPECIFICATIONS:**
   2004 New Jersey Turnpike Authority Standard Specifications and Supplementary Specifications.
3. **DESIGN METHOD:**
   Load Factor: All components except Deck Slab, Bearings and Foundations.
   Service Load: Bearings and Foundations.
   LRFD: Deck Slab.
4. **LIVE LOAD:**
   Load Factor and Service Load Design: HS25.
   Deck Design: 20k Wheel.
5. **DEAD LOAD:**
   Dead Load includes 13 PSF to account for the weight of stay-in-place forms and additional concrete in the form corrugations. Additional 25 PSF of future wearing surface is also included.
6. **SEISMIC LOAD:**
   Seismic Design in accordance with Division IA of the AASHTO Standard Specifications for Highway Bridges, as modified by the NJTA Design Manual Site Specific Response Spectrum. Detailing in accordance with Seismic Performance Category B.
7. **THERMAL FORCES:** Cold Climate.
8. **CONCRETE DESIGN STRENGTH (F'c):**
   Class 'A' Concrete..... 4,500 PSI
   Class 'B' Concrete..... 4,000 PSI
   Class 'C' Concrete..... 3,000 PSI
   'HPC' .....High Performance Concrete, for requirements see the Supplementary Specifications
   'Drilled Shaft and Rock Socket' Concrete.....for requirements see the Supplementary Specifications
   Concrete Classes:

ELEMENT	CLASS
Barrier Parapets and Median Curbs	A
Deck Slabs and Abutment Headblocks	HPC
All Cast-In-Place Walls	C
Substructure (Except for Drilled Shafts and Rock Sockets) and Approach Slabs	B

9. **REINFORCEMENT STEEL DESIGN ALLOWABLE STRESS:**
   ASTM A615/A615M-03a, Grade 60.....Fs = 24,000 PSI
10. **STRUCTURAL STEEL AND HIGH STRENGTH BOLTS:**
    STRUCTURAL STEEL: AASHTO M270, Grade 50W (ASTM A709, Grade 50W) with Supplementary Notch Toughness Requirements.
    Fatigue Resistance is Based Upon an Average Daily Truck Traffic Value of 4,000.
    See Structural Steel Plans for any Member or Member Components Designated as Fracture Critical (FCM) Under the Fracture Control Plan.
    All Structural Steel Shall be Coated with Paint System C within a Length of 1.5 x Girder Depth from end of Girders at Deck Joint Locations.
    HIGH STRENGTH BOLTS: ASTM 325X, Threads Excluded from Shear Plane, Type 3.
11. **FOUNDATIONS:**
    Drilled Shafts with Rock Sockets. Design Load = 625T (5'-0"ø); 250T (4'-0"ø).
12. **BORINGS:**
    BF-XX Indicates Location of Bridge Foundation Borings.
    RD-XX Indicates Location of Roadway Borings.
    RW-XX Indicates Location of Retaining Wall Borings.
    CS-XX Indicates Location of Cross-Hole Seismic Borings.

0 1/2 1 2 3 4
ORIGINAL SIZE IN INCHES

S-4
S-8

NEW JERSEY TURNPIKE AUTHORITY
ROADWAY NAME
PROJECT DESCRIPTION

CONTRACT NO.

STRUCTURE NO. XX, M.P. XX
GENERAL PLAN AND ELEVATION -1-

NAME OF CONSULTANT
ADDRESS
CERTIFICATE OF AUTHORIZATION NO. XXXXXXXXX

SCALE: 1" = 20'
DATE: MAY 2008

46
69

JOHN DOE
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. XXXXXXXXXXX

	BY	DATE
MADE	XXX	XX-XX-XX
TRACED	XXX	XX-XX-XX
CHECKED	XXX	XX-XX-XX
SUPERVISED	X.XXXX	

No.	DATE	REVISION
0	5-08	ORIGINAL SHEET

SAMPLE PLAN REVISION

FILE NAME: XXXXX