

GENERAL NOTES

1. DESIGN SPECIFICATIONS:
 - 2004 NEW JERSEY TURNPIKE AUTHORITY STANDARD SPECIFICATIONS, AND SUPPLEMENTARY SPECIFICATIONS.
 - 2007 NEW JERSEY TURNPIKE AUTHORITY DESIGN MANUAL (WITH UPDATES)
 - AASHTO GUIDE SPECIFICATIONS FOR STRUCTURAL DESIGN OF SOUND BARRIERS, 1989 INCLUDING 1992 AND 2002 INTERIMS.
 - 2002 (7TH EDITION) AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (N/INTERIMS) AS MODIFIED BY THE NJTA DESIGN MANUAL.

- ## 2. DESIGN METHOD:

3. LIVE LOADS:
90 M.P.H. WIND (FOR DESIGN PRESSURES, SEE BELOW)
RATING VEHICLE ON EXISTING STRUCTURES HS-20 (36 TON).

4. MATERIALS:
- | | | |
|----------------------|-------------------------------------|---------|
| CONCRETE: | CONCRETE IN CAISSON FOUNDATIONS | CLASS C |
| | PRECAST CONCRETE (PANELS AND POSTS) | CLASS A |
| | CONCRETE BARRIER CURB | CLASS A |
| REINFORCEMENT STEEL: | | |
| | AST M A615, GRADE 60 | |
| WELDED WIRE FABRIC: | | |
| | AST M A497, GRADE 70 | |
| | (SOUND BARRIER PANELS ONLY) | |

- | | |
|---|------------|
| 5. <u>DESIGN STRENGTHS:</u> | |
| CONCRETE COMPRESSIVE STRENGTH, F'c: | 3,500 PSI |
| CONCRETE IN CAISSON FOUNDATIONS | 4,500 PSI |
| PRECAST CONCRETE (SOUND BARRIER) | 4,500 PSI |
| CONCRETE BARRIER CURB | 60,000 PSI |
| REINFORCEMENT STEEL YIELD STRENGTH, Fy: | 70,000 PSI |
| WELDED WIRE FABRIC YIELD STRENGTH, Fy: | |
| (SOUND BARRIER PANELS ONLY) | |

- | 6. <u>DESIGN WIND PRESSURE:</u> | GROUND MOUNTED
DISTANCE, FEET | BRIDGE STRUCTURES,
RETAINING WALLS OR
TRAFFIC BARRIERS
PSF |
|---------------------------------|--|---|
| | GROUND SURFACE TO
CENTROID OF SOUND BARRIER | PSF |

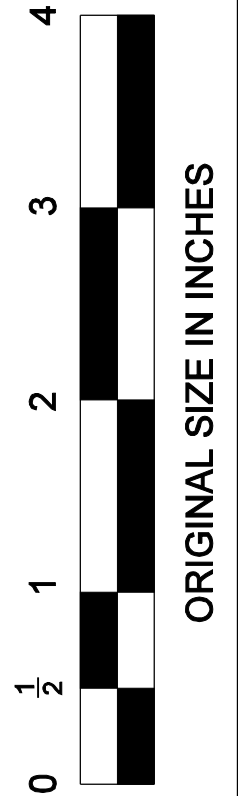
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|-----------------------|----|----|
| \emptyset' TO $14'$ | 25 | 34 |
| $14'$ TO $29'$ | 32 | 42 |
| OVER $29'$ | 36 | 46 |

7. DESIGN ALLOWABLE STRESS, SOUND BARRIER
- | | |
|----------------------|------------|
| CONCRETE, (fc) | 1,800 PSI |
| REINFORCEMENT STEEL: | 24,000 PSI |

8. EXTEND COLD APPLIED JOINT SEALER AND BACKER ROD FOR PANELS OVER TOP OF PANELS.

9. GROUND MOUNTED SOUND BARRIER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.

10. CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED GROUND ELEVATIONS PRIOR TO FABRICATION OF POSTS AND PANELS.



NEW JERSEY TURNPIKE AUTHORITY	ROADWAY NAME	PROJECT DESCRIPTION

CONTRACT NO.

NOISE BARRIER WALL GENERAL PLAN AND ELEVATION -1-

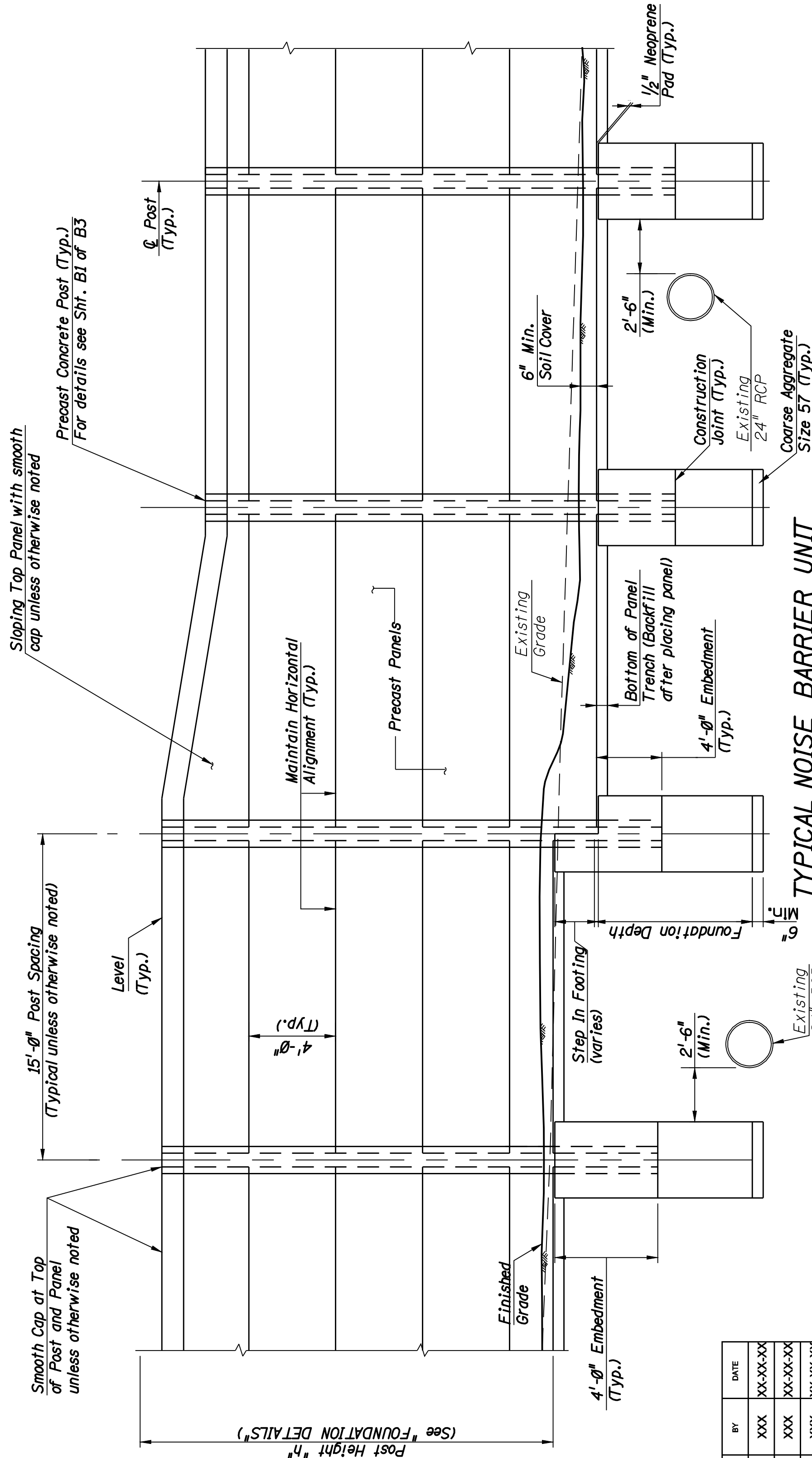
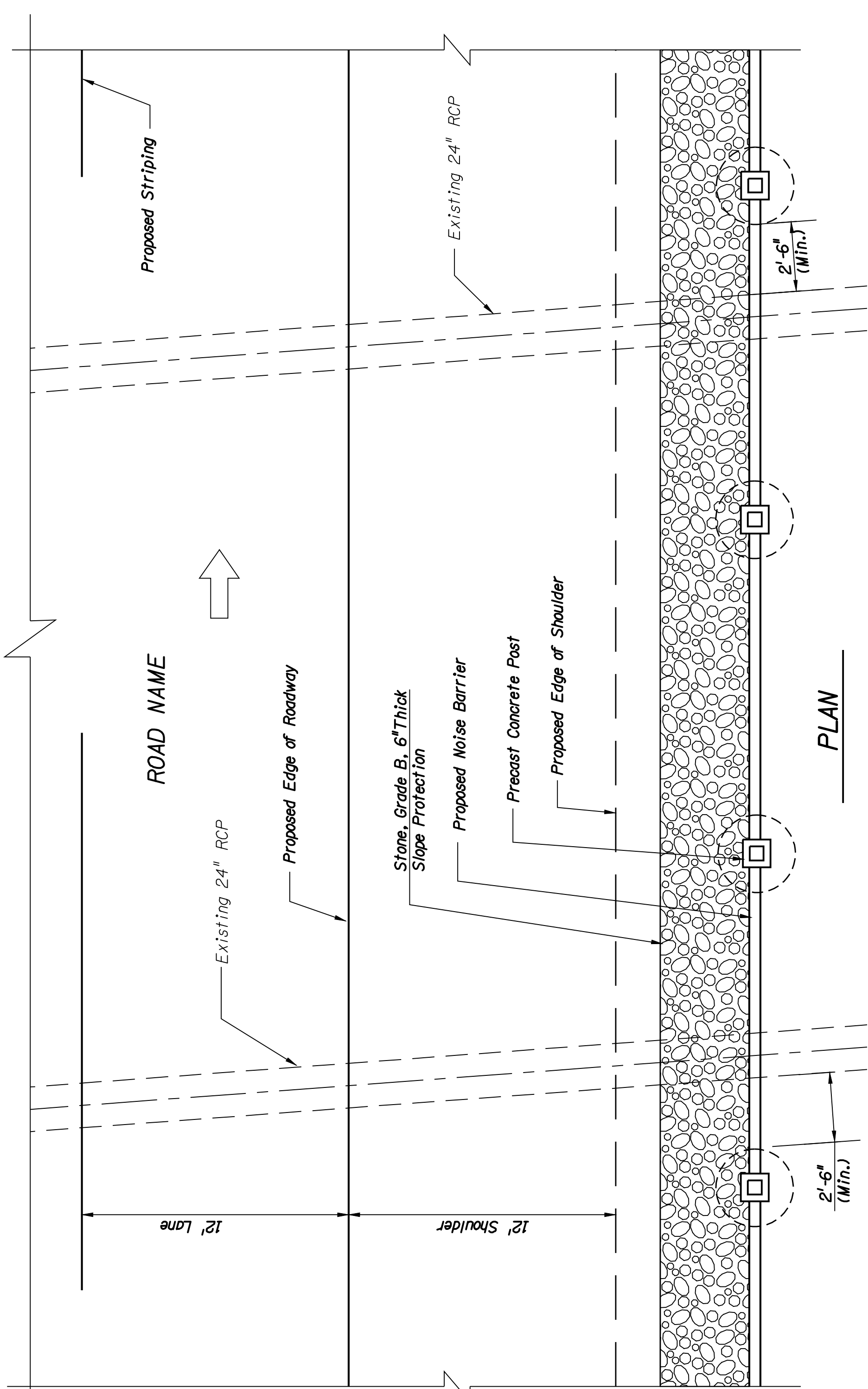
NAME OF CONSULTANT
ADDRESS
CERTIFICATE OF AUTHORIZATION NO. XXXXXXXXXXXX

SCALE: 1/4" = 1'-0"
DATE: MAY 2008

JOHN DOE

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. XXXXXXXXXXXXXXX

SAMPLE PLAN SHEET NO. 50 OF 69



TYPICAL NOISE BARRIER UNIT

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

No.	DATE	REVISION

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