GENERAL NOTES

- 1. All Reinforcement including the Welded Wire Fabric shall be Epoxy Coated.
- 2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
- 3. Welded Wire Fabric shall be according to AASHTO 55M,
- 4. The stresses developed in the Precast Panels and Posts during shipping, storage, transportation and erection shall be accounted for. It is the responsibility of the Contractor to provide additional reinforcement or bracing if necessary to address these items as suitable to his operations subject to approval by the Engineer. Cost included with Noise Abatement Wall, Ground Mounted.
- 5. Existing fence along the ROW shall remain. Any damage to the fence shall be repaired by the contractor at no additional expense to the Department.
- 6. Contractor to space drilled shafts to avoid existing and proposed underground utilities and drainage structures.
- 7. The contractor shall verify and consider the locations of overhead utilities prior to wall erection.
- 8. All panel tops shall be placed horizontally with any changes in elevation accomplished by stepping adjacent panel sections at posts. Steps shall not exceed 1 ft. in height, except within the last 50 ft. where 2 ft. steps will be permitted. See special provisions.
- 9. Any removal of existing trees and utilities are to be performed prior to construction of Noise Abatement Wall. Refer to General Notes and Project Commitments Sheet for additional information.

LOADING

Wind = 25 pst (Ground Mounted)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges 1989 Guide Specifications for Structural Design of Sound Barriers with 1992 and 2002 interims.

DESIGN STRESSES

FIELD UNITS

PRECAST UNITS

 $f_{c}' = 3,500 (Drilled Shafts)$

 $f_v = 60,000 \text{ psi (Reinforcament)}$

fy = 50,000 psi (Structual Steel) (M270 Grade 50)

 $\vec{f_V}$ = 60,000 psi (Reinforcement)

= 65,000 psi (Welded Wire Fabric)

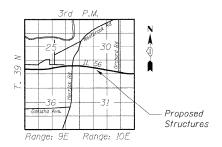
DESIGNED - RJT CHECKED - MRB DRAWN - MB CHECKED - MRB

ADDITIONAL DESIGN CRITERIA

- 1. The architectural rustication to an extent of the maximum groove depth on each face of the Panel is considered structurally ineffective and shall not be considered for strength except when checking for crack control.
- 2. (a) Post Base Plate and connection to Drilled Shafts shall be designed for strength for both erection loads and service loads.

(b) Shop or field welding of reinforcement bars is not allowed.

- (c) Grouted pockets in the Post on Panel shall be considered ineffective for strength or serviceability design.
- (d) The coefficient of friction between steel and grout is 0.45.



LOCATION SKETCH

TOTAL BILL OF MATERIAL

Item	Unit	Total
Noise Abatement Wall, Ground Mounted	Sq. ft	95,140

Note: For the method of measurement of the Noise Abatement Wall, see sheet N2O of N3O and Special Provisions.

GENERAL DATA NOISE ABATEMENT WALL



SHEET NO. N18	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	365	(57 & 58)WRS-2	DUPAGE	681	417
N3Ø SHEETS			CONTRACT	NO. 62	419
		ILLINOIS FED. A	VID PROJECT		

TOTAL SHEET

SHEETS NO. 417