

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications  
for Highway Bridges, 17th Edition

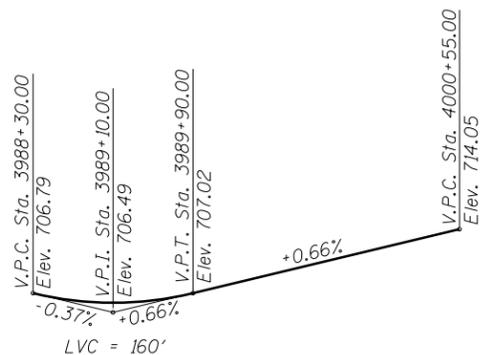
**LOADING**

Wind Loading on Noise Wall = 35 psf

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 36,000$  psi (M270 Grade 36)



**PROFILE GRADE**

(along inside edge of pavement IL Route 59)

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. Concrete Sealer shall be applied to exposed surfaces of the front face, top face, and back face of wall.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	284
Concrete Structures	Cu. Yd.	63.5
Concrete Sealer	Sq. Ft.	1,892
Stud Shear Connectors	Each	170
Reinforcement Bars, Epoxy Coated	Pound	11,440
Geocomposite Wall Drain	Sq. Yd.	55
Untreated Timber Lagging	Sq. Ft.	672
Furnishing Soldier Piles (W Section)	Foot	756
Pipe Underdrains for Structures, 4"	Foot	280
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	3,985
Form Liner Textured Surface	Sq. Ft.	404

FILE NAME = ...60R31-W048-002-GPE2.dgn



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DESIGNED - LAS	REVISED -
CHECKED - DAZ	REVISED -
DRAWN - SAW	REVISED -
CHECKED - LAS	REVISED -
SCALE - NONE	
DATE - 12/14/2012	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & BILL OF MATERIAL  
STA. 3989 + 40.25 TO STA. 3991 + 85.47 SN 022-W048**

SHEET NO. SA-2 OF SA-10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS-6	DUPAGE	734	490
CONTRACT NO. 60R31				
ILLINOIS FED. AID PROJECT				