

Bench Mark: Cross "+" on top of north end of headwall, 50' north of centerline of Phoenix Closures driveway, east side of IL Route 59, Sta. 3958+37, 42' Right, Elev. 696.41

Existing Structure: None

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications
for Highway Bridges, 17th Edition

DESIGN STRESSES

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

GENERAL NOTES

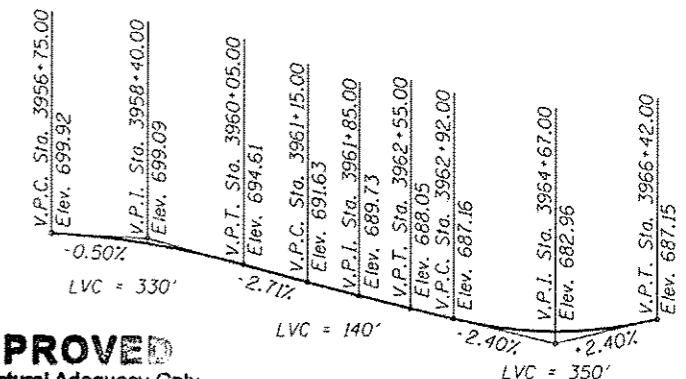
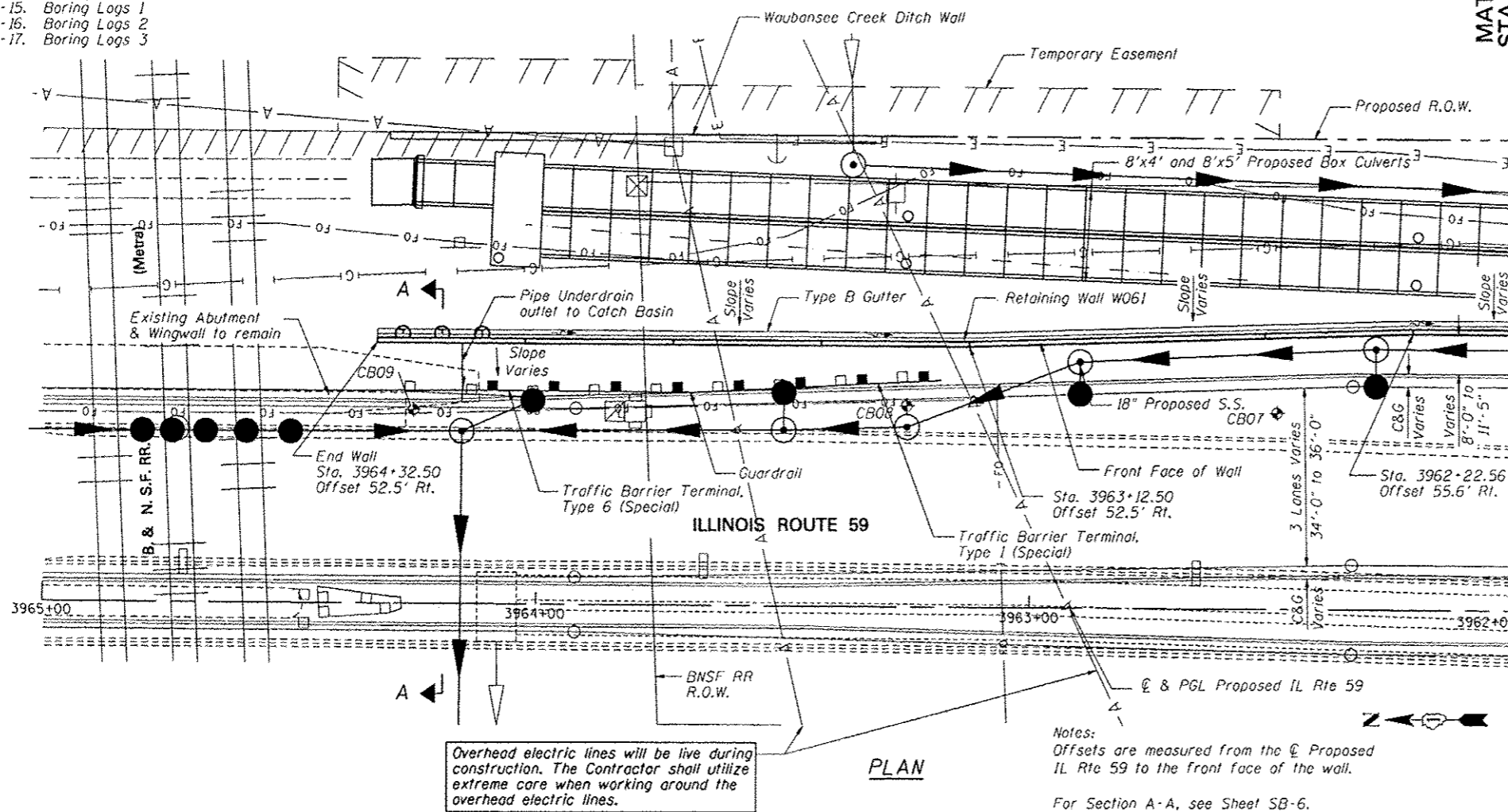
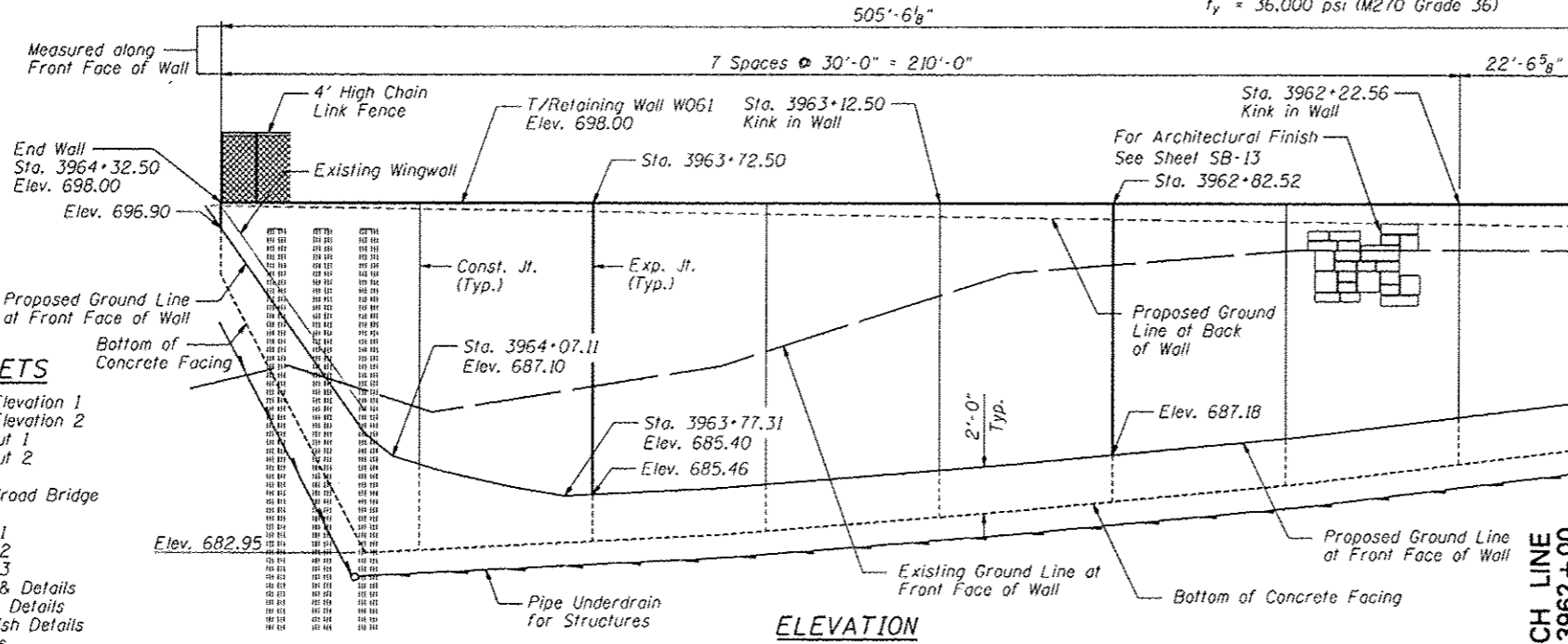
1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. Concrete sealer shall be applied to exposed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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	640
Concrete Structures	Cu. Yd.	198.5
Concrete Sealer	Sq. Ft.	4,575
Stud Shear Connectors	Each	602
Reinforcement Bars, Epoxy Coated	Pound	25,010
Geocomposite Wall Drain	Sq. Yd.	312
Untreated Timber Lagging	Sq. Ft.	3,683
Furnishing Soldier Piles (W Section)	Foot	1,788
Pipe Underdrains for Structures, 4"	Foot	526
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	12,905
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	42
Form Liner, Textured Surface	Sq. Ft.	2,823
Chain Link Fence, 4' Attached to Structure	Foot	506

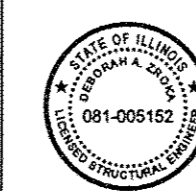
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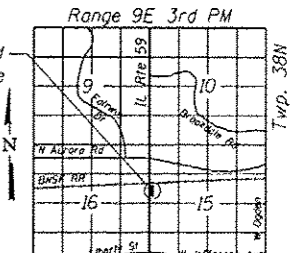


APPROVED
For Structural Adequacy Only
D. Carl Pappas
Engineer of Bridges & Structures

PROFILE GRADE
(along proposed IL Route 59)



Deborah A. Zroka
Signature
November 30, 2014
Date



HORIZONTAL CURVE DATA
Proposed Curve PRIL 59-2
PI Sta. = 3961+11.77
 $\Delta = 3^\circ 02' 50''$ (LT)
 $D = 1^\circ 56' 16''$
 $R = 2,956.67'$
 $T = 78.64'$
 $L = 157.25'$
 $E = 1.05'$
P.C. Sta. = 3960+33.13
P.T. Sta. = 3961+90.37

GENERAL PLAN AND ELEVATION
IL RTE 59 FAP RTE 338
SECTION (112 & 113) WRS-7
DUPAGE COUNTY
STA. 3959+30.00 TO STA. 3964+32.50
SN 022-W061

ZROKA
Engineering
Zroka Engineering, P.C.
4216 North Hennepin
Chicago, IL 60613

DESIGNED - LAS	REVISED -
CHECKED - DAZ	REVISED -
DRAWN - SAW	REVISED -
CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STA. 3959+30.00 TO STA. 3964+32.50
S.N. 022-W061

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS-7	DUPAGE	1156	860
CONTRACT NO. 60R30			ILLINOIS FED. AID PROJECT	