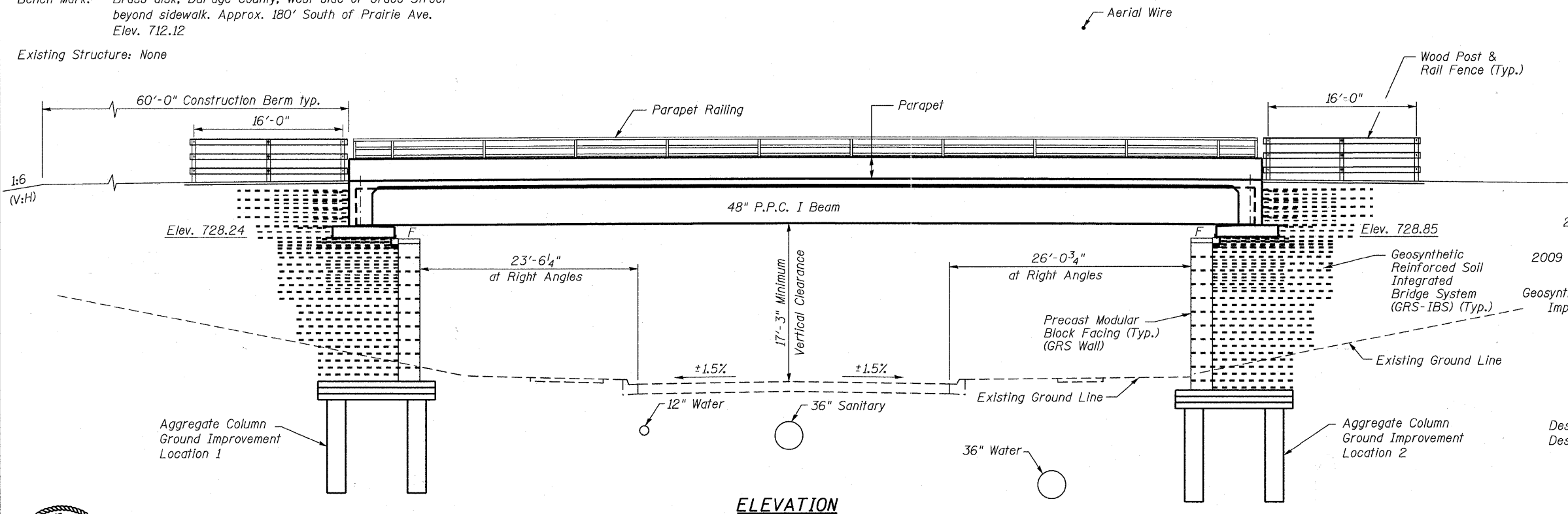


Bench Mark: - Brass disk, DuPage County, West side of Grace Street beyond sidewalk. Approx. 180' South of Prairie Ave. Elev. 712.12

Existing Structure: None



ELEVATION

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi (1/2" ϕ low lax. strands)
 $f_{pbt} = 201,960$ psi (1/2" ϕ low lax. strands)
 f'_c Precast Modular Blocks = See Special Provisions

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims
 2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges
 Geosynthetic Reinforced Soil Integrated Bridge System Interim Implementation Guide, FHWA-HRT-11-026, January 2011

LOADING H20

Pedestrian Live Load 90#/sq. ft.
 Allow 25#/sq. ft. for future wearing surface.

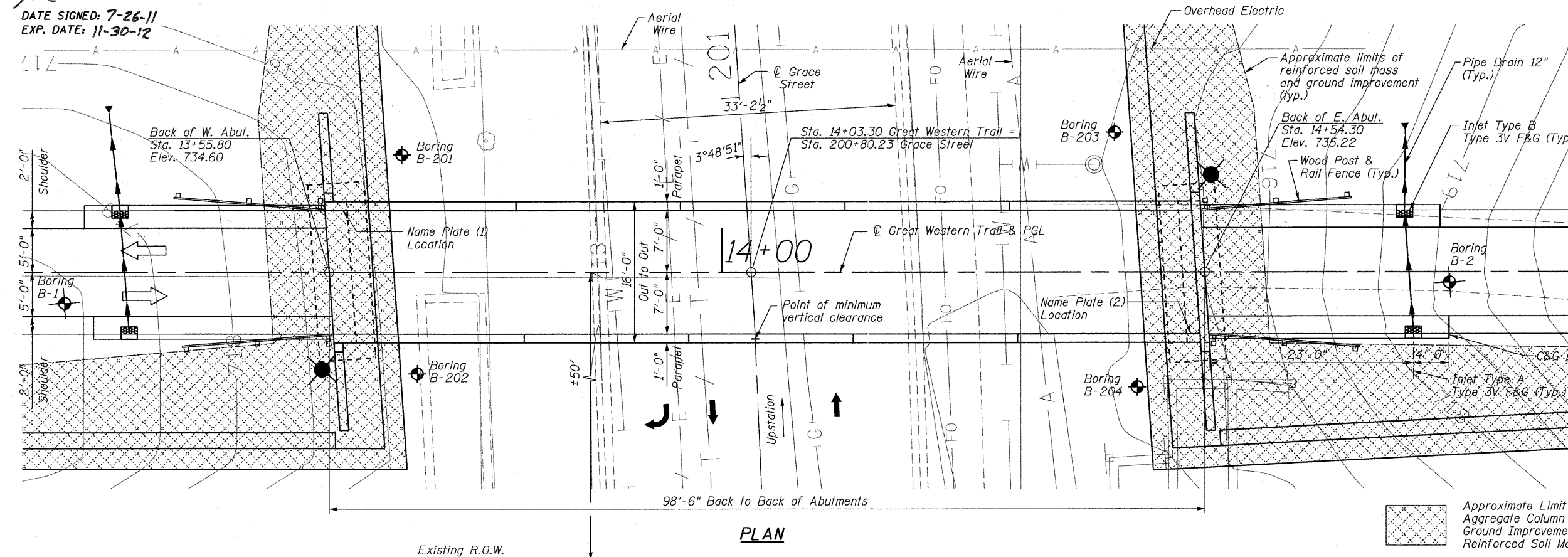
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.087
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.154
 Soil Site Class = D

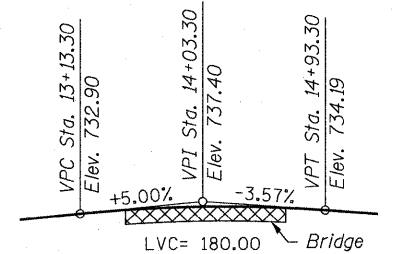


I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications."

DATE SIGNED: 7-26-11
 EXP. DATE: 11-30-12



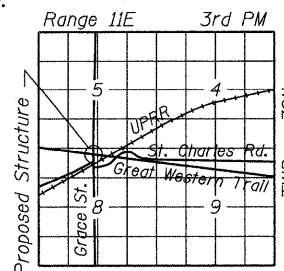
PLAN



PROFILE GRADE TRAIL



PROFILE GRADE GRACE STREET



LOCATION SKETCH

FILE NAME = w:\756-804_lombard - get bridges phase 11\add sheets\structure\grace\0223128-001-Gen-Pln.dwg

Bollinger, Lach & Associates, Inc.
 ITASCA, ILLINOIS

USER NAME = gonzalo	DESIGNED <i>JJI</i>	REVISED -
PLOT SCALE =	CHECKED <i>SRT</i>	REVISED -
PLOT DATE = 7/26/2011	DRAWN <i>GM</i>	REVISED -
	CHECKED <i>SRT</i>	REVISED -

STATE OF ILLINOIS
GREAT WESTERN TRAIL
GRACE STREET

GENERAL PLAN
STRUCTURE NUMBER 022-3120
 SHEET NO. 1 OF 25 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00151-00-BR	DUPAGE	201	53
CONTRACT NO. 63568				
ILLINOIS FED. AID PROJECT				