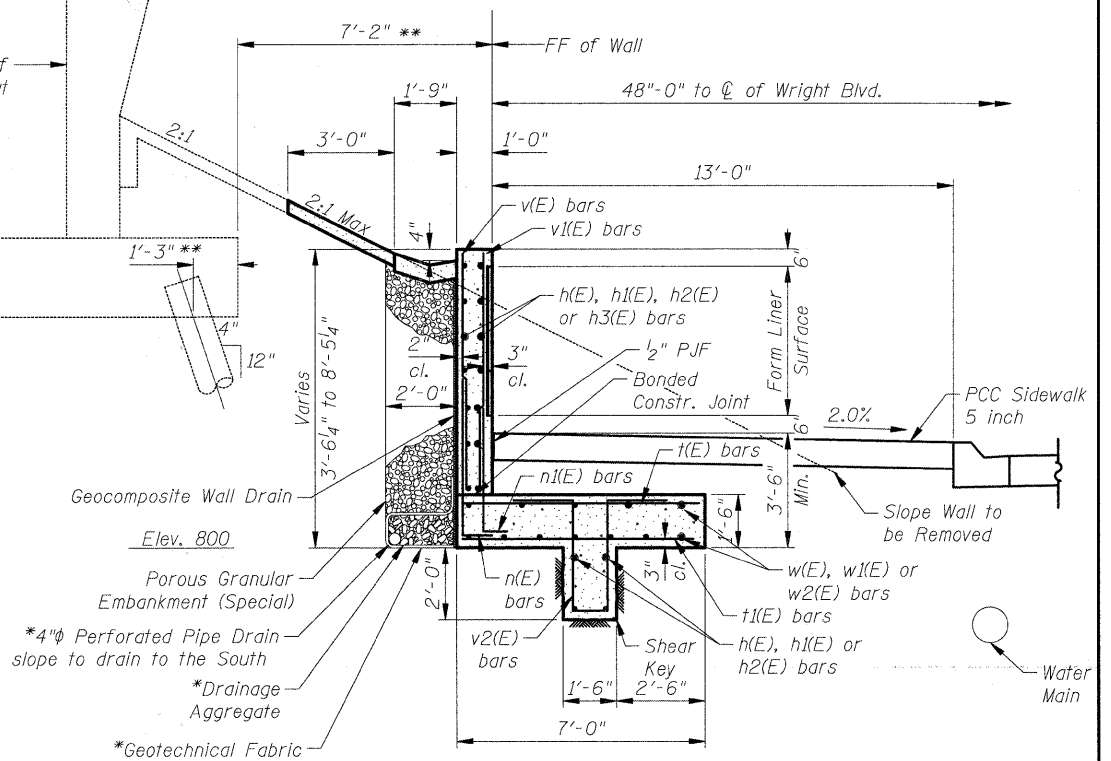
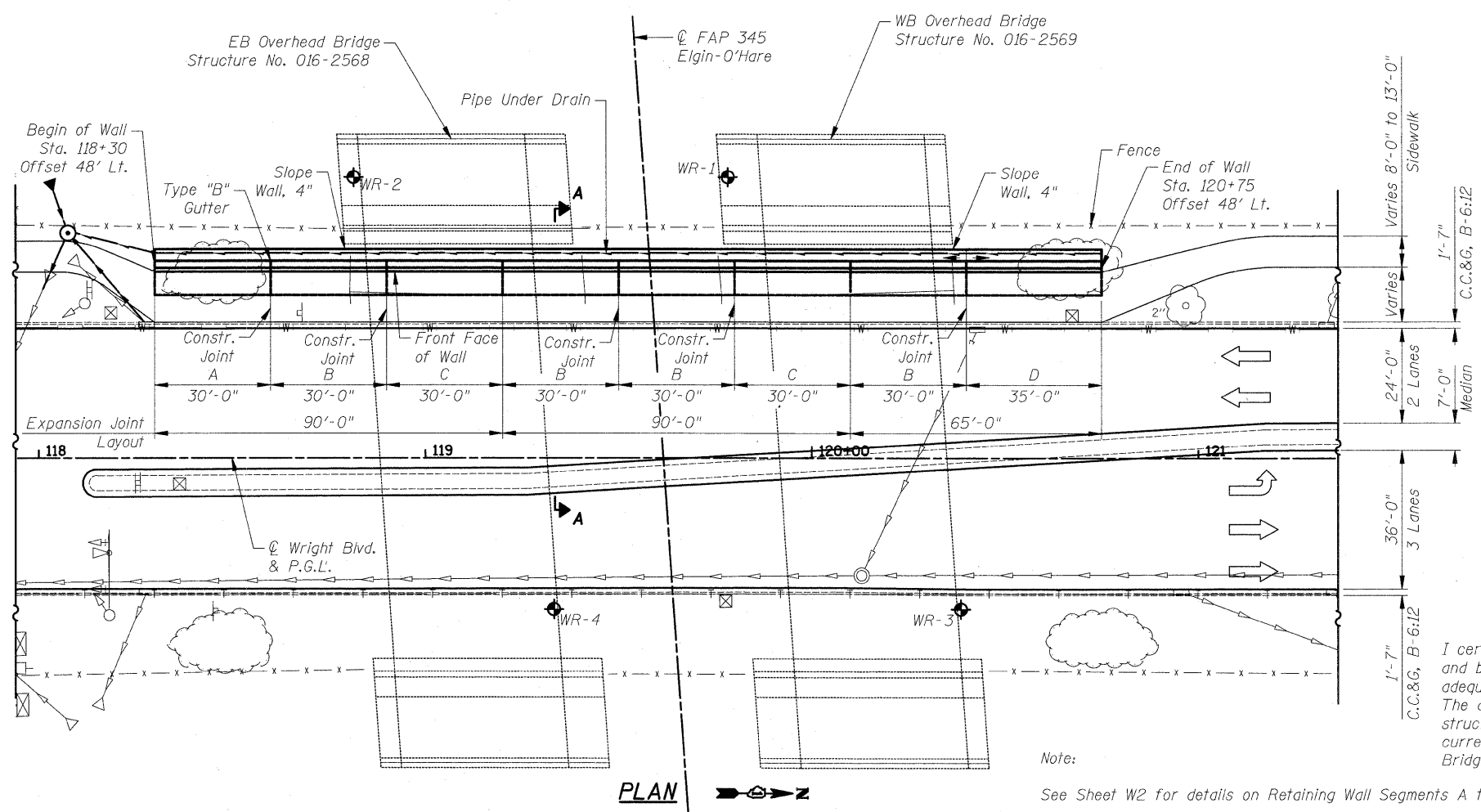
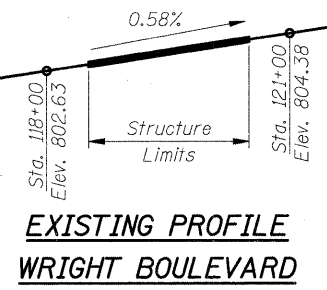
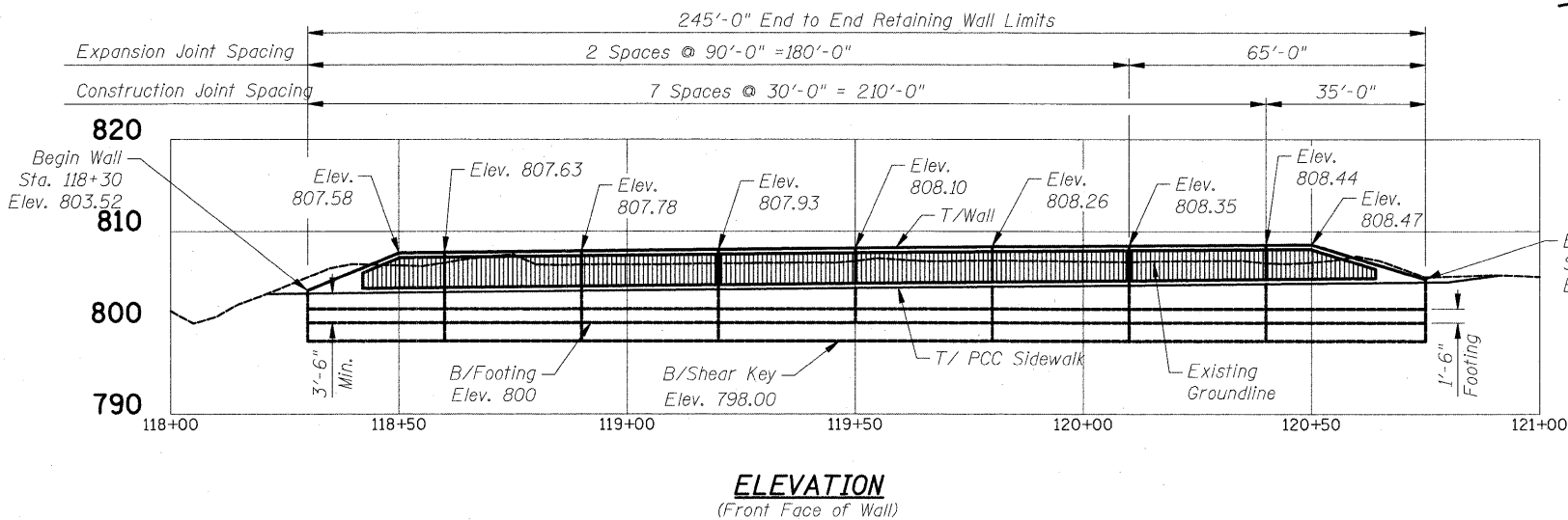


Bench Mark: BM-5 - NW Arrow bolt on the Fire Hydrant on the South side of the RR Tracks at 1670 Wright Boulevard. Elev. = 802.80

Existing Structure: None

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 1351	06-00090-00-PV	Cook	137	104
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT - ARA-M-8003(809)	
Contract # 63378				



CIVILTECH ENGINEERING, INC.
GREGORY J. HATLESTAD, S.E.

STATE OF ILLINOIS
GREGORY J. HATLESTAD
081-005562
REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL

EXP 11/30/10
DATE 10/16/09

I certify that to the best 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 the structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

Maximum Applied Bearing Pressure = 1,200 psf
Maximum Allowable Bearing Pressure = 3,000 psf

* Included in the cost of Pipe Underdrains for Structures 4"
** Based on Existing Plans Information

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
* Porous Granular Embankment, Special	Cu. Yd.	123
Slope Wall Removal	Sq. Yd.	283
* Braced Excavation	Cu. Yd.	647
Concrete Structures	Cu. Yd.	190.0
Form Liner Textured Surface	Sq. Ft.	693
Reinforcement Bars, Epoxy Coated	Pound	14,670
Slope Wall 4"	Sq. Yd.	46
Geocomposite Wall Drain	Sq. Yd.	62
* Pipe Underdrains for Structures, 4"	Foot	258
Concrete Gutter, Type B	Foot	245

* See Special Provisions

W1 OF W4

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications for Highway Bridges

LEGEND

- Pipe Under Drain
- Storm Sewer -Existing
- Storm Sewer -Proposed
- Water Main
- Fence
- ⊕ Soil Boring Location

INDEX OF SHEETS

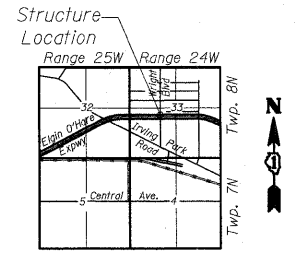
- W1 General Plan & Elevation
- W2 Sections & Details
- W3 Soil Boring Logs I
- W4 Soil Boring Logs II

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

HIGHWAY CLASSIFICATION

F.A.U. 1351
Functional Class: Collector
ADT: 6,600 (2008); 11,000 (2030)
ADTT: 660 (2008); 1,100 (2030)
DHW: 791
Design Speed: 35 m.p.h.
Posted Speed: 30 m.p.h.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
RETAINING WALL
WRIGHT BOULEVARD (F.A.U RTE. 1351)
SECTION 06-00090-00-PV
COOK COUNTY
STA. 118+30 TO STA. 120+75

Scale: None
Date: October 16, 2009
Designed By: D. Atkins
Checked by: M. Lange

10/15/2009 8:33:53 PM d:\2285\road\Struct\NOL\gpe.dgn