

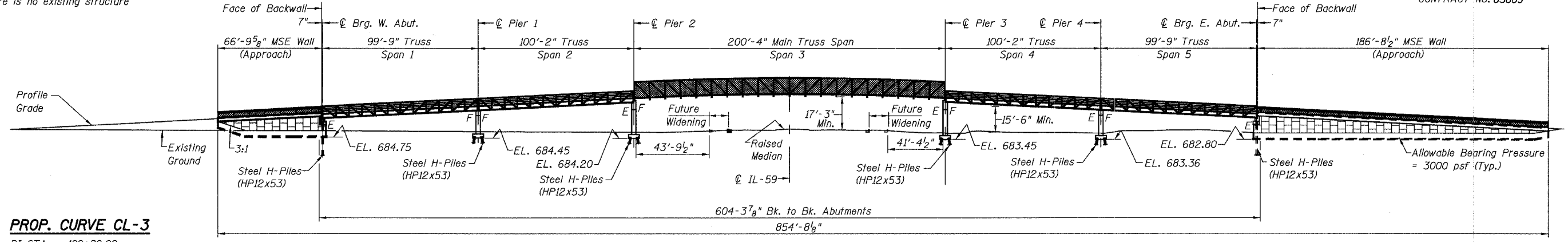
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P.	05-00130-00-BR	WILL	41	13
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
OF 23 SHEETS

CONTRACT NO. 83889

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

B. M. : Site Bench Mark: Chiseled "□" at southeast corner of ComEd Box on North-Side of Access Road, approximately half way down - Elev. 688.655.
Project Bench Mark: Bernstein Road, Top of Security Monument @ 103rd Street and Entrance to Fire Station on the southeast corner of driveway entrance.
There is no existing structure



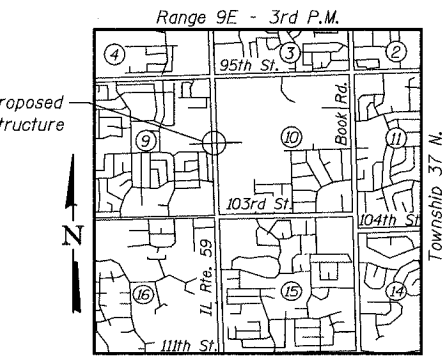
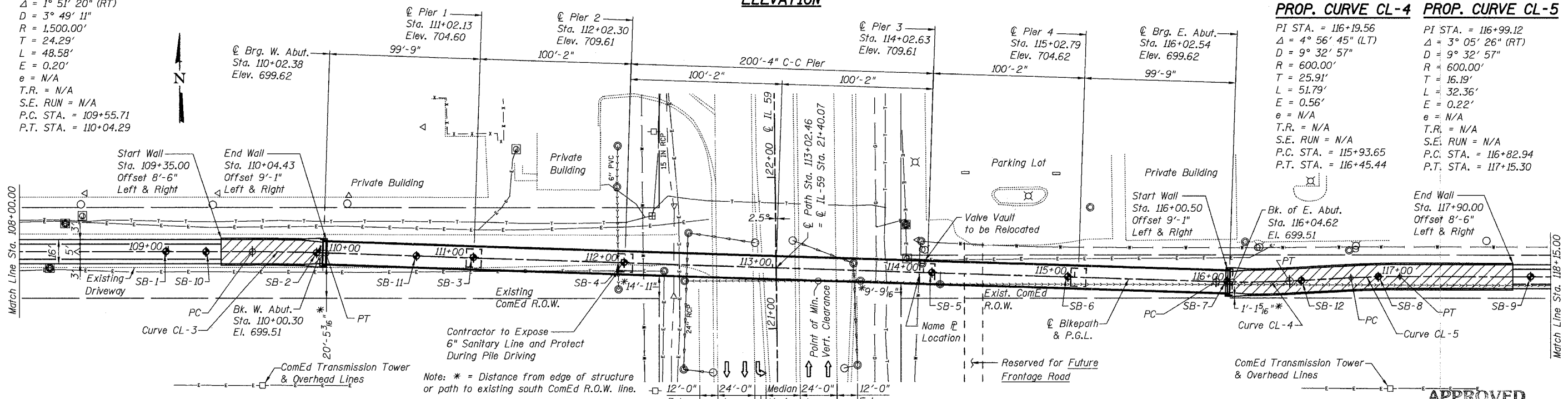
PROP. CURVE CL-3

PI STA. = 109+80.00
Δ = 1° 51' 20" (RT)
D = 3° 49' 11"
R = 1,500.00'
T = 24.29'
L = 48.58'
E = 0.20'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 109+55.71
P.T. STA. = 110+04.29

PROP. CURVE CL-4 PROP. CURVE CL-5

PROP. CURVE CL-4
PI STA. = 116+19.56
Δ = 4° 56' 45" (LT)
D = 9° 32' 57"
R = 600.00'
T = 25.91'
L = 51.79'
E = 0.56'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 115+93.65
P.T. STA. = 116+45.44

PROP. CURVE CL-5
PI STA. = 116+99.12
Δ = 3° 05' 26" (RT)
D = 9° 32' 57"
R = 600.00'
T = 16.19'
L = 32.36'
E = 0.22'
e = N/A
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 116+82.94
P.T. STA. = 117+15.30



LOADING H10 & PEDESTRIAN @ 85 P.S.F.

MSE Wall shall be designed for a min. surcharge of 85 psf and an equivalent fluid pressure of 50 psf.

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 P.S.I.
Fy = 60,000 P.S.I. (Reinf.)
Fy = 50 K.S.I. (Struct.) (AASHTO M270, Grade 50) - Exp. P.
Fy = 36 K.S.I. (Struct.) (AASHTO M270, Grade 36) - Railings

PREFABRICATED BRIDGE UNITS
Fy = 50 K.S.I. (Struct.) (AASHTO M270, Grade 50W)
See GBSP "Pedestrian Truss Superstructure"

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges
1997 AASHTO Guide Specification for the Design of Pedestrian Bridges

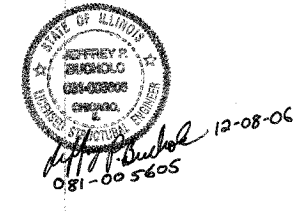
- LEGEND:**
- ▨ Portland Cement Concrete Sidewalk 6 inch, Special
 - △ Flared End Section
 - Storm Sewer
 - Sanitary Sewer
 - Gas
 - Telephone
 - Watermain
 - Electric
 - Ditch Line
 - Manhole
 - Catch Basin
 - Street Light
 - Transformer/Switch
 - Hydrant

Date: 12-08-2006 Exp. Date: 11-30-2008

I Certify that to the best of my knowledge, information and belief, this Bridge/Box Culvert 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 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES"

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
ROUTE 59 PEDESTRIAN BRIDGE
CITY OF NAPERVILLE, WILL COUNTY

F.A.P. RTE. STATION 113+02.46 SECTION: 05-00130-00-BR STRUCTURE NO. 099-6002
SCALE: N.T.S. DATE: 12/8/2006

URS
100 South Wacker Drive,
Suite 500
Chicago, IL 60606
(312) 939-1000

1/10/2007 1:52:08 PM C:\Naperville\2536506_PedBridg\Bridg\Pre-Final\Plans\Drawings\01_GP&E.dwg

DESIGNED	MDS
CHECKED	JPB
DRAWN	MDS
CHECKED	JPB