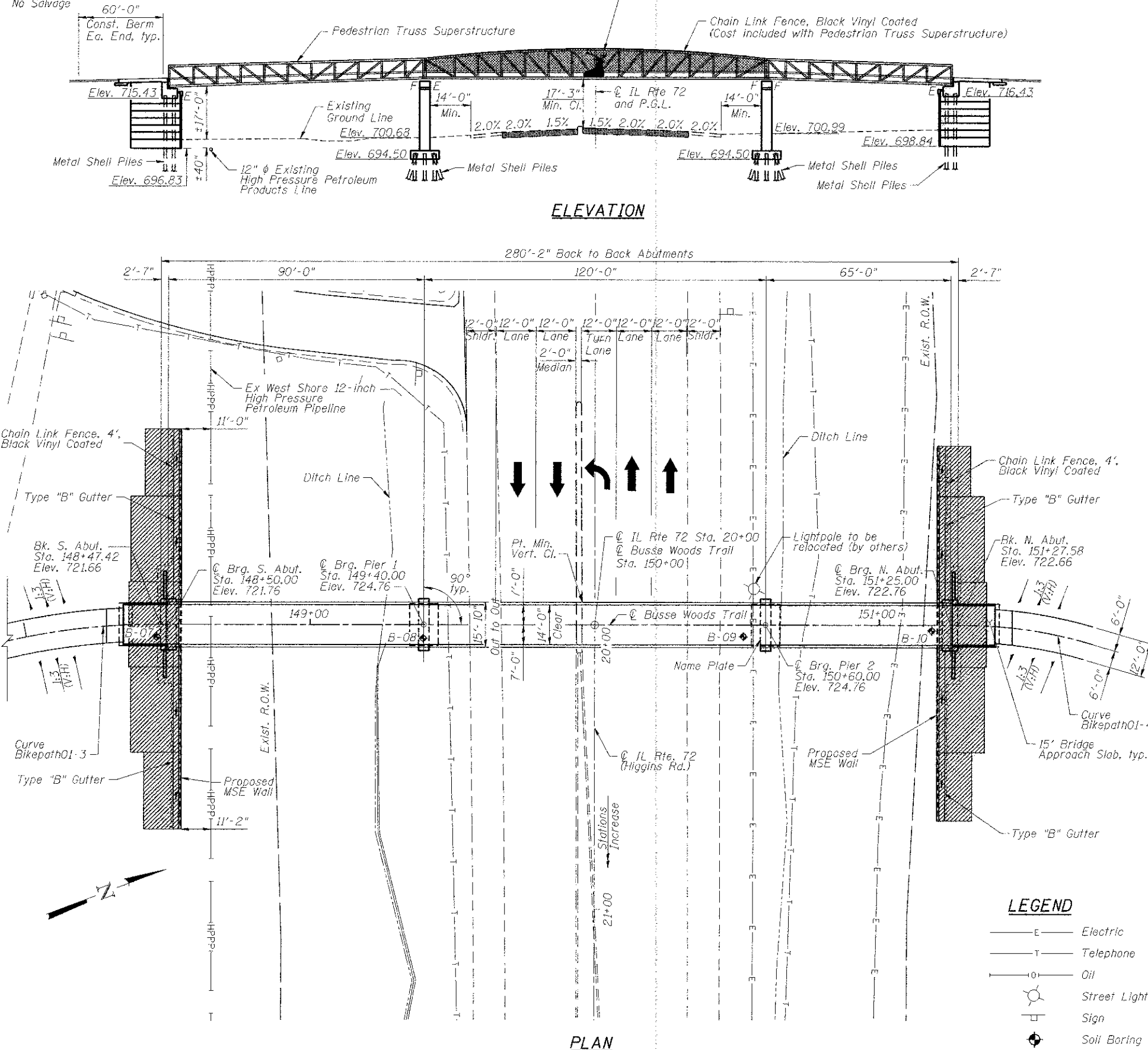


Bench Mark: P.K. nail in Northwest of first parking lot South at Higgins Road Elev. 697.99

Existing Structure: None. IL Rte. 72 (Higgins Rd.) traffic to be maintained utilizing Stage Construction.

No Salvage

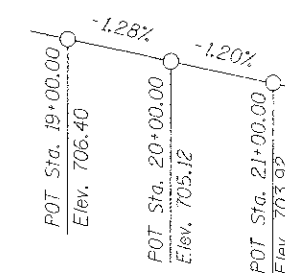


BUILT 201L BY
VILLAGE OF ELK GROVE VILLAGE
SEC. 09-00058-00-BT
STATION 150+00
STR. NO. 016-6921 LOADING H-10

NAME PLATE

See Std. 515001

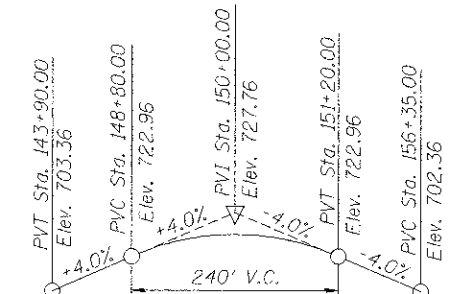
* Name of bridge to be furnished by
the Village of Elk Grove Village



PROFILE GRADE

Along IL Rte 72

CURVE DATA BIKEPATH01-3		CURVE DATA BIKEPATH01-4	
P.I. Sta. = 147+70.73	$\Delta = 121^\circ 45' 06''$ (RT)	P.I. Sta. = 153+78.92	$\Delta = 116^\circ 10' 49''$ (RT)
D = 25° 27' 53"	R = 225.00'	D = 36° 57' 54"	R = 155.00'
T = 403.84'	L = 478.12'	T = 248.92'	L = 314.30'
E = 237.29'	P.C. Sta. = 143+66.88	E = 138.24'	P.C. Sta. = 151+30.00
P.T. Sta. = 148+45.00		P.T. Sta. = 154+44.30	



PROFILE GRADE

Along IL Busse Woods Trail

LOADING

Pedestrian Live Load = 90 psf
Vehicle Live Load = H-10

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications,
6th Edition

2009 AASHTO LRFD Guide Specifications for the
Design of Pedestrian Bridges

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi (Cast-in-Place)
 $f'_c = 4,500$ psi (Precast)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)-Truss

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.084 g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.147 g
Soil Site Class = D

APPROVED

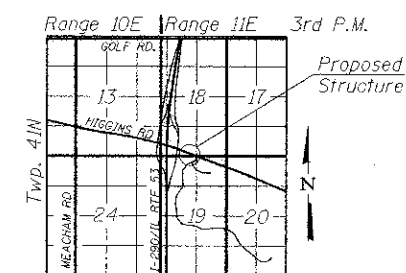
FOR STRUCTURAL ADEQUACY ONLY

Matthew D. Santeford, P.E., S.E.
NO. 081-007244
EXP. DATE 11/30/2014

"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 the requirements of the current
"AASHTO LRFD Bridge Design Specifications".

LEGEND

- Electric
- Telephone
- Oil
- Street Light
- Sign
- Soil Boring



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
BUSSE WOODS TRAIL OVER
IL. RTE 72 (HIGGINS RD.)
F.A.P. ROUTE 0341
SECTION 09-00058-00-BT
COOK COUNTY
STATION 150+00.00
STRUCTURE NUMBER 016-6921



USER NAME = mdsanteford
PLOT SCALE = 20.0/0.000" = 1/1000"
PLOT DATE = 2/27/2013

DESIGNED - KAH
CHECKED - WJC
DRAWN - JDC
CHECKED - WJC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 13 SHEETS

F.A.P. ROUTE 0341
SECTION 09-00058-00-BT
COUNTY COOK
TOTAL SHEETS 43
SHEET NO. 18
CONTRACT NO. 63809
ILLINOIS FED. AID PROJECT