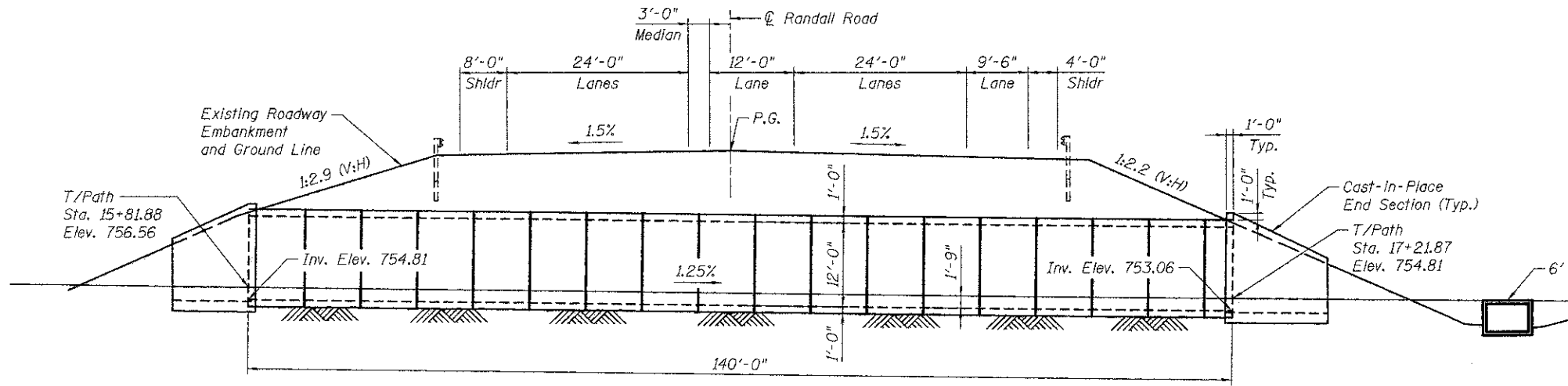


Bench Mark: NE Bonnet Bolt on Fire Hydrant on North side of South Street - approximately 350' SW of Gary Lane. Elev. 752.48.

Traffic will be maintained on Randall Road during installation of the tunnel.

Existing Structure: None



LONGITUDINAL SECTION

PROFILE GRADE
(along ϕ South Street Trail)

PROFILE GRADE
Randall Road
(Existing P.G.)

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi

$f_y = 60,000$ psi (Reinforcement)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface

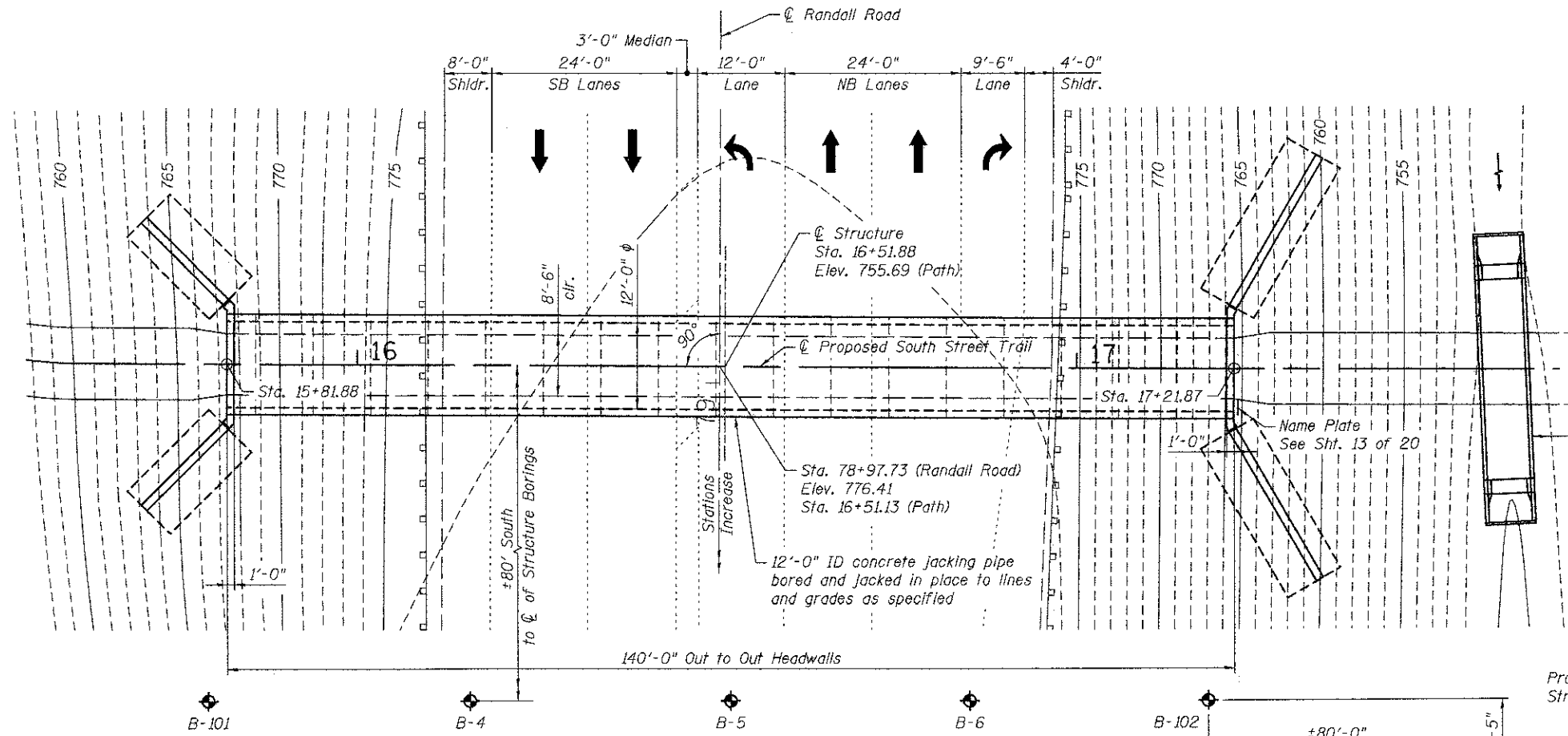
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.060g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.104g
Soil Site Class = C

I certify that to the best of my knowledge, information and belief, this structure 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".

David L. Smoot

David L. Smoot
Date: 05/07/2012
License Expires: 11/30/2012



PLAN

LOCATION SKETCH

\diamond Indicates Soil Boring Location

GENERAL PLAN & ELEVATION
BICYCLE/PEDESTRIAN TUNNEL
UNDER RANDALL ROAD
SOUTH STREET TRAIL
SEC. 00-00259-00-BT
KANE COUNTY
STATION 16+51.88
STRUCTURE NO. 045-3181

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
312-580-445-7765

USER NAME = nparria	DESIGNED - DLS	REVISED -
PLOT SCALE =	CHECKED - AEU	REVISED -
PLOT DATE = 5/11/2012	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 20 SHEETS

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 29
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63667	