

2015 QBS
Request for Statement of Interest (SOI)
Seavey Road over Lake Run Creek
Bridge Replacement
Section Number 12-04101-01-BR

The Blackberry Township Road District is in need of professional services from a qualified engineering firm to provide engineering services as detailed in the attached scope of work. The Kane County Division of Transportation is assisting the Road District with the consultant selection process. Ultimately, the project will be administered by the Road District.

Statements of Interest received will be used by the Township to determine a preferred consultant for the work.

The attached *Scope of Services and Plan Sheets* provide a summary of items that will be encountered during the course of the Phase III services required.

At this time the Road District anticipates starting this work in early-2016.

The Statement of Interest shall be limited to 2 pages, must be submitted electronically via **KDOT QBS** no later than 4:00 pm on October 28th, 2015, and should be addressed to Candi Thomas, P.E., Senior Project Manager. The SOI shall be submitted in a PDF format viewable with the latest version of Adobe Reader.

If you plan to enter into a joint venture with another firm for this project please note this on your Statement of Interest, including the name of the firm you are entering into a joint venture with for this project.

For more information regarding the 2-page SOI, such as content and format of these items, please reference the QBS document found at: [KQBS - Professional Services Procurement Process](#).

The preferred consultant will be contacted by the Township.

Any questions on the project may be emailed.

A Statement of Interest (SOI) received after the above noted deadline will not be used as part of our consultant selection process.

Candi Thomas, P.E.
Senior Project Manager
Kane County Division of Transportation
41W011 Burlington Road
St. Charles, Illinois 60175
thomascandance@co.kane.il.us

Please refer to the following Scope of work for more information on this project.

Seavey Road over Lake Run Creek Scope of Work

Project Description/Scope of Services

This project consists of Phase III supervision/inspection services to replace the bridge/superstructure along Seavey Road over Lake Run Creek (045-3320). The bridge work will include complete replacement of the structure and needed roadway approach reconstruction, as identified on the attached plans.

This work includes all materials, permits, labor and activities necessary to complete the project.

This project is funded through the STP-Bridge Program.

BENCHMARK

Chiseled cross on the Northeast wingwall of S.N. 045-3320. Elev. 695.67

EXISTING STRUCTURE

S.N. 045-3320 was constructed in 1981 under Section 80-04101-00-BR. The existing bridge consists of a single span precast concrete deck beam superstructure with 5" of bituminous overlay supported on spill through concrete pile bent abutments. The bridge measures 55'-4 1/2" back to back abutments and 27'-0" out to out of bridge deck. Traffic is to be detoured.

SALVAGE

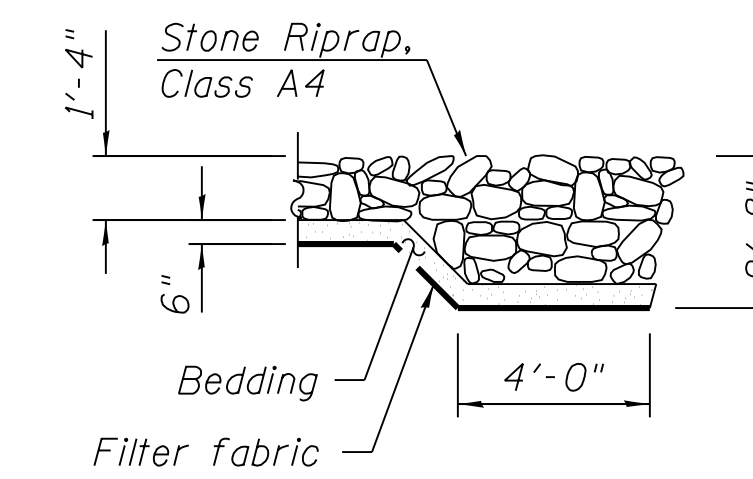
Existing guardrail and bridge rail to be salvaged. Contractor to deliver guardrail per Engineer's instructions.

WATERWAY INFORMATION

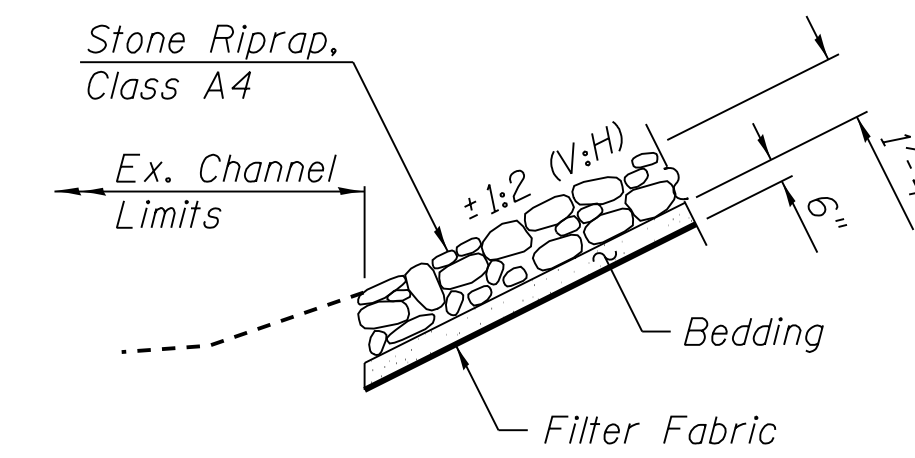
Drainage Area = 2.9 sq. mi. Exist. Low Grade Elev. 696.13 @ Sta. 101+00
 Prop. Low Grade Elev. 696.26 @ Sta. 100+96

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	324	131	131	692.52	0.41	0.41	692.93	692.93
Base	20	375	138	138	692.73	0.44	0.44	693.17	693.17
Overtopping	100	589	173	173	693.40	0.51	0.51	693.91	693.91
Max. Calc.	500	1115	230	230	694.43	0.44	0.44	694.87	694.87

10-Year Velocity through Existing Bridge = 3.9 ft/s
 10-Year Velocity through Proposed Bridge = 3.9 ft/s



SECTION B-B



SECTION A-A

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interim Revisions

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

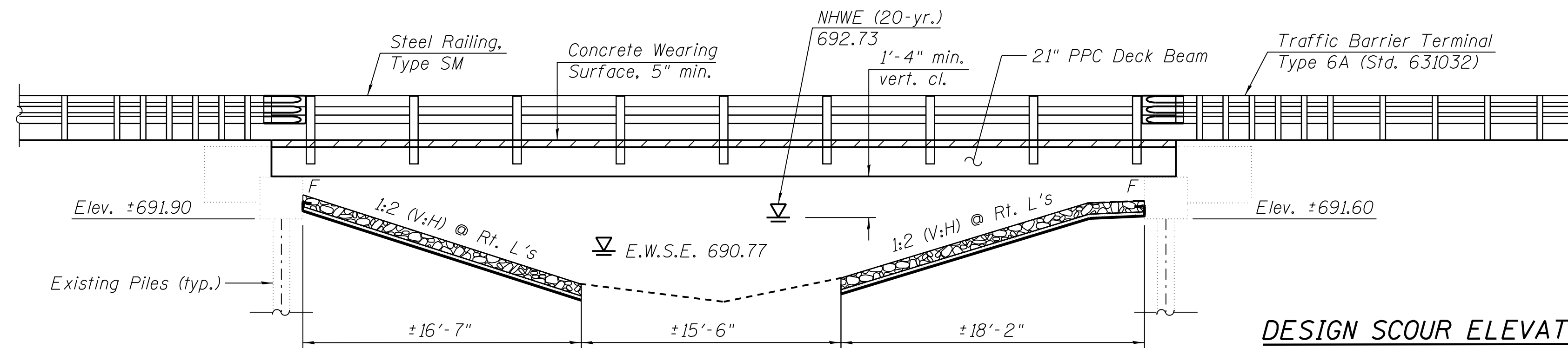
f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 f'c = 5,000 psi (Concrete Wearing Surface)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2" low lax. Strands)
 fpbt = 201,960 psi (1/2" low lax. Strands)

SEISMIC DATA

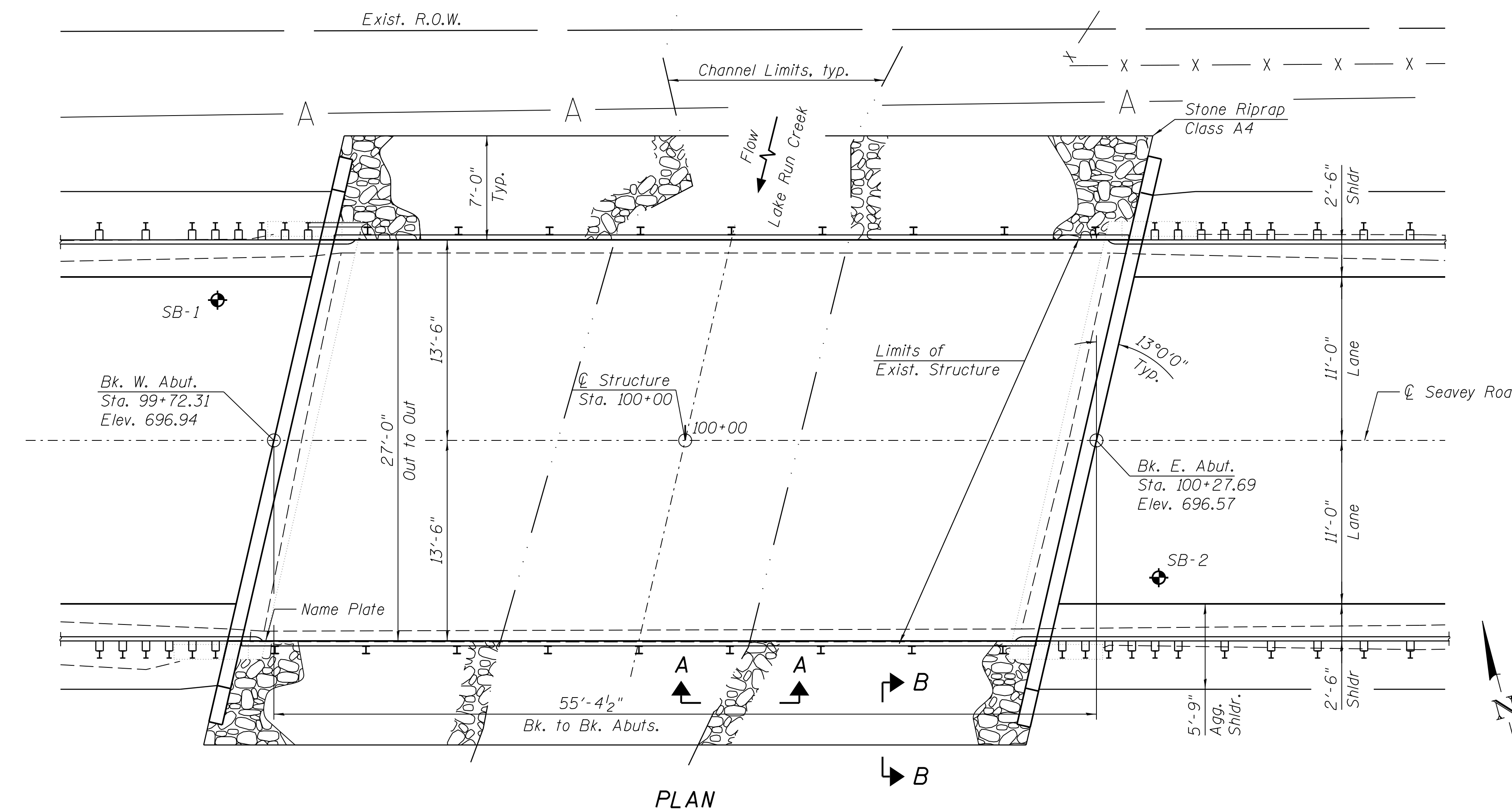
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.063g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.122g
 Soil Site Class = C



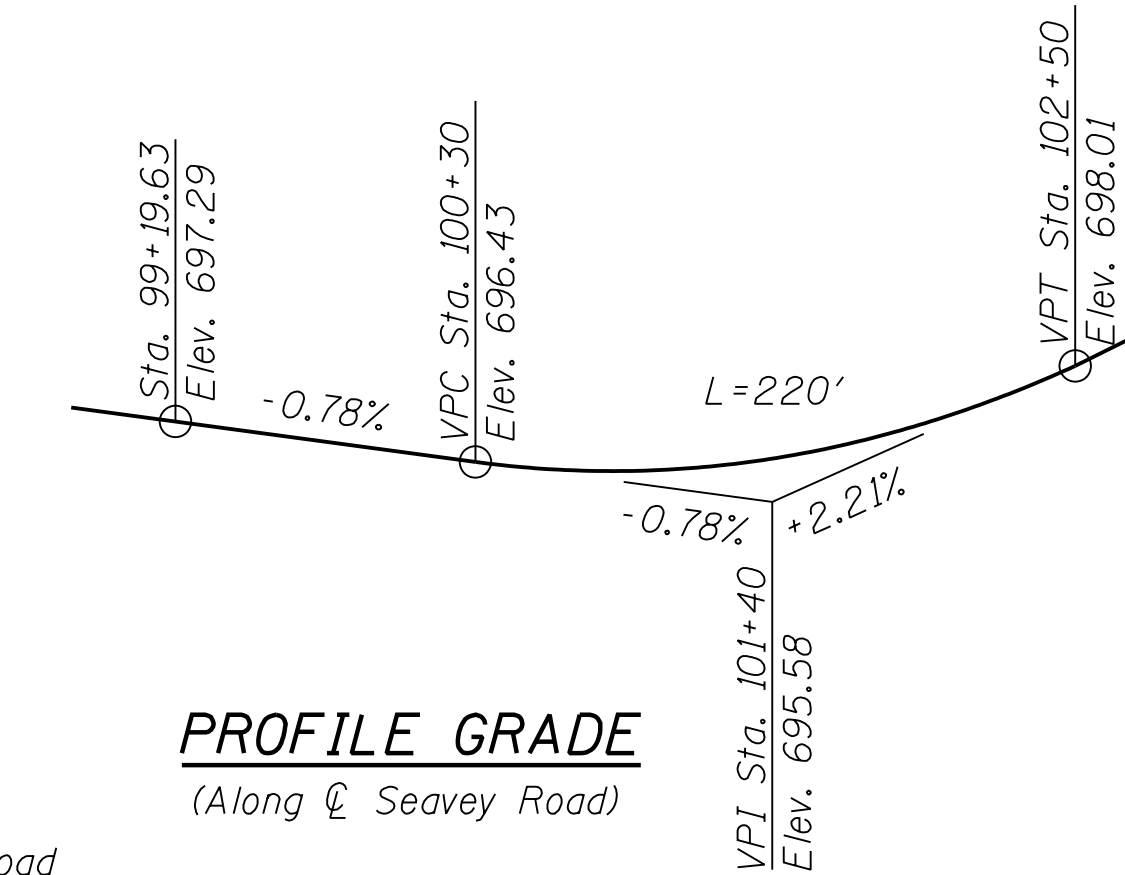
ELEVATION

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut. 691.90	E. Abut. 691.60



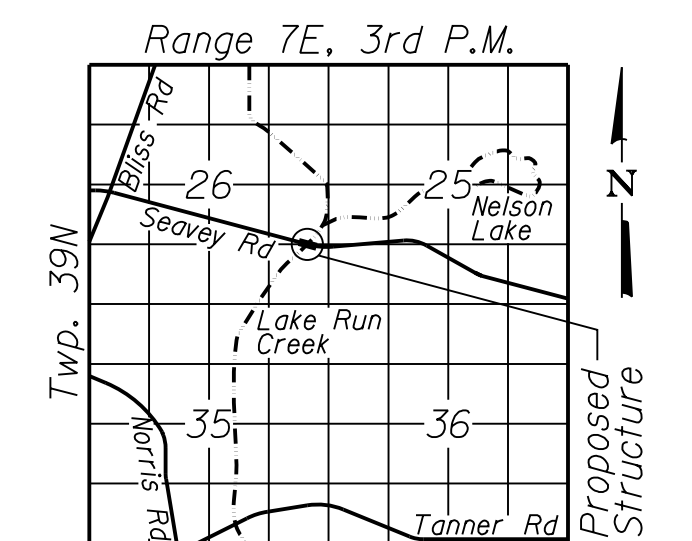
PLAN



PROFILE GRADE
 (Along Seavey Road)

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes & Bill of Material
3. Superstructure
4. Superstructure Details
5. Steel Railing, Type SM
6. 21" x 36" PPC Deck Beams
7. 21" x 36" PPC Deck Beam Details
8. Abutment Modifications
- 9-10. Soil Boring Logs
- 11-15. Existing Structural Plans



LOCATION SKETCH

GENERAL PLAN & ELEVATION
SEAVEY ROAD OVER LAKE RUN CREEK
SEC. 12-04101-01-BR
BLACKBERRY TWP. ROAD DISTRICT
STATION 100+00
STRUCTURE NO. 045-3320

FILE NAME = W:\Projects\2014\110263 SeaveyRd\PH\1\Lead\Structure.dgn\0453320-001-GP&E.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = bpattorff	DESIGNED - DLS	REVISED -
PLOT SCALE = #SCALE#	DRAWN - DLS	REVISED -
PLOT DATE = 9/30/2015	CHECKED - AEU	REVISED -
	DATE - 10/01/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

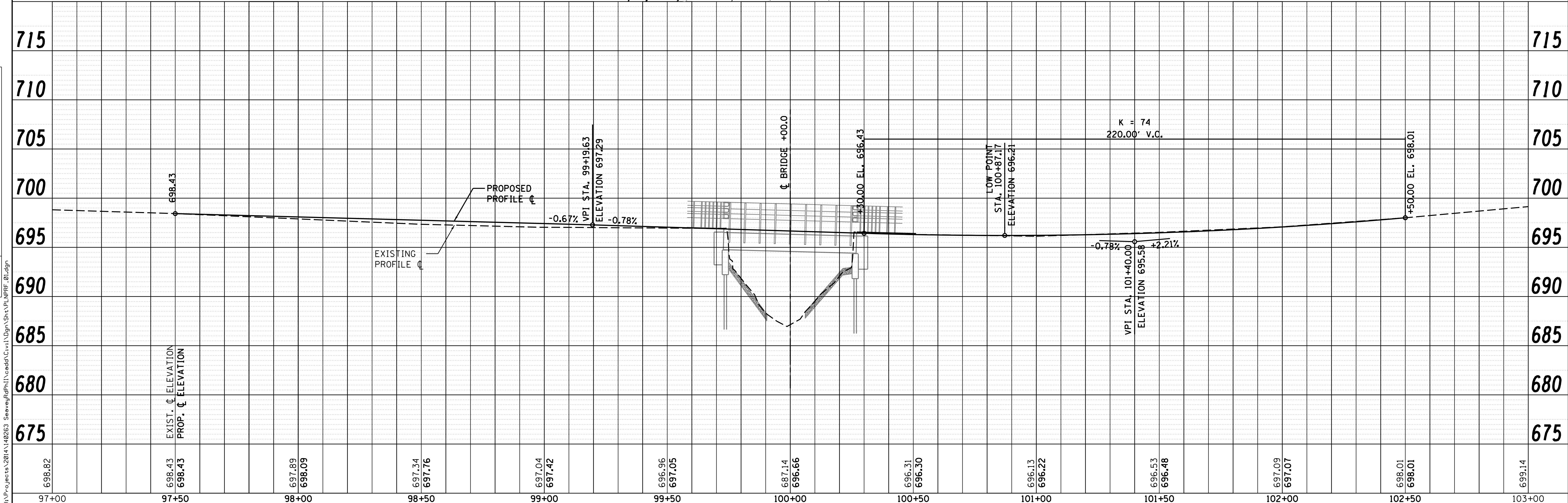
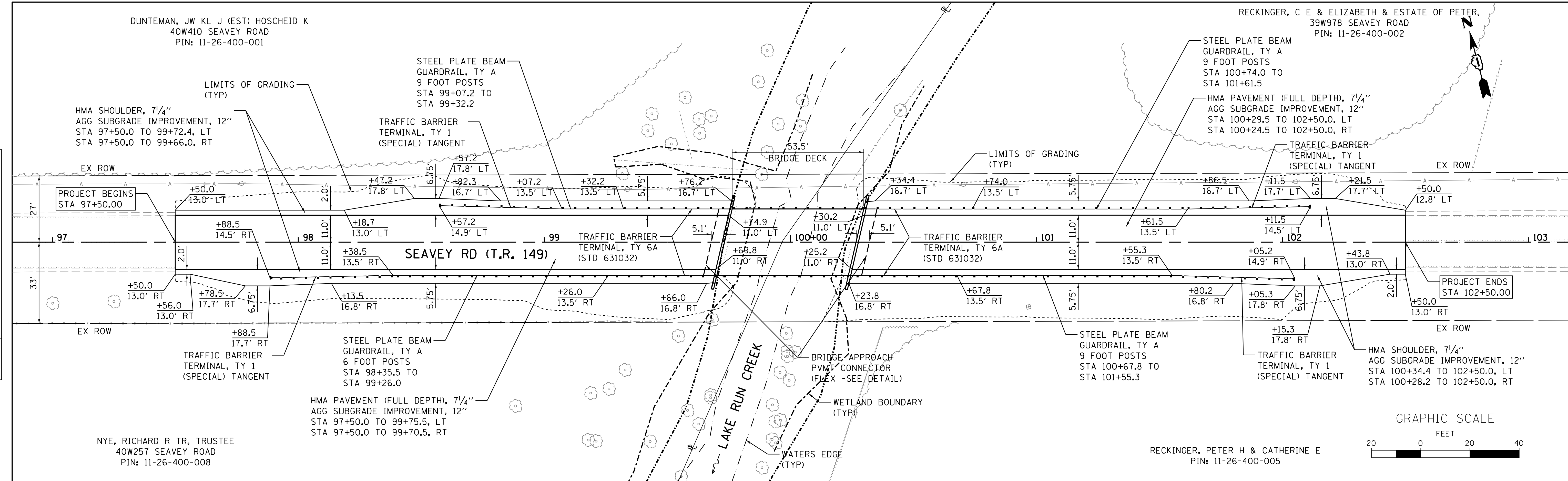
GENERAL PLAN & ELEVATION
STRUCTURE NO. 045-3320

SHEET NO. 1 OF 15 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
149	12-04101-01-BR	KANE	49	25
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	SURVEYED
	NOTED
	CHECKED
	ALIGNED
	FILED
	NO.
	NO.
	NO.
	NO.

DATE	
BY	
PROFILE	SURVEYED
	NOTED
	CHECKED
	GRADES
	STRUCTURE
	NOTATIONS
	CHKD
	NO.
	NO.
	NO.



<p>WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174</p>	USER NAME = bpottorff	DESIGNED - SBP	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">PLAN & PROFILE</p>			T.R. 149	SECTION 12-04101-01-BR	COUNTY KANE	TOTAL SHEETS 49	SHEET NO. 14
	PLOT SCALE = 1:20	CHECKED - DPB/SBP	REVISED -		SCALE: 1"=20'	SHEET NO. 1	OF 1 SHEETS	STA. 97+50.00	TO STA. 102+50.00	<p align="center">CONTRACT NO.</p>		
	PLOT DATE = 9/30/2015	DATE - 9/15/2015	REVISED -						<p align="center">ILLINOIS FED. AID PROJECT</p>			