

MODEL: J:\MODEL\NAMES
FILE NAME: SF1E13

VK VEENSTRA & KIMM INC.
Springfield, IL Phone: (217)544-8033
IL Design Firm No. 184-001939

USER NAME = SUSERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = SSCALES	DRAWN - _____	REVISED - _____
PLOT DATE = SDATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

1 REVISED SHEET 6/6/2023

SIGNATURE SHEET

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	2
CONTRACT NO. 78945				
ILLINOIS FED. AID PROJECT				

PREPARED BY: Charles Stein
DISTRICT STUDIES AND PLANS ENGINEER

EXAMINED BY: _____
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: [Signature]
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: Dayle J. [Signature]
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: Dayle J. [Signature]
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Aunt Darys
DISTRICT MATERIALS ENGINEER

1

Bench Mark: BM 4-A - Chiseled "□" on South End of Concrete Guardwall, south of East Pier, East of northbound I-57, of Structure 100-0044. Station 15+14.50, 42.25' Rt. Elev. - 503.256

Existing Structure: SN 100-0044 was constructed in 1959 under Section X1-7HB at Sta. 14+46.66. The existing structure is a 4-span, haunched reinforced concrete deck girder bridge having a back-to-back abutment length of 241'-9" and a 26'-0" face-to-face of curb and 31'-8" out-to-out of deck at a 12°52'45" left forward skew. The superstructure consists of a reinforced concrete slab supported by five haunched concrete T-beams. The substructure consists of reinforced concrete pile bent abutments supported by concrete piles and multi-column piers on reinforced concrete spread footings supported by timber piles. The structure will be replaced under road closure, traffic will be detoured.

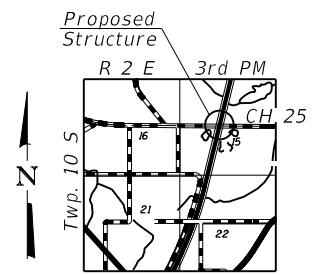
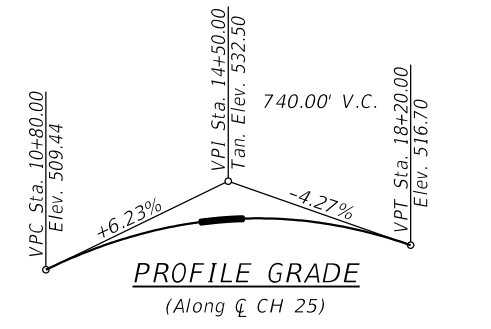
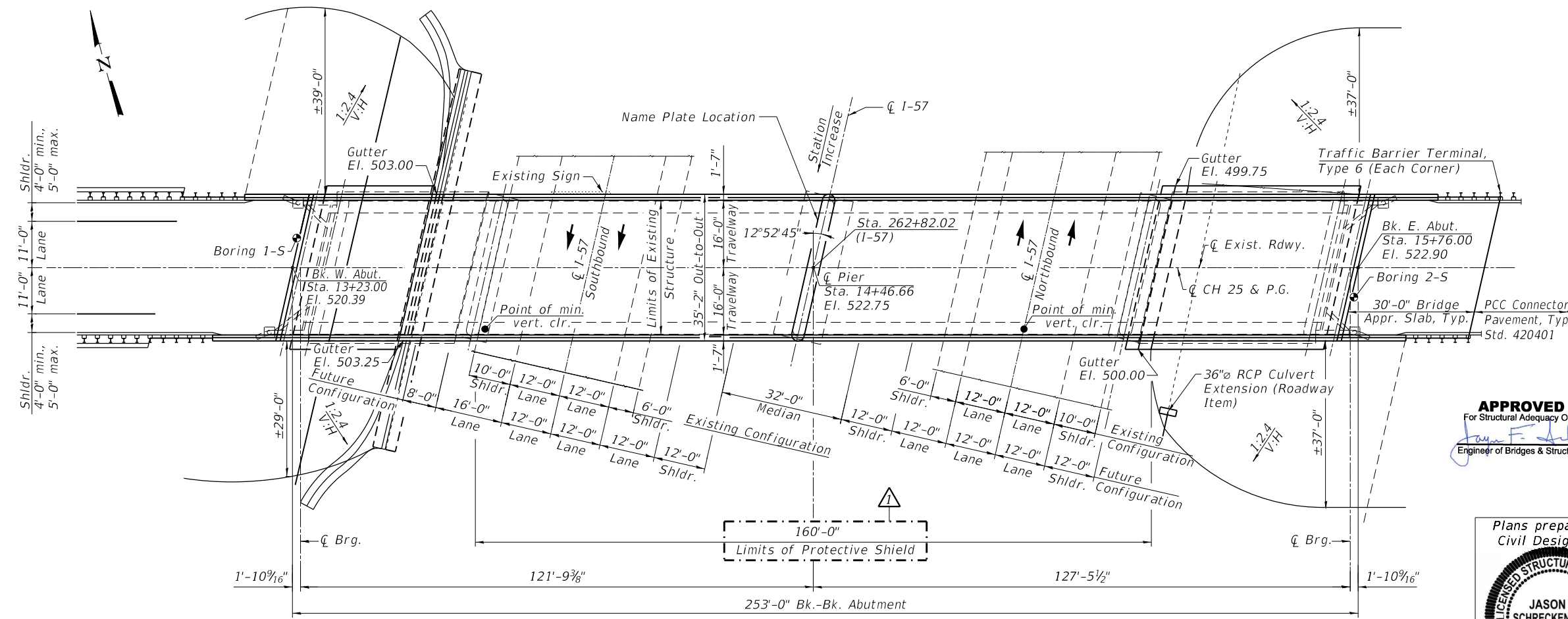
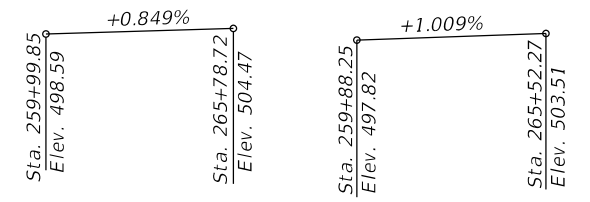
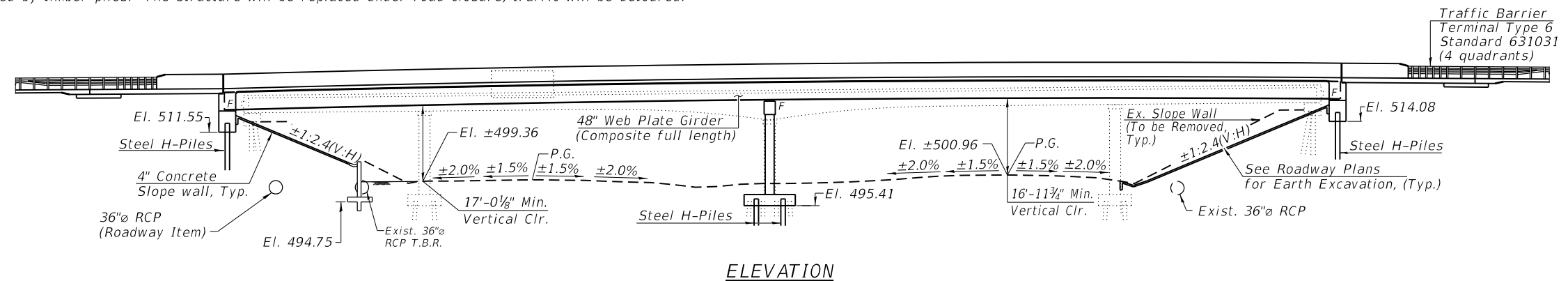
No salvage.

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f'_c = 4,000$ psi (Superstructure Concrete)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.297 g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.810 g
 Soil Site Class = C



APPROVED
 For Structural Adequacy Only
 Jason G. Schreckenberg
 Engineer of Bridges & Structures

Plans prepared by
 Civil Design, Inc.
JASON G. SCHRECKENBERG
 LICENSED STRUCTURAL ENGINEER
 081.006845
 STATE OF ILLINOIS
 Date: 05/09/2023
 Expiration: 11/30/2024

GENERAL PLAN & ELEVATION
FAS 1900/CH 25 (GRASSY ROAD)
OVER INTERSTATE 57
SECTION (X1-7-1)B-2
WILLIAMSON COUNTY
STATION 14+46.66
STRUCTURE NO. 100-0105

REVISED 5-30-2023 REV. - TJZ

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 100-0105
 SHEET 1 OF 32 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1900	(X1-7-1)B-2	WILLIAMSON	98	37
CONTRACT NO. 78945			ILLINOIS FED. AID PROJECT	

MODEL: 1_GPE
 FILE NAME: X:\55XX\54XX-55XX\5574 - PTB 203-048 DS Veenstra Kimmi\WO 1124-Structures\CAD\Bridges\1_GPE Model.dgn
 5/31/2023 9:23:28 AM



USER NAME =	DESIGNED - RBT	REVISIONS -
PLOT SCALE =	CHECKED - JS	REVISIONS -
PLOT DATE =	DRAWN - RBT	REVISIONS -
	CHECKED - KAS	REVISIONS -

