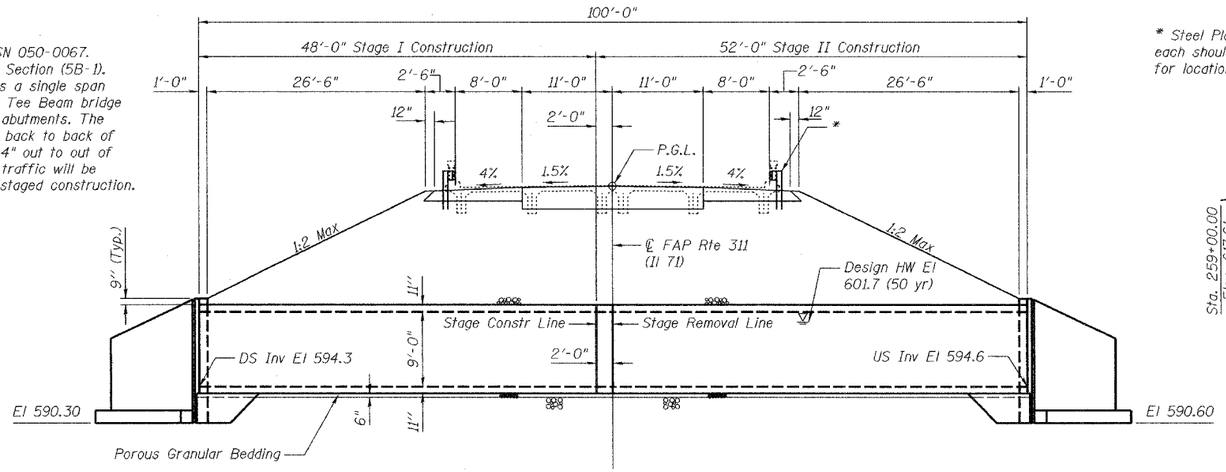
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 311 (IL 71)	5BR-1	LASALLE	32	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
8 SHEETS

Contract #66449

Existing Structure: SN 050-0067. Built in 1942 under Section (5B-1). Existing structure is a single span reinforced concrete Tee Beam bridge on closed concrete abutments. The structure is 38'-0" back to back of abutments and 40'-4" out to out of deck. One lane of traffic will be maintained utilizing staged construction.

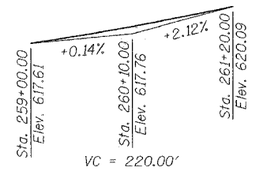
No Salvage.



LONGITUDINAL SECTION

(Looking North)

* Steel Plate Beam Guardrail Typ each shoulder. See Roadway Plans for location and quantities.

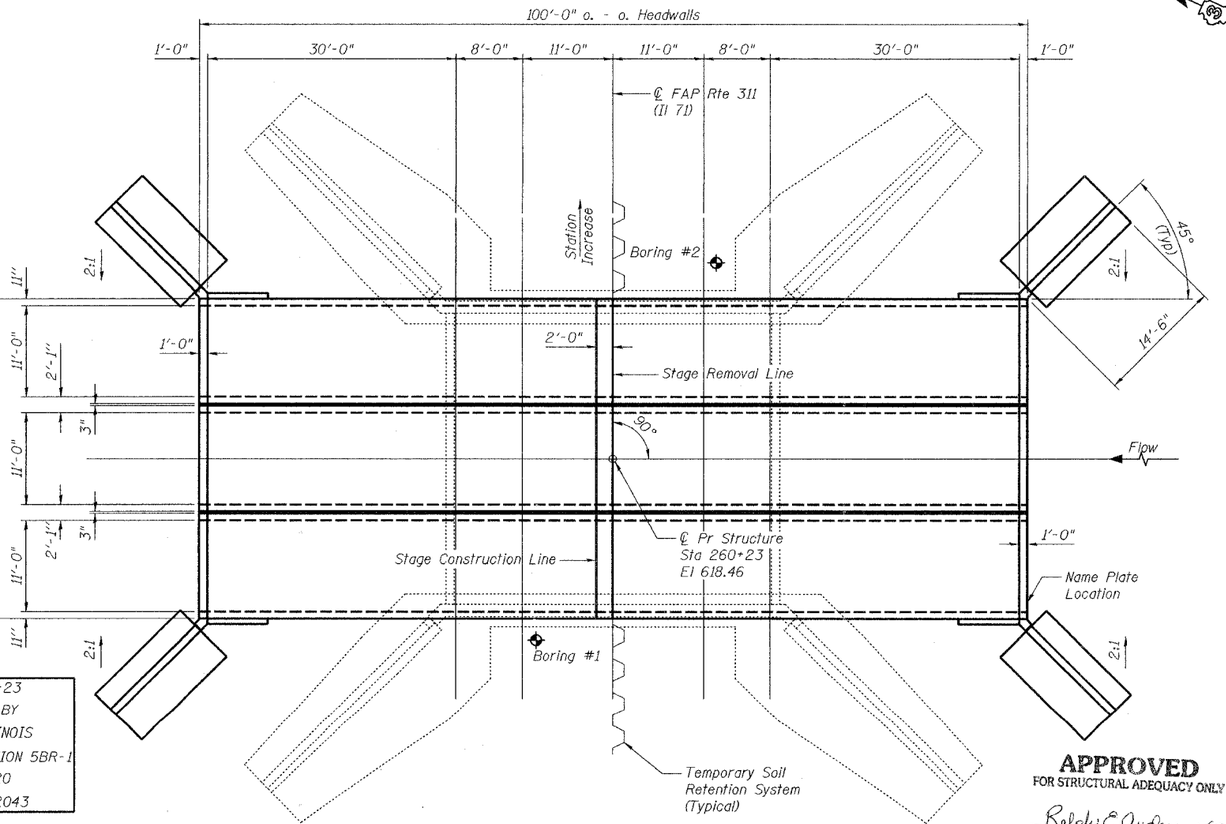


PROFILE GRADE

℄ Roadway

GENERAL NOTES

1.) Layout Of Riprap May Be Varied In The Field To Suit Ground Conditions As Directed By The Engineer.
2.) Cast-In-Place Concrete Exposed Edges Shall Be Beveled $\frac{3}{4}$ in.
3.) Class SI Copncrete Shall Be Used Throughout.
4.) Reinforcement Bars Shall Conform To The Requirements of AASHTO M31, or M322, Grade 60.
5.) Reinforcement Bars Designated (E) Shall Be Epoxy Coated.
6.) Bars Indicated Thus, 4x2-#5 Etc., Indicates 4 Lines Of Bars With 2 Lengths Per Line.
7.) It Shall Be The Responsibility Of The Contractor To Divert The Stream Flow During Construction In Order To Keep The Construction Area Free Of Water. The Method Of Water Diversion Shall Be Subject To The Approval Of The Engineer And The Cost Shall Be Included With The Cost of "Concrete Box Culverts"
8.) See Sheets 7 & 8 For Boring Data.
9.) Excavation Behind Existing Abutment Walls Shall Be Done Before Removing The Existing Superstructure. The Contractor Shall Sawcut The Existing Abutment Walls At The Stage Removal Line Before Stage I Removal.
10.) Structural Seal Is For Cast-In-Place Portion Of Structure Only.
11.) Precast Concrete Box Culvert Sections Shall Conform To The Requirements Of Article 540.06 Of The Standard Specifications And The Applicable Requirements Of AASHTO M 259.
12.) For Backfilling And Embankment, See Standard Specifications
13.) Outside End of Precast Sections Shall Not Have A Bell Or Spigot.
14.) The End Sections and Wingwalls Shall Be Cast-In-Place.
15.) Lifting Holes Shall Be Filled With Concrete Plugs And Mastic After Box Sections Are In Place.
16.) For Riprap Layout and Quantities See Roadway Plans.



Plan

STATION 260+23
BUILT 20__ BY
STATE OF ILLINOIS
FAP ROUTE 311 SECTION 5BR-1
LOADING HS20
STR. NO. 050-2043

NAME PLATE

See Std. 515001

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST UNITS
f'_c = 5,000 psi
f_y = 65,000 psi (Welded Wire Fabric)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (JJD)
ENGINEER OF BRIDGES AND STRUCTURES

LICENSED STRUCTURAL ENGINEER
MARY COOMBE
BLOXDORF
4859
SPRINGFIELD
STATE OF ILLINOIS

Illinois Structural No. 4859
Expires 11-30-2006
Date: 4/12/06

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Temporary Soil Retention System	Sq Ft	838
Concrete Box Culverts	Cu Yd	66.4
Reinforcement Bars, Epoxy Coated	Pound	1360
Reinforcement Bars	Pound	3580
Name Plates	Each	1
Precast Concrete Box Culvert 11' x 9'	Foot	300
Geotextile Retaining Wall	Sq Ft	578

WATERWAY INFORMATION

Drainage Area = 3.0 mi^2 Low Grade Elev. 617.35 @ Sta. 257+00

Flood	Freq. Yr.	Q ft^3/s	Opening-ft^2 Exist.	Opening-ft^2 Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	461	158	208	600.9	0.0	0.0	600.9	600.9
Design	50	712	186	234	601.7	0.0	0.0	601.7	601.7
Base	100	816	196	244	602.0	0.0	0.0	602.0	602.0
Overtopping		-	-	-	-	-	-	-	-
Max. Calc.	500	1062	210	257	602.4	0.0	0.0	602.4	602.4

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
GENERAL PLAN AND ELEVATION

PROJECT
IL ROUTE 71 OVER UNNAMED STREAM
FAP ROUTE 311 SECTION 5BR-1
LASALLE COUNTY
STATION 260+23
STRUCTURE NUMBER 050-2043

PROJECT NO. 05025-2
SCALE
DATE 01/13/06
DRAWN BY TFG/CFC
CHECKED BY KPS/MCB
DRAWING NO. 1 OF 8 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

FILE NAME = ...\general-plan-elevation.dgn
PLOT SCALE = 0.0000 '/' / IN.
USER NAME = CFC.