Bench Mark: RR spike in second power pole south of existing structure. Station 1017+81.31' right. Elevation 644.56

Existing Structure: S.N. 055-0024 The original date of construction is unknown. The structure was extended in 1924 as Route S.B.I. 9. The existing structure is a single span reinforced concrete slab bridge supported on closed reinforced concrete abutments on timber piles. The back to back abutment length is 20'-0" and the out to out bridge width is 34'-0". Structure to be removed and replaced. Traffic to be detoured.

No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

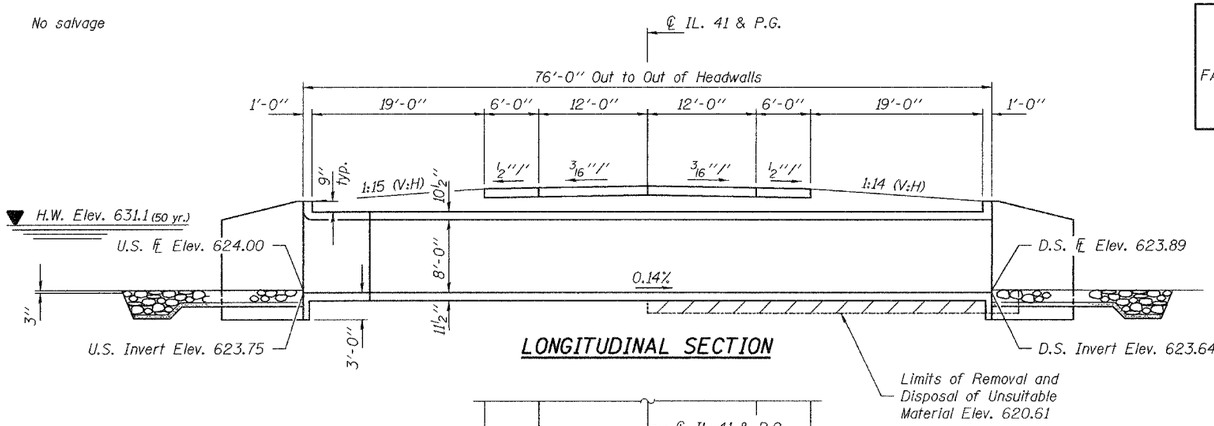
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 618	33(EXT) BR	McDONOUGH	63	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
7 SHEETS

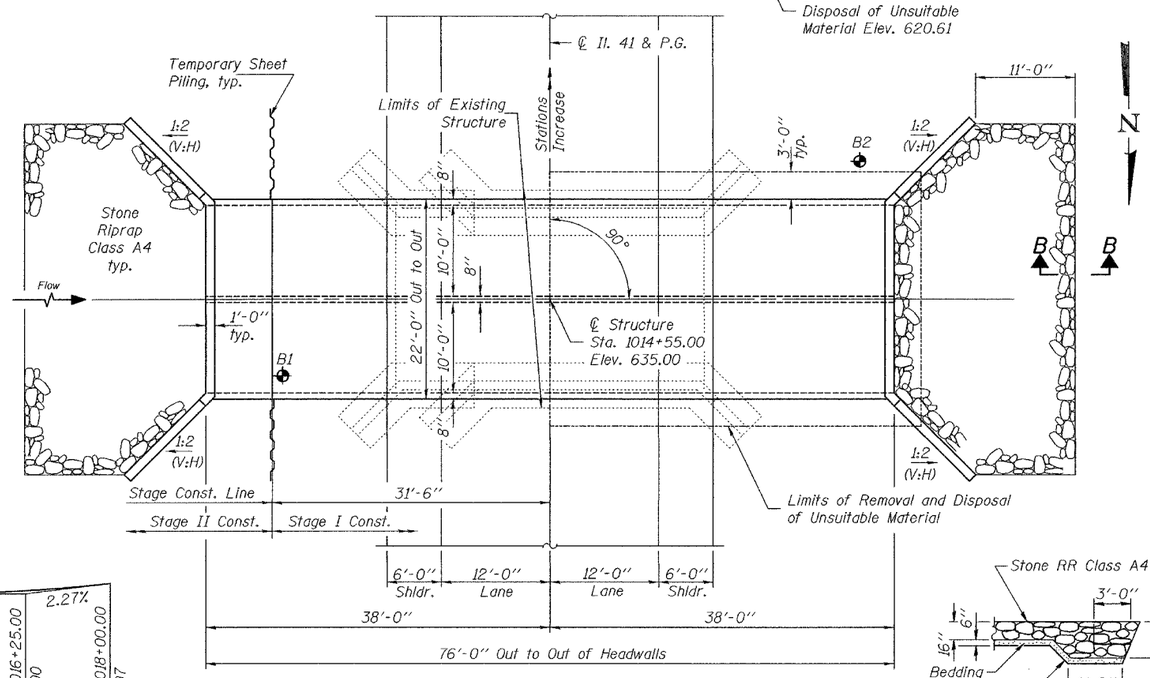
Contract No. 68266

STATION 1014+55.00
BUILT 20 BY
STATE OF ILLINOIS
FAP ROUTE 618 - SECTION 33(EXT)BR
LOADING HS20
STR. NO. 055-2005

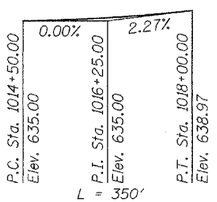
NAME PLATE
See Std. 515001



LONGITUDINAL SECTION

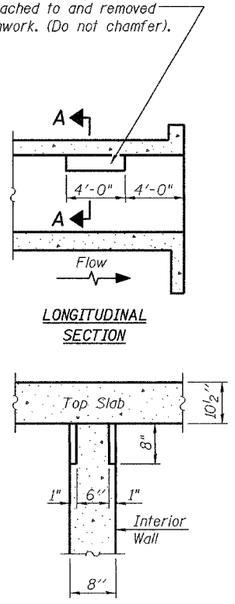


PLAN



PROFILE GRADE
(along ℄ roadway)

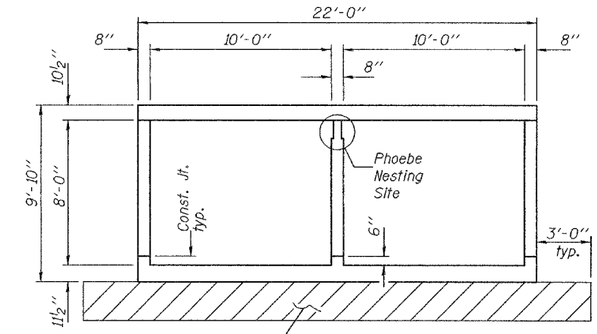
SECTION B-B



LONGITUDINAL SECTION

SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)



Hatched area indicates unsuitable material to be removed and replaced with rock fill capped with 6" layer CA-7. See General Notes.

SECTION THRU BARRELS

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

All construction joints shall be bonded.

Precast alternate is not allowed.

A distance of half the length of the wingwall but not less than 6 ft. of the barrel shall be poured monolithically with the wingwalls.

Excavation behind existing abutment walls shall be done before removing the existing superstructure.

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

The Rock Fill shall be capped with 6" of CA-7 and satisfy the standard specifications unless otherwise indicated in the special provisions. The cost of the capping material shall be included in the payitem for "Rock Fill".

INDEX

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Concrete Box Culverts	Cu. Yd.	186.5
Rock Fill	Cu. Yd.	88
Name Plates	Each	1
Reinforcement Bars	Pound	30,480
Stone Riprap, Class A4	Sq. Yd.	156
Filter Fabric for Use with Riprap	Sq. Yd.	156
Removal and Disposal of Unsuitable Material	Cu. Yd.	88
Temporary Sheet Piling	Sq. Ft.	657
Bar Splicers	Each	121

WATERWAY INFORMATION

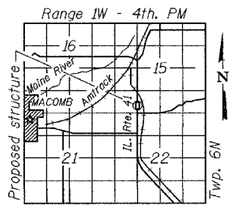
(E) Low Grade Elev. 630.36 @ Sta. 1013+50
Drainage Area = 3.82 sq. mi. (P) Low Grade Elev. 635.00 @ Sta. 1013+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	683	70	132	630.6	0.8	0.2	631.4	630.8
Design	50	1086	70	142	631.1	0.7	0.5	631.8	631.6
Base	100	1260	70	147	631.4	0.7	0.8	632.1	632.2
Overtopping	<5	425	70	-	629.8	0.6	-	630.4	-
Max. Calc.	500	1685	-	158	631.9	-	1.9	-	633.8

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)



LOCATION SKETCH

DESIGNED	Stephen M. Ryan
CHECKED	Mark Bierstedt
DRAWN	BECKY M. CURRY
CHECKED	SMR/MB/SEM

September 10, 2004
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Gary L. Adams
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS RALPH E. ANDERSON 081-004625 SPRINGFIELD LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2004

GENERAL PLAN
ILLINOIS ROUTE 41 OVER BRANCH OF KEPPLE CREEK
F.A.P. ROUTE 618 - SECTION 33(EXT)BR
McDONOUGH COUNTY
STATION 1014+55.00
STRUCTURE NO. 055-2005