

6. ALL EMBEDDED AND SEPARATE BEARING PLATES, SIDE RETAINERS, ANCHOR BOLTS, NUTS, WASHERS, AND PINTLES SHALL BE GALVANIZED ACCORDING TO AASHTO M111 OR M232 (AS APPLICABLE).

7. THE PRECORED HOLES FOR PILES, FROM 6 INCHES ABOVE THE TOP OF BEDROCK TO THE BOTTOM OF THE ABUTMENTS, SHALL BE FILLED WITH DRY LOOSE POROUS GRANULAR EMBANKMENT MATERIAL MEETING THE REQUIREMENTS OF FA-1 OR FA-2 GRADATION.

ASP

WSP

ВЕМ

DESIGNED

CHECKED

DRAWN

CHECKED

V.C. 320.00' V.C. 320.00' +2.22% +0.33%

PROFILE GRADE

(ALONG & ROADWAY)

<u>STREAMBED</u>

ELEV.

APPROVED FOR STRUCTURAL ADEQUACY ONLY

CLASS A4

SECTION B-B

3'-0"

Raph E andrew (TID)

- FILTER FABRIC

TOTAL SHEETS SHEET NO. SHEET NO. $\it 1$ F.A.P. 17 101BR - 4 OGLE60 18 sheets *19* FED. ROAD DIST. NO. 2 ILLINOIS FED. ALC PROJECT

Contract # 64D11

STATION 124+91.00 BUILT STATE OF ILLINOIS F.A.P. RT. 17 SECTION 101BR-4 LOADING HL-93 STRUCTURE NO. 071-0095

NAME PLATE

INDEX OF SHEETS

INDEX OF CHEETS
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BORING LOGS

DLZ ILLINOIS, INC. ARLINGTON HEIGHTS, ILLINOIS Peter B. Sombrond Signed : Date: Oct. 24/4, 2008 Expiration Date: 11/30/08



BILL OF MATERIALS

4'-0'

SECTION A-A

REDDING

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	0	750	750
STONE RIP RAP, CLASS A4	SQ YD	0	1,490	1,490
FILTER FABRIC	SQ YD	0	1,490	1,490
REMOVAL OF EXISTING STRUCTURES NO.I	EACH	1	0	1
STRUCTURE EXCAVATION	CU YD	0	260	260
CONCRETE STRUCTURES	CU YD	0	44.3	44.3
CONCRETE SUPERSTRUCTURE	CU YD	167.9	0	167.9
BRIDGE DECK GROOVING	SQ YD	344	0	344
CONCRETE ENCASEMENT	CU YD	0	6.6	6.6
PROTECTIVE COAT	SQ YD	464	0	464
FURNISHING AND ERECTING ECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	608	0	608
NFORCEMENT BARS, EPOXY COATED	POUND	27,904	5,989	33,893
BAR SPLICERS	EACH	62	0	62
RNISHING STEEL PILES HP 14 x 73	FOOT	0	259	259
NAME PLATES	EACH	/	0	1
GEOCOMPOSITE WALL DRAIN	SQ YD	0	120	120
PIPE UNDERDRAINS FOR STRUCTURES 4"	F00T	0	//5	//5
SBESTOS BEARING PAD REMOVAL	EACH	44	0	44
BREAKER RUN CRUSHED STONE	TON	0	1.220	1,220
SETTING PILES IN ROCK	EACH	0	14	14
POROUS GRANULAR EMBANKMENT,SPECIAL	CU YD	0	240	240

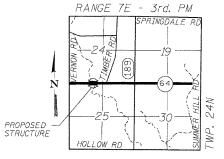
EACH

0

EXIST. LOW GRADE ELEV. 793.2 © STA. 151+75.4 AINAGE AREA = 13.1 SQ. MI. PROP. LOW GRADE ELEV. 793.4 © STA. 151+00												
L00D			OPENING SQ. FT.		NAT.	HEAD - FT.		HEADWATER EL.				
	YR.	C.F.S.	EXIST.	PROP.	H.W.E.	Exist.	Prop.	Exist.	Prop.			
EN-YEAR	10	1607	417	426	781.2	0.3	0.2	781.5	781.4			
ESIGN	50	2579	457	475	781.9	0.8	0.5	782.7	782.4			
4 <i>SE</i>	100	3018	471	493	782.2	1.0	0.7	783.2	782.9			
AX. CALC.	500	4110	502	536	782.7	1.6	1.1	784.3	783.8			
YEAR VELOCITY THROUGH EVICTING CTRUCTURE - 70 F-												

WATERWAY INFORMATION

10-YEAR VELOCITY THROUGH EXISTING STRUCTURE = 3.9 fps 10-YEAR VELOCITY THROUGH PROPOSED STRUCTURE = 3.8 fps



LOCATION SKETCH

DESIGN SCOUR ELEVATION TABLE

DESIGN SCOUR W. ABUT. E. ABUT. ELEVATION (FT.) 780,69 783,06

DESIGN SPECIFICATIONS

2007 AASHTO LRFD SPECIFICATIONS, 4TH EDITION, WITH INTERIMS.

LOADING HL-93

ALLOW 50#/sq. ft. FOR FUTURE WEARING SURFACE.

GENERAL PLAN AND ELEVATION IL 64 OVER FIVE MILE CREEK F.A.P. RT. 17 SECTION 101BR-4 OGLE COUNTY STATION 124+91.00

STRUCTURE NO. 071-0095



DLZ B5 W. Algonquin Rd. Ste. 220
Arlington Heights II 60005

SEISMIC PERFORMANCE ZONE (SPZ)=1 BEDROCK ACCELERATION COEFFICIENT (A) = 0.03g SITE COEFFICIENT (S) = 1.0

DESIGN STRESSES

FIELD UNITS
= 3,500 psi

fy = 60,000 psi (REINFORCEMENT) PRECAST PRESTRESSED UNITS