00115-18

Contract 63601
sheet 56

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2651 76-00046-00-CS	DUPAGE	36	18
STA. TO STA.			
FED. ROAD DIST. NO.	STATE ILLINOIS	ILLINOIS FED. AID PROJECT	STMG-5003(100)

A 3/4" CHAMFER SHALL BE FORMED ALONG THE TOP EDGES OF ALL WINGWALLS

1"ϕ ANCHOR BOLTS COST TO BE INCIDENTAL TO BRIDGE STRUCTURE

BONDED CONST. JOINT W/ 3/4" NOTCH ON OUTSIDE FACE

CONST. JOINT

NORTH & SOUTH ABUT. EL. + 710.53

WING WALL - ELEVATION

VIEW C-C

GALVANIZED LOCKNUT & WASHER

NUT

RDWY. FACE

1"ϕ ANCHOR BOLT

STREET LIGHT ANCHOR BOLTS 1"ϕ x 4' (SEE DETAILS SHEET #23)

2 - #5V1 E.F.

#5V1 SIDE

3 - #4S @ 12" CTS.

3 - #6U2 @ 12" CTS.

SECTION D-D

10 - #4V(E) @ 12" CTS. F.F.

10 - #4V2 @ 12" CTS. N.F.

10 - #4d(E) @ 12" CTS.

#4h2(E) E.F.

#4h13 E.F.

#4h8 N.F.

#4h7 TOP

10 - #4n @ 12" CTS.

9 - #4S1 @ 18" CTS.

WING WALL 1 & 4 - ELEVATION

REINFORCEMENT

HATCHED AREA TO BE POURED AFTER BEAMS ARE IN PLACE

BONDED CONST. JT. W/ 3/4" NOTCH

℄ BEARINGS

℄ BATTER 2" PER FT.

VARIES 0" TO 5 1/4" SEE ELEVATION

SEC. THRU ABUT.

5 - #5U1 @ 12" CTS.

53 - #5n1 @ 12" CTS.

50 - #5d1 @ 12" CTS.

3'-1 3/8" LEVEL

EL. 716.15 (N) 716.39 (S)

EL. + 719.47

EL. + 715.75

2 x 3 - #5n (EACH FACE)

HATCHED AREA TO BE POURED AFTER BEAMS ARE IN PLACE

EL. + 715.90

WW #2 & #3 EL. + 719.98

3"ϕ SLEEVE FOR STREET LIGHTING UNIT DUCT (SEE DETAILS SHEET #23)

EL. + 719.03

EL. 710.53

W.W. #1 & #4 EL. 719.83

EL. + 719.03

#4S2

3 - #6U2

3'-0" LAP

12" 4 - #4S2 @ 12" CTS. 12" TYP. BET'WEEN PILES

8 x 3 - #7h1 @ 12" CTS. SEE SEC. THRU ABUT.

ELEV. TOP OF PILES NORTH & SOUTH ABUT. EL. + 711.53

NOTE: BARS INDICATED THUS 20 x 3 - #5 EXT. INDICATE 20 LINES OF BARS WITH 3 LENGTH PER LINE.

ELEVATION

WW#3 WW#4 SOUTH ABUT. 72° NORTH ABUT. WW#1 WW#2

WINGWALL LOCATION

SECTION B-B

10'-0"

#4d(E)

#4V(E)

#4V2

#4h3

#4h3(E)

WING WALL 2 & 3 - ELEVATION

REINFORCEMENT

1 - #4h10 E.F.

1 - #4h8 E.F.

1 - #4h2 E.F.

1 - #4h1 N.F.

1 - #4h12 TOP

#4h2(E) E.F.

10 - #4d(E) @ 12" CTS.

10 - #4V2 @ 12" CTS. N.F.

10 - #4V(E) @ 12" CTS. F.F.

5 - #4h3 N.F.

5 - #4h3(E) F.F.

10 - #4n @ 12" CTS.

9 - #4S1 @ 18" CTS.

3 - #4h2 N.F. @ 12" CTS.

3 - #4h2 F.F. @ 12" CTS.

30'-11 5/8" 28'-11" 2'-11 7/8"

17°23' SKEW ℄

TANGENT LINE (℄ STRUCTURE)

STREET LIGHT BASE SEE SHEET #23 FOR ANCHORING & RACEWAY DETAILS

BACK OF ABUTMENT

BACK OF NORTH ABUT. STA. 6+40.02
BACK OF SOUTH ABUT. STA. 7+58.18

℄ EXP. BEARINGS

EXPANSION DETAIL SEE SHT #22

BEARING PADS (SEE DETAILS SHT #22)

6 BEARING SPACES @ 4'-2 19/64" = 25'-1 23/32"

34'-1 3/8"

65'-7 1/2"

NORTH ABUT. - TOP VIEW
SOUTH ABUT. - ROTATED 180°

32'-11 5/8" 29'-5 1/8"

17°23' SKEW ℄

TANGENT LINE (℄ STRUCTURE)

29'-10 3/8"

℄ VERTICAL PILES

℄ BATTER PILES

BACK OF ABUTMENT

12 PILE SPACES @ 5'-0" = 60'-0"

34'-1 3/8"

NORTH ABUT. PLAN - PILE CAP
SOUTH ABUT. - ROTATED 180°

BAR d

BAR S - S2

BAR n1, U, U1, n

BAR U, U1, U3, n, n1

BAR h4 - h5, h13

BAR h6 - h7, h12

BAR h8 - h12

BAR U2

BAR d1

BAR V2

BILL OF MATERIAL
NORTH & SOUTH ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
V(E)	40	#4	9'-6"	
V1	10	#5	5'-9"	
V2	40	#4	9'-6"	
h	24	#5	23'-0"	
h1	48	#7	23'-9"	
h2(E)	8	#4	9'-5"	
h3	20	#4	10'-0"	
h4	2	#4	10'-0"	
h5	6	#6	10'-0"	
h6	2	#4	13'-0"	
h7	8	#6	13'-0"	
h8	2	#4	9'-6"	
h9	6	#6	9'-6"	
h10	4	#4	10'-6"	
h11	2	#4	13'-9"	
h12	8	#6	13'-9"	
h13	4	#4	10'-6"	
h3(E)	20	#4	9'-8"	
n	40	#4	10'-0"	
n1	106	#5	6'-8"	
U	2	#6	7'-0"	
U1	20	#5	7'-8"	
U2	12	#6	16'-0"	
U3	6	#6	10'-0"	
S	6	#4	9'-1"	
S1	36	#4	9'-5"	
S2	100	#4	14'-9"	
d1	100	#5	4'-3"	
d(E)	40	#4	4'-8"	

CLASS X CONCRETE	CU. YDS.	106
REINFORCEMENT BARS	POUNDS	7,070
REINF. BARS (EPOXY COATED)	POUNDS	380

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED SEE SPECIAL PROVISIONS

NORTH ABUTMENT PILE DATA

	WINGWALL	ABUTMENT STRAIGHT	BATTER
TYPE	14" MTL. SHL.	14" MTL. SHL.	14" MTL. SHL.
CAPACITY	52 TON MIN.	52 TON MIN.	52 TON MIN.
EST. LENGTH	60 FT.	60 FT.	60 FT.
NO. REQUIRED	2	7 *	6

* INCLUDES 1 TEST PILE AT N. ABUTMENT

SOUTH ABUTMENT PILE DATA

	WINGWALL	ABUTMENT STRAIGHT	BATTER
TYPE:	14" MTL. SHL.	14" MTL. SHL.	14" MTL. SHL.
CAPACITY	52 TON MIN.	52 TON MIN.	52 TON MIN.
EST. LENGTH	50 FT.	50 FT.	50 FT.
NO. REQUIRED	2	7	6

REVISIONS	
NAME	DATE
D.C.N.	1-30-78
AS BUILT D.C.N.	10-9-80
Added	7-21-11

ILLINOIS DIVISION OF HIGHWAYS

ABUTMENT PLANS & DETAILS

ARDMORE AVENUE BRIDGE

SCALE: AS SHOWN

DRAWN BY: D.C.N.

DATE 12-28-77

CHECKED BY: G.A.S.

00115-18