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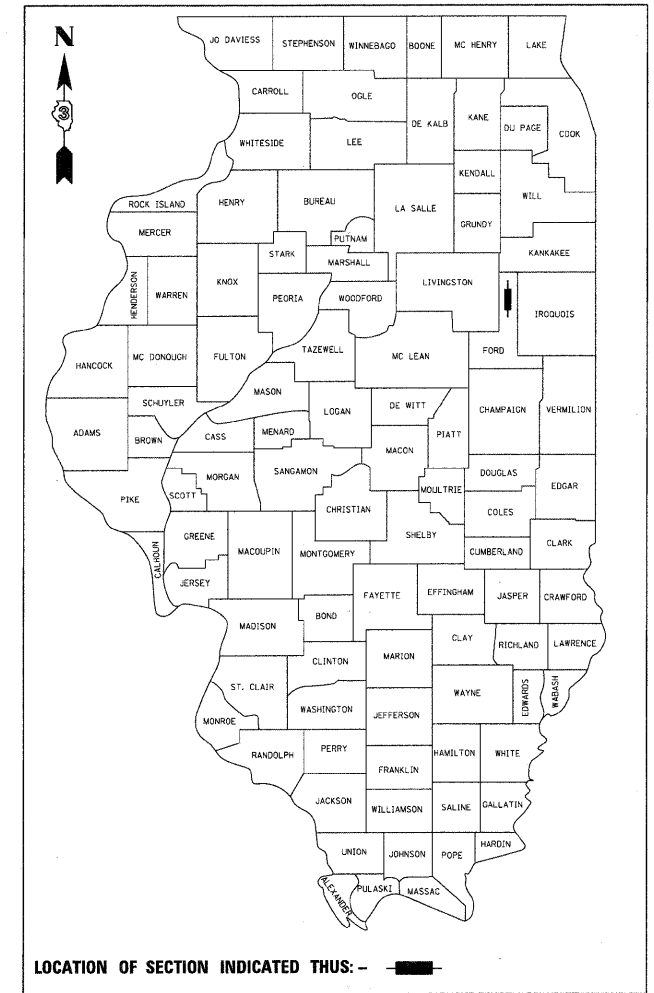
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 796 (IL 115)
SECTION (106) BR-3
PROJECT BRF-0796(016)
FORD COUNTY

C - 93 - 090 - 10
REPLACEMENT OF EXISTING BRIDGE

F.A.P. RTE. 796	SECTION (106) BR-3	COUNTY IROQUOIS	TOTAL SHEETS 48	SHEET NO. 1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 66916	

P-93-045-07
D-93-041-10



LOCATION OF SECTION INDICATED THUS: - ■ -

HIGHWAY CLASSIFICATION

ROUTE: FAP ROUTE 796 (IL 115)
 FUNCTIONAL CLASS: MINOR ARTERIAL (NON-URBAN)
 ADT: 550 (2009)
 PV = 83.7% SU = 3.6% MU = 12.7%

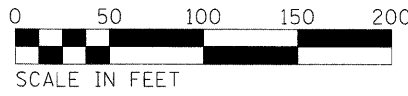
DESIGN SPEED: 55 MPH
 POSTED SPEED: 55 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 18 20 10
George F. Bryan
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 10 20 10
Scott E. Stitt, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

December 10 20 10
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

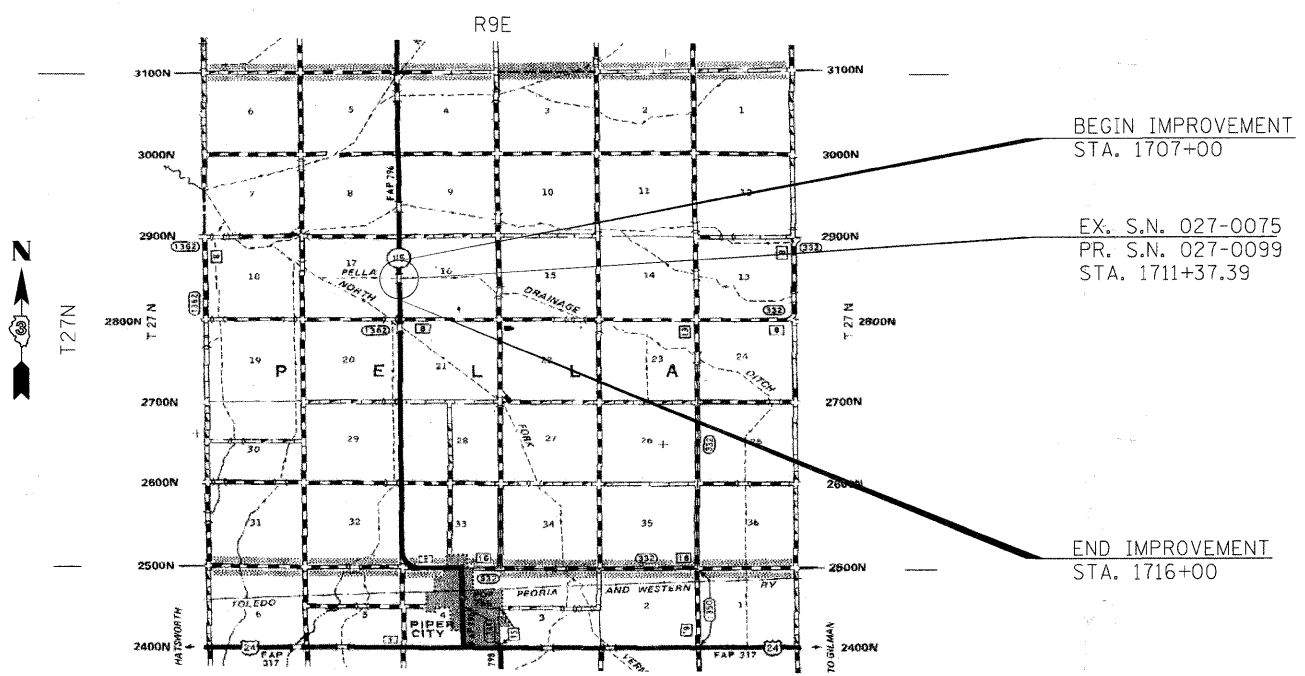


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS _____

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

DISTRICT 3 NO. (815) 434-6131
 PROJECT ENGINEER: JOE KANNEL, P.E.
 UNIT CHIEF: PATRICK BRABOY
 CONTRACT NO. 66916



LOCATION MAP
 NOT TO SCALE

GROSS LENGTH = 900 FT. = 0.17 MI.
 NET LENGTH = 900 FT. = 0.17 MI.



Robert Crispy 10/08/10
 Signature Date
 Expires November 30, 2011

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DATE: TIME: LOG: SPEC:

STANDARD DRAWINGS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-03 NAME PLATE FOR BRIDGES
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 630201-06 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-09 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001-01 DELINEATORS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24 9/32) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-11 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
- 701901-01 TRAFFIC CONTROL DEVICES
- 704001-06 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF SEEDING, CLASS 2.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT)	0.375	GAL / SQ YD
ON AGGREGATE BASES		
BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SQ YD
FOR ADDITIONAL HMA LIFTS		
"FOG COAT"	0.05	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: EASTERN ILLINOIS ELECTRIC COOPERATIVE AND FRONTIER COMMUNICATIONS.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

COMMITMENTS:

1. ENVIRONMENTAL COORDINATION
2. 404 PERMIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Don Banih
DISTRICT STUDIES & PLANS ENGINEER

DATE: 10/14/10

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

Wayne L. Phillips
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = SAW	DESIGNED - RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ZROKA engineering Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613	HIGHWAY STANDARDS AND PLAN NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...N0366916-SHT-Hwy Strds and Plan Notes.dgn	DRAWN - RAC	REVISED -	796				(106) BR-3	FORD	48	2	
PLOT SCALE = 50.0000' / IN.	CHECKED - DAZ	REVISED -	CONTRACT NO. 66916								
PLOT DATE = 10/6/2010	DATE - 10/08/10	REVISED -	ILLINOIS FED. AID PROJECT								
				SCALE: 1" = 50'		SHEET NO. 2 OF 48 SHEETS		STA. 1707+00 TO STA. 1716+00			

SUMMARY OF QUANTITIES

CODE NO.	CONSTRUCTION CODE TYPE:		TOTAL	0011
	ITEM	UNIT	QUANTITY	SN 027-0075 (EX) SN 027-0099 (PR)
20200100	EARTH EXCAVATION	CU YD	385	385
20400800	FURNISHED EXCAVATION	CU YD	1592	1592
* 25000200	SEEDING, CLASS 2	ACRE	0.8	0.8
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	73	73
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	73	73
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	73	73
* 25100115	MULCH, METHOD 2	ACRE	0.5	0.5
* 25100630	EROSION CONTROL BLANKET	SQ YD	1496	1496
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	82	82
28000400	PERIMETER EROSION BARRIER	FOOT	1520	1520
28100107	STONE RIPRAP, CLASS A4	SQ YD	910	910
28200200	FILTER FABRIC	SQ YD	910	910
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	571	571
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	136	136
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	438	438
40600300	AGGREGATE (PRIME COAT)	TON	7	7
40600525	LEVELING BINDER (HAND METHOD), IL-9.5FC N50	TON	1	1
40600625	LEVELING BINDER (MACHINE METHOD), IL-9.5FC N50	TON	21	21
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	320	320
40600990	TEMPORARY RAMP	SQ YD	600	600
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1236	1236
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	163	163
48101200	AGGREGATE SHOULDERS, TYPE B	TON	95	95
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	438	438
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	141	141
50300100	FLOOR DRAINS	EACH	8	8
50300225	CONCRETE STRUCTURES	CU YD	53.3	53.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	214.1	214.1
50300260	BRIDGE DECK GROOVING	SQ YD	436	436
50300280	CONCRETE ENCASEMENT	CU YD	4.0	4.0
50300300	PROTECTIVE COAT	SQ YD	541	541
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50500505	STUD SHEAR CONNECTORS	EACH	990	990
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57,680	57,680
50800515	BAR SPLICERS	EACH	579	579
51201600	FURNISHING STEEL PILES HP12x53	FOOT	236	236
51202305	DRIVING PILES	FOOT	236	236
51203600	TEST PILE STEEL HP12x53	EACH	1	1
51500100	NAME PLATES	EACH	1	1
52100520	ANCHOR BOLTS, 1"	EACH	24	24
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	84	84

SUMMARY OF QUANTITIES

CODE NO.	CONSTRUCTION CODE TYPE:		TOTAL	0011
	ITEM	UNIT	QUANTITY	SN 027-0075 (EX) SN 027-0099 (PR)
54200235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	206	206
54213450	END SECTIONS 15"	EACH	4	4
54213465	END SECTIONS 30"	EACH	8	8
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	46	46
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	54	54
* 60801030	FLAP GATE 30"	EACH	3	3
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	75	75
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	529	529
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARD RAIL	FOOT	275	275
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	45	45
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	335	335
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3345	3345
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1163	1163
70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	750
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	687.5	687.5
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1720	1720
* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	215	215
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7	7
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1080	1080
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7	7
X0656300	PAVEMENT REMOVAL AND REPLACEMENT	SQ YD	16	16
20073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	197	197
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	119	119
50105220	PIPE CULVERT REMOVAL	FOOT	173	173
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	16	16
Z0030150	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	118	118

* SPECIALTY ITEMS

FILE NAME = ...N0366916-SHT-Quantities.dgn

USER NAME = SAW
PLOT SCALE = 1:20000' / IN.
PLOT DATE = 10/8/2010

DESIGNED - RAC
DRAWN - RAC
CHECKED - DAZ
DATE - 10/08/10

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

**SUMMARY OF
QUANTITIES**

F.A.P.
RTE.
796

SECTION
(106) BR-3

COUNTY
FORD

TOTAL SHEETS
48
SHEET NO.
3

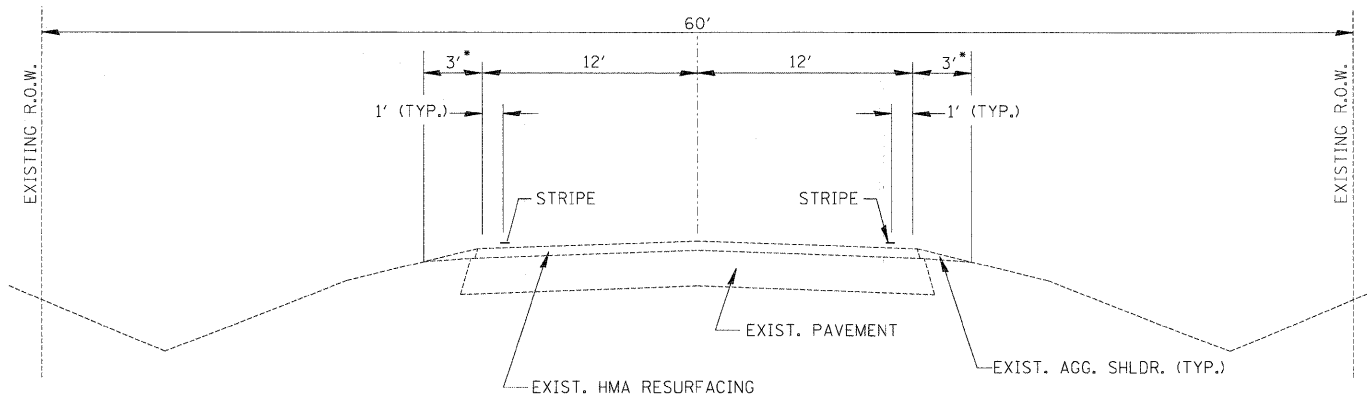
CONTRACT NO. 66916

SCALE: N/A

SHEET NO. 3 OF 48 SHEETS

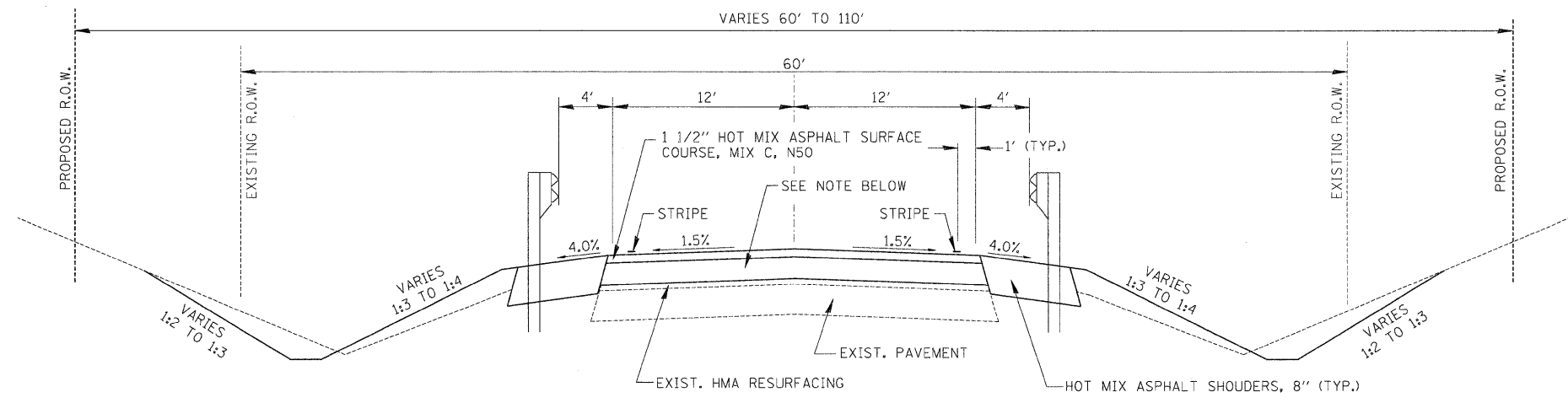
STA. 1707+00 TO STA. 1716+00

ILLINOIS FED. AID PROJECT



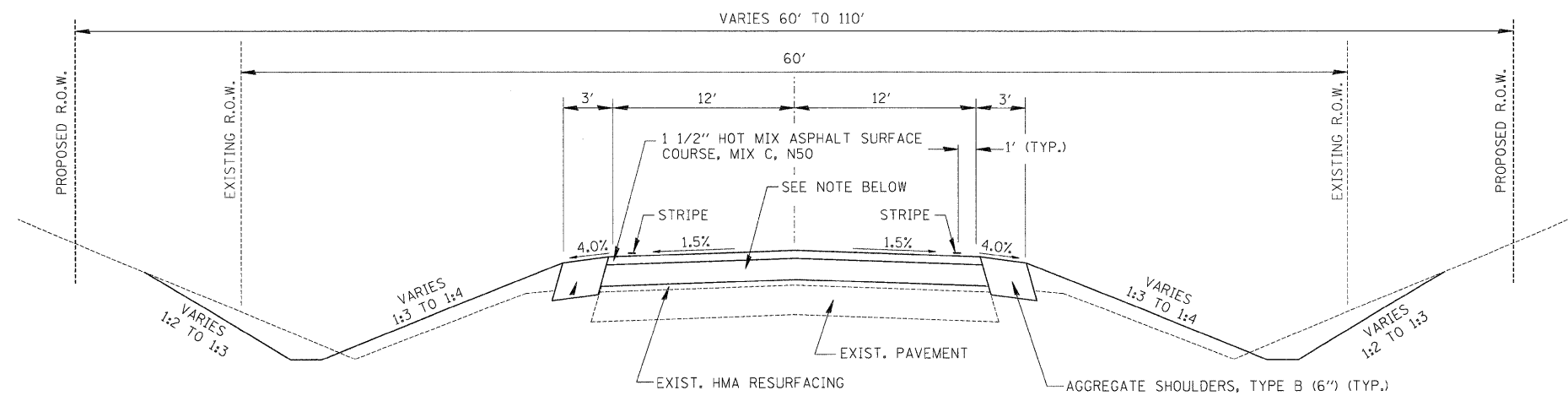
EXISTING TYPICAL SECTION

•SHOULDER WIDTH VARIES AT GUARDRAIL LOCATIONS



PROPOSED TYPICAL SECTION

STA. 1709+57 TO STA. 1710+72
STA. 1712+02 TO STA. 1713+18



PROPOSED TYPICAL SECTION

STA. 1707+00 TO STA. 1709+57
STA. 1713+18 TO STA. 1716+00

	HMA BINDER COURSE	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS
PG GRADE**	PG64-22	PG64-22	PG64-22	PG58-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	2.0% @ N30
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 9.5	IL 19.0
FRICITION AGGREGATE			MIXTURE C	
DENSITY TEST METHOD	CORES*	SATISFACTION OF ENGINEER	CORES	CORES*

* MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUB-GRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** WHEN RAP EXCEEDS 20%, THE VIRGIN ASPHALT BINDER SHALL BE REDUCED BY ONE GRADE (I.E. 25% RAP WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG64-22 TO BE REDUCED TO PG58-22).

NOTE:

USE LEVELING BINDER (MACHINE METHOD), N50 WHEN THICKNESS IS 3/4" TO 2 1/4"

USE HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 WHEN THICKNESS IS GREATER THAN OR EQUAL TO 2 1/4"

FILE NAME = ...ND366916-SHT-Typical Sections.dgn	USER NAME = SAW	DESIGNED - RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ZROKA engineering Zroka Engineering, P.C. 4216 North Harmitage Chicago, IL 60613	TYPICAL SECTIONS	F.A.P. RTE. 796	SECTION (106) BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 4		
PLOT SCALE = 50.0000' / IN.	CHECKED - DAZ	DATE - 10/08/10	REVISED -				SCALE: 1" = 50'	SHEET NO. 4 OF 48 SHEETS	STA. 1707+00 TO STA. 1716+00	CONTRACT NO. 66916			
							ILLINOIS FED. AID PROJECT						

HOT MIX ASPHALT SCHEDULE								
LOCATION	HMA SURF COURSE TON	HMA LEVEL BINDER MACHINE TON	HMA LEVEL BINDER HAND TON	HMA BINDER COURSE TON	HMA SHLDR 8" SQ YD	HMA SUR REM BUTT JT SQ YD	BIT MAT (PR CT) GAL	AGG (PR CT) TON
STA.1707+40 TO STA.1708+00						160		
STA.1707+40 TO STA.1710+72	74						71	1.8
STA.1708+00 TO STA.1708+20		5	0.0				4	0.1
STA.1708+20 TO STA.1710+72			0.4	588			126	1.4
STA.1709+70 TO STA.1710+87					90			
STA.1709+34 TO STA.1710+87 LT					118			
STA.1712+02 TO STA.1716+00 RT	89						85	2.1
STA.1712+02 TO STA.1714+80			0.4	648			139	1.5
STA.1714+80 TO STA.1715+40		16	0.1				13	0.3
STA.1711+87 TO STA.1713+56					124			
STA.1711+87 TO STA.1713+57 LT					106			
STA.1715+40 STA.1716+00 RT						160		
TOTALS	163	21	0.8	1236	438	320	438	7.2

GUARDRAIL SCHEDULE							
LOCATION	GUARDRAIL REMOVAL	SPBGR	TR BAR TRM TRM T1 SPL FLR EACH	TR BAR TRM TRM T6 EACH	GUARDRAIL MARK EACH	TERM MARK DIR APPLIED EACH	R&R RAIL ELEM EX GDRL FOOT
STA.1709+83 TO STA.1711+08 LT	125				4		125
STA.1709+94 TO STA.1710+44 LT			1			1	
STA.1710+44 TO STA.1710+87 LT				1		1	
STA.1709+58 TO STA.1711+08 RT	150						150
STA.1709+57 TO STA.1710+07 RT			1			1	
STA.1710+07 TO STA.1710+44 RT		37.5			2		
STA.1710+44 TO STA.1710+87 RT				1		1	
STA.1711+74 TO STA.1713+03 LT	129						
STA.1711+87 TO STA.1712+30 LT				1		1	
STA.1712+30 TO STA.1712+68 LT		37.5			2		
STA.1712+68 TO STA.1713+18 LT			1			1	
STA.1711+66 TO STA.1712+91 RT	125				4		
STA.1711+87 TO STA.1712+31 RT				1		1	
STA.1712+31 TO STA.1712+81 RT							
TOTALS =	529	75.0	4	4	12	8	275

PAVEMENT MARKING					
LOCATION	PVMT MARK WHITE, 4" FOOT	PVMT MARK YELLOW, 6" FOOT	RAISED REF PVMT MARK REMOVAL EACH	RAISED REFLECT PVMT MARK EACH	PAVEMENT MARKING REMOVAL FOOT
STA.1707+40 TO STA.1716+00 LT	860				540
STA.1707+40 TO STA.1716+00 RT	860				540
STA.1707+40 TO STA.1716+00		215	7	7	
TOTALS =	1720	215	7	7	1080

MISCELLANEOUS PAVEMENT SCHEDULE			
LOCATION	TEMPORARY RAMP SY	HMA BASE COURSE, 8" SY	PAVEMENT REMOVAL AND REPLACEMENT SY
STAGE I			
STA.1708+90 TO STA.1710+72 LT	303		
STA.1712+02 TO STA.1713+80 LT	297		
STA.1707+61 TO STA.1711+08 RT		161	
STA.1711+66 TO STA.1715+09 RT		159	
STAGE II			
STA.1707+94 TO STA.1710+72 LT		124	
STA.1712+02 TO STA.1714+88 LT		127	
STA.1713+38 TO STA.1713+44			16
TOTAL =	600	571	16

SEEDING					
LOCATION	SEEDING CL 2 ACRE	MULCH METHOD 2 ACRE	NITROGEN FERTILIZER NUTRIENT POUND	PHOSPHORUS FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND
STA.1707+40 TO STA.1710+85 LT	0.19	0.14	17	17	17
STA.1707+40 TO STA.1710+85 RT	0.23	0.11	20	20	20
STA.1711+85 TO STA.1716+00 LT	0.22	0.12	20	20	20
STA.1711+85 TO STA.1716+00 RT	0.18	0.14	16	16	16
TOTALS =	0.82	0.51	73	73	73

TEMPORARY PAVEMENT MARKING				
LOCATION	TEMP PVMT MARK WHITE, 4" FOOT	TEMP PVMT MARK WHITE, 24" FOOT	SHORT TERM PVMT MARK FOOT	WORK ZONE PAVT MARK REMOVAL SQ FT
STAGE I				
STA.1706+40 RT		12		24
STA.1706+86 LT TO STA.1716+63 LT	977		98	326
STA.1707+61 RT TO STA.1715+09 RT	748		75	249
STA.1716+63 LT		12		24
STAGE II				
STA.1707+94 LT TO STA.1714+88 LT	694		69	231
STA.1706+50 RT TO STA.1715+76 RT	926		93	309
TOTALS =	3345	24	335	1163

DRAINAGE SCHEDULE							
LOCATION	REMOVE EXISTING CULVERTS EACH	PIPE CULVERT CLASS D TYPE 1, 30 FOOT	PIPE CULVERT CLASS D TYPE 1, 15 FOOT	END SECTIONS 30" EACH	END SECTIONS 15" EACH	AUTOMATIC FLAP GATES 30" EACH	CONTROLLED LOW STRENGTH MATERIAL CY
STA.1710+81 28.0' RT TO STA.1711+22 26.2' RT	1						
STA.1710+75 26.6' LT TO STA.1711+21 25.2' LT	1						
STA.1711+53 25.3' LT TO STA.1711+93 26.1' LT	1						
STA.1713+12 23.4' RT TO STA.1713+32 23.7' RT	1						
STA.1713+34 23.8' RT TO STA.1713+39 28.6' LT							54
STA.1713+10 27.9' LT TO STA.1713+36 28.4' LT	1						
STA.1710+80 37.6' RT TO STA.1711+20 38.8' RT		41		2		1	
STA.1710+75 46.4' LT TO STA.1711+19 45.1' LT		47		2		1	
STA.1711+53 39.7' LT TO STA.1711+93 38.5' LT		44		2		1	
STA.1713+41 32.0' RT TO STA.1713+41 42.0' LT		74		2			
STA.1713+60 42.0' LT TO STA.1714+00 42.0' LT			42		2		
STA.1713+58 32.0' RT TO STA.1714+00 32.0' RT			42		2		
TOTALS =	5	206	84	8	4	3	54

EARTHWORK		
LOCATION	EARTH EXCAVATION CU YD	FURNISHED EXCAVATION CU YD
STA.1707+00 TO STA.1710+75 LT	87	337
STA.1707+00 TO STA.1710+75 RT	142	340
STA.1712+00 TO STA.1716+00 LT	139	532
STA.1712+00 TO STA.1716+00 RT	16	383
TOTALS =	385	1592

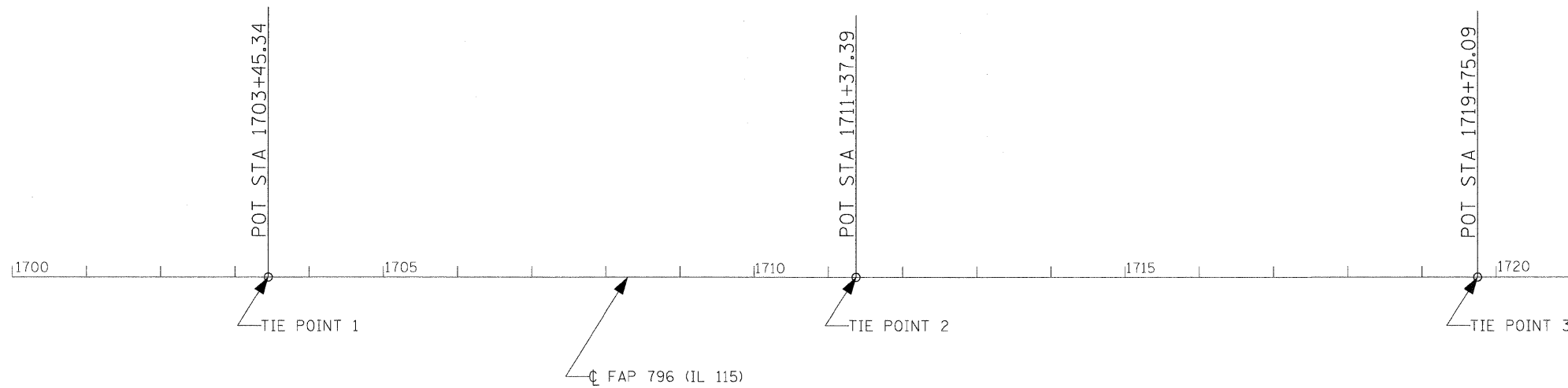
TEMPORARY EROSION CONTROL		
LOCATION	TEMP EROSION SEEDING POUND	PERIM EROSION BARRIER FOOT
STA.1707+40 TO STA.1710+85 LT	19	345
STA.1707+40 TO STA.1710+85 RT	23	345
STA.1711+85 TO STA.1716+00 LT	22	415
STA.1711+85 TO STA.1716+00 RT	18	415
TOTALS =	82	1520

STAGE CONSTRUCTION SCHEDULE				
LOCATION	TEMPORARY CONCRETE BARRIER FOOT	RELOCATE TEMP. CONC BARRIER FOOT	IMPACT ATTENUATORS EACH	RELOCATE IMPACT ATTENUATORS EACH
STAGE I				
STA.1707+63 TO STA.1715+07	750.0		2	
STAGE II				
STA.1707+96 TO STA.1714+74		687.5		2
TOTALS =	750.0	687.5	2	2

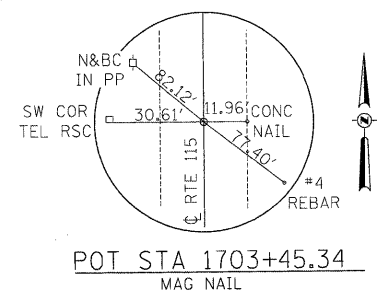
AGGREGATE SCHEDULE		
LOCATION	AGGREGATE SURFACE COURSE, TYPE B TON	AGGREGATE SHOULDERS TYPE B TON
STA.1707+32 LT	14	
STA.1713+80 LT	67	
STA.1713+80 RT	55	
STA.1707+40 TO 1709+76 LT		25
STA.1707+00 TO 1709+40 RT		25
STA.1714+04 TO 1716+00 LT		22
STA.1714+04 TO 1716+00 RT		22
TOTAL =	136	95

EROSION CONTROL BLANKET	
LOCATION	EROSION CONTROL BLANKET SQ YD
STA.1707+13 TO STA.1707+63 RT	33
STA.1707+63 TO STA.1708+50 LT	44
STA.1707+63 TO STA.1708+50 RT	73
STA.1708+50 TO STA.1709+25 LT	46
STA.1708+50 TO STA.1709+25 RT	54
STA.1709+25 TO STA.1709+75 LT	33
STA.1709+25 TO STA.1709+75 RT	32
STA.1709+75 TO STA.1710+25 RT	143
STA.1710+25 TO STA.1710+63 LT	140
STA.1710+25 TO STA.1710+63 RT	145
STA.1710+63 TO STA.1711+02 RT	157
STA.1711+88 TO STA.1712+25 LT	148
STA.1712+25 TO STA.1712+75 LT	182
STA.1712+25 TO STA.1712+75 RT	24
STA.1712+75 TO STA.1713+40 LT	213
STA.1712+75 TO STA.1713+40 RT	29
TOTAL =	1496

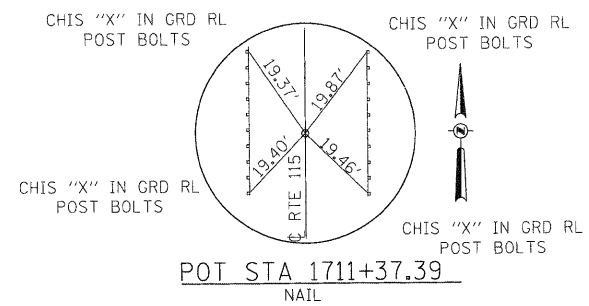
ROW MARKERS	
LOCATION	FUR ERECT ROW MARKERS EACH
STA.1707+00 30' LT	1
STA.1707+00 30' RT	1
STA.1709+00 55' LT	1
STA.1709+00 55' RT	1
STA.1714+00 55' LT	1
STA.1714+00 55' RT	1
STA.1716+00 30' LT	1
STA.1716+00 30' RT	1
TOTAL =	8



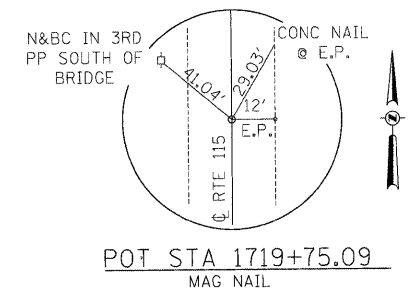
TIE POINTS



TIE POINT 1



TIE POINT 2

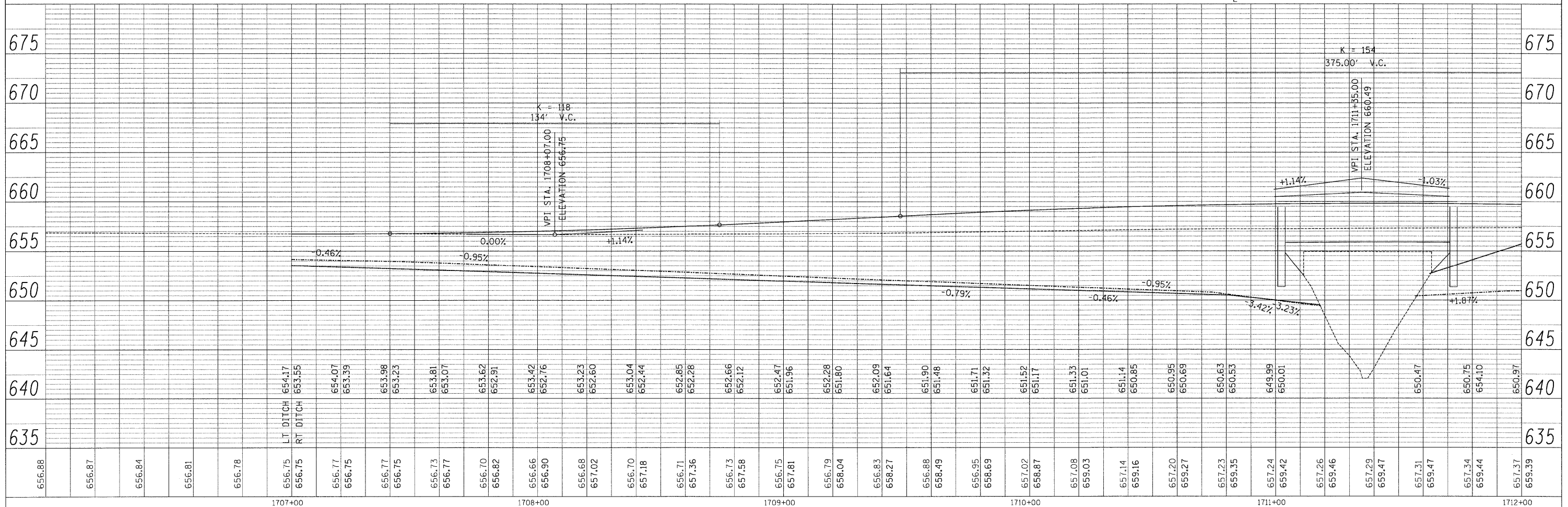
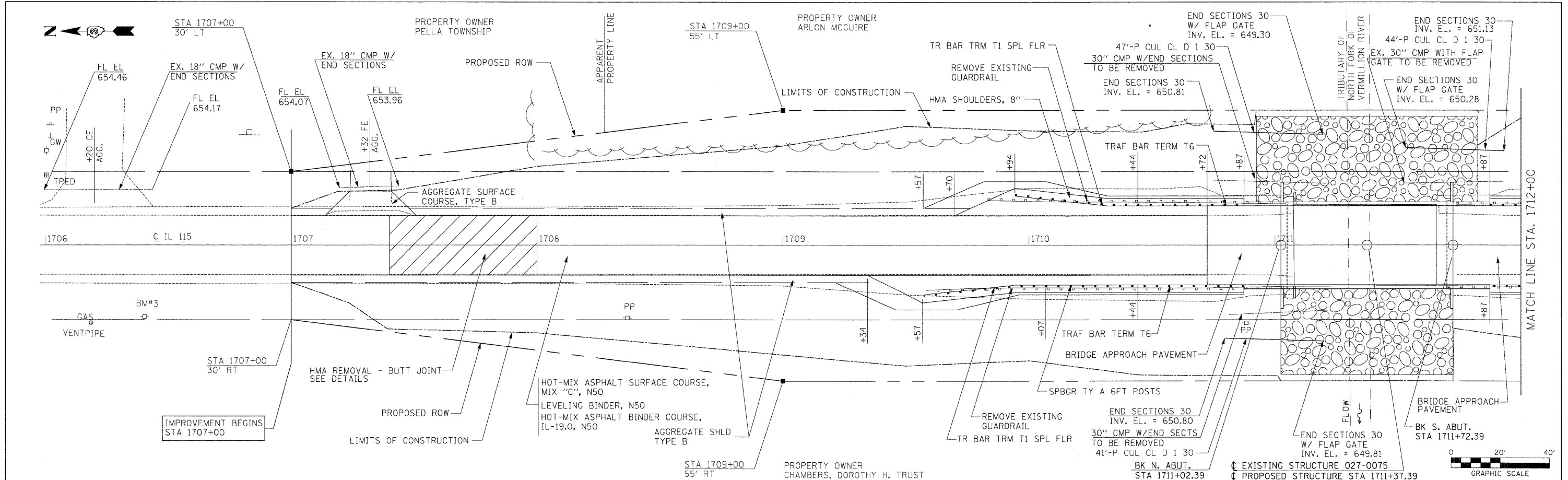


TIE POINT 3

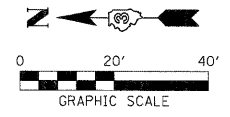
FILE NAME =	USER NAME = SAW	DESIGNED - RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ZROKA engineering	Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613	ALIGNMENT AND SURVEY TIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...D366916-SHT-Align Survey Ties and Benchmarks.dgn	DRAWN - RAC	REVIS	REVIS					796	(106) BR-3	FORD	48	6
PLT SCALE = 50.00000' / IN.	CHECKED - DAZ	REVIS	REVIS					CONTRACT NO. 66916			ILLINOIS FED. AID PROJECT	
PLT DATE = 10/6/2010	DATE - 10/08/10	REVIS	REVIS					SCALE: 1" = 50'		SHEET NO. 6 OF 48 SHEETS		STA. 1707+00 TO STA. 1716+00

PLAN
 SURVEYED
 ALIGNED
 CHECKED
 RT. OF WAY
 CHECKED
 DATE
 BY
 NO.

PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 B.M. NOTED
 STRUCTURE
 NOTATIONS
 CHECKED
 DATE
 BY
 NO.

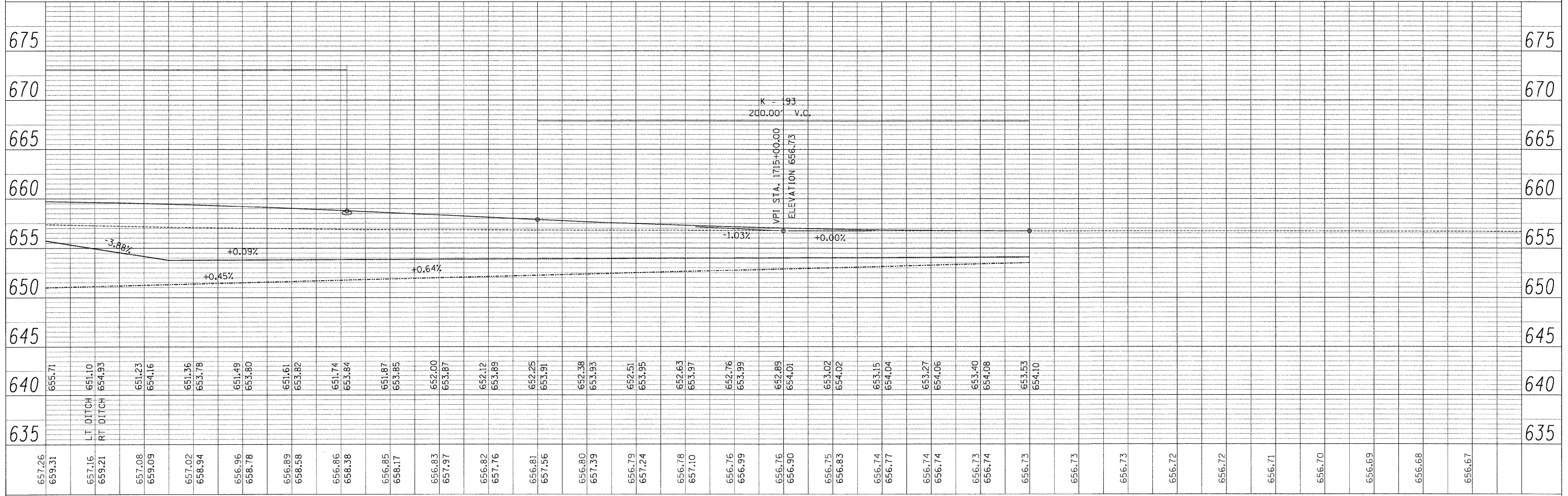
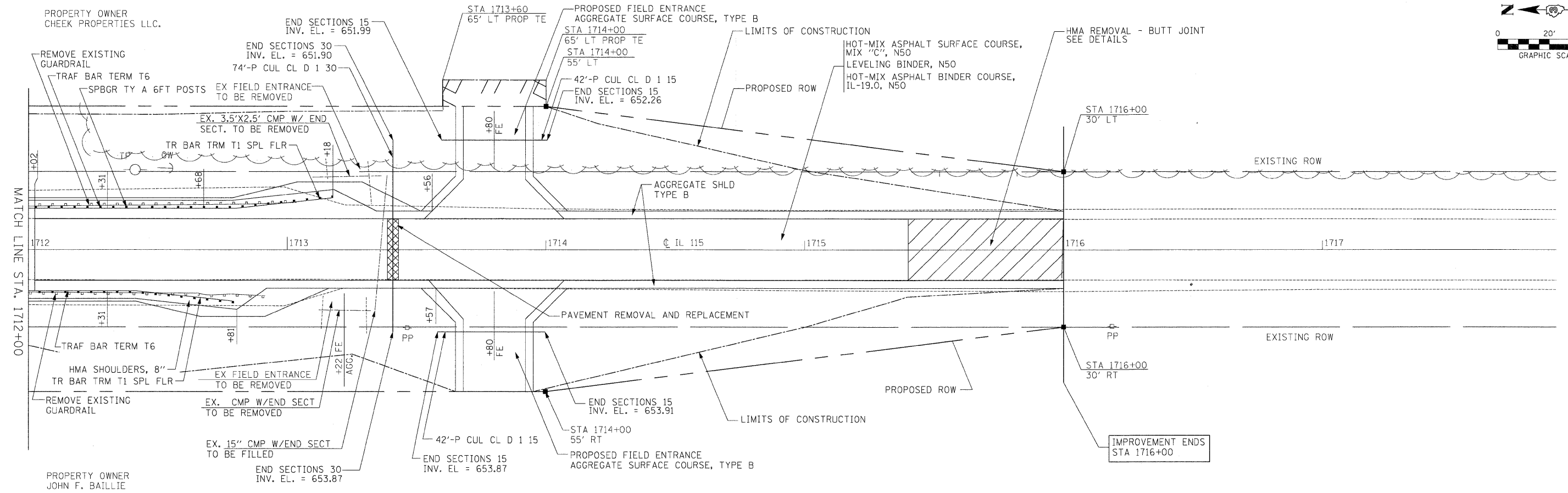


FILE NAME =	USER NAME = SAW	DESIGNED RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613	PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\civ1\0366916-SHT-P&P.dgn		DRAWN RAC	REVISED -				796	(106) BR-3	FORD	48	7
PLOT SCALE = 20.0000' / IN.		CHECKED DAZ	REVISED -				CONTRACT NO. 66916				
PLOT DATE = 10/6/2010		DATE 10-08-10	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

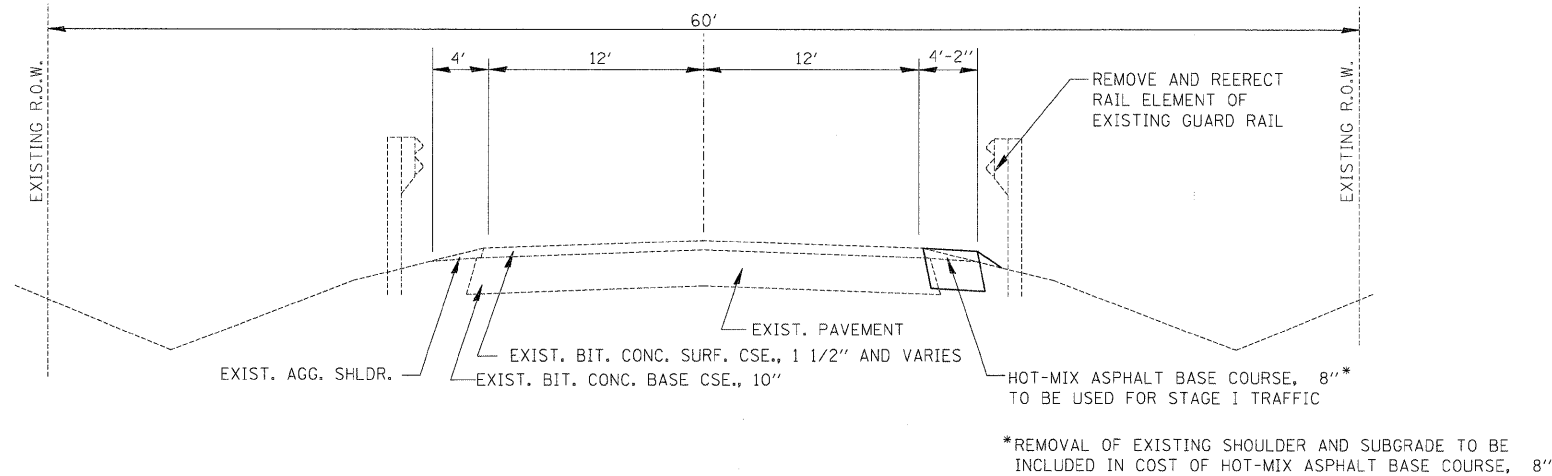


PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	ADD TITLE NAME	

PROFILE	SURVEYED	DATE
	PROFILING	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	STRUCTURE NOTATIONS	
	CHKD	

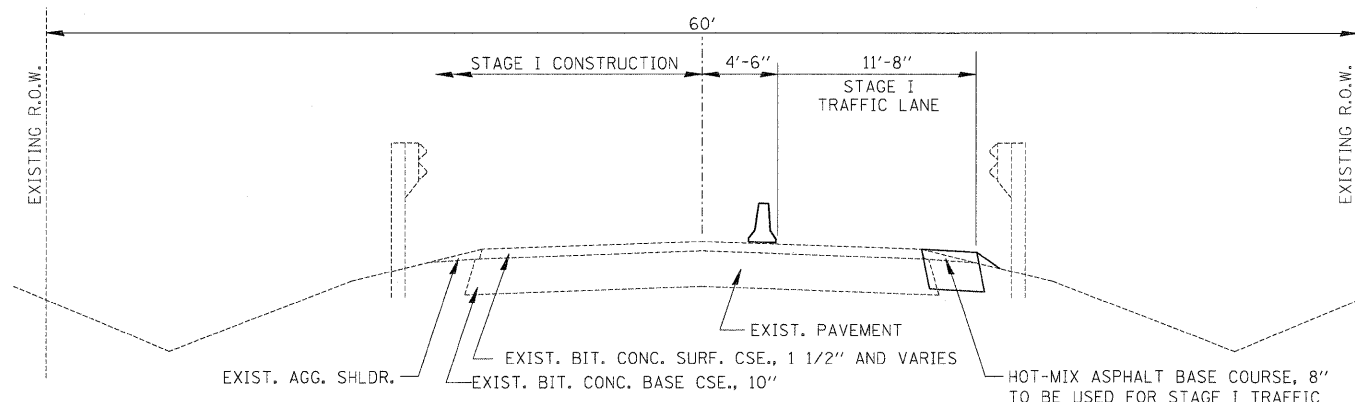


FILE NAME =	USER NAME = SAW	DESIGNED RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE F.A. RTE. 796 SECTION (106) BR-3 COUNTY FORD TOTAL SHEETS 48 SHEET NO. 8 CONTRACT NO. 66916
...\\Cv1\0366916-SHT-P&P.dgn		DRAWN RAC	REVISED -			
		CHECKED DAZ	REVISED -			
		DATE 10-08-10	REVISED -			
PLOT SCALE = 20.0000' / IN. PLOT DATE = 10/6/2010				SCALE: 1"=20' SHEET NO. 7 OF 48 SHEETS STA. 1707+00 TO STA. 1716+00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



PRE-STAGE I CONSTRUCTION NOTES

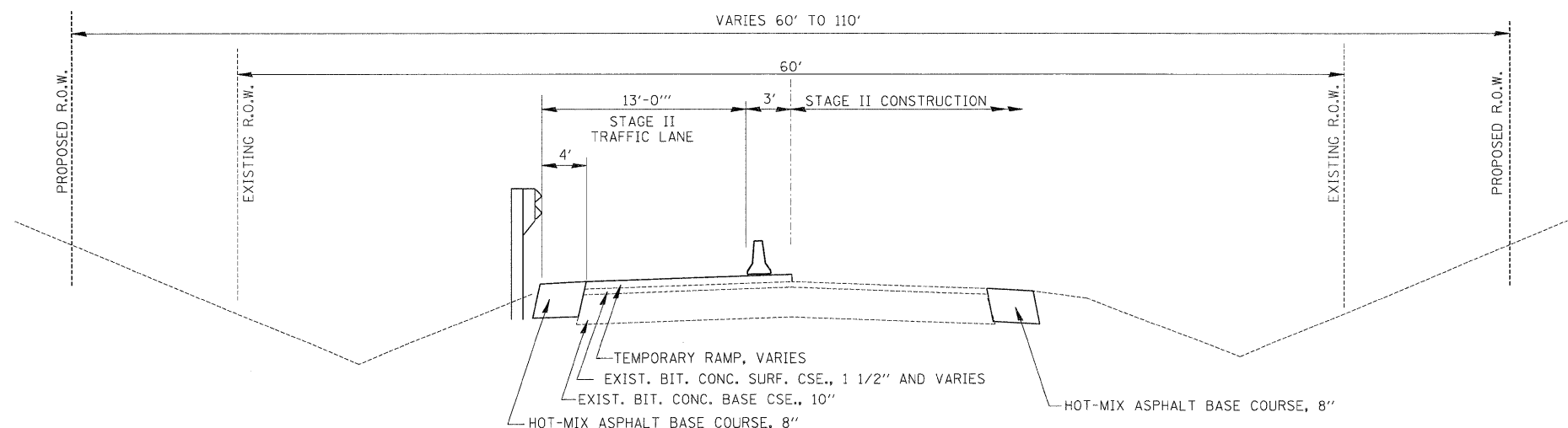
1. INSTALL TRAFFIC CONTROL PER STANDARD 701326.
2. REMOVE RAIL ELEMENT OF WEST EXISTING GUARDRAIL .
3. CONSTRUCT HMA BASE COURSE, 8" TO BE USED FOR STAGE I TRAFFIC
4. REINSTALL RAIL ELEMENT OF GUARDRAIL.



STAGE I CONSTRUCTION NOTES

1. INSTALL TRAFFIC SIGNALS, TEMPORARY CONCRETE BARRIER, SIGNS AND ETC. ACCORDING TO DETAILS AND TRAFFIC CONTROL STANDARD 701321 MAINTAINING ALL TRAFFIC ON THE SOUTHBOUND LANE.
2. REMOVE STAGE I PORTION OF THE EXISTING BRIDGE STRUCTURE, NORTHBOUND GUARDRAIL AND PAVEMENT AS SHOWN ON THE PLANS.
3. CONSTRUCT THE STAGE I PORTION OF THE PROPOSED STRUCTURE, APPROACH PAVEMENT, AND EASTERN PORTION OF CROSS CULVERT, INCLUDING PAVEMENT REMOVAL AND REPLACEMENT.
4. CONSTRUCT TEMPORARY RAMP TO TRANSITION FROM PROPOSED PAVEMENT (BRIDGE AND BRIDGE APPROACH) CONSTRUCTED IN STAGE I TO EXISTING PAVEMENT,
5. CONSTRUCT HMA BASE COURSE FOR PORTION OF SHOULDERS UNDER STAGE II TRAFFIC AS SHOWN ON NEXT SHEET.
6. CONSTRUCT NORTHBOUND PROPOSED GUARDRAIL.

STAGE I SECTION



STAGE II CONSTRUCTION NOTES

1. RELOCATE THE TRAFFIC CONTROL PER STANDARD 701321 AND AS DETAILED IN THESE PLANS. REDIRECT TRAFFIC TO THE NORTHBOUND LANE.
2. REMOVE THE STAGE II PORTION OF THE EXISTING BRIDGE STRUCTURE, GUARDRAIL AND PAVEMENT AS SHOWN ON THE PLANS.
3. CONSTRUCT THE STAGE II PORTION OF THE PROPOSED STRUCTURE, APPROACH PAVEMENT, REMAINING CULVERTS AND GUARDRAIL.
4. REMOVE TRAFFIC SIGNALS AND ETC. CALLED FOR IN STANDARD 701321.

POST STAGE II CONSTRUCTION

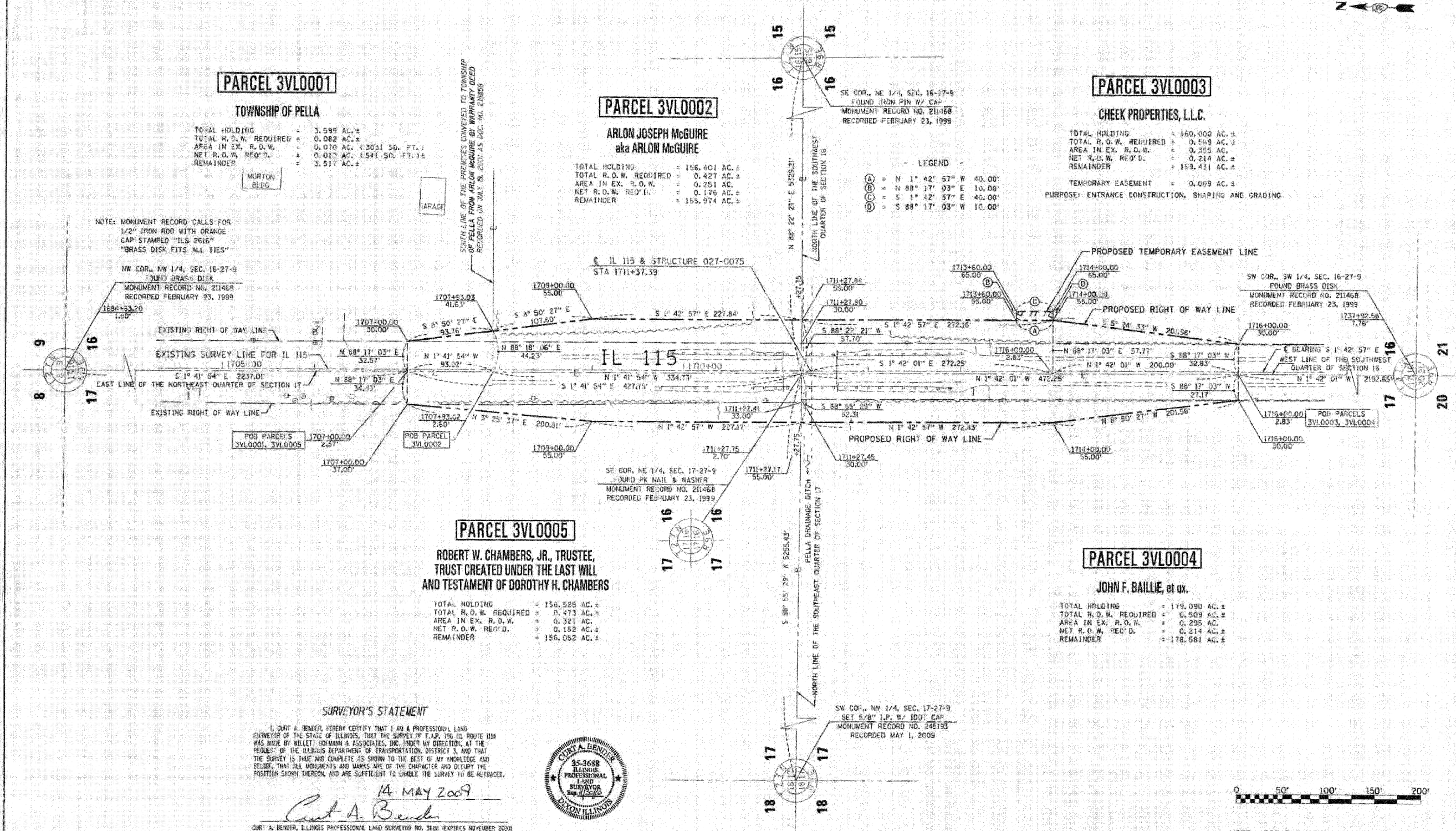
1. PERFORM GRADE CHANGE USING LEVELING BINDER, BINDER, AND SURFACE COURSES.*
2. PLACE PAVEMENT MARKINGS AND ALL REMAINING WORK USING STANDARD 701201.

* NOTE: A MAXIMUM 2" DROP-OFF IS ALLOWED BETWEEN OPEN LANES AT THE END OF EACH DAY.

STAGE II SECTION

FILE NAME =	USER NAME = SAW	DESIGNED - RAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ZROKA engineering	Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613	STAGE CONSTRUCTION TRAFFIC CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...D366916-SHT-Stage Const Traffic Control XS.dgn	DRAWN - RAC	REVISED -	796					(106) BR-3	FORD	48	9	
PLOT SCALE = 50.0000' / 1" IN.	CHECKED - DAZ	REVISED -	CONTRACT NO. 66916									
PLOT DATE = 10/6/2010	DATE - 10/08/10	REVISED -	ILLINOIS FED. AID PROJECT									
				SCALE: 1" = 50'		SHEET NO. 9 OF 48 SHEETS		STA. 1707+00 TO STA. 1716+00				

SEC. 16, T. 27 N., R. 9 E., 3RD P.M.



NOTE: MONUMENT RECORD CALLS FOR 1/2" IRON ROD WITH ORANGE CAP STAMPED "I.L.S. 2616" "BRASS DISK FITS ALL TIES"

NW COR., NW 1/4, SEC. 16-27-9 FOUND BRASS DISK MONUMENT RECORD NO. 211468 RECORDED FEBRUARY 23, 1999

EXISTING RIGHT OF WAY LINE

EXISTING SURVEY LINE FOR IL 115

EAST LINE OF THE NORTHEAST QUARTER OF SECTION 16

EXISTING RIGHT OF WAY LINE

POB PARCELS 3VLO001, 3VLO005

POB PARCEL 3VLO002

IL 115 & STRUCTURE 027-0075 STA 1711+37.39

IL 115

SE COR., NE 1/4, SEC. 17-27-9 FOUND PK NAIL & WASHER MONUMENT RECORD NO. 211468 RECORDED FEBRUARY 23, 1999

PARCEL 3VLO005

ROBERT W. CHAMBERS, JR., TRUSTEE, TRUST CREATED UNDER THE LAST WILL AND TESTAMENT OF DOROTHY H. CHAMBERS

TOTAL HOLDING = 158.525 AC. ±
 TOTAL R.O.W. REQUIRED = 0.473 AC. ±
 AREA IN EX. R.O.W. = 0.321 AC. ±
 NET R.O.W. REQ'D. = 0.152 AC. ±
 REMAINDER = 156.052 AC. ±

SURVEYOR'S STATEMENT

I, CURT A. BENDER, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS. THAT THE SURVEY OF F.A.P. 796 (IL ROUTE 115) WAS MADE BY WILLET, HOFMANN & ASSOCIATES, INC. UNDER MY DIRECTION, AT THE REQUEST OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND DEPTH THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RE-TRACED.

Curt A. Bender
 14 MAY 2009

CURT A. BENDER, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3666 EXPIRES NOVEMBER 2020
 WILLET, HOFMANN & ASSOCIATES, INC. - DESIGN FIRM NO. 184-000918



SEC. 17, T. 27 N., R. 9 E., 3RD P.M.

PARCEL 3VLO003

CHEEK PROPERTIES, L.L.C.

TOTAL HOLDING = 160.000 AC. ±
 TOTAL R.O.W. REQUIRED = 0.549 AC. ±
 AREA IN EX. R.O.W. = 0.355 AC. ±
 NET R.O.W. REQ'D. = 0.214 AC. ±
 REMAINDER = 159.431 AC. ±

TEMPORARY EASEMENT = 0.009 AC. ±
 PURPOSE: ENTRANCE CONSTRUCTION, SHAPING AND GRADING

LEGEND
 (A) = N 1° 42' 57" W 40.00'
 (B) = N 88° 17' 03" E 10.00'
 (C) = S 1° 42' 57" E 40.00'
 (D) = S 88° 17' 03" W 10.00'

PROPOSED TEMPORARY EASEMENT LINE

PROPOSED RIGHT OF WAY LINE

SW COR., SW 1/4, SEC. 16-27-9 FOUND BRASS DISK MONUMENT RECORD NO. 211468 RECORDED FEBRUARY 23, 1999

E BEARING S 1° 42' 57" E WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 16

WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 16

PARCEL 3VLO004

JOHN F. BAILLIE, et al.

TOTAL HOLDING = 179.090 AC. ±
 TOTAL R.O.W. REQUIRED = 0.509 AC. ±
 AREA IN EX. R.O.W. = 0.295 AC. ±
 NET R.O.W. REQ'D. = 0.214 AC. ±
 REMAINDER = 178.561 AC. ±

SW COR., NW 1/4, SEC. 17-27-9 SET 5/8" I.P. W/ 1/2" CAP MONUMENT RECORD NO. 246193 RECORDED MAY 1, 2009



NOTE: FOR THE PURPOSES OF THIS PLAT, BEARINGS ARE BASED UPON AN ASSUMED NORTH.

ILLINOIS 115

FILE NAME: ...D366916-SHT-Right of Way.dgn	USER NAME: SAW	DESIGNED: RAC	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS		F.A.P. RTE.: 796	SECTION: (106) BR-3	COUNTY: FORD	TOTAL SHEETS: 1	SHEET NO.: 1
		DRAWN: RAC	REVISED: -		PROJECT: STA. 1707+00 TO STA. 1716+00	JOB NO.: R-57-005-09	CONTRACT NO. 66916				
		CHECKED: DAZ	REVISED: -		SCALE: 1" = 50'	SHEET NO. 11 OF 48 SHEETS	ILLINOIS FED. AID PROJECT				
		DATE: 10/08/10	REVISED: -								

WILLET, HOFMANN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1000 W. 11th Street, Suite 100
 Peoria, IL 61614
 Phone: 309-696-1111
 Fax: 309-696-1112
 www.willett-hofmann.com

ZROKA Engineering
 Zroka Engineering, P.C.
 4216 North Heritage
 Chicago, IL 60613

RIGHT OF WAY PLANS

F.A.P. RTE.: 796	SECTION: (106) BR-3	COUNTY: FORD	TOTAL SHEETS: 48	SHEET NO.: 11
CONTRACT NO. 66916				
ILLINOIS FED. AID PROJECT				

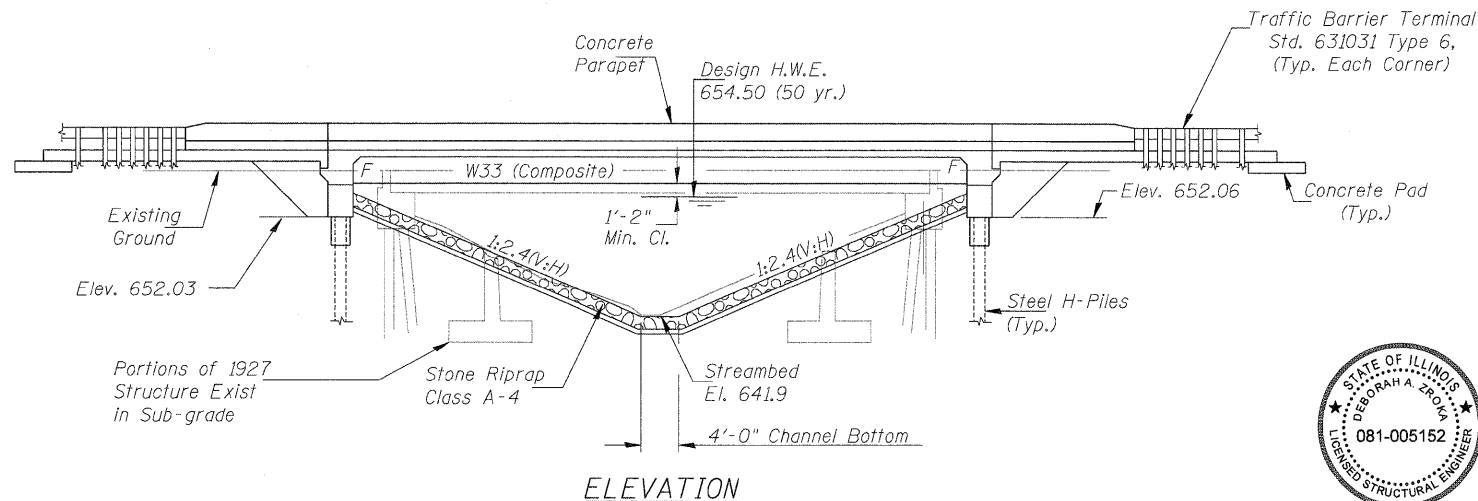
BM#3 - RR Spike in Power Pole W. Side of Road
Sta. 1706+38, 40' Rt.
Elev. 656.92

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Existing Structure:

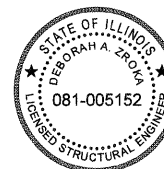
S.N. 027-0075 was built in 1981 as F.A. Route 796, Section 106 BR-3. The existing structure is a single span PPC Deck Beam bridge supported on pile bent abutments, 59'-6" back to back abutments and 33'-0" out-to-out deck. In 2008, several PPC Deck Beams were replaced in kind. Existing bridge to be completely removed and replaced. One lane traffic shall be maintained at all times utilizing Stage Construction and Temporary Traffic Barrier.

No Salvage.

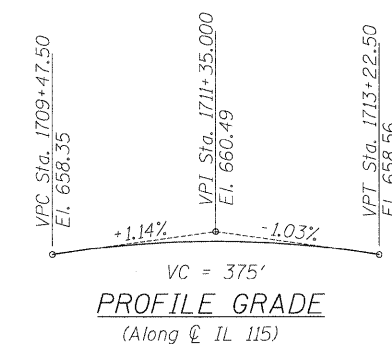


APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson (TSP)
ENGINEER OF BRIDGES AND STRUCTURES



Signature: *Robert E. Anderson* Date: Oct. 4, 2010
November 30, 2010
Expires



DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications
with 2008 & 2009 Interims

DESIGN STRESSES

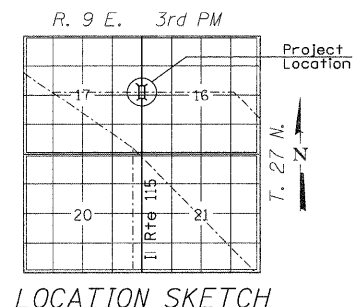
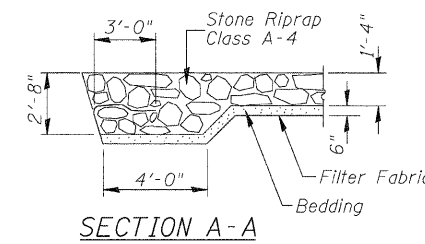
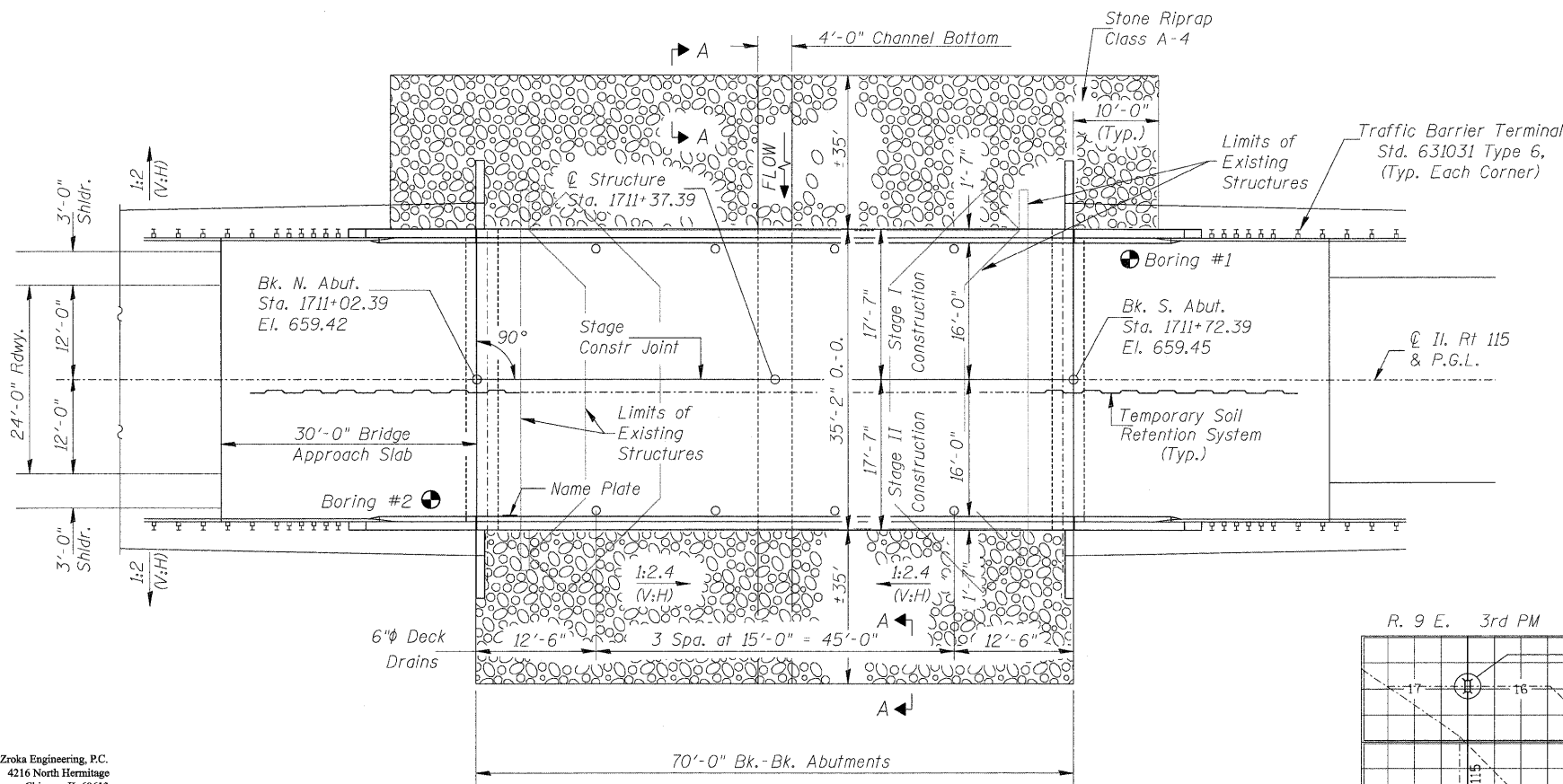
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
Fy = 50,000 psi (M270 Grade 50W)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.078g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.134g
Soil Site Class = C



GENERAL PLAN & ELEVATION
IL ROUTE 115 OVER
TRIB. N. FORK OF VERMILION RIVER
F.A.P. ROUTE 796 SECTION (106)BR-3
FORD COUNTY
STATION 1711+37.39
STRUCTURE NO. 027-0099

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

SHEET NO. 1 OF 21 SHEETS	F.A.P. RTE. 796	SECTION (106)BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 12
	SN 027-0099		CONTRACT NO. 66916		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

10/8/2010 8:10:33 AM C:\Drawings\5700-10\115\66916-001\GPE.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

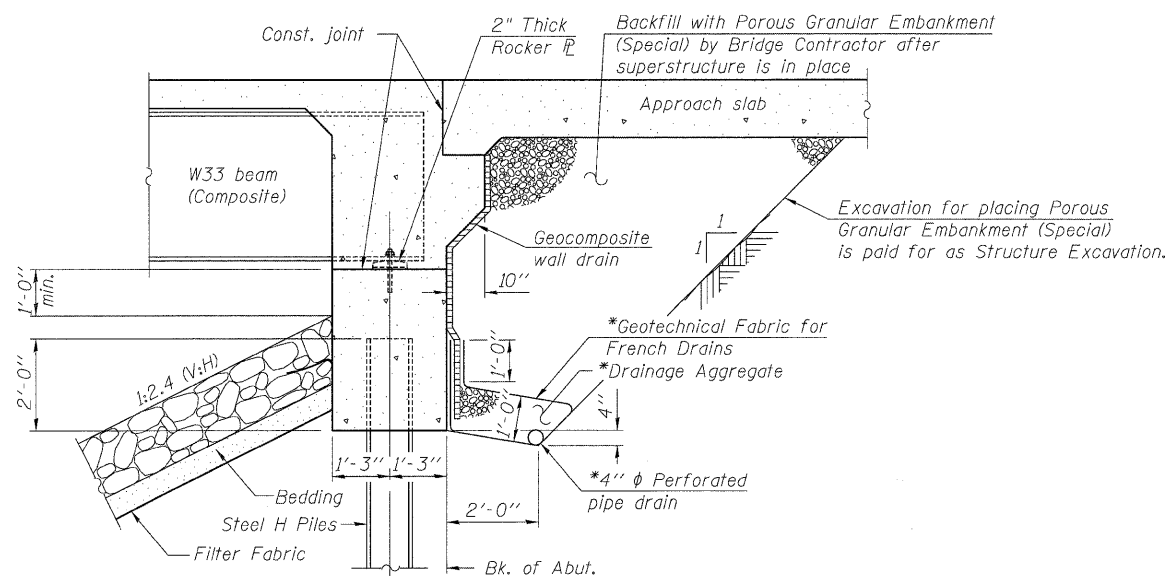
1. General Plan & Elevation
2. General Data
3. Stage Construction Details
4. Top of Slab Elevations 1
5. Top of Slab Elevations 2
6. North Approach Top of Slab Elevations
7. South Approach Top of Slab Elevations
8. Superstructure Plan
9. Superstructure Details
10. Integral Abutment Diaphragm Details
11. Bridge Approach Slab Details
12. Bridge Approach Slab Details
13. Framing Plan
14. Structural Steel Details
15. North Abutment
16. South Abutment
17. Bar Splicer Assembly and Mechanical Splicer Details
18. HP Pile Details
19. Temporary Concrete Barrier For Stage Construction
20. Boring Logs 1
21. Boring Logs 2

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts $\frac{3}{4}$ in. dia., holes $\frac{13}{16}$ in. dia., unless otherwise noted.
2. Calculated weight of structural steel = 59,430 pounds.
3. All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
8. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
9. Slipforming of the parapets is not allowed.
10. The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
11. If the Contractor's procedures for existing deck beam removal or construction of the new superstructure involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the deck beams for the proposed loads. Cost included with Removal of Existing Structures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		119	119
Stone Riprap Class A4	Sq. Yd.		910	910
Filter Fabric	Sq. Yd.		910	910
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		141	141
Floor Drains	Each	8		8
Concrete Structures	Cu. Yd.		53.3	53.3
Concrete Superstructure	Cu. Yd.	214.1		214.1
Bridge Deck Grooving	Sq. Yd.	436		436
Concrete Encasement	Cu. Yd.		4.0	4.0
Protective Coat	Sq. Yd.	541		541
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	990		990
Reinforcement Bars, Epoxy Coated	Pound	45,050	12,630	57,680
Bar Splicers	Each	453	126	579
Furnishing Steel Piles HP 12x53	Foot		236	236
Driving Piles	Foot		236	236
Test Pile Steel HP 12x53	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		46	46
Pipe Underdrains for Structures 4"	Foot		118	118
Temporary Soil Retention System	Sq. Ft.		197	197
Asbestos Bearing Pad Removal	Each	16		16



SECTION THRU INTEGRAL ABUTMENT

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101.)

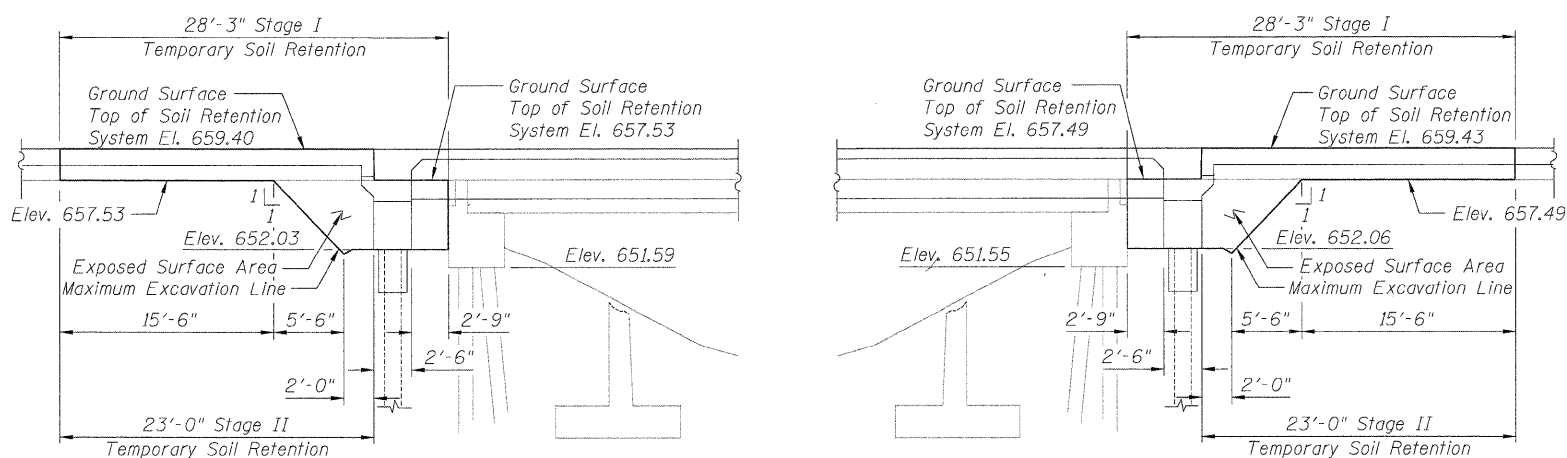
*Included in the cost of Pipe Underdrains for Structures.

ZROKA engineering
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Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

STATION 1711+37.39
BUILT BY
STATE OF ILLINOIS
F.A.P. RTE. 796 SEC. (106)BR-3
LOADING HL-93
STRUCTURE NO. 027-0099

NAME PLATE
See Std. 515001



TEMPORARY SOIL RETENTION SYSTEM

A cantilevered sheet piling system does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

WATERWAY INFORMATION

Drainage Area = 11.25 Sq. Mi.		Exist. Low Grade Elev. = 656.63 @ Sta. 1719+00.00 Prop. Low Grade Elev. = 656.63 @ Sta. 1719+00.00								
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	893	330	330	654.5	0.00	0.00	654.5	654.5	654.5
Base	100	1,025	349	364	655.2	0.1	0.00	655.3	655.2	655.2
Overtopping	N/A									
Max. calc.	500	1,339	349	394	656.6	0.2	0.1	656.8	656.7	656.7

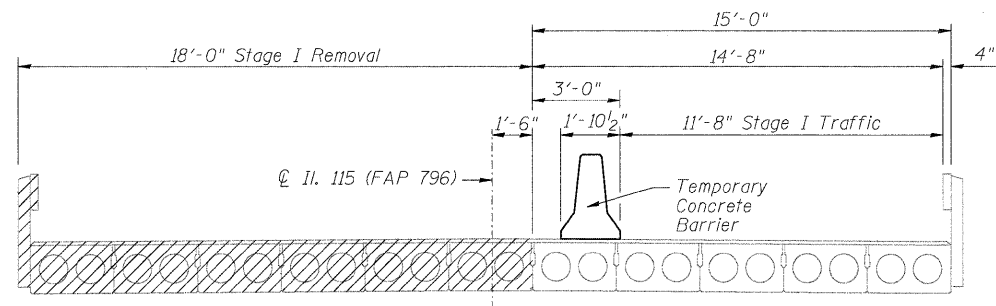
DESIGN SCOUR ELEVATION TABLE

Location	N. Abut	S. Abut
Design Scour Elevation	652.0	652.1

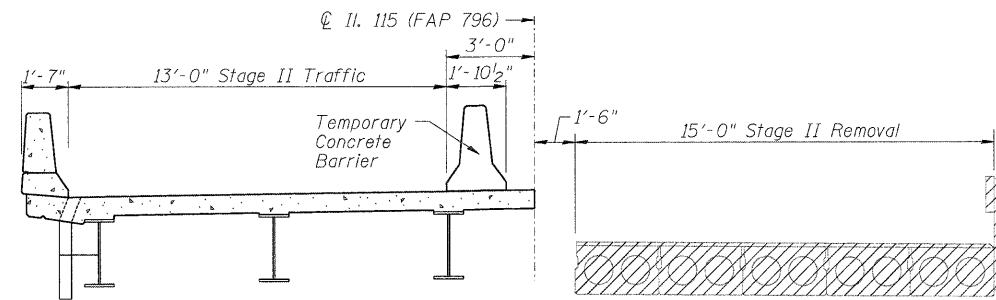
GENERAL DATA
STRUCTURE NO. 027-0099

SHEET NO. 2 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT		

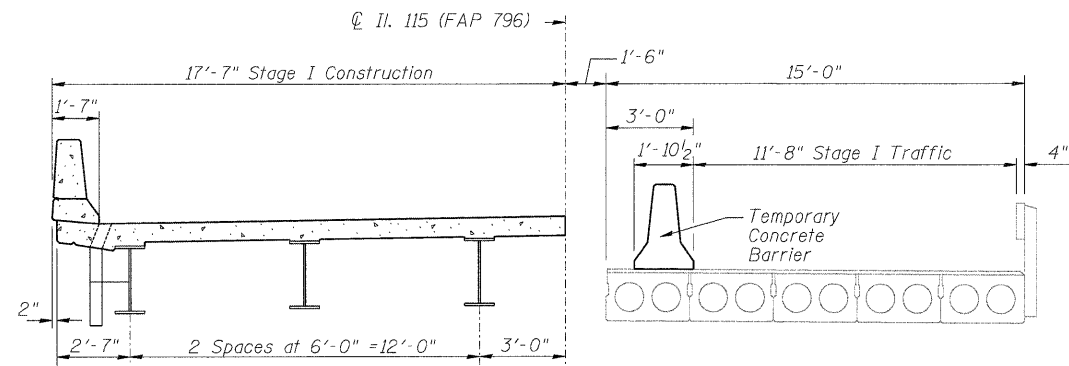
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



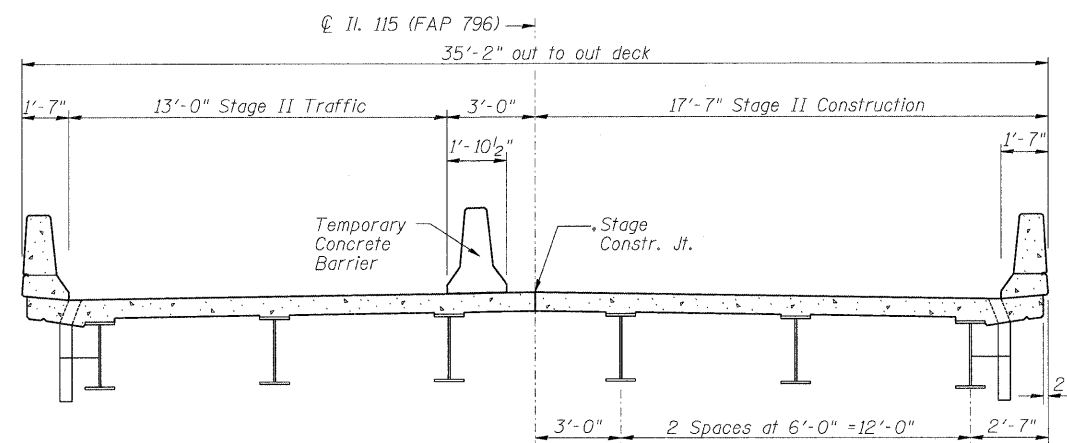
STAGE I REMOVAL
(Looking South)



STAGE II REMOVAL
(Looking South)



STAGE I CONSTRUCTION
(Looking South)



STAGE II CONSTRUCTION
(Looking South)

Notes:
Hatched areas indicate removal of existing structures.
For quantity of temporary concrete barrier, see Roadway Plans.

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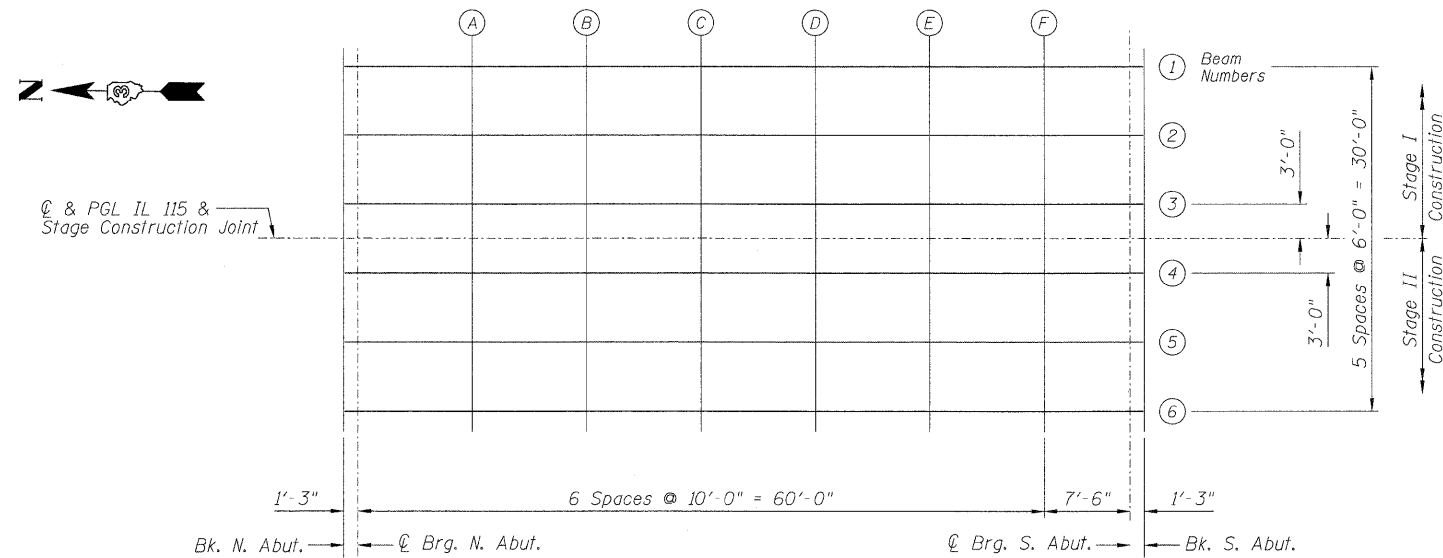
DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 027-0099

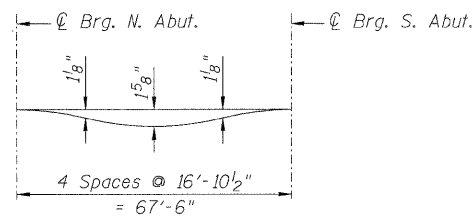
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SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

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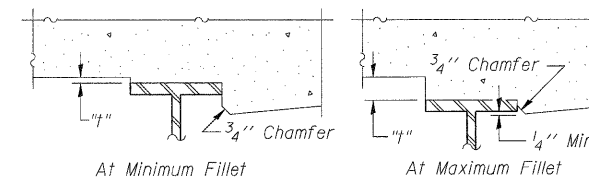


PLAN FOR TOP OF SLAB ELEVATIONS



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection".



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 5, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

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engineering
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Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

TOP OF SLAB ELEVATIONS 1
STRUCTURE NO. 027-0099

SHEET NO. 4 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	15
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	-15.00	659.17	659.17
☉ Brg. N. Abut.	1711+03.64	-15.00	659.17	659.17
A	1711+13.64	-15.00	659.20	659.25
B	1711+23.64	-15.00	659.21	659.32
C	1711+33.64	-15.00	659.22	659.35
D	1711+43.64	-15.00	659.22	659.35
E	1711+53.64	-15.00	659.22	659.32
F	1711+63.64	-15.00	659.21	659.26
☉ Brg. S. Abut.	1711+71.14	-15.00	659.20	659.20
Bk. S. Abut.	1711+72.39	-15.00	659.20	659.20

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	-9.00	659.28	659.28
☉ Brg. N. Abut.	1711+03.64	-9.00	659.28	659.28
A	1711+13.64	-9.00	659.30	659.36
B	1711+23.64	-9.00	659.32	659.43
C	1711+33.64	-9.00	659.33	659.46
D	1711+43.64	-9.00	659.33	659.46
E	1711+53.64	-9.00	659.33	659.43
F	1711+63.64	-9.00	659.32	659.37
☉ Brg. S. Abut.	1711+71.14	-9.00	659.31	659.31
Bk. S. Abut.	1711+72.39	-9.00	659.31	659.31

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	-3.00	659.37	659.37
☉ Brg. N. Abut.	1711+03.64	-3.00	659.38	659.38
A	1711+13.64	-3.00	659.40	659.46
B	1711+23.64	-3.00	659.41	659.52
C	1711+33.64	-3.00	659.42	659.55
D	1711+43.64	-3.00	659.43	659.55
E	1711+53.64	-3.00	659.42	659.52
F	1711+63.64	-3.00	659.42	659.46
☉ Brg. S. Abut.	1711+71.14	-3.00	659.41	659.41
Bk. S. Abut.	1711+72.39	-3.00	659.40	659.40

☉ & PGL IL 115 & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	0.00	659.42	659.42
☉ Brg. N. Abut.	1711+03.64	0.00	659.42	659.42
A	1711+13.64	0.00	659.45	659.50
B	1711+23.64	0.00	659.46	659.57
C	1711+33.64	0.00	659.47	659.60
D	1711+43.64	0.00	659.47	659.60
E	1711+53.64	0.00	659.47	659.57
F	1711+63.64	0.00	659.46	659.51
☉ Brg. S. Abut.	1711+71.14	0.00	659.45	659.45
Bk. S. Abut.	1711+72.39	0.00	659.45	659.45

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	3.00	659.37	659.37
☉ Brg. N. Abut.	1711+03.64	3.00	659.38	659.38
A	1711+13.64	3.00	659.40	659.46
B	1711+23.64	3.00	659.41	659.52
C	1711+33.64	3.00	659.42	659.55
D	1711+43.64	3.00	659.43	659.55
E	1711+53.64	3.00	659.42	659.52
F	1711+63.64	3.00	659.42	659.46
☉ Brg. S. Abut.	1711+71.14	3.00	659.41	659.41
Bk. S. Abut.	1711+72.39	3.00	659.40	659.40

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	9.00	659.28	659.28
☉ Brg. N. Abut.	1711+03.64	9.00	659.28	659.28
A	1711+13.64	9.00	659.30	659.36
B	1711+23.64	9.00	659.32	659.43
C	1711+33.64	9.00	659.33	659.46
D	1711+43.64	9.00	659.33	659.46
E	1711+53.64	9.00	659.33	659.43
F	1711+63.64	9.00	659.32	659.37
☉ Brg. S. Abut.	1711+71.14	9.00	659.31	659.31
Bk. S. Abut.	1711+72.39	9.00	659.31	659.31

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1711+02.39	15.00	659.17	659.17
☉ Brg. N. Abut.	1711+03.64	15.00	659.17	659.17
A	1711+13.64	15.00	659.20	659.25
B	1711+23.64	15.00	659.21	659.32
C	1711+33.64	15.00	659.22	659.35
D	1711+43.64	15.00	659.22	659.35
E	1711+53.64	15.00	659.22	659.32
F	1711+63.64	15.00	659.21	659.26
☉ Brg. S. Abut.	1711+71.14	15.00	659.20	659.20
Bk. S. Abut.	1711+72.39	15.00	659.20	659.20

TOP OF SLAB ELEVATIONS 2
STRUCTURE NO. 027-0099



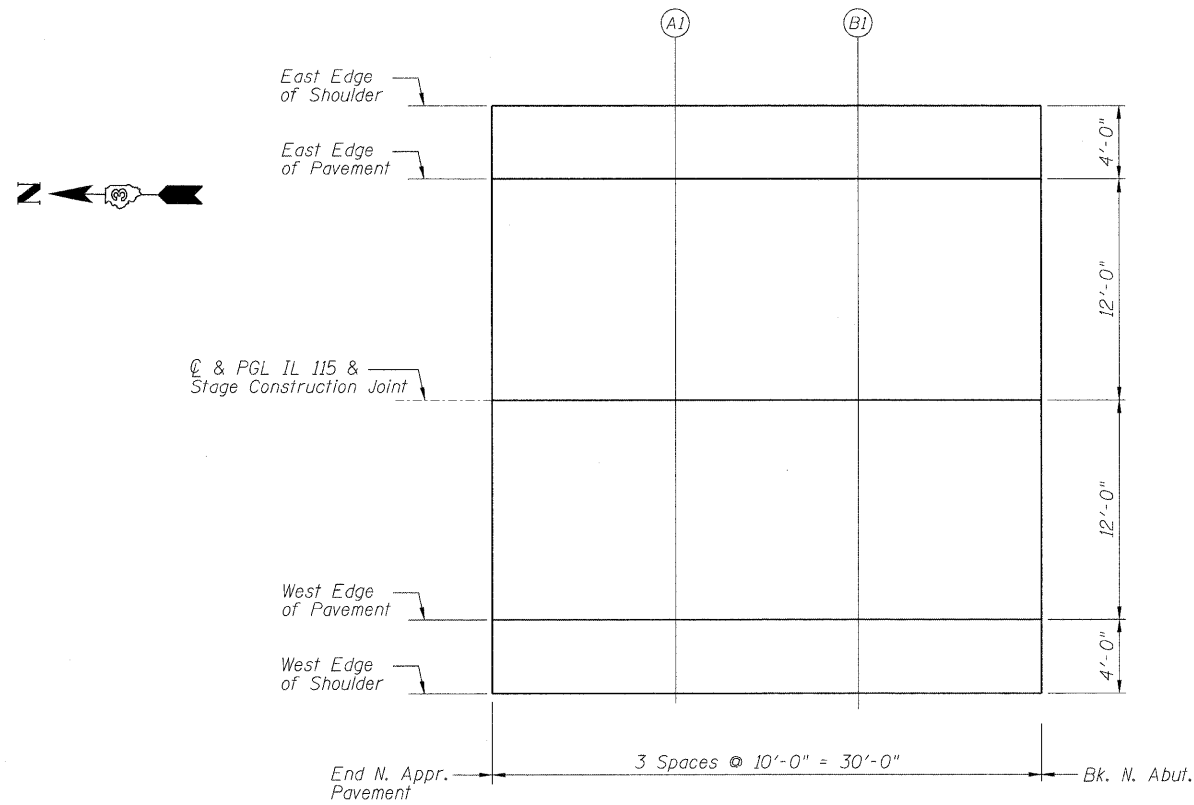
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

SHEET NO. 5 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	16
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
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PLAN FOR TOP OF SLAB ELEVATIONS

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmt.	1710+72.39	-16.00	659.05
A1	1710+82.39	-16.00	659.09
B1	1710+92.39	-16.00	659.12
Bk. N. Abut.	1711+02.39	-16.00	659.15

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmt.	1710+72.39	-12.00	659.13
A1	1710+82.39	-12.00	659.17
B1	1710+92.39	-12.00	659.21
Bk. N. Abut.	1711+02.39	-12.00	659.23

C & PGL IL 115 & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmt.	1710+72.39	0.00	659.32
A1	1710+82.39	0.00	659.36
B1	1710+92.39	0.00	659.39
Bk. N. Abut.	1711+02.39	0.00	659.42

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmt.	1710+72.39	12.00	659.13
A1	1710+82.39	12.00	659.17
B1	1710+92.39	12.00	659.21
Bk. N. Abut.	1711+02.39	12.00	659.23

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pvmt.	1710+72.39	16.00	659.05
A1	1710+82.39	16.00	659.09
B1	1710+92.39	16.00	659.12
Bk. N. Abut.	1711+02.39	16.00	659.15

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Chicago, IL 60613

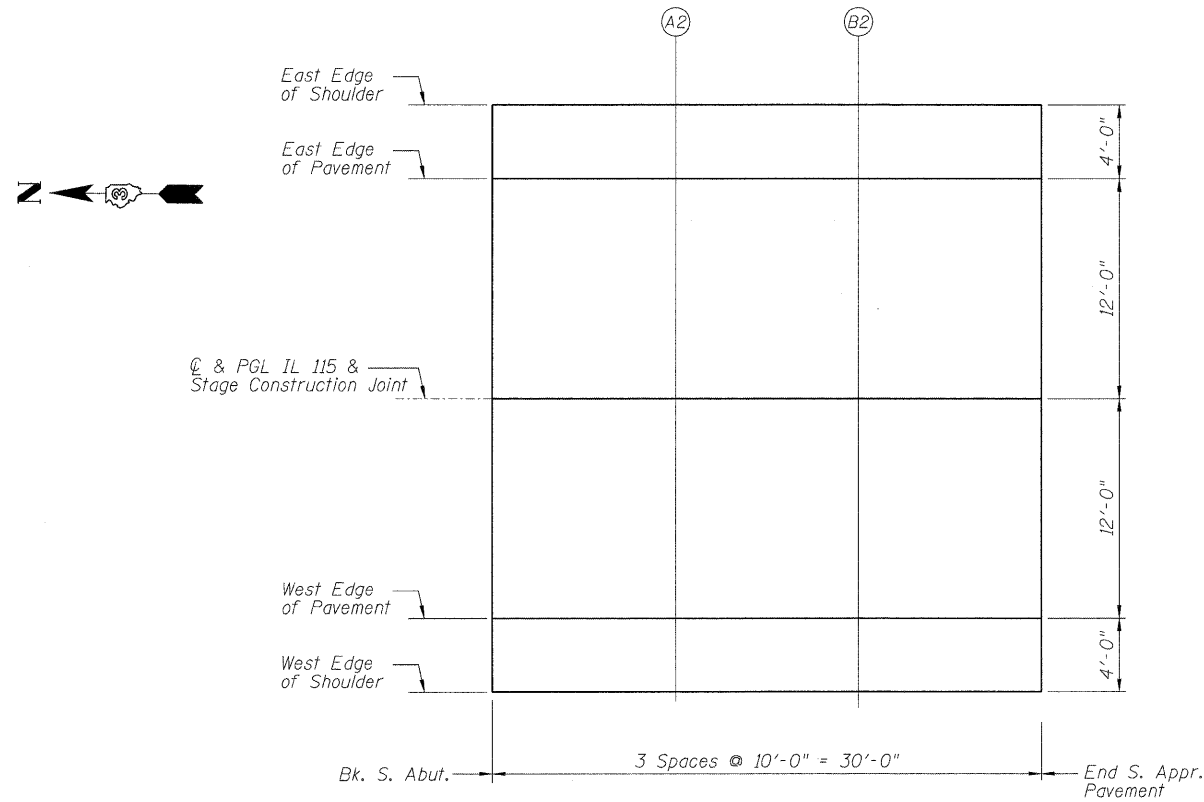
DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

NORTH APPROACH
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 027-0099

SHEET NO. 6 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	17
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN FOR TOP OF SLAB ELEVATIONS

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	1711+72.39	-16.00	659.18
A2	1711+82.39	-16.00	659.16
B2	1711+92.39	-16.00	659.14
End S. Appr. Pvmf.	1712+02.39	-16.00	659.11

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	1711+72.39	-12.00	659.26
A2	1711+82.39	-12.00	659.24
B2	1711+92.39	-12.00	659.22
End S. Appr. Pvmf.	1712+02.39	-12.00	659.19

C & PGL IL 115 & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	1711+72.39	0.00	659.45
A2	1711+82.39	0.00	659.43
B2	1711+92.39	0.00	659.41
End S. Appr. Pvmf.	1712+02.39	0.00	659.38

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	1711+72.39	12.00	659.26
A2	1711+82.39	12.00	659.24
B2	1711+92.39	12.00	659.22
End S. Appr. Pvmf.	1712+02.39	12.00	659.19

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	1711+72.39	16.00	659.18
A2	1711+82.39	16.00	659.16
B2	1711+92.39	16.00	659.14
End S. Appr. Pvmf.	1712+02.39	16.00	659.11

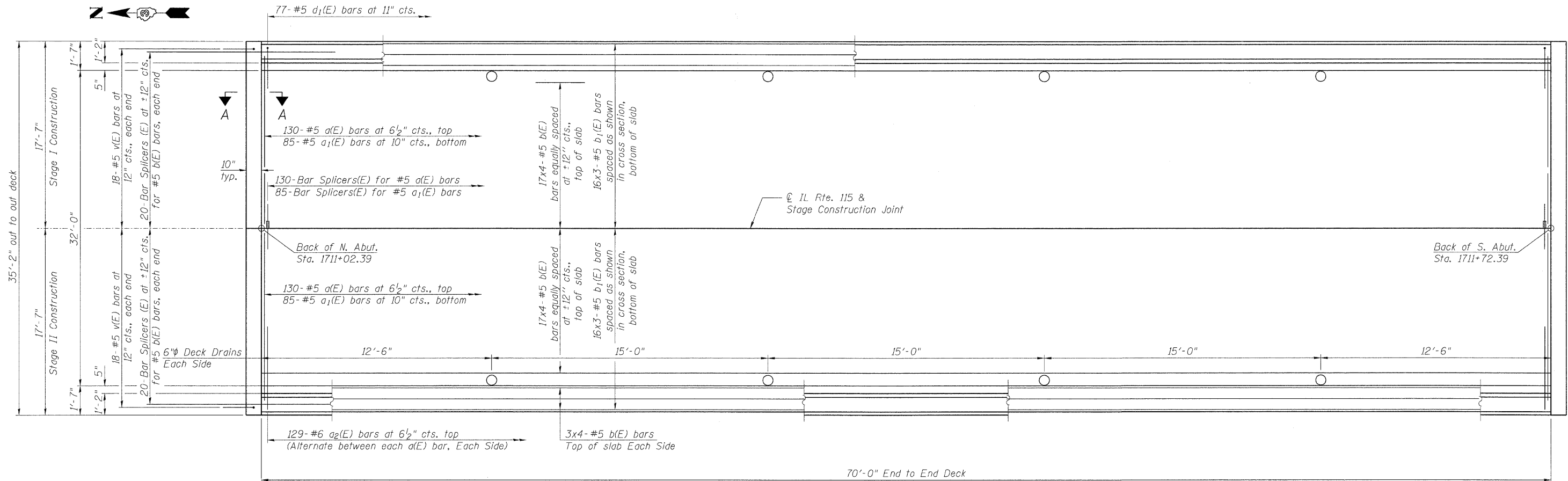
ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

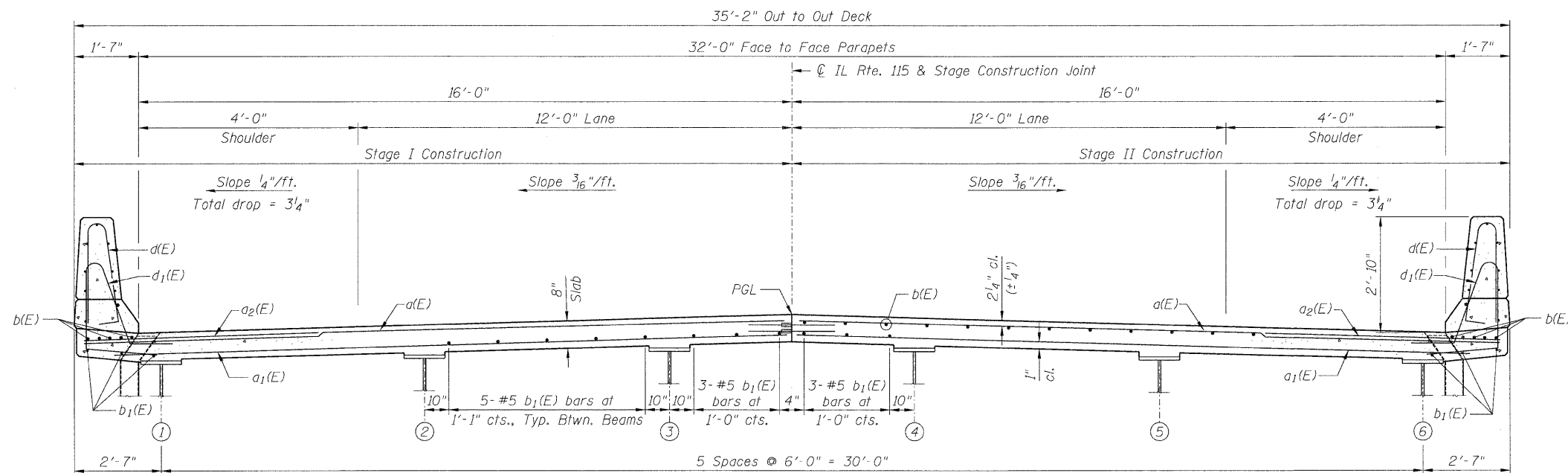
SOUTH APPROACH
TOP OF SLAB ELEVATIONS
STRUCTURE NO. 027-0099

SHEET NO. 7 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	18
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
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PLAN



CROSS SECTION
(Looking South)

SUPERSTRUCTURE PLAN
STRUCTURE NO. 027-0099

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Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	JLA
CHECKED	LAS
DRAWN	SAW
CHECKED	JLA

Notes:
See Sheet 9 of 21 for superstructure details and Bill of Material.
Bars indicated thus 33x4-#5 etc. indicates 33 lines of bars with 4 lengths per line.
See Sheet 9 of 21 for parapet reinforcement.
See Sheet 10 of 21 for Section A-A.

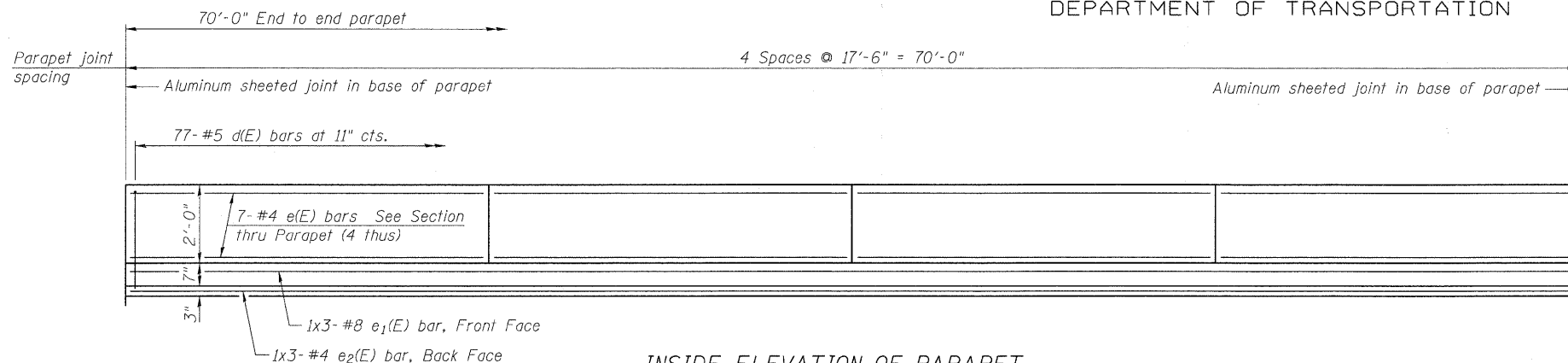
MIN. BAR LAP
#5 Bar = 3'-3"

SHEET NO. 8 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	19
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

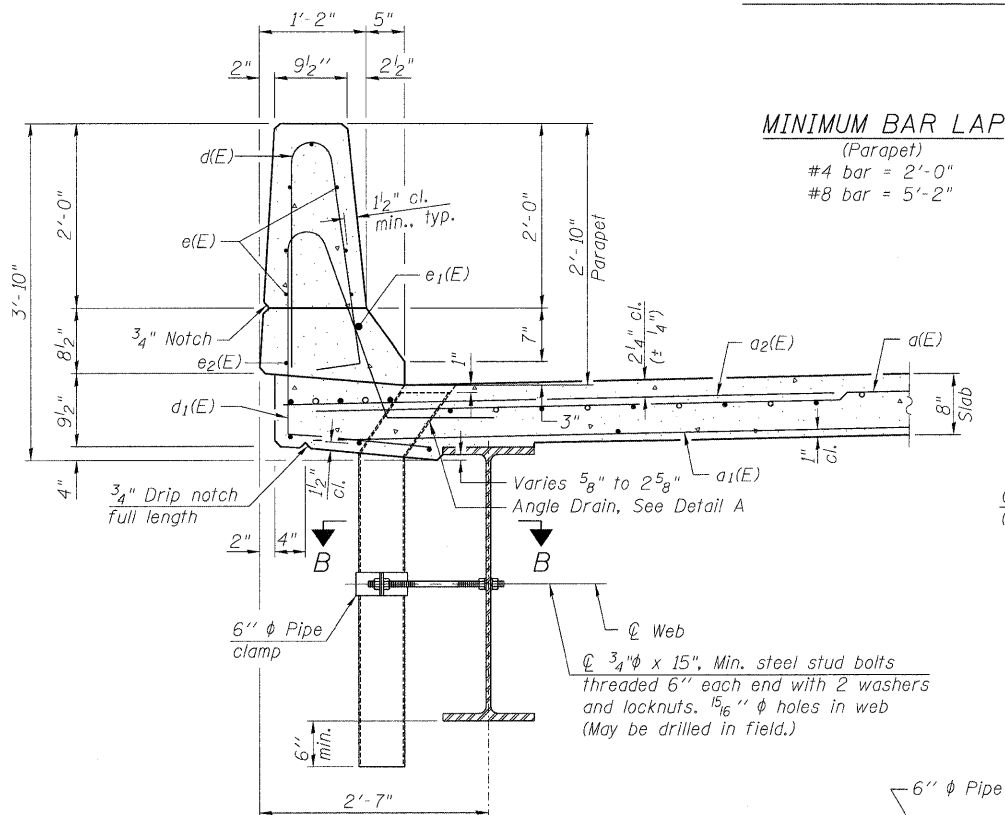
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



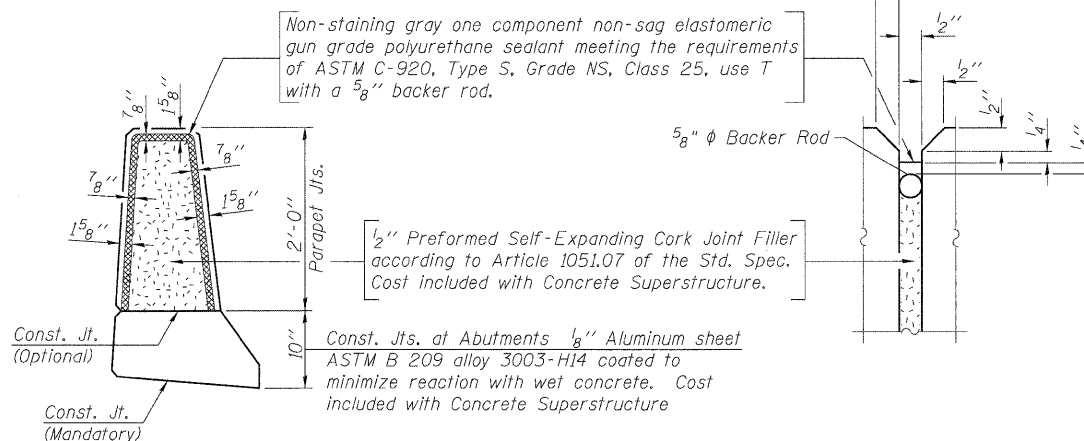
INSIDE ELEVATION OF PARAPET



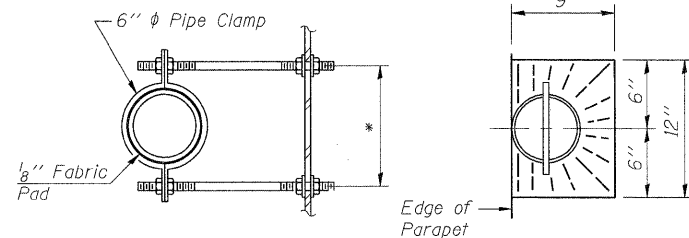
SECTION THRU PARAPET

MINIMUM BAR LAP

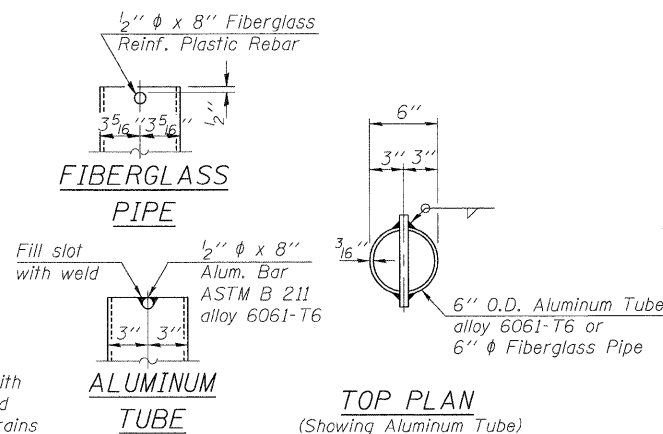
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



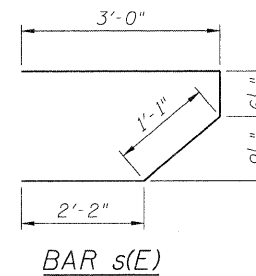
PARAPET JOINT DETAILS



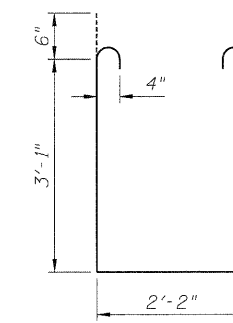
SECTION B-B
*Dimension as required by Pipe Clamp



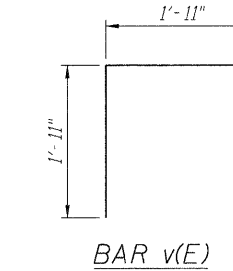
TOP PLAN
(Showing Aluminum Tube)



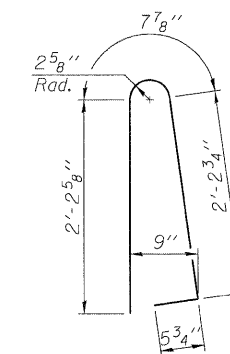
BAR s(E)



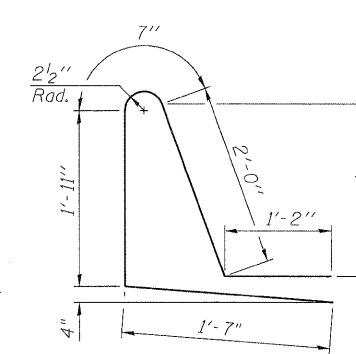
BAR s1(E)



BAR v(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	260	#5	17'-3"	—	
a1(E)	170	#5	16'-9"	—	
a2(E)	258	#6	6'-6"	—	
b(E)	160	#5	19'-11"	—	
b1(E)	96	#5	25'-5"	—	
d(E)	154	#5	5'-7"	⌋	
d1(E)	154	#5	7'-3"	⌋	
e(E)	56	#4	17'-2"	—	
e1(E)	6	#8	26'-8"	—	
e2(E)	6	#4	24'-7"	—	
m(E)	20	#6	17'-3"	—	
m1(E)	24	#6	8'-2"	—	
m2(E)	8	#6	5'-8"	—	
m3(E)	4	#6	2'-3"	—	
m4(E)	4	#6	2'-8"	—	
s(E)	76	#5	6'-10"	⌋	
s1(E)	76	#4	9'-4"	⌋	
v(E)	72	#5	3'-10"	⌋	
Reinforcement Bars, Epoxy Coated				Pound	21,480
Concrete Superstructure				Cu. Yds.	108.2

Bars indicated thus: 1x3-#8 etc. indicates 1 line of bars with 3 lengths per line.

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 027-0099

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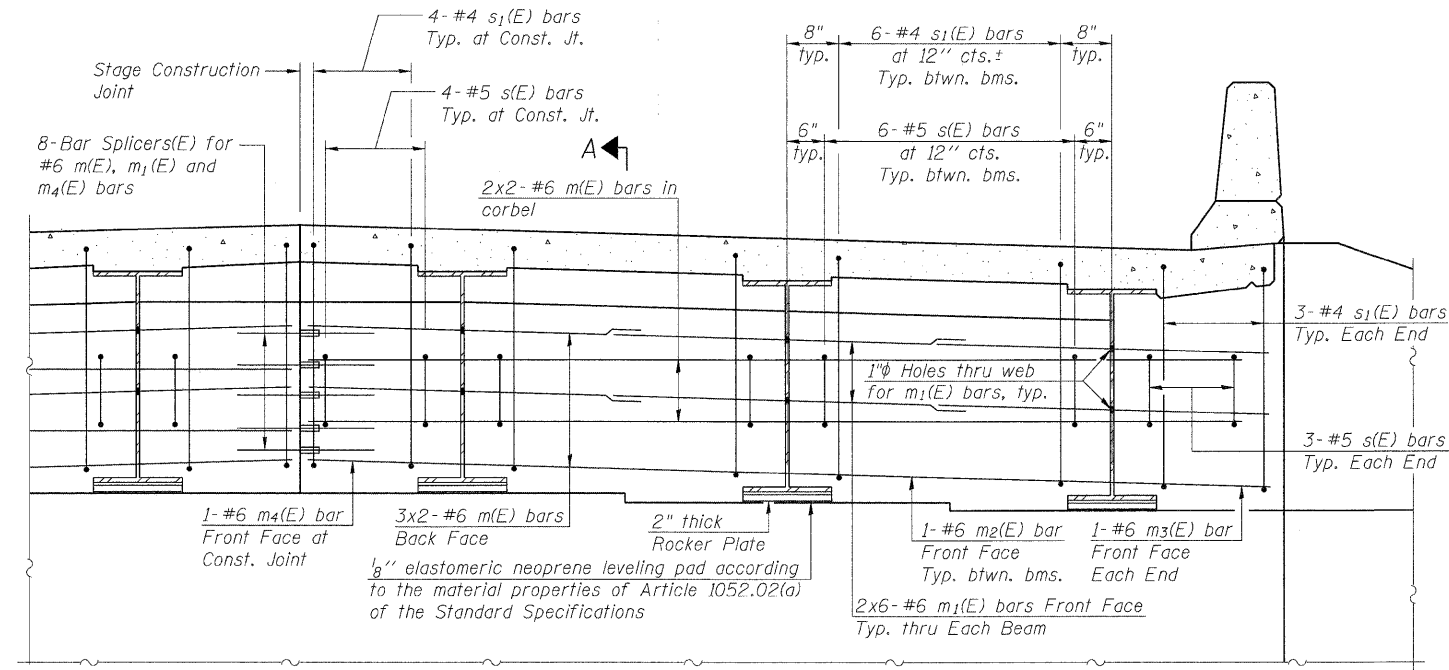
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CHECKED	LAS
DRAWN	SAW
CHECKED	JLA

S-I-D 11-1-09

SHEET NO. 9 OF 21 SHEETS	F.A.P. RTE. 796	SECTION (106)BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 20
	SN 027-0099		CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

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DEPARTMENT OF TRANSPORTATION

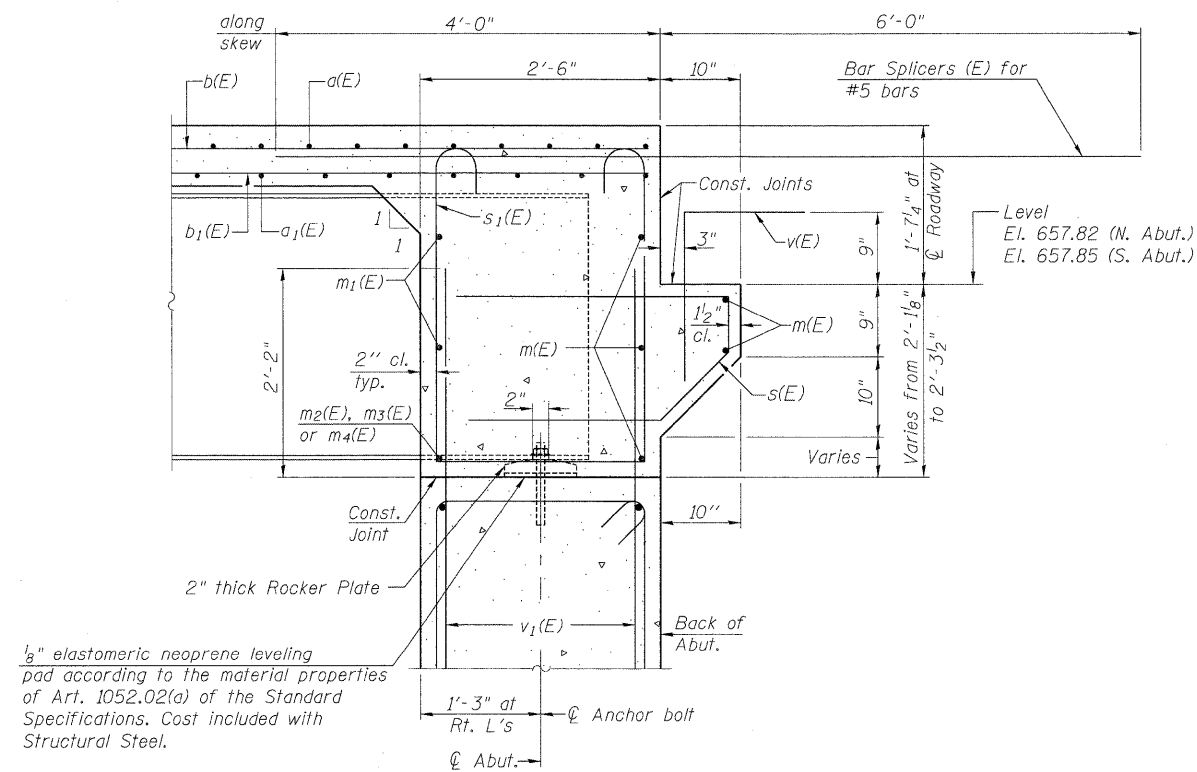


DIAPHRAGM ELEVATION AT ABUTMENT

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 21.
Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 21.
For details of bars s(E), s₁(E) & v(E) see sheet 9 of 21.
The s(E) and s₁(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
For details of bars v₁(E) see sheet 15 of 21 and sheet 16 of 21.

MIN. BAR LAP
#6 bar = 3'-6"



SECTION A-A

Dimensions at right angles to abutment, except as shown.

INTEGRAL ABUTMENT
DIAPHRAGM DETAILS
STRUCTURE NO. 027-0099

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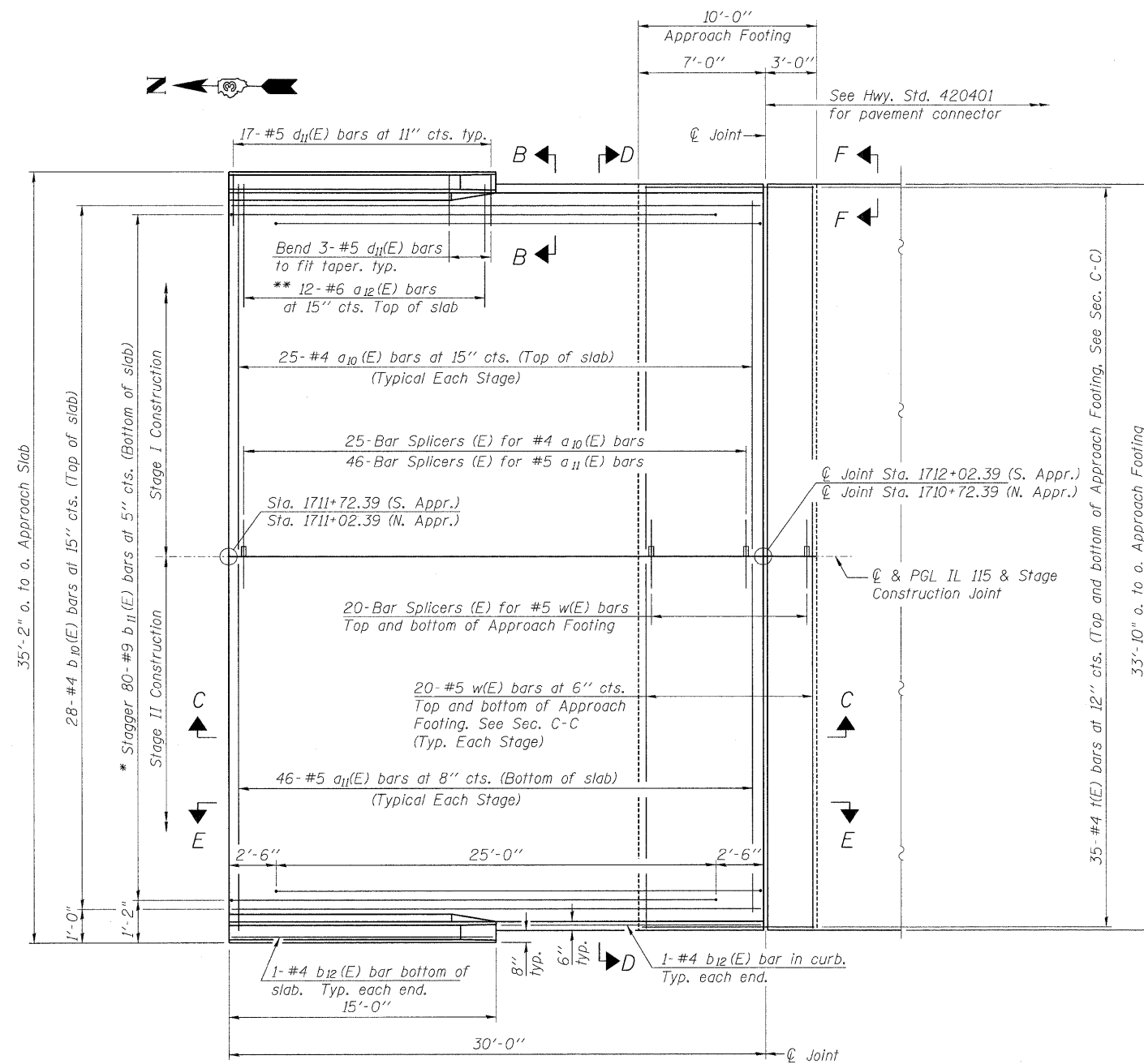
DESIGNED	JLA
CHECKED	LAS
DRAWN	SAW
CHECKED	JLA

SI-DSI 11-1-09

SHEET NO. 10 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	21
		SN 027-0099	CONTRACT NO. 66916		
		FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

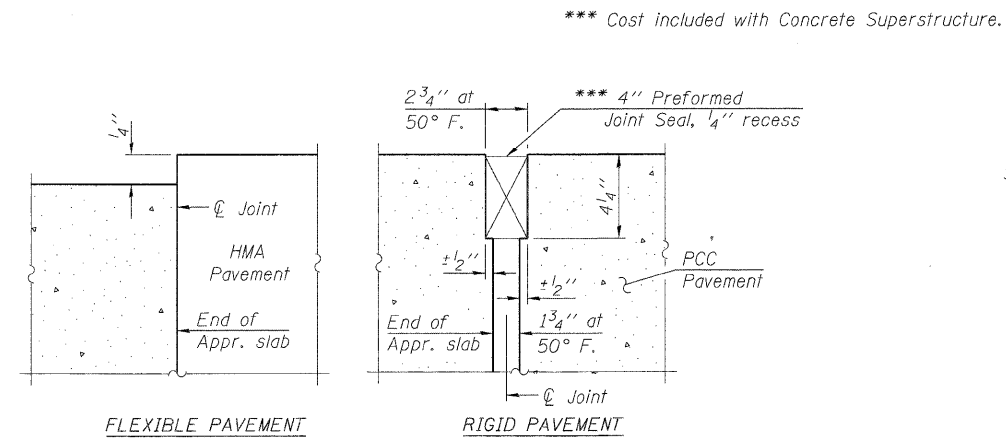
STATE OF ILLINOIS
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Notes:
See sheet 12 of 21 for Sections C-C & D-D and View E-E.
 $a_{10}(E)$ and $a_{11}(E)$ bar spacings measured along C.R.

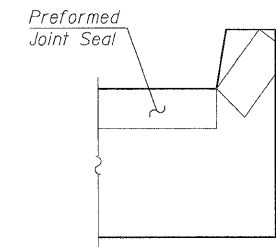
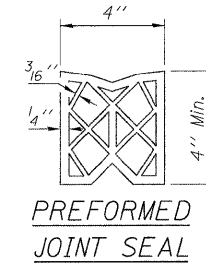


SOUTH APPROACH SLAB PLAN
(North Approach Slab Similar)

* Tilt #9 $b_{11}(E)$ bars as required to maintain clearance.
** Space between $a_{10}(E)$ bars, typ. ea. parapet.

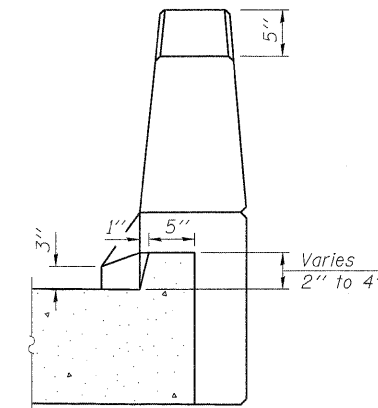


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

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DESIGNED	JLA
CHECKED	LAS
DRAWN	SAW
CHECKED	JLA

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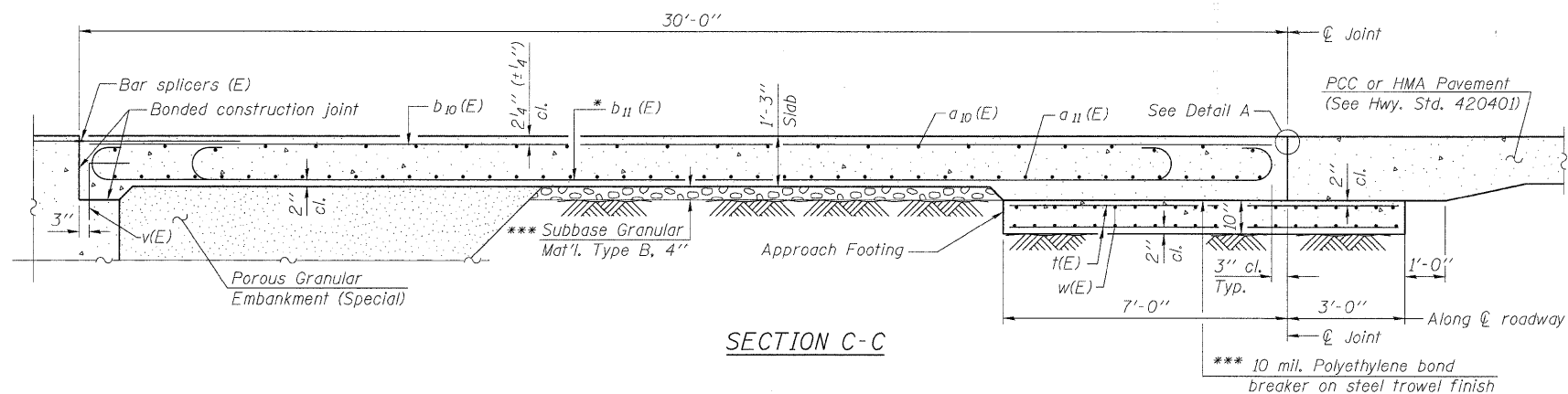
(Sheet 1 of 2)
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 027-0099

SHEET NO. 11 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	22
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 66916		
FED. AID PROJECT					

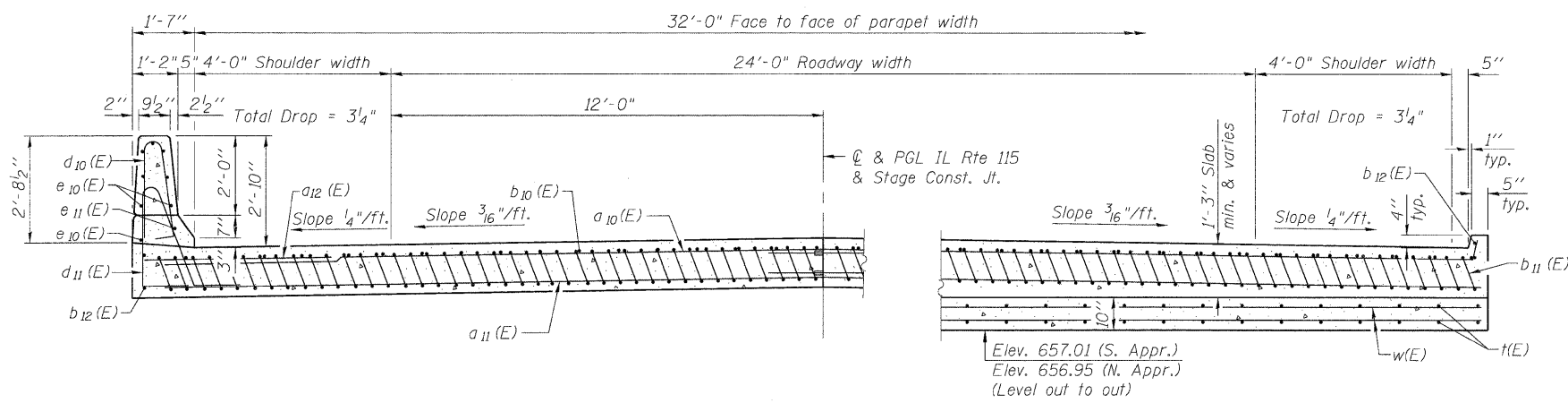
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Notes:

See sheet 11 of 21 for Detail A and View B-B.
Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet 9 of 21.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For bar splicer details, see sheet 17 of 21.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 21.
For additional parapet details, see sheet 9 of 21.



SECTION C-C



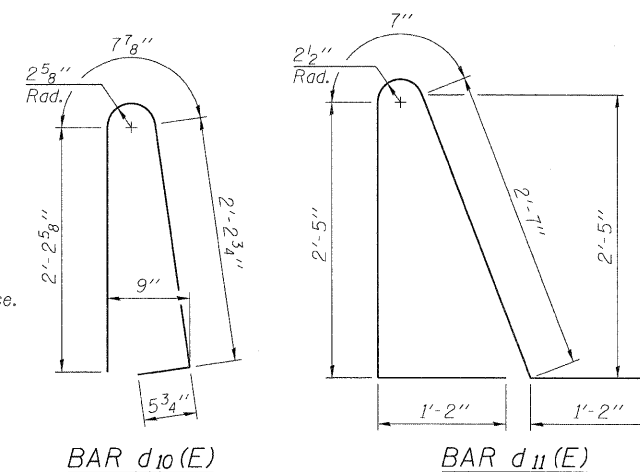
NEAR ABUTMENT

SECTION D-D

AT APPROACH FOOTING

(See Plan for dimensions not shown)

* Tilt #9 b11(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

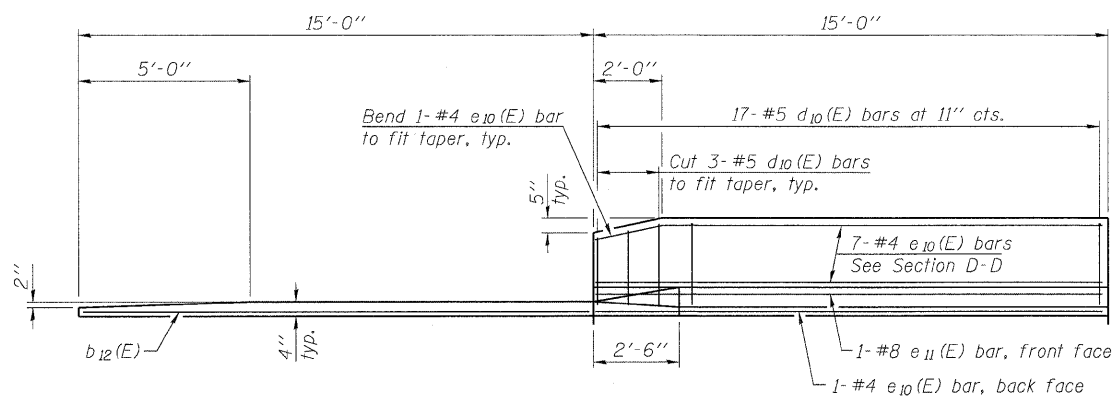


BAR d10(E)

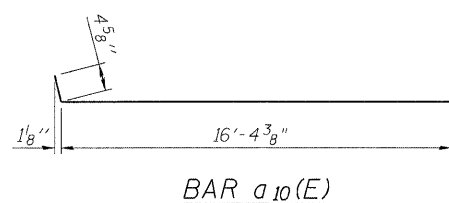
BAR d11(E)

TWO APPROACHES
BILL OF MATERIAL

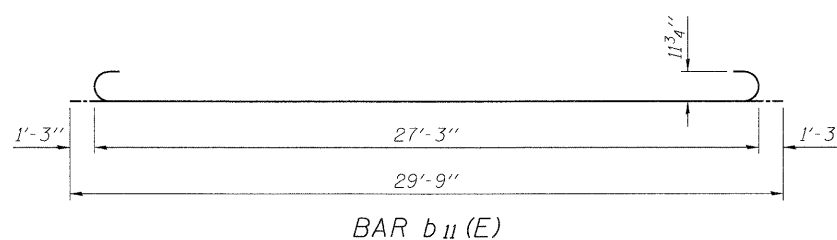
Bar	No.	Size	Length	Shape
a10(E)	100	#4	16'-9"	—
a11(E)	184	#5	16'-7"	—
a12(E)	48	#6	6'-6"	—
b10(E)	56	#4	29'-8"	—
b11(E)	160	#9	29'-9"	—
b12(E)	8	#4	14'-8"	—
d10(E)	68	#5	5'-7"	U
d11(E)	68	#5	7'-11"	U
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t(E)	140	#4	9'-8"	—
w(E)	160	#5	16'-7"	—
Concrete Superstructure		Cu. Yd.	105.9	
Concrete Structures		Cu. Yd.	20.9	
Reinforcement Bars, Epoxy Coated		Pound	27,240	



VIEW E-E



BAR a10(E)



BAR b11(E)

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DESIGNED	JLA
CHECKED	LAS
DRAWN	SAW
CHECKED	JLA

BA-0

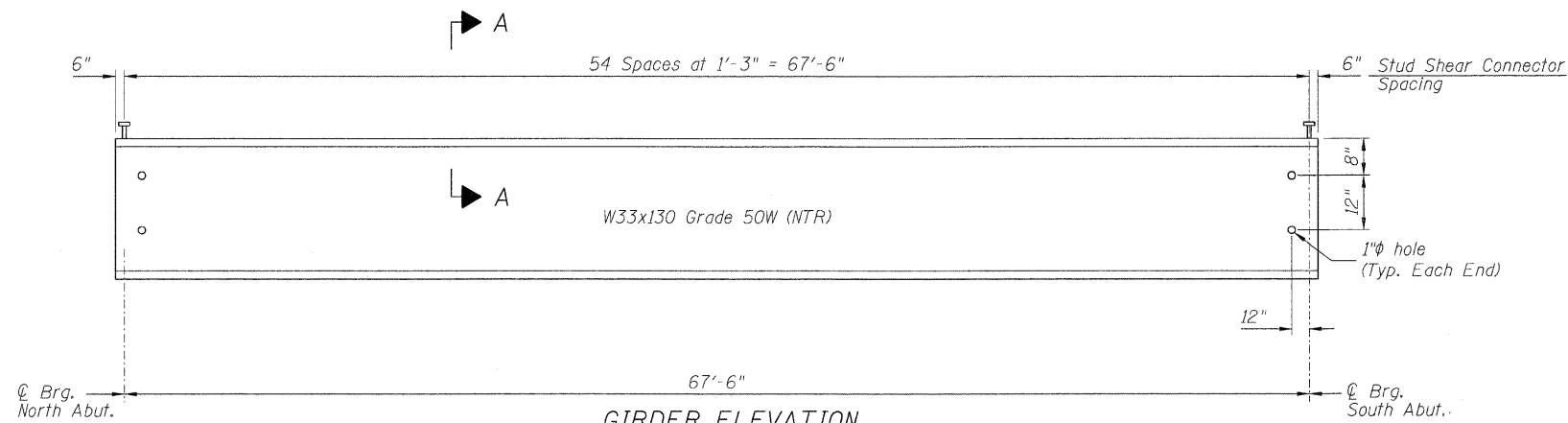
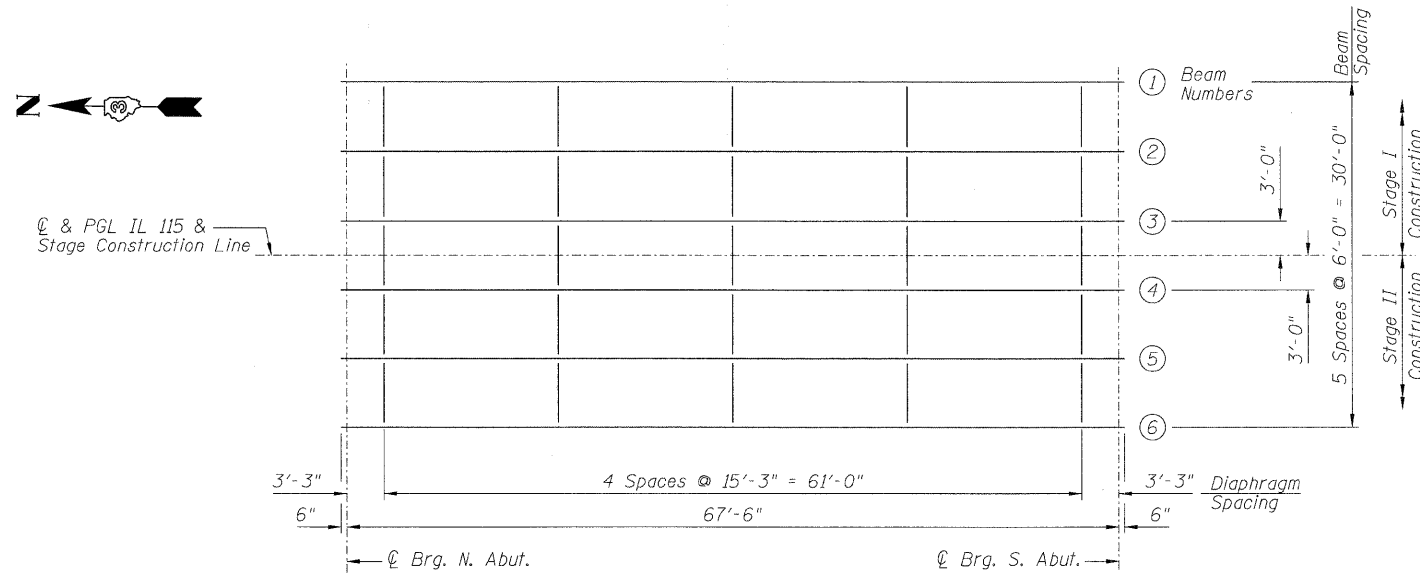
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(Sheet 2 of 2)
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 027-0099

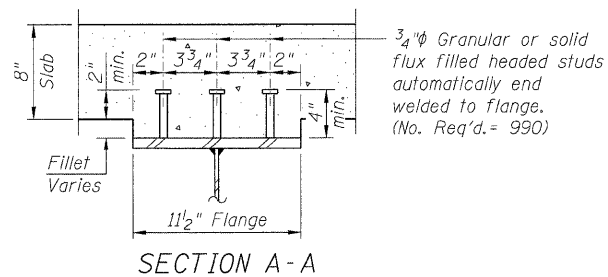
SHEET NO. 12 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	23
SN 027-0099		CONTRACT NO. 66916			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



TOP OF BEAM ELEVATIONS
(For Fabrication Only)

Beam	C Brg. N. Abut.	C Brg. S. Abut.
1	658.47	658.49
2	658.58	658.60
3	658.67	658.70
4	658.67	658.70
5	658.58	658.60
6	658.47	658.49

Notes:

- All dimensions are horizontal.
- End of girders and connection plates shall be vertical.
- Work this sheet with Sheet 14 of 21.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	990

FRAMING PLAN
STRUCTURE NO. 027-0099

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4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

Note:

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

SHEET NO. 13 OF 21 SHEETS	F.A.P. RTE. 796	SECTION (106)BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 24
	SN 027-0099		CONTRACT NO. 66916		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT		

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INTERIOR GIRDER MOMENT TABLE		0.5 Sp. 1
I_s	(in ⁴)	6,710
$I_c(n)$	(in ⁴)	17,995
$I_c(3n)$	(in ⁴)	13,056
S_s	(in ³)	406
$S_c(n)$	(in ³)	598
$S_c(3n)$	(in ³)	537
Z	(in ³)	-
DC1	(k/')	0.790
M _{DC1}	(k)	450
DC2	(k/')	0.15
M _{DC2}	(k)	84
DW	(k/')	0.266
M _{DW}	(k)	152
M _{ℓ + 1M}	(k)	888
M _u (Strength I)	(k)	2,449
* $\phi_r M_n, \phi_r M_{nc}$	(k)	3,040
f_s DC1	(ksi)	13.5
f_s DC2	(ksi)	1.9
f_s DW	(ksi)	3.4
f_s 1.3(ℓ+1M)	(ksi)	23.2
f_s (Service II)	(ksi)	42.0
** f_s (Total)(Strength I)	(ksi)	-
V _r	(k)	22.6

* Compact sections
** Non-Compact and slender sections

INTERIOR GIRDER REACTION TABLE		Abut.
R _{DC1}	(k)	26.6
R _{DC2}	(k)	4.9
R _{DW}	(k)	9.0
R _{ℓ + 1M}	(k)	69.8
R _{Total}	(k)	110.3

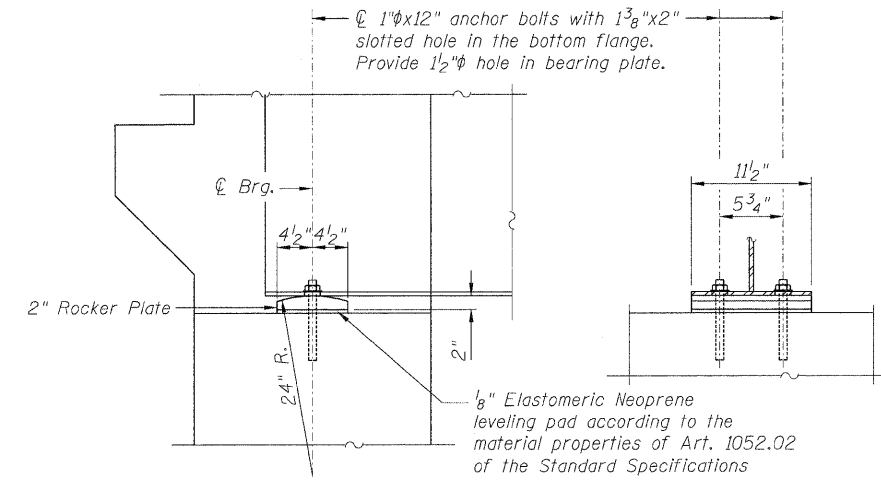
I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).

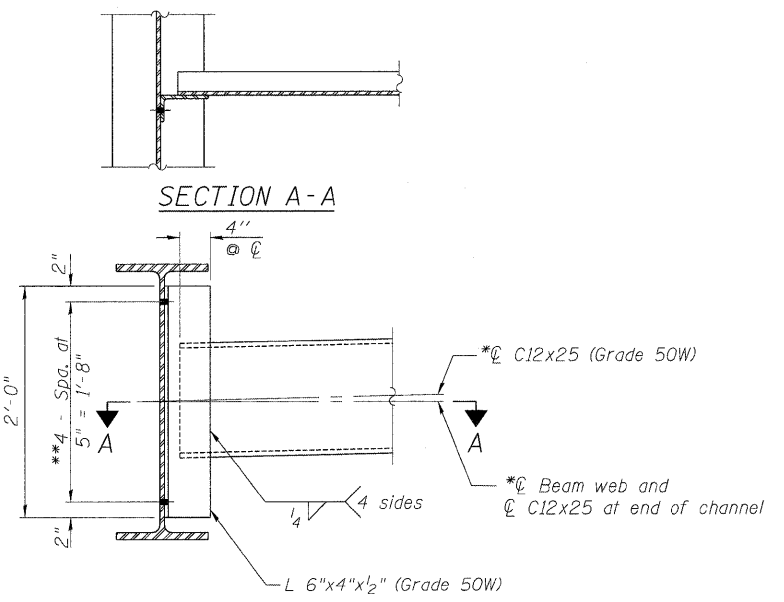
Z: Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (in³).

DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{ℓ + 1M}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\ell + 1M}$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
 $\phi_r M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).
 f_s (Service II): Sum of stresses as computed from the moments below (ksi).
M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{ℓ + 1M}
 f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\ell + 1M}$
V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



ABUTMENT BEARING DETAILS

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.



INTERIOR DIAPHRAGM
(25 Required)

Notes:
Two hardened washers required for each set of oversized holes.
*Alternate channels C12X30 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
**3/4" HS bolts, 1 1/2" holes, except on Beam 4 connection angle use 3/4" HS bolts, 1 3/8" x 1 7/8" holes.
Bolts in slots shall be finger tight until the second stage pour is complete.
Position slots so bolts start at one end with no concrete load and finish near the opposite end under deck load, allowing maximum displacement without laterally stressing main members.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 027-0099

SHEET NO. 14 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	25
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

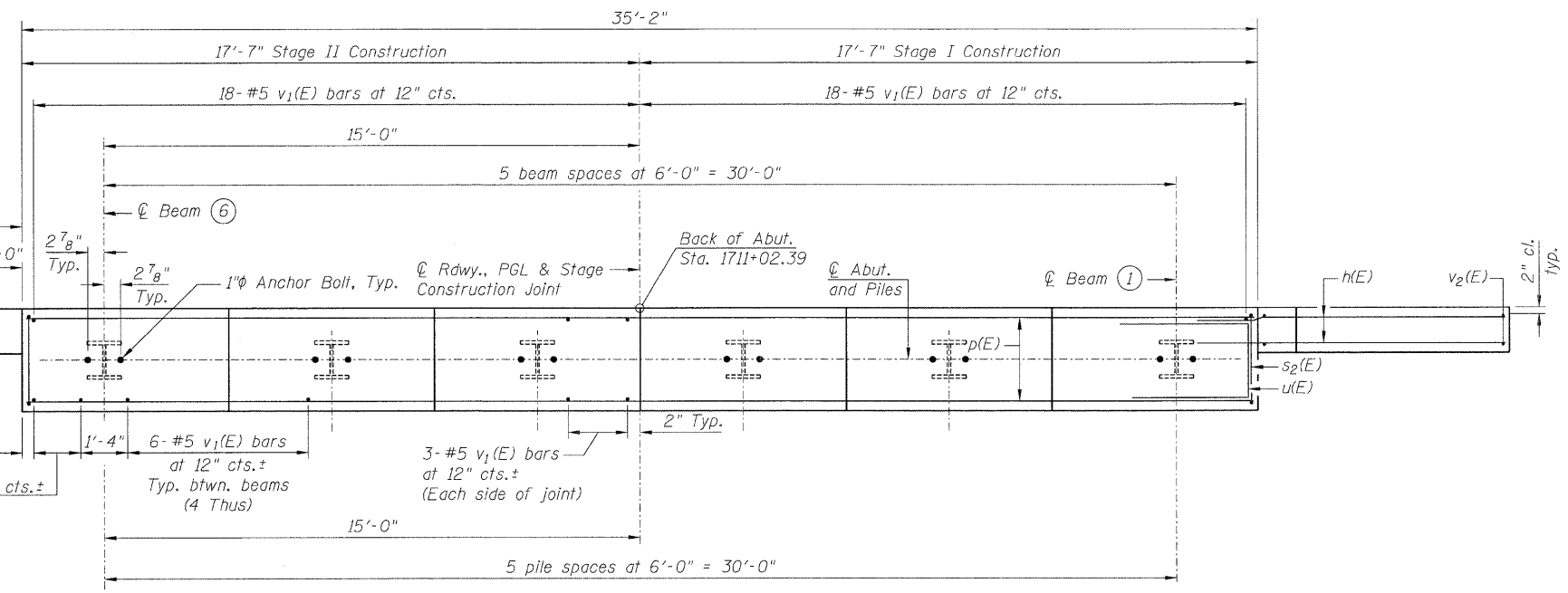
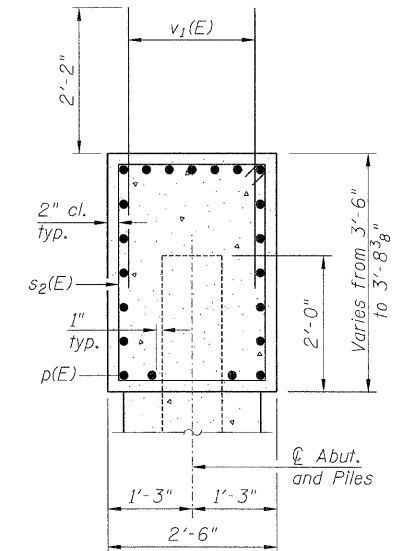
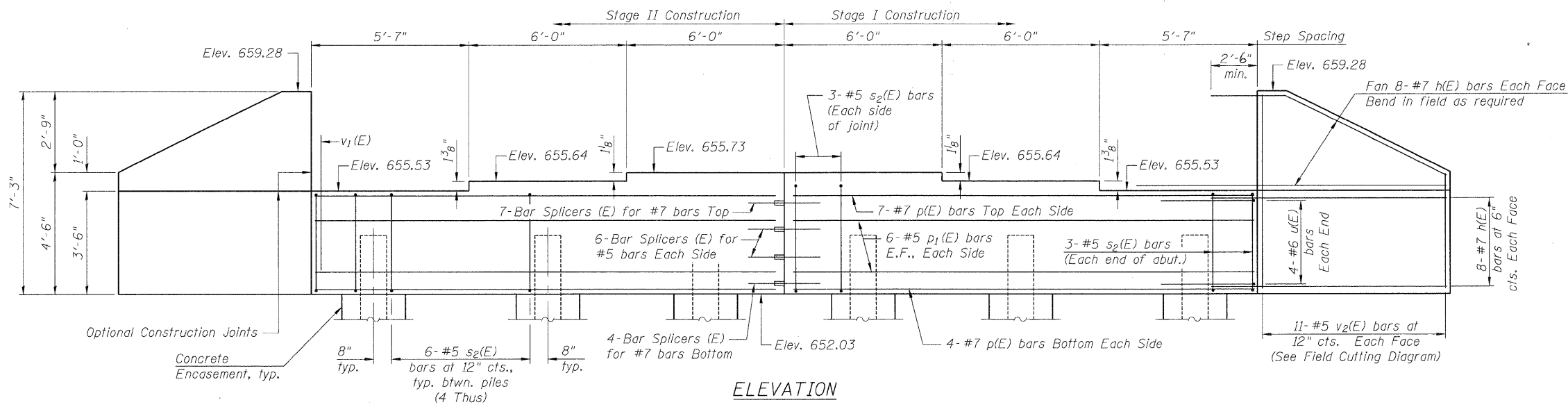
ZROKA
engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

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Notes:
Pour steps monolithically with cap.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	64	#7	12'-11"	—
p(E)	22	#7	17'-3"	—
p ₁ (E)	24	#5	17'-3"	—
s ₂ (E)	36	#5	11'-7"	□
u(E)	8	#6	10'-11"	□
v ₁ (E)	72	#5	4'-4"	—
v ₂ (E)	22	#5	11'-0"	—
Structure Excavation			Cu. Yd.	71
Concrete Structures			Cu. Yd.	16.2
Reinforcement Bars, Epoxy Coated			Pound	4,480
Furnishing Steel Piles, HP12x53			Foot	126
Driving Piles			Foot	126
Concrete Encasement			Cu. Yd.	2.0

For details of Bar Splicers, see sheet 17 of 21.
For details of piles and Concrete Encasement, see sheet 18 of 21.
Space reinforcement in cap to miss anchor bolts.

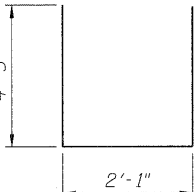
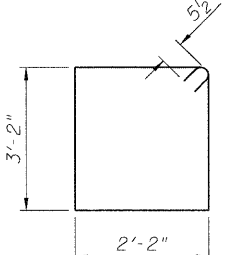
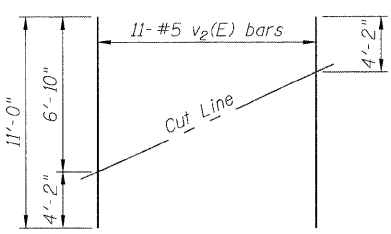
PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 278k
Factored Resistance Available: 153k
Est. Length: 21'
No. Production Piles: 6
No. Test Piles: 0

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Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

AI-0 11-1-09



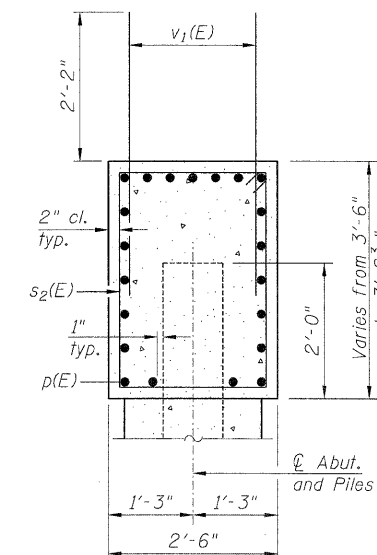
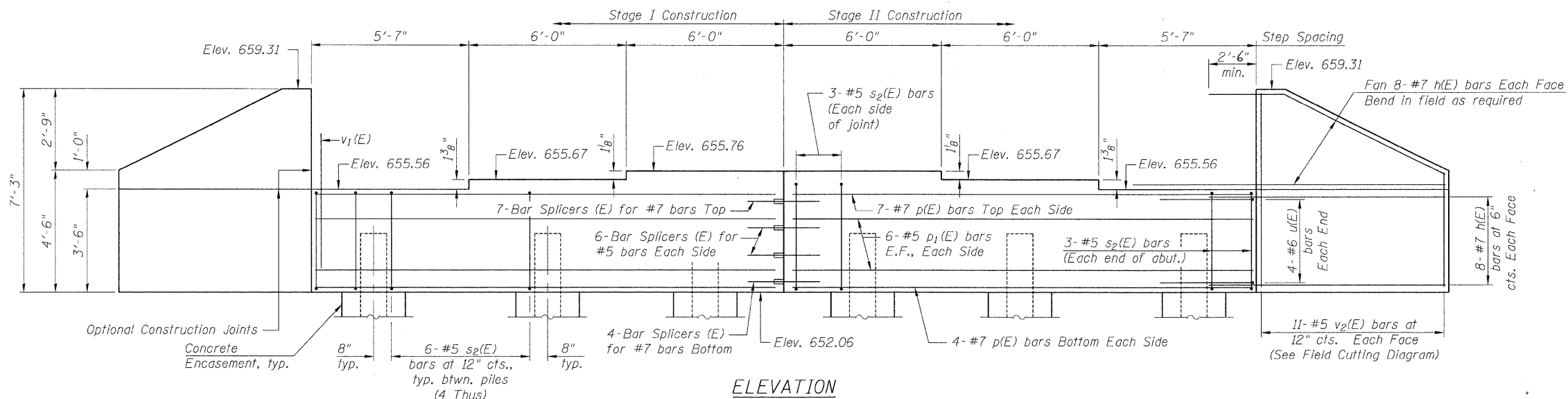
**NORTH ABUTMENT
STRUCTURE NO. 027-0099**

SHEET NO. 15 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	26
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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Notes:
Four steps monolithically with cap.



SEC. THRU ABUT.

BILL OF MATERIAL

Bar No.	Size	Length	Shape
h(E)	#7	12'-11"	—
p(E)	#7	17'-3"	—
p ₁ (E)	#5	17'-3"	—
s ₂ (E)	#5	11'-7"	□
u(E)	#6	10'-11"	L
v ₁ (E)	#5	4'-4"	—
v ₂ (E)	#5	11'-0"	—
Structure Excavation	Cu. Yd.	70	
Concrete Structures	Cu. Yd.	16.2	
Reinforcement Bars, Epoxy Coated	Pound	4,480	
Furnishing Steel Piles, HP12x53	Foot	110	
Driving Piles	Foot	110	
Test Pile, HP12x53	Each	1	
Concrete Encasement	Cu. Yd.	2.0	

For details of Bar Splicers, see sheet 17 of 21.
For details of piles and Concrete Encasement, see sheet 18 of 21.
Space reinforcement in cap to miss anchor bolts.

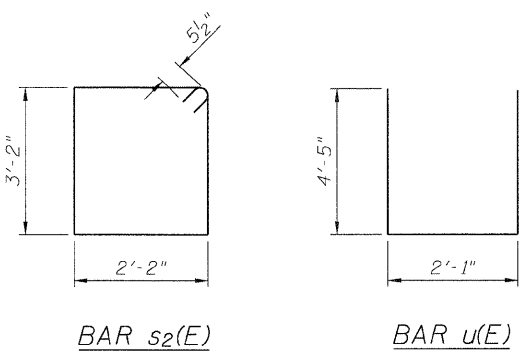
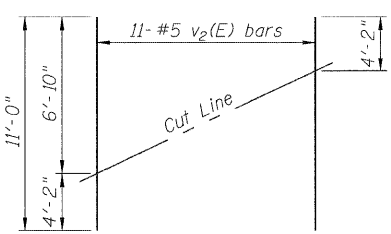
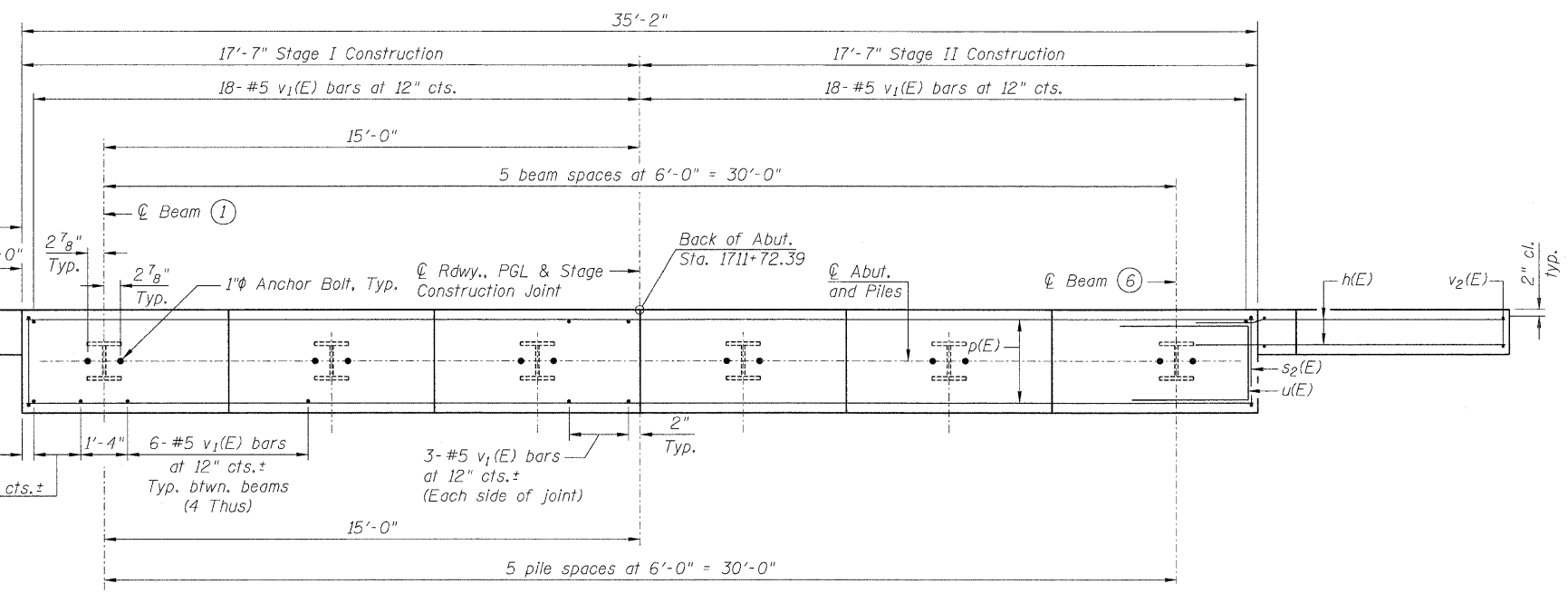
PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 264k
Factored Resistance Available: 145k
Est. Length: 22'
No. Production Piles: 5
No. Test Piles: 1

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4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

AI-0 11-1-09

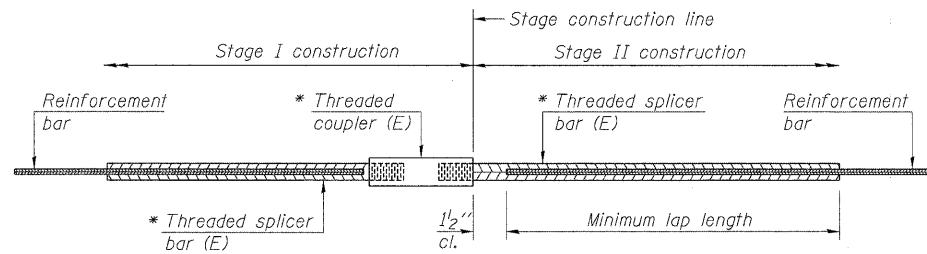


**SOUTH ABUTMENT
STRUCTURE NO. 027-0099**

SHEET NO. 16 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	27
SN 027-0099		CONTRACT NO. 66916			
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT			

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DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

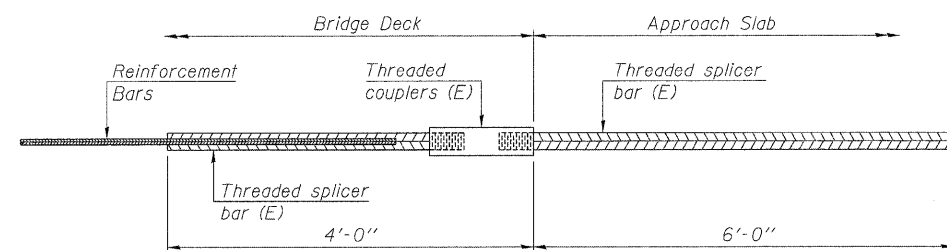
Bar size to be spliced	Minimum Lap Lengths			
	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

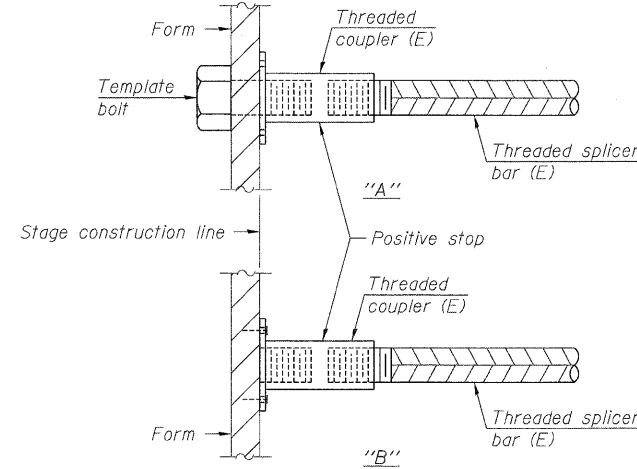
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck a(E) bars	5	130	3
Deck a ₁ (E) bars	5	85	3
2- Approach slabs a ₁₀ (E) bars	4	50	4
2- Approach slabs a ₁₁ (E) bars	5	92	3
2- Approach footings w(E) bars	5	80	3
Abutment Diaphragm m(E), m ₁ (E) & m ₄ (E) bars	6	16	4
Abutment p(E) bars	7	22	4
Abutment p ₁ (E) bars	5	24	4



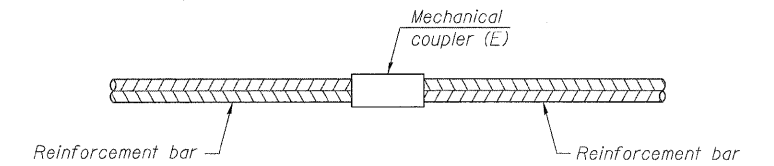
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 80



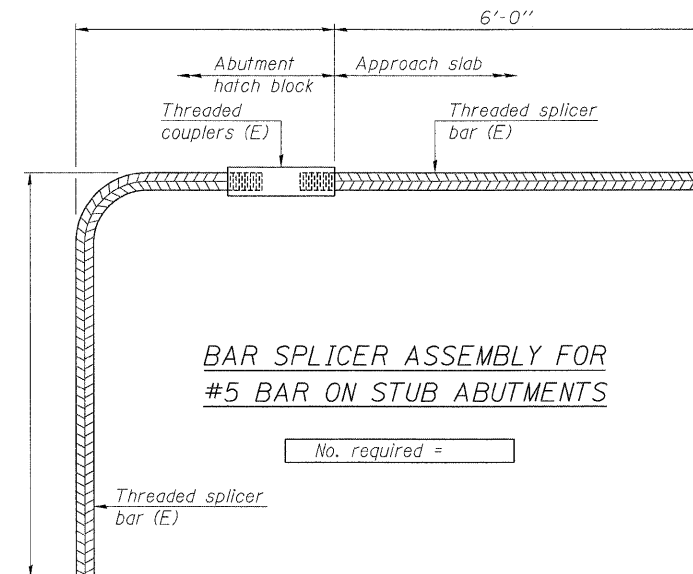
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See special provision for Mechanical Splicers.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 027-0099

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Chicago, IL 60613

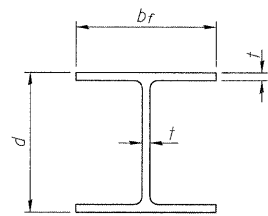
DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

BSD-1 11-1-09

SHEET NO. 17 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	28
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

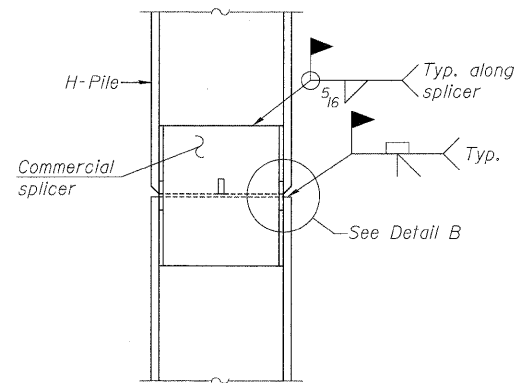
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

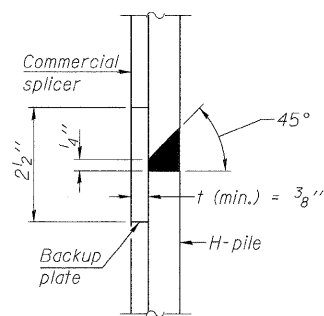


STEEL PILE TABLE

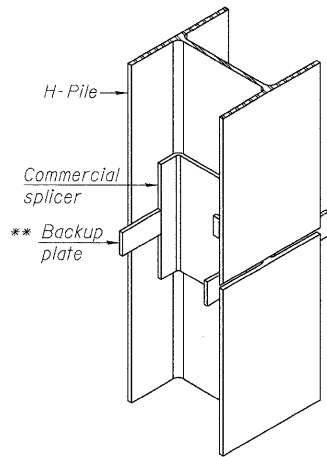
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/6"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/6"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

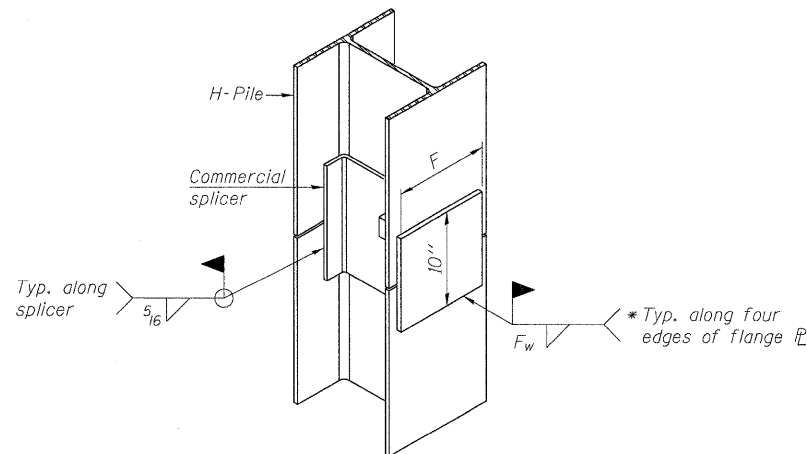


DETAIL "B"



ISOMETRIC VIEW

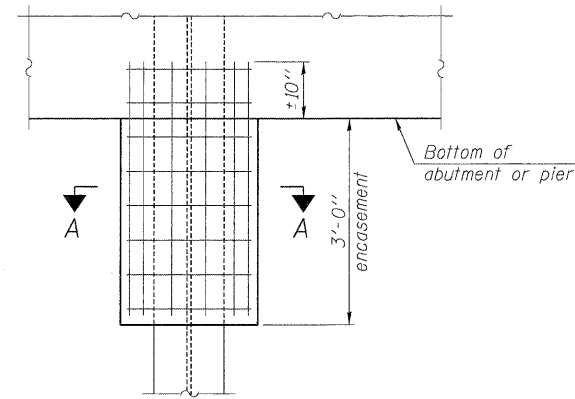
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

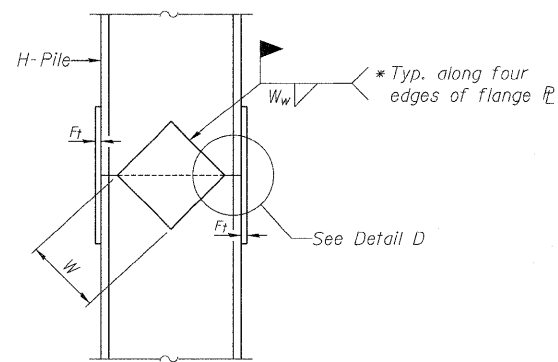
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



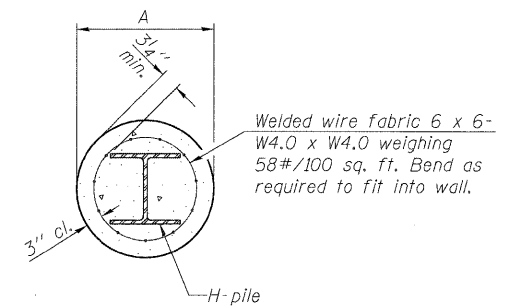
ELEVATION

PILE ENCASEMENT



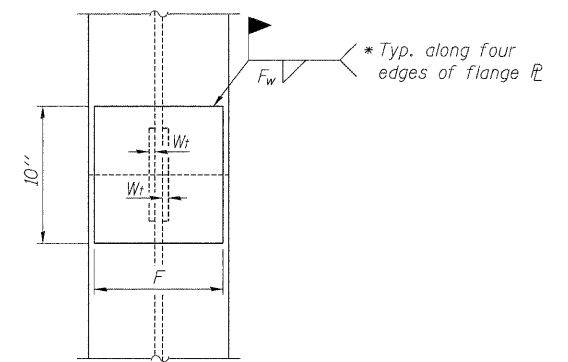
ELEVATION

WELDED PLATE FIELD SPLICE



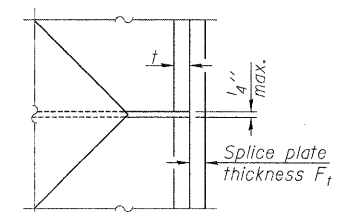
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.



END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 5/8"	1/2"
x89	12 1/2"	3/4"	1/6"	7 3/4"	5 5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 5/8"	1/2"
HP 12x84	10"	7/8"	1/6"	6 1/2"	5 5/8"	1/2"
x74	10"	7/8"	1/6"	6 1/2"	5 5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

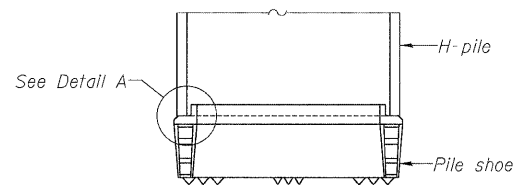


DETAIL D

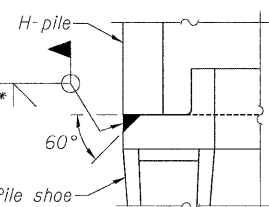
HP PILE DETAILS
STRUCTURE NO. 027-0099

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

SHEET NO. 18 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	29
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

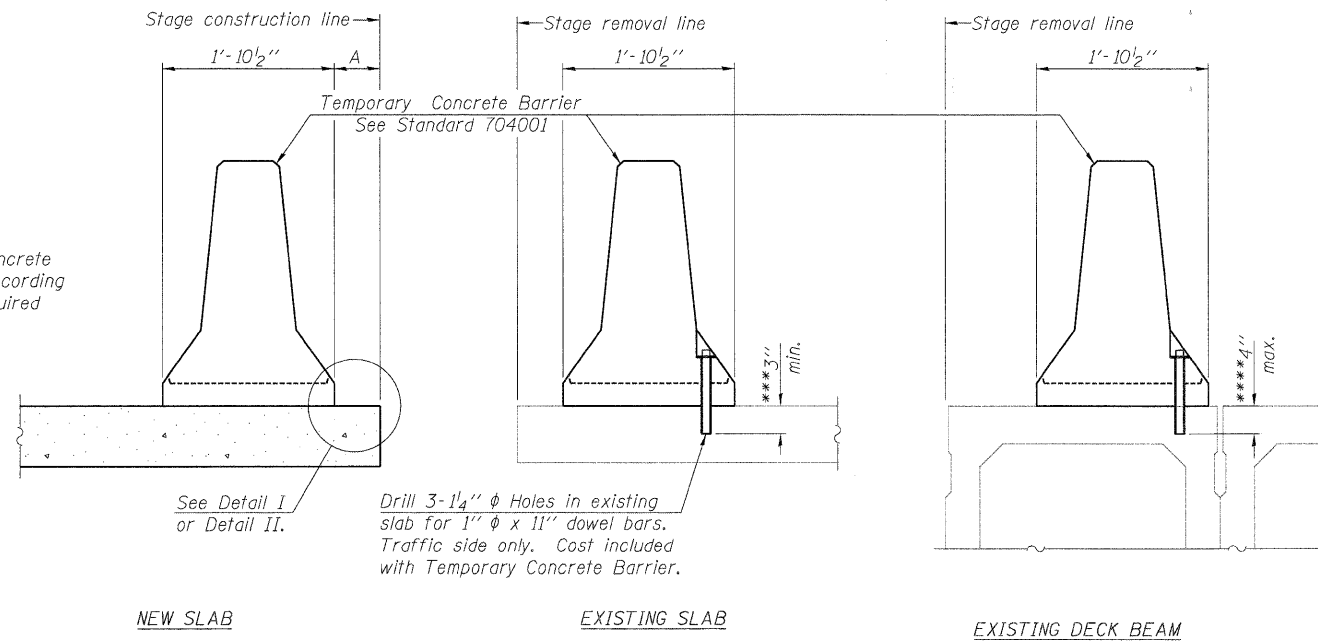
ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

F-HP 11-1-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

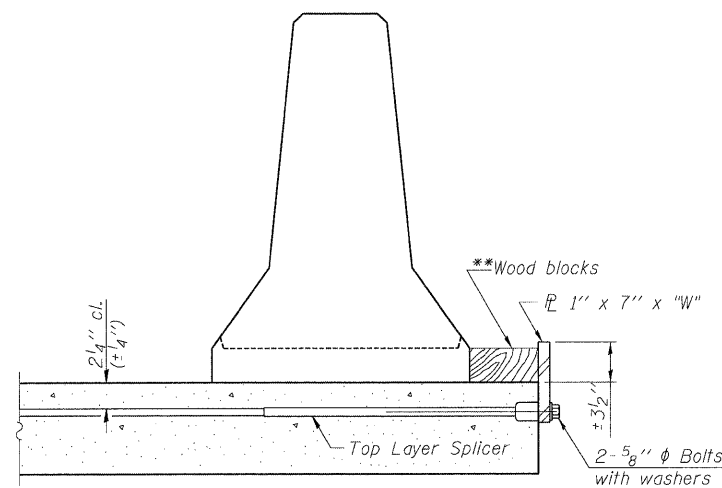
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete slab or concrete wearing surface with 2- $\frac{5}{8}$ " ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

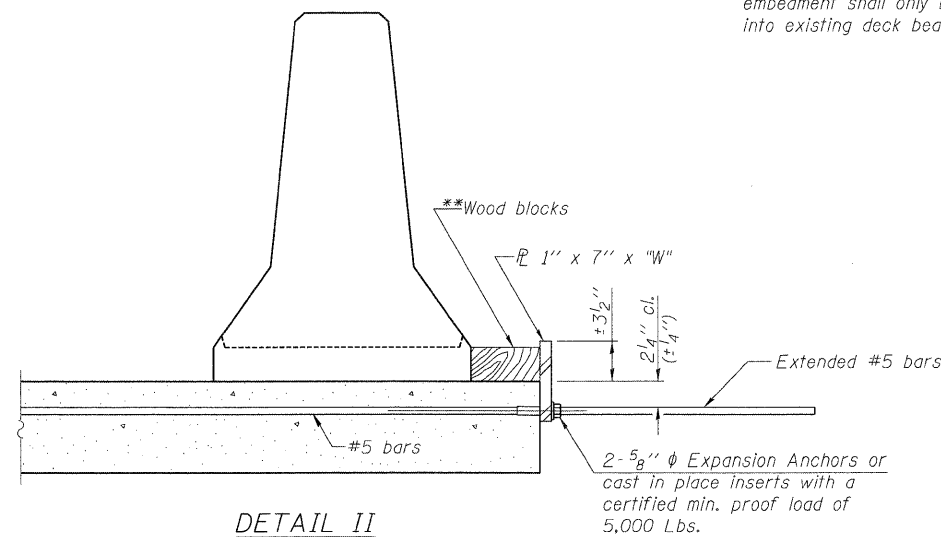
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

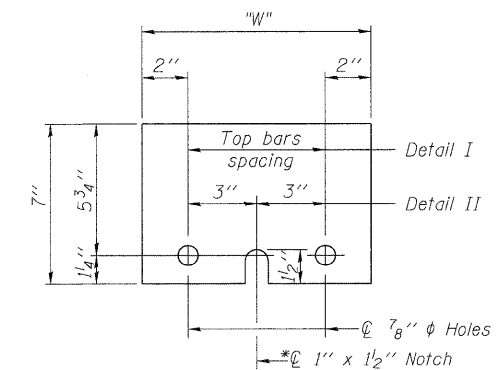
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x 10"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

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DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

R-27

11-1-09

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 027-0099

SHEET NO. 19 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	30
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING B-1 (Page 1 of 2)

Illinois Department of Transportation
Division of Engineering
District #1, Ottawa

SOIL BORING LOG Page 1 of 2
Date 2/24/09

ROUTE FA-796 (IL 115) DESCRIPTION IL 115 over Drainage Ditch LOGGED BY L. Myers
SECTION 106 BR-3 LOCATION East 1/2, SEC. 17, TWP. 27N, RING. 9E, 3rd PM
COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 027- (Prop.)
Station 027-0075 (Exist.)
1711+37.39

BORING NO. 1 (S. About.)
Station 1711+79
Offset 14.00 ft LL
Ground Surface Elev. 857.2 ft

DEPTH (ft)	SOIL DESCRIPTION	DEPT (ft)	BULGE (ft)	U-VALUE (tsf)	M-VALUE (%)
0	Surface Water Elev. 643.15 ft	2			
0	Stream Bed Elev. 642.43 ft	3	2.5	25.1	
	Groundwater Elev.:	5	P		
	First Encounter _____ ft				
	Upon Completion 643.2 ft				
	After _____ Hrs. _____ ft				
1	Augered Bit. Shldr. with CA6 fill & Gray/Green Silty Clay Fill				
2	Very Stiff Brownish Gray Clay Loam Till (continued)	2			
3		3	2.5	25.1	
5		5	P		
6	Medium Brown Fine Sand & Silt	6			
7		7			
8		8			
9		9			
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
19		19			
20		20			
21		21			
22		22			
23		23			
24		24			
25		25			
26		26			
27		27			
28		28			
29		29			
30		30			
31		31			
32		32			
33		33			
34		34			
35		35			
36		36			
37		37			
38		38			
39		39			
40		40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

SOIL BORING B-1 (Page 2 of 2)

Illinois Department of Transportation
Division of Engineering
District #1, Ottawa

SOIL BORING LOG Page 2 of 2
Date 2/24/09

ROUTE FA-796 (IL 115) DESCRIPTION IL 115 over Drainage Ditch LOGGED BY L. Myers
SECTION 106 BR-3 LOCATION East 1/2, SEC. 17, TWP. 27N, RING. 9E, 3rd PM
COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 027- (Prop.)
Station 027-0075 (Exist.)
1711+37.39

BORING NO. 1 (S. About.)
Station 1711+79
Offset 14.00 ft LL
Ground Surface Elev. 857.2 ft

DEPTH (ft)	SOIL DESCRIPTION	DEPT (ft)	BULGE (ft)	U-VALUE (tsf)	M-VALUE (%)
0	Surface Water Elev. 643.15 ft	2			
0	Stream Bed Elev. 642.43 ft	3	2.5	25.1	
	Groundwater Elev.:	5	P		
	First Encounter _____ ft				
	Upon Completion 643.2 ft				
	After _____ Hrs. _____ ft				
1	Hard Gray Silty Clay Loam Till (continued)	2			
3		3	5.8	13.2	
5		5	S		
6	Medium to Dense Gray Fine to Coarse Gravel	6			
7		7			
8		8			
9		9			
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
19		19			
20		20			
21		21			
22		22			
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24		24			
25		25			
26		26			
27		27			
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29		29			
30		30			
31		31			
32		32			
33		33			
34		34			
35		35			
36		36			
37		37			
38		38			
39		39			
40		40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

BORING LOGS 1
STRUCTURE NO. 027-0099

SHEET NO. 20 OF 21 SHEETS	F.A.P. RTE. 796	SECTION (106)BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 31
	SN 027-0099		CONTRACT NO. 66916		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING B-2 (Page 1 of 2)

SOIL BORING B-2 (Page 2 of 2)

Illinois Department of Transportation
Division of Highways
District #1, Office

SOIL BORING LOG Page 1 of 2
Date: 2/25/09

ROUTE: FA-796 (IL 115) DESCRIPTION: IL 115 over Drainage Ditch LOGGED BY: L. Myers

SECTION: 106 BR-3 LOCATION: East 1/2, SEC. 17, TWP. 27N, R14G. 9E, 3rd PM

COUNTY: Ford DRILLING METHOD: Hollow Stem Auger HAMMER TYPE: CME Automatic

STRUCT. NO.: 027- (Prop.)
027-0075 (Exist.)
Station: 1711+37.38

BORING NO.: 2 (N. Abut.)
Station: 1710+97
Offset: 14.000 RL
Ground Surface Elev.: 657.13 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UNCONSOLIDATED SOIL TEST (%)	MOISTURE (%)	SPT (N)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UNCONSOLIDATED SOIL TEST (%)	MOISTURE (%)	SPT (N)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
											ft	ft	ft	ft	ft	ft
0					Augered Bit. Shldr. with CAS Fill, Brown/Green Silty Clay Fill	3					643.15	642.43				
3					Hard to Very Stiff Brown Silty Clay Loam Till with layers of Brown Silt/Silty Clay (continued)	4	3.2			14.8						
4						4										
634.63					Medium Brown Fine Sand & Silt with Free Water	5				24.3						
6						6										
11						11										
632.63					Dense Brown Fine/Medium Sand with some Fine Sand/Silt layers (Washed sample at 25')	8										
8						16				18.8						
16						24										
2						9										
2						13				19.8						
2						17										
-10						19										
1						25				20.9						
1						34										
645.63					Hard Gray Silty Clay Loam Till	10										
4					Hard Gray Silty Loam Till with layers of Gray Silt	8	4.8			19.1						
5						10										
7						11										
-15						8	4.8			17.0						
5						12										
7						12										
11						5										
7						7	6.4			12.7						
11						7										
640.13					Hard to Very Stiff Brown Silty Clay Loam Till with layers of Brown Silt/Silty Clay	4										
4						5	4.4			20.3						
5						6										
6						5										
-20						5										

Illinois Department of Transportation
Division of Highways
District #1, Office

SOIL BORING LOG Page 2 of 2
Date: 2/25/09

ROUTE: FA-796 (IL 115) DESCRIPTION: IL 115 over Drainage Ditch LOGGED BY: L. Myers

SECTION: 106 BR-3 LOCATION: East 1/2, SEC. 17, TWP. 27N, R14G. 9E, 3rd PM

COUNTY: Ford DRILLING METHOD: Hollow Stem Auger HAMMER TYPE: CME Automatic

STRUCT. NO.: 027- (Prop.)
027-0075 (Exist.)
Station: 1711+37.38

BORING NO.: 2 (N. Abut.)
Station: 1710+97
Offset: 14.000 RL
Ground Surface Elev.: 657.13 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UNCONSOLIDATED SOIL TEST (%)	MOISTURE (%)	SPT (N)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UNCONSOLIDATED SOIL TEST (%)	MOISTURE (%)	SPT (N)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
											ft	ft	ft	ft	ft	ft
2					Hard Gray Silty Clay Loam Till (continued)	2										
5						5	4.1			15.8						
6						6										
615.13					Hard Brown Silty Loam/ Silty Clay Loam Till, Brittle	7										
7						15	9.4			8.2						
15						21										
21						17										
17						13	>11.5			8.2						
30						43										
43						31										
-30						38	>11.5			7.6						
31						58										
38						5										
58						9				13.0						
5						19										
9						7										
-35						10				20.5						
7						22										
10						22										
22																
600.63					End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

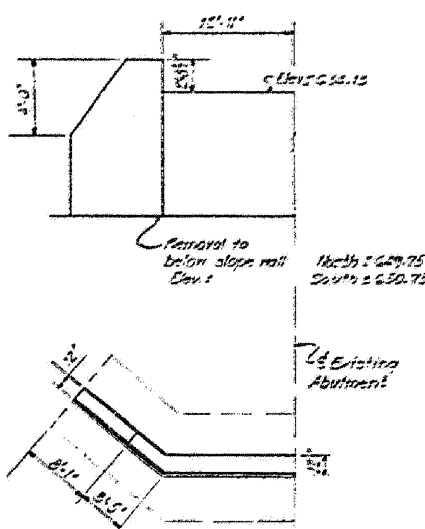
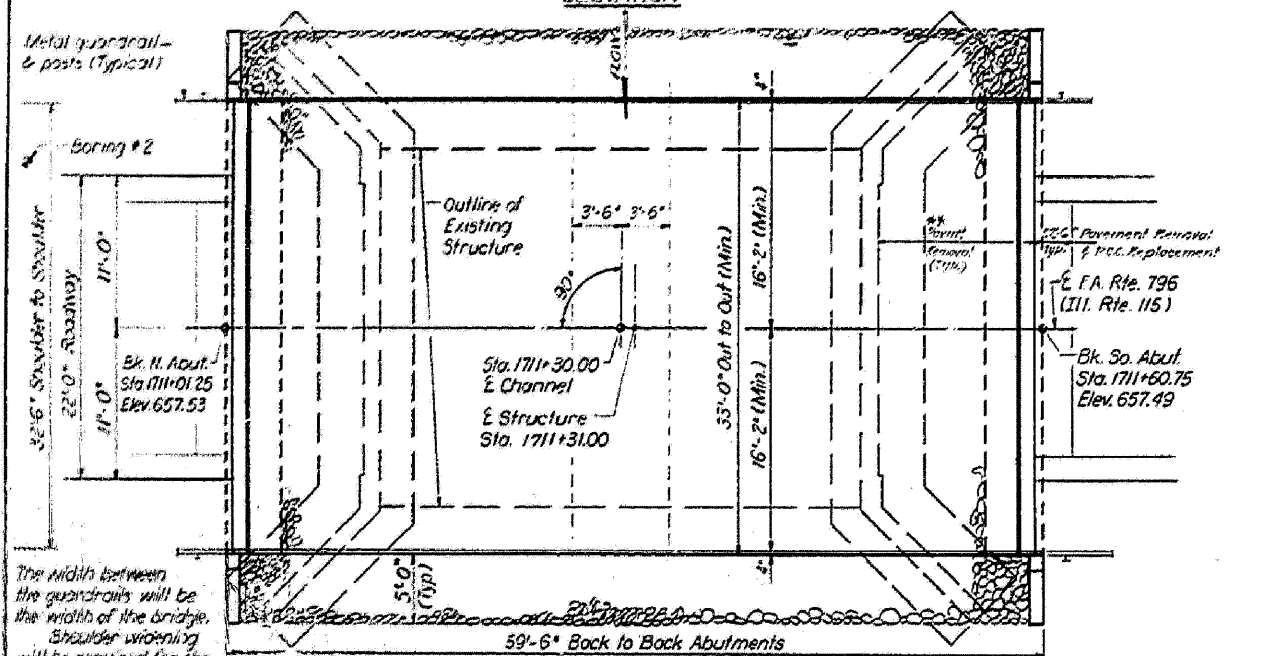
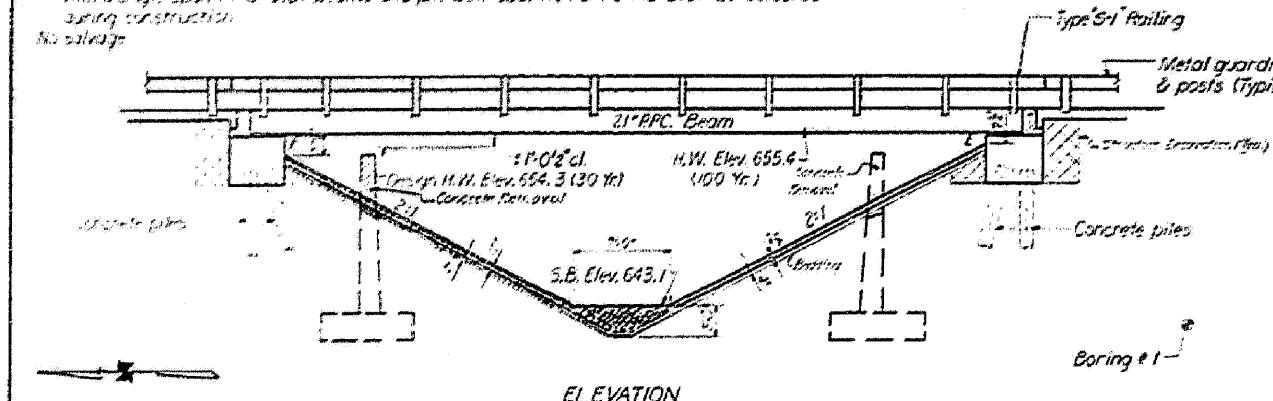
BORING LOGS 2
STRUCTURE NO. 027-0099

SHEET NO. 21 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	32
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

Plan View of 21" x 21" spaced cross on N.E. Highway, Elev. 656.55.
 Existing Structure No. 027-0037, built as S.B.I. Rte. 115, Sec. 106-B, Sta. 1711+31 in 1927. The RC third girder single 45' span
 20'-0" wide superstructure in P.C. closed abutments shall be removed and replaced
 with a single span P.C. deck beams and pile bent abutments. Traffic shall be detoured
 during construction.
 No salvage.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
027-0037	(106) BR-3	FORD	48	33



GENERAL NOTES

All structural steel shall be shop primed with two coats of zinc lead silico chromate paint.

Expansion joints which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to general construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary adjustments. Such adjustments shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications, except that the surface shall not be completed by troweling. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of beams shall be rounded to a minimum of 1/2".

The Contractor shall drive one concrete test pile in a permanent location at the North Abutment, as directed by the Engineer before ordering the remainder of piles.

For boring data see Appendix.

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

++ Pavement removal behind existing abutments shall be incidental to removal of existing superstructures.

STATION 1711+31
 BUILT 19 BY
 STATE OF ILLINOIS
 F.A. RT. 796 SEC. 106 BR-3
 LOADING HS 20
 * STR. NO. PROJECT 02-F-796(4)

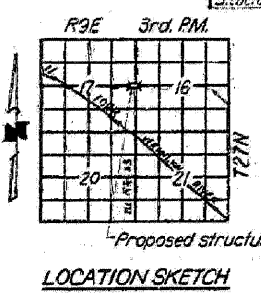
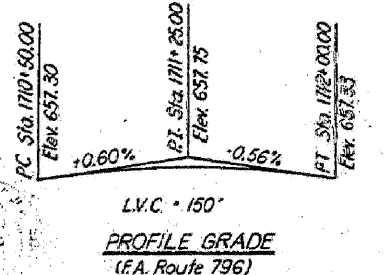
NAME PLATE
 See Sta. 2113
 * Structures Number to be supplied by District.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Superstructures	Each	1		1
Reinforced Concrete Surface Course, Class 2	Ton	27		27
Concrete Removal	Cu Yd	76		76
Class X Concrete	Cu Yd	6.5		6.5
Reinforcement Bars	Pound	290	2900	3190
Structural Steel	Pound	2370		2370
Concrete Piles	Lin. Ft.	557		557
Test Pile (Concrete)	Each	1		1
Pavement Removal (P.C. Pavement Type 2, 10")	Sq. Yd	12		12
Name Plates	Each		1	1
Stone Riprap	Sq. Yd.	267		267
Preformed Jt. Sp. (2")	Lin. Ft.	33		33
Precast Prestressed Conc. Deck Em. (2")	Sq. Ft.	1871		1871
Steel Railing Type S-1	Lin. Ft.	112		112
P.C. Mortar Rating 255	Sq. Ft.	567		567
Waterproofing Membrane System	Sq. Yd.	210		210
Structure Erection	Cu. Yd.	72		72

LOADING HS 20-44
 Design Specifications: 1977 AASHTO and 1978, 1979 & 1980
 Interim Specifications as applicable.
 Allow 25# / Sq. Ft. for future wearing surface.

DESIGN STRESSES
PRECAST PRESTRESSED UNITS
 f_c = 5,000 p.s.i.
 f_o = 48,000 p.s.i.
 f_s = 270,000 p.s.i. (2# Strands)
 f_{si} = 189,000 p.s.i. (1/2# Strands)
FIELD UNITS
 f_c = 3,500 p.s.i.
 f_y = 60,000 p.s.i. (Reinforcement)



GENERAL PLAN AND ELEVATION
F.A. ROUTE 796 OVER
DRAINAGE DITCH
F.A. ROUTE 796 SECTION 106 BR-3
FORD COUNTY
STATION 1711+31.00

PLAN WATERWAY INFORMATION

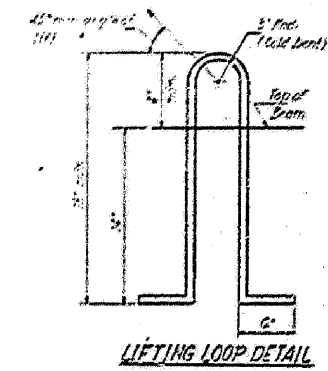
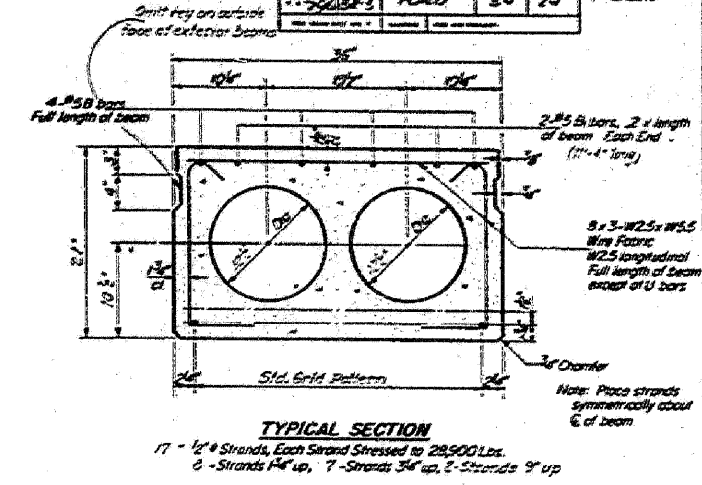
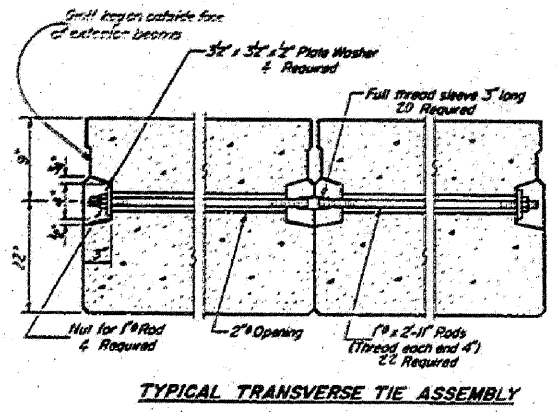
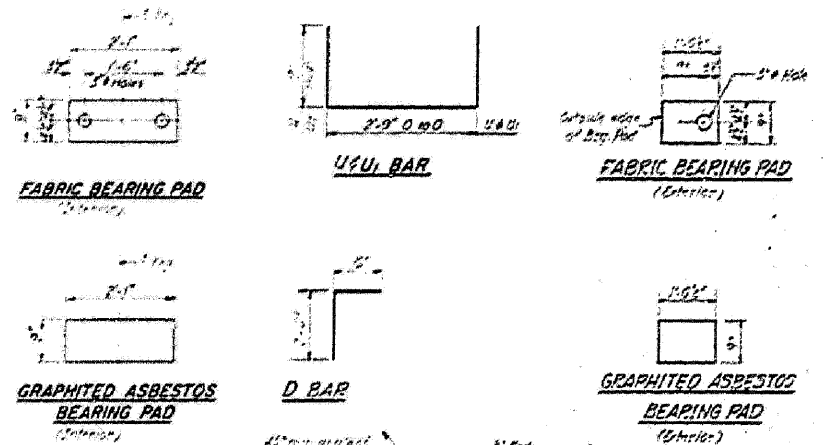
Flow	Downstream Area		Upstream Area		Head - Ft.	Woodwater El.
	Sq. Ft.	C.F.S.	Sq. Ft.	C.F.S.		
Design	30	517	300	380	6.849	0
Base	100	453	373	373	6.564	0
Overlapping	310	824	373	373	6.564	0.12
Max. G.C.	300	824	373	373	6.564	0.12

DESIGNED: J. A. Maloney
 CHECKED: P. M. Maloney
 DRAWN: J. A. Maloney
 CHECKED: P.M.P.

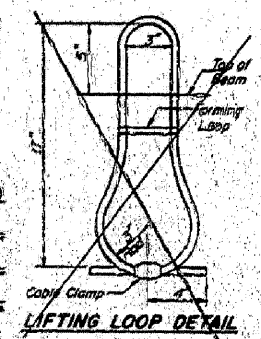
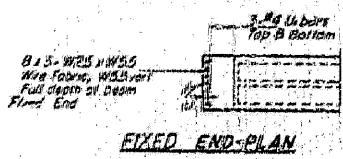
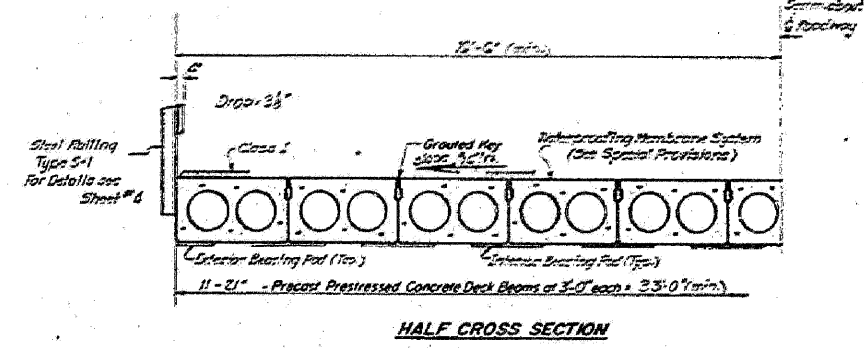
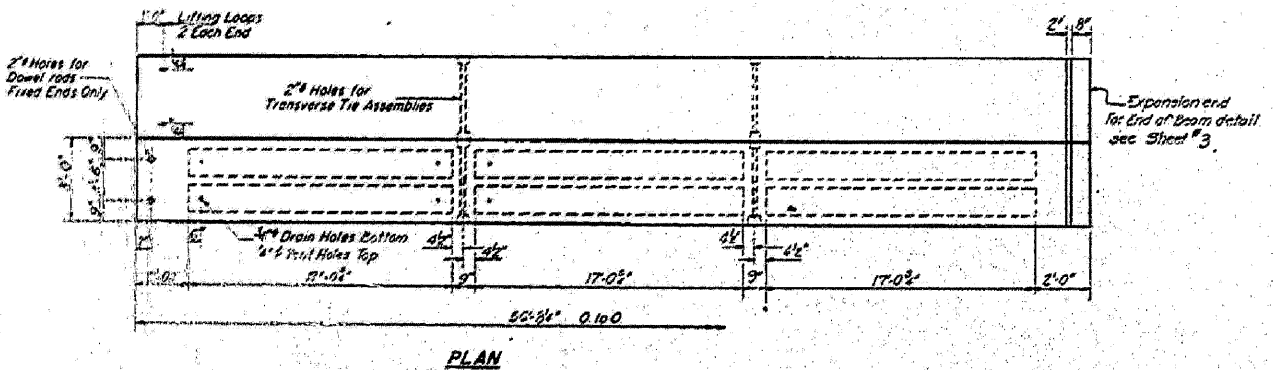
DATE: 09/03/10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	796	SECTION	BR-3	SHEET NO.	2
7 SHEETS					



67' 7 1/2"



DESIGNED: E.A. Holzman
CHECKED: Peter M. Pappas
DRAWN: [Signature]
CHECKED: P.M.P.

EXAMINED: [Signature]
PAID: [Signature]
APPROVED: [Signature]

PD-3-S 8-1-79

NOTES

Prestressing steel shall be non-galvanized, high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 5" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs. or 2" x 4" 270 ksi strands as shown. The 1/2" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to AASHTO M-31 or M-51, Grade 60. The bearing and splices shall be adjusted by shimming to assure full contact bearing. No 4" fabric adjusting strips of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

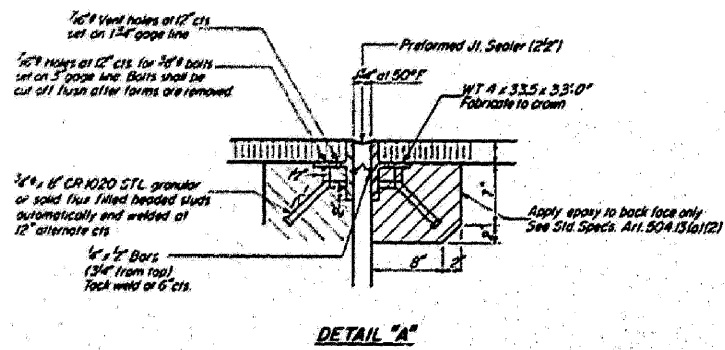
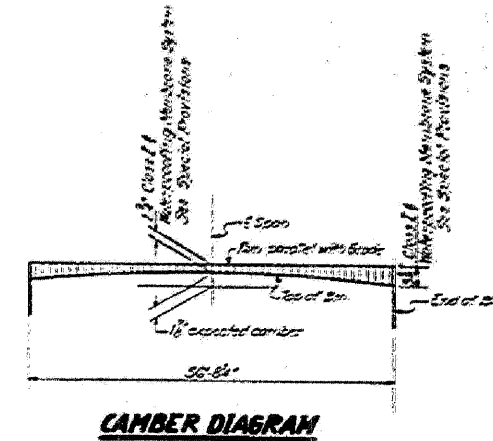
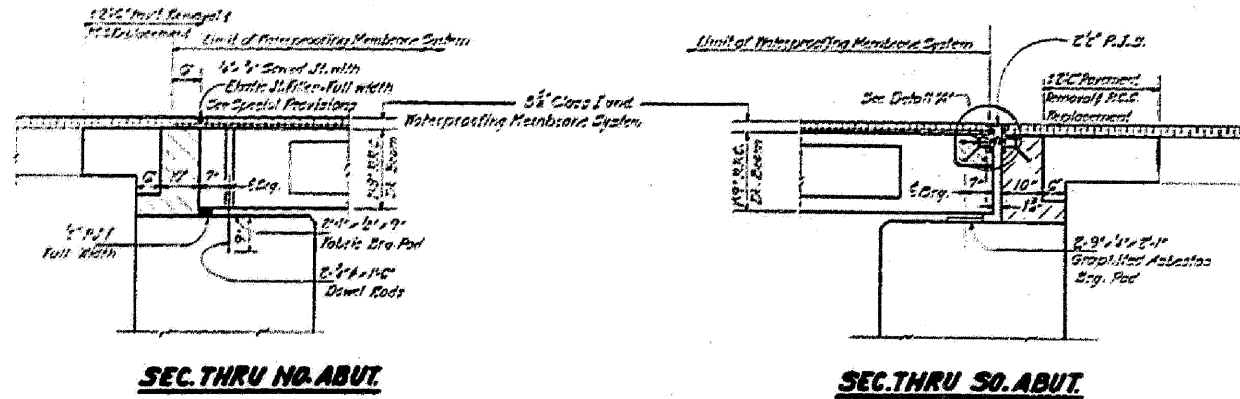
BILL OF MATERIAL

Bar	No	Size	Length	Shape
a	3	1/2"	33'0"	
Precast Prestressed Concrete Deck Beams (21' x 36")	Sq Ft	1371		
Class X Concrete	Cu Yd.	0.8		
Reinforcement Bars	Pound	100		

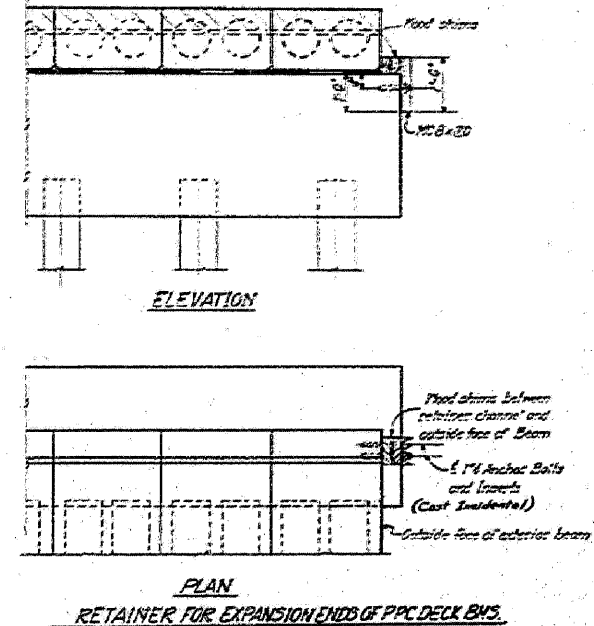
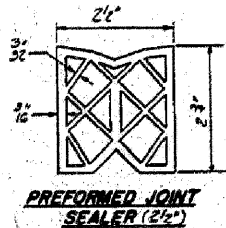
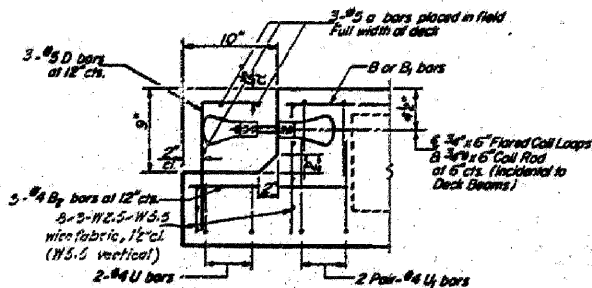
SUPERSTRUCTURE
EA.RT.796 SEC.106BR-3
FORD COUNTY
STA.1711+31.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NO.	DATE	BY	REVISION
7	10/1/10	P.S.P.	7 SHEETS



NOTE: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and joints grouted.
Ends of beams shall be aligned at the expansion joints. Any level variations in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement.
Hatched Area Reinforcement in the beam see detail with supports at #2 on the abutments see detail with abutment sheet #5 6'6"

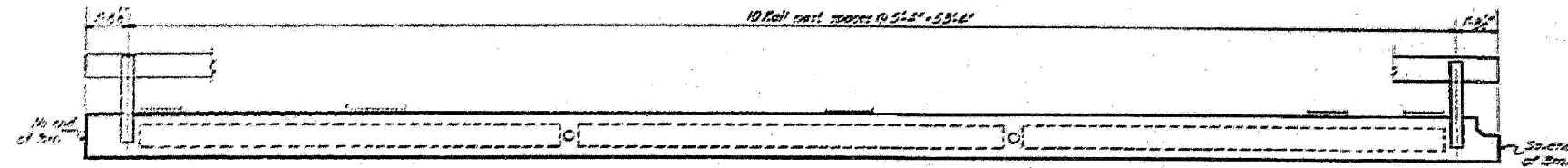


DESIGNED: P. A. H. [Signature]	EXAMINED: [Signature]
CHECKED: P. M. P. [Signature]	PASSED: [Signature]
DRAWN: [Signature]	APPROVED: [Signature]
CHECKED: P. M. P.	

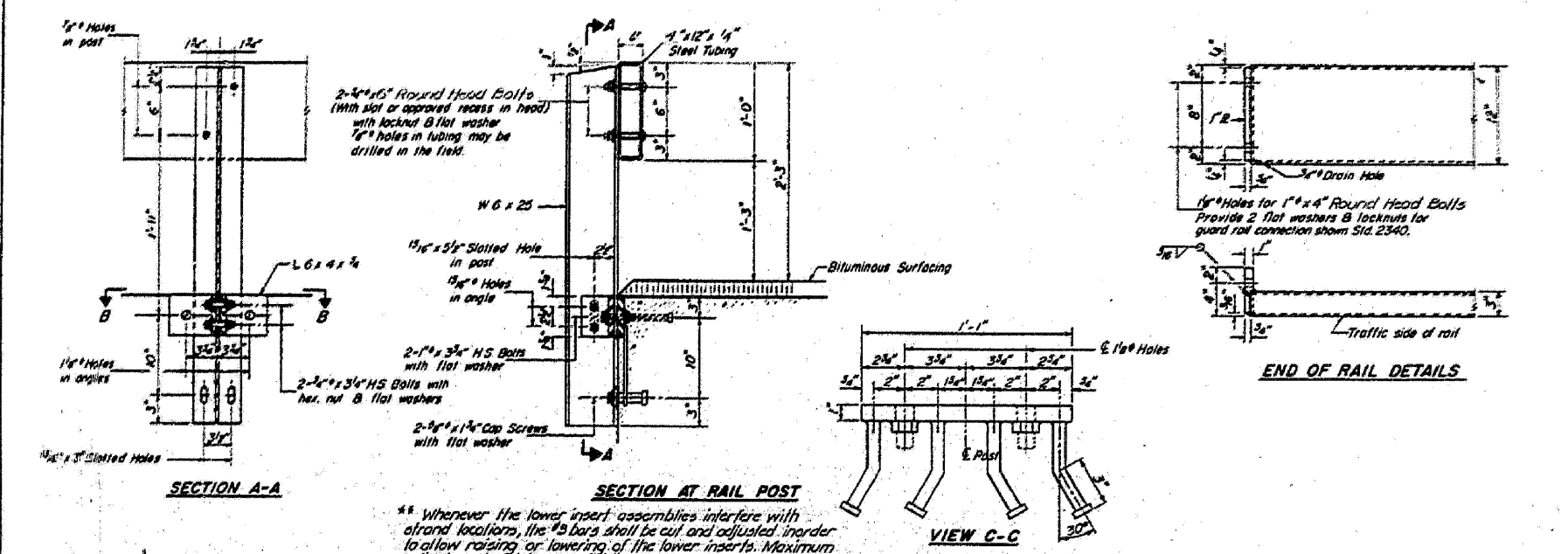
SUPERSTRUCTURE DETAILS
PART 706 SEC. 106 BR-3
FORD COUNTY
STA. 1711+31.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
796 BR-3	03/10	1" = 50'	4	10



RAILING ELEVATION
Showing outside face.



NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts and angles shall conform to AASHTO M-223, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-252.

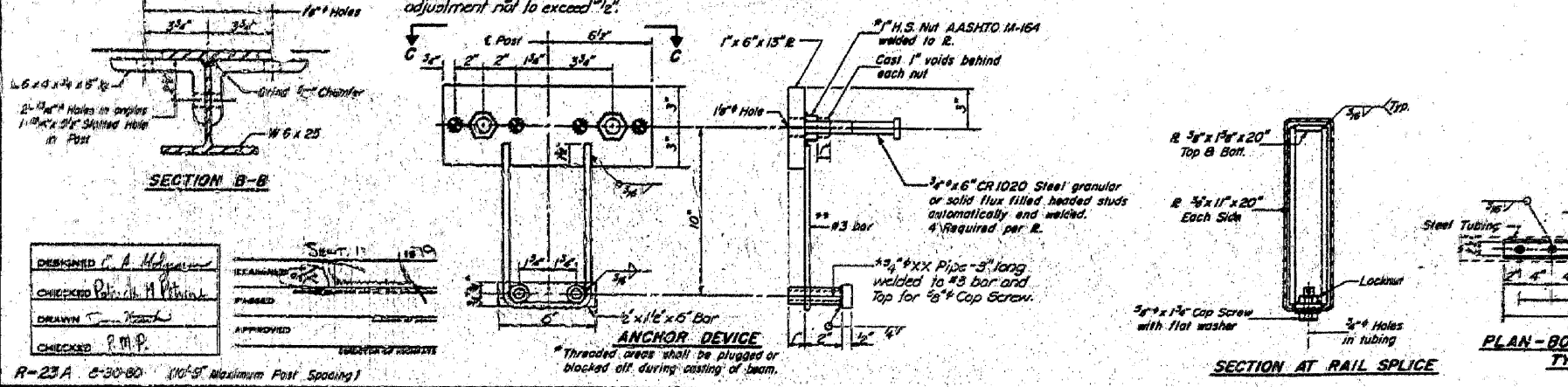
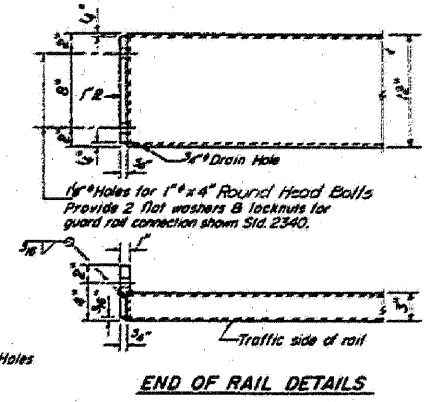
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-183 and ASTM A-365. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE S.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1" fabric covering pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6" x 4" x 1/2" angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 1/2" cap screws in bottom of posts shall be tightened to a snug fit only.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Lin. Ft.	116

**TYPE S-1
STEEL RAILING
RAIL TYPE SEC. 106BR-3
FORD COUNTY
STA. 1711+31.00**

DESIGNED: C. A. Holman
CHECKED: P. M. P.
DRAWN: [Signature]
CHECKED: P. M. P.

REVISIONS:
1. [Signature]
2. [Signature]

APPROVED: [Signature]

R-23A 5-30-80 (10'-5" Maximum Post Spacing)

ANCHOR DEVICE

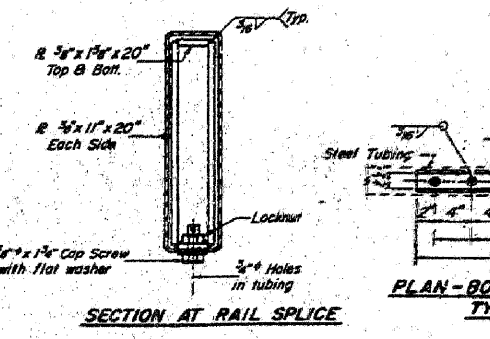
1" x 6" x 13" E
3" H.S. Nut AASHTO M-164 welded to E.
Cast 1" voids behind each nut

3/4" x 6" CR1020 Steel granular or solid flux filled headed studs automatically end welded. 4 Required per E.

3/4" XXX Pipe - 3" long welded to #3 bar and Top for 3/4" Cap Screw.

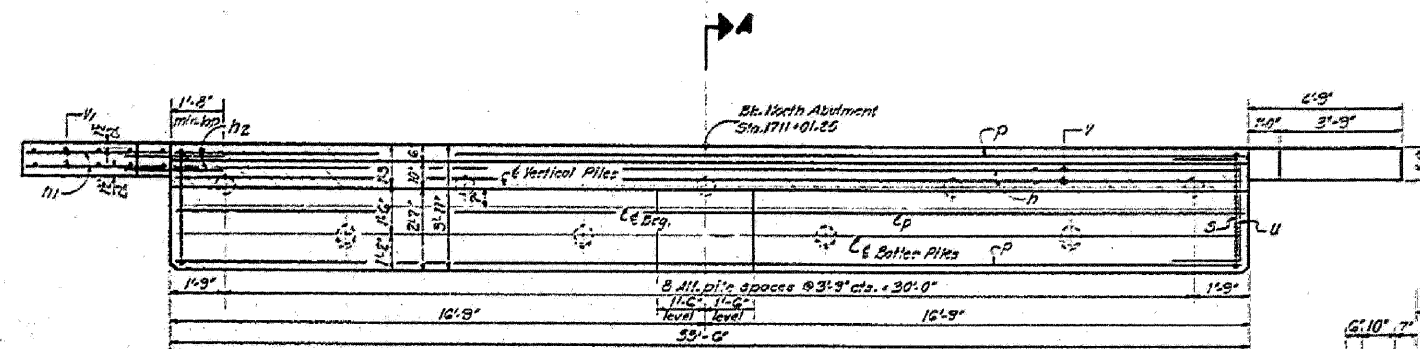
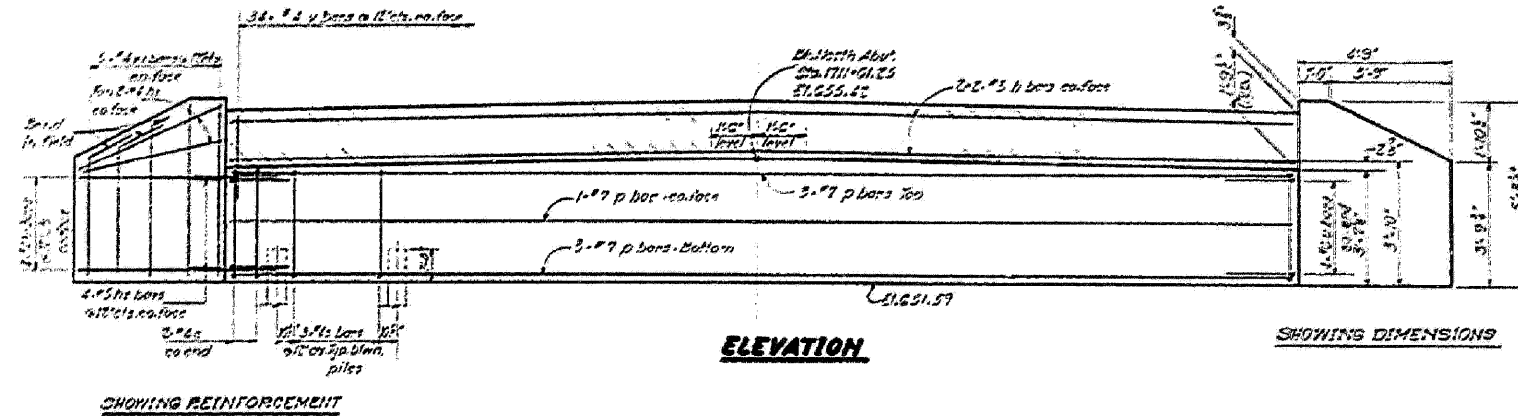
2" x 1/2" x 6" Bar

Threaded areas shall be plugged or blocked off during casting of beam.



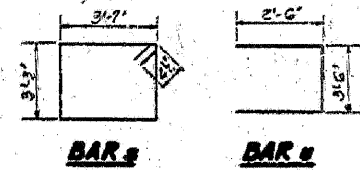
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	DATE	SCALE	SHEET NO.	TOTAL SHEETS
106-106-3	10/6/2010	AS SHOWN	5	7

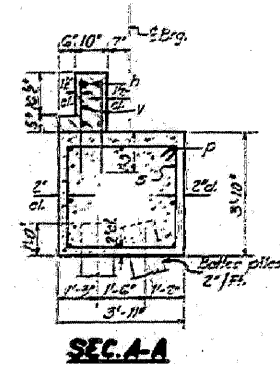


PILE DATA

Type: Concrete
Capacity: 48T
Est. length: 27 Ft.
No. Required: 8 plus one test pile.



Notes:
Hatched areas to be poured after beams are in place.
All edges shall have standard 1/4" chamfers unless otherwise noted.



BILL OF MATERIAL

Qty	No.	Size	Length	Shape
1	3	#5	17'-7 1/2"	
1	22	#2	2'-6"	
1	16	#5	3'-4"	
1	8	#7	9'-9"	
1	23	#2	12'-5"	
1	8	#6	8'-6"	
1	68	#2	2'-11"	
1	20	#2	5'-5"	
Concrete Removal				Cu. Yd.: 9
Reinforcement Bars				Pounds: 1400
Class X Concrete				Cu. Yd.: 216
Concrete Piles				Lt. Ft.: 216
Test Pile (Concrete)				Each: 1

NORTH ABUTMENT
F.A. RT. 796 SEC. 106BR-3
FORD COUNTY
STA. 1711+31.00

DESIGNED	P. H. Metzger
CHECKED	P. H. Metzger
DRAWN	L. J. Metzger
CHECKED	P. H. Metzger

DESIGNED	S. J. Metzger
CHECKED	S. J. Metzger
DRAWN	S. J. Metzger
CHECKED	S. J. Metzger

FILE NAME = ...66916-037-ExistPlans5.dgn

USER NAME = SAW	DESIGNED - RAC	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN - RAC	REVISED -
PLOT DATE = 10/6/2010	CHECKED - DAZ	REVISED -
	DATE - 09/03/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ZROKA
engineering

Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

SCALE: 1" = 50'

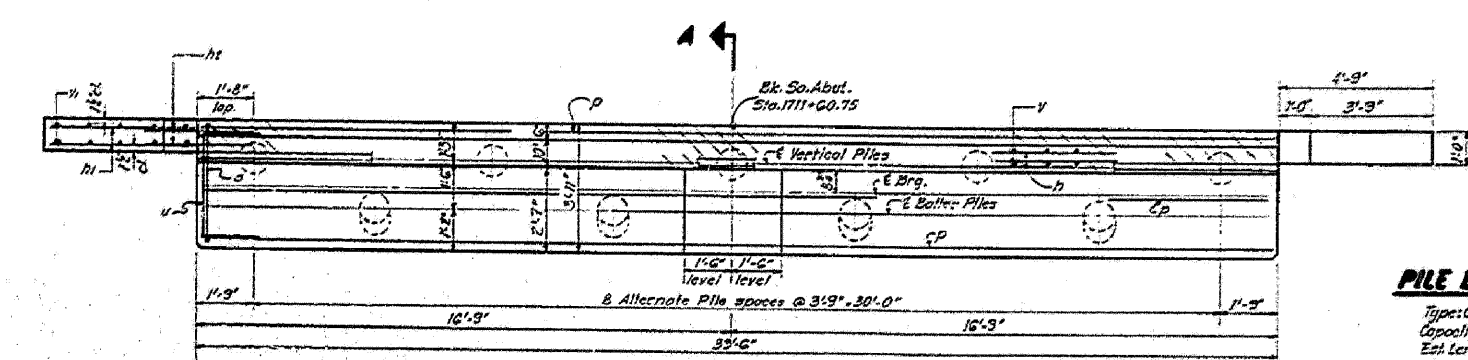
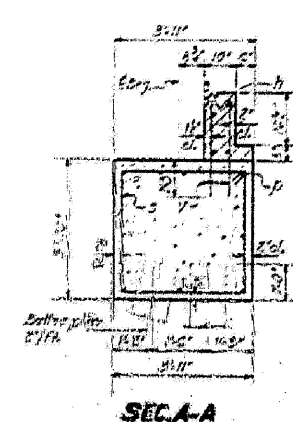
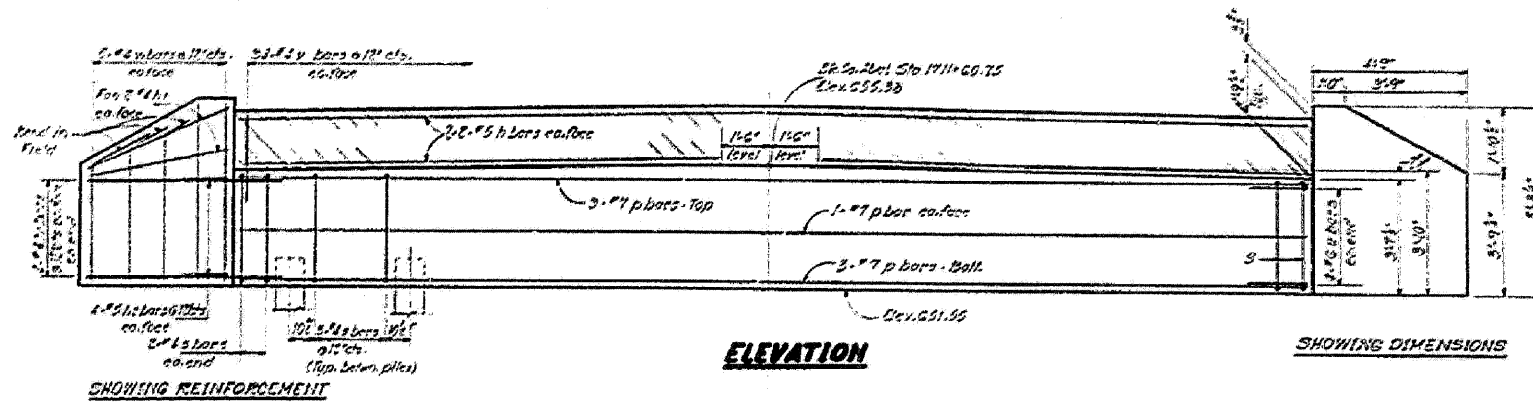
SHEET NO. 5 OF 10 SHEETS

STA. 1707+00 TO STA. 1716+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106) BR-3	FORD	48	37
CONTRACT NO. 66916			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	796	SECTION	(106) BR-3	COUNTY	FORD	TOTAL SHEETS	48	SHEET NO.	38
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BILL OF MATERIAL

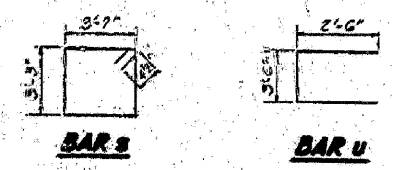
Qty	Size	Length	Weight
7	#5	7'-7"	—
14	#5	2'-6"	—
14	#5	3'-0"	—
5	#7	30'-0"	—
5	#6	15'-0"	—
4	#6	8'-0"	—
4	#6	2'-11"	—
7	#6	5'-5"	—
Reinforcement Bars 1400			
Class Y Concrete 10.8 21.6			
Concrete Piles 11.7 24.5			
Concrete Removal Cu.Yd. 7			

PILE DATA

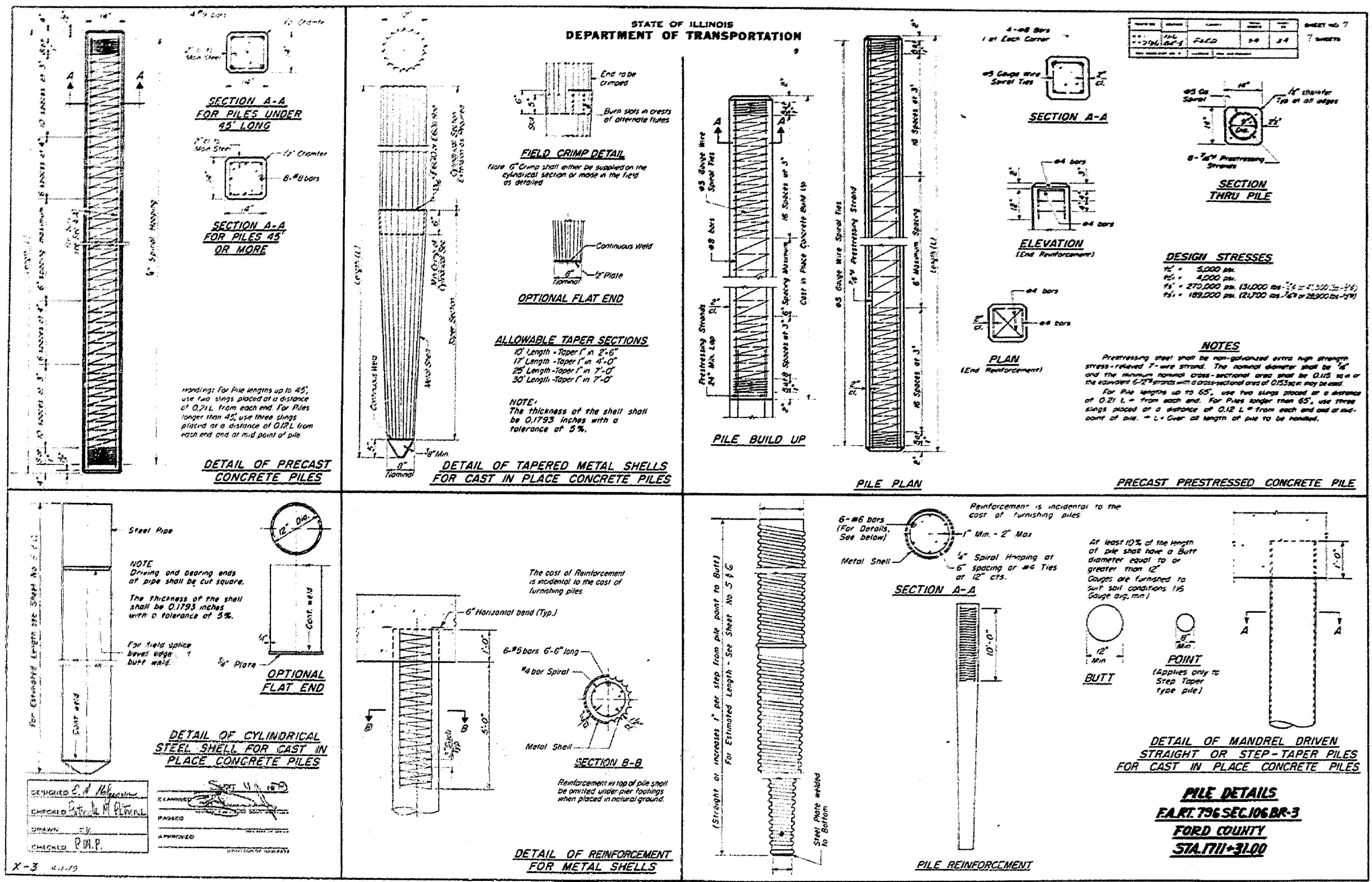
Type: Concrete
Capacity: 40 Tons
Est. Length: 27 Ft.
No. Required: 7

Notes:
Hatched area shall be poured after beams are in place.
All edges shall have standard 3" chamfers unless otherwise noted.

DESIGNED	C.A. Halpern	EXAMINED	[Signature]
CHECKED	[Signature]	DRAWN	[Signature]
DRAWN	[Signature]	CHECKED	P.M.P.



SOUTH ABUTMENT
E.A.R.T. 796 SEC. 106 BR-3
FORD COUNTY
STA. 1711+31.00



FILE NAME = ...66916-039-ExistPlans7.dgn
 USER NAME = SAW
 PLOT SCALE = 50.0000' / IN.
 PLOT DATE = 10/6/2010

DESIGNED - RAC	REVISIONS
DRAWN - RAC	REVISIONS
CHECKED - DAZ	REVISIONS
DATE - 09/03/10	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ZROKA
engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613
SCALE: 1" = 50'
SHEET NO. 7 OF 10 SHEETS

**EXISTING BRIDGE PLANS
FOR INFORMATION ONLY**
STA. 1707+00 TO STA. 1716+00

F.A.P. RTE. 796	SECTION (106) BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 39
				CONTRACT NO. 66916
ILLINOIS FED. AID PROJECT				

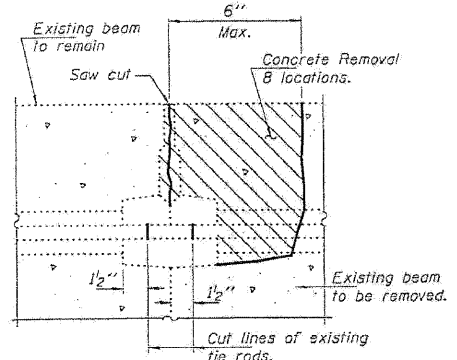
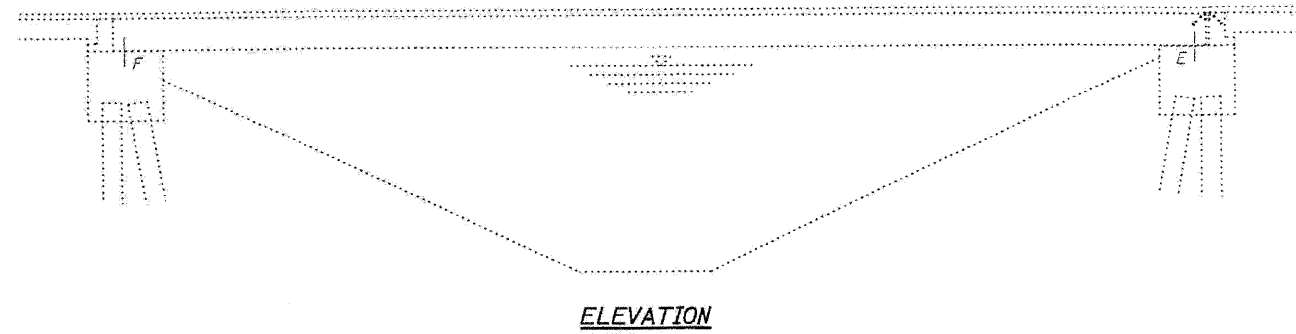
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	DATE	SHEET NO.
FA 796	FORD	12 10	3 SHEETS
FED. AID DIST. NO. 7	ILLINOIS	FED. AID PROJECT	

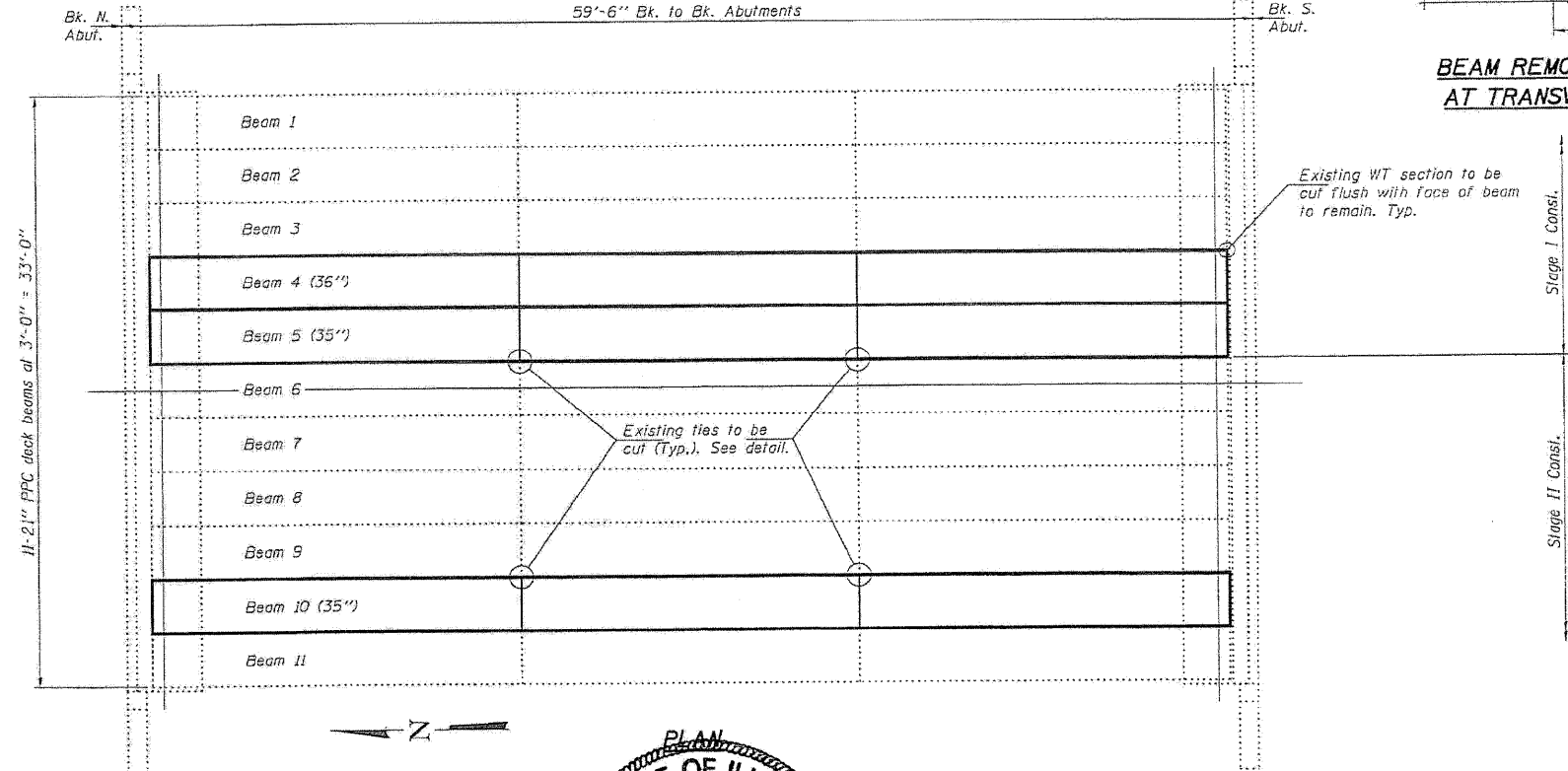
Contract Number: 66767

GENERAL NOTES

The contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures. If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work. Temporary concrete barrier shall only be anchored into the overlay and not into the PPC deck beams. Any damage done to the bridge during beam removal shall be repaired by the contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams. All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted. All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).



BEAM REMOVAL DETAIL AT TRANSVERSE TIES



TOTAL BILL OF MATERIAL

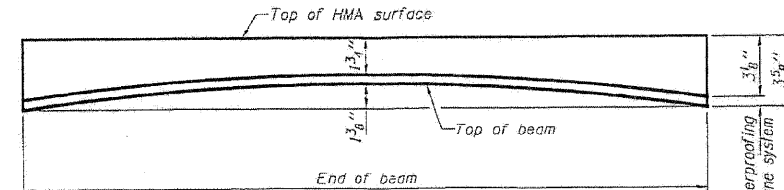
ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	511
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	501
Hot Mix Asphalt Surface Removal	Sq. Yd.	13.2
HMA Surface Course Mix "D" N50	Tons	9.6
PC Mortar Fairing Course	Foaf	283
Asbestos Bearing Pad Removal	Each	3
Waterproofing Membrane System	Sq. Yd.	70



DESIGNED: *Hiram J. Hallock*
CHECKED: *Victor H. Valera*
DRAWN: *balva*
CHECKED: *VHV ATH*

DECEMBER 28, 2007
EXAMINED: *J. Carl Breyer*
PASSED: *Ralph E. Anderson*
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

Expires: November 30, 2008



ANTICIPATED INITIAL CAMBER DIAGRAM

DESIGN STRESSES

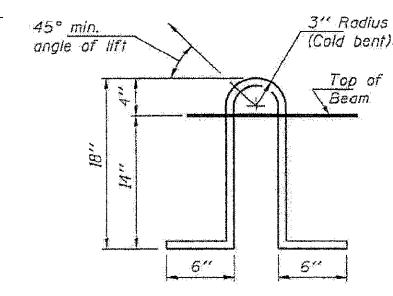
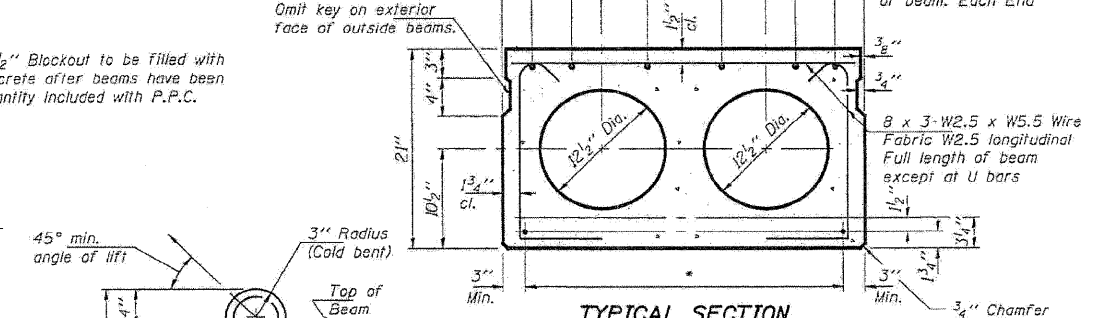
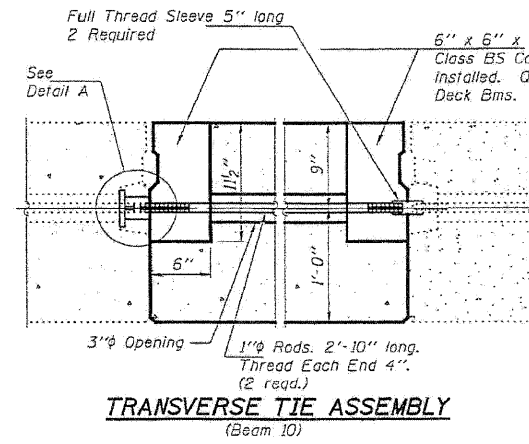
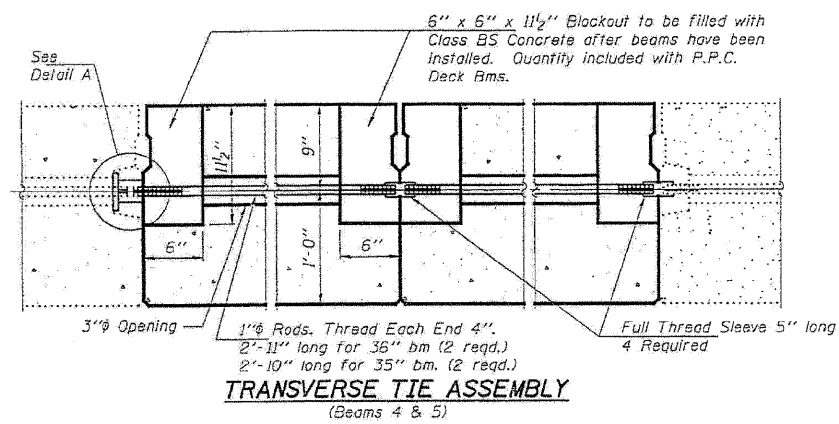
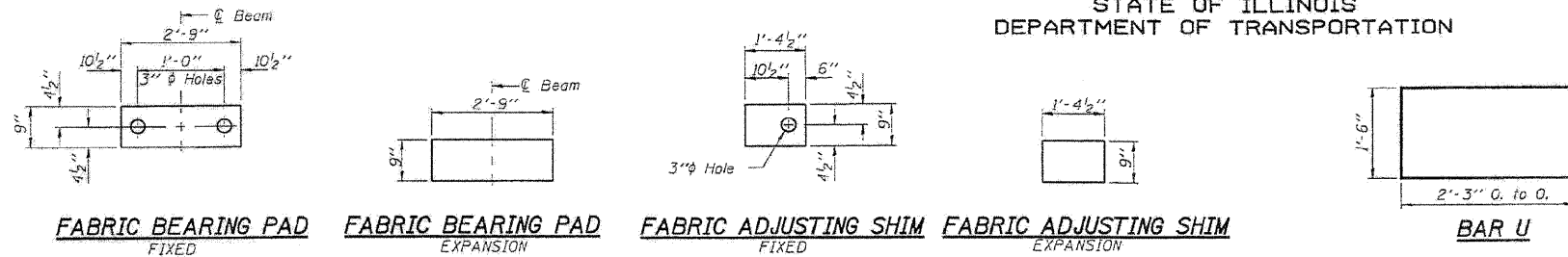
PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,200 psi
f's = 270,000 psi (1/2" low lax strands)
f'si = 201,960 psi (1/2" low lax strands)

PLAN AND ELEVATION

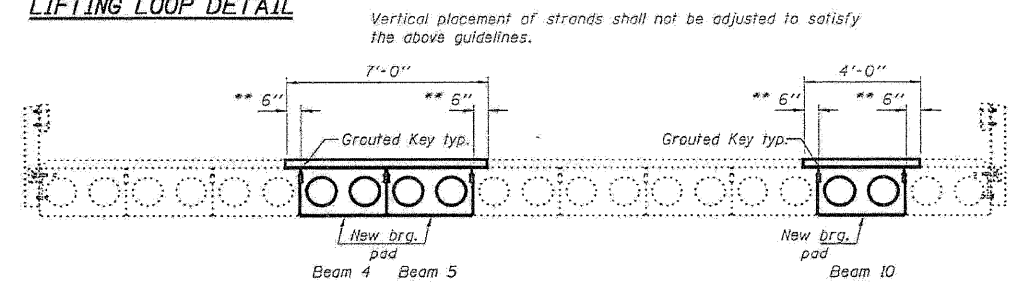
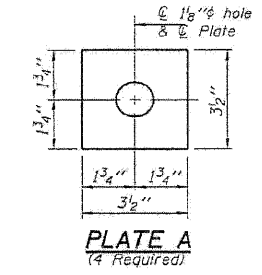
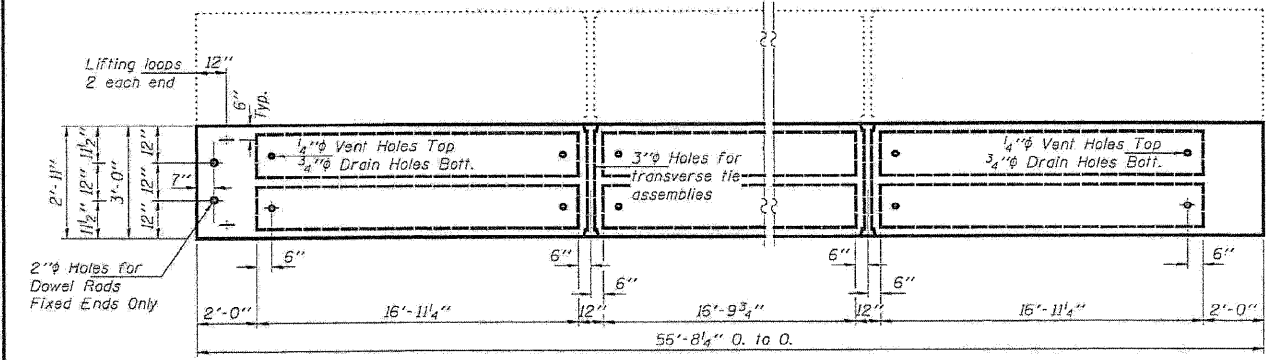
FA 796 OVER
DRAINAGE DITCH
FORD COUNTY
SN 027-0075

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

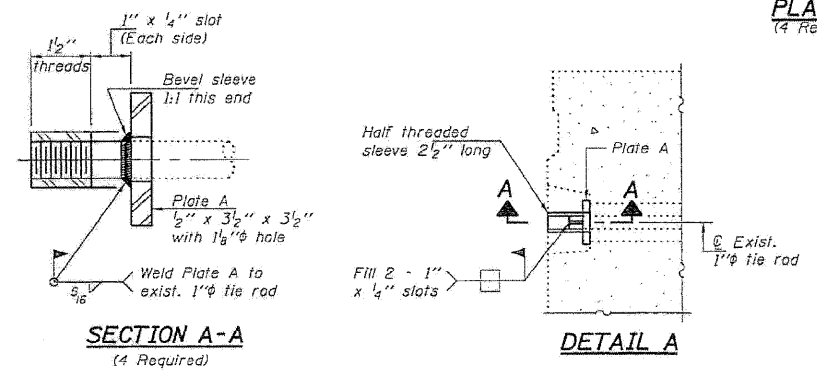
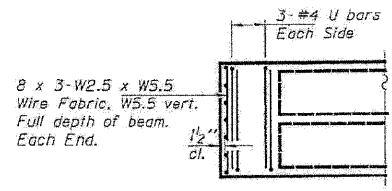
ROUTE NO.	SECTION	DATE	SHEET NO.	SHEET NO. 2
FA 796	FORD	12 11	3 SHEETS	
Contract Number: 66767				



- * TRANSVERSE PLACEMENT GUIDELINES**
1. Place strands symmetrically about centerline of beam.
 2. The minimum distance from center to center of strands in all directions shall be 2".
 3. The minimum clearance from strand to dowel hole shall be 1/2".
 4. The minimum clearance from strand to void shall be 1/2".
- Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



** Limits of HMA Surface Removal. Existing waterproofing to remain. Lap new waterproofing 6" over existing.



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-1/2" dia-270 ksi strands, as shown.

The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Non prestressing steel shall conform to ASTM A 706 (HL MQD), Grade 60.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" fabric adjusting shims of the dimensions shown shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Required Release Strength, f'ci, shall be 4200 p.s.i.

BILL OF MATERIAL

P. P.C. Deck Bms.	Sq. Ft.	501

REPAIR DETAILS
FA 796 OVER DRAINAGE DITCH FORD COUNTY SN 027-0075

DESIGNED	ATH
CHECKED	VHV
DRAWN	baliva
CHECKED	ATH VHV

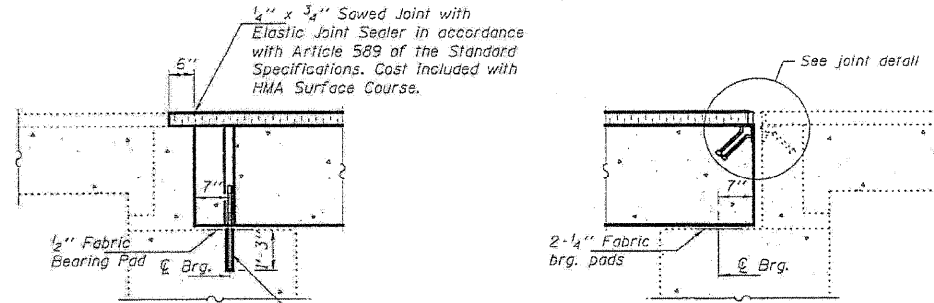
DESIGNED BY: ATH
CHECKED BY: VHV
DRAWN BY: baliva
DATE: DECEMBER 28, 2007

...\\deck_beams_fy08\0270075.qgn 12/28/2007 1:53:54 PM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	DATE	DATE	SHEET NO.
FA 796	FORD	12/12	12/12	3
FED. AID DIST. NO. 1				ILLINOIS
FED. AID PROJECT				3 SHEETS

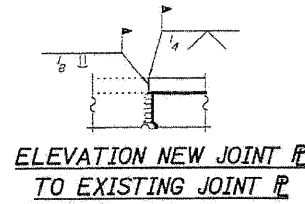
Contract Number: 66767



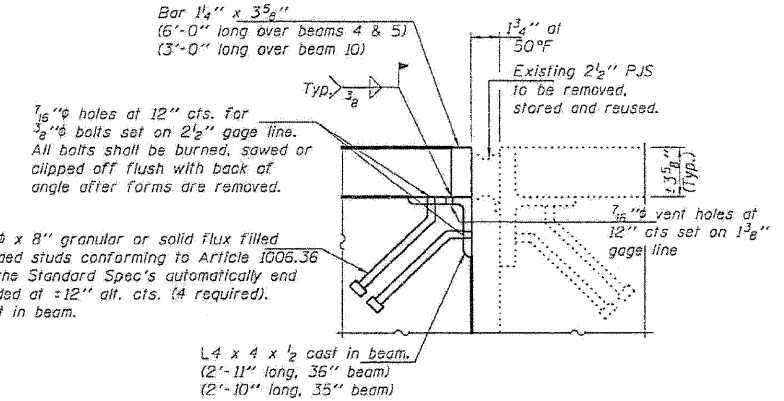
SECTION AT N. ABUTMENT

SECTION AT S. ABUTMENT

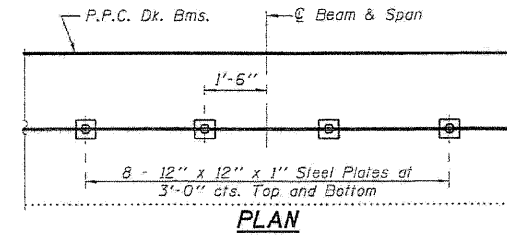
* Existing Dowel Rods shall be cut off & ground flush with the top of the existing concrete. Cost included with Removal of Existing P.P.C. Deck Beams. Proposed Dowel Rods shall be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting shear keys.



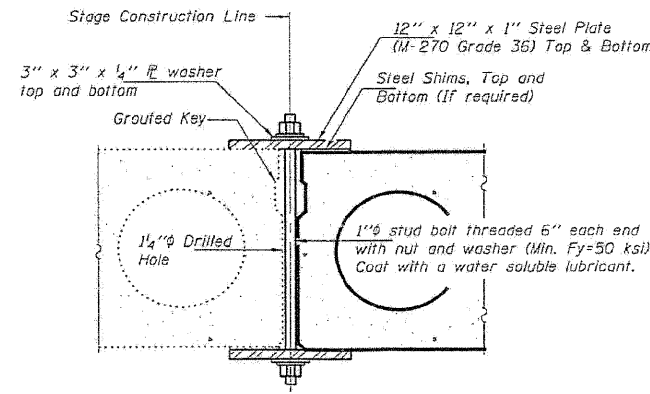
ELEVATION NEW JOINT P
TO EXISTING JOINT R



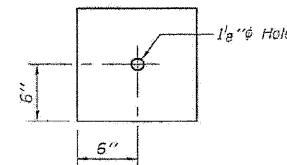
SOUTH ABUTMENT JOINT DETAIL
(Cost included with PPC Deck Beams)



PLAN



SECTION



CLAMPING PLATE

Notes:
See Special Provisions for Stage Construction Precast Prestressed Concrete Deck Beams.
See Stage Construction Detail for traffic lane.
Cost is included with Precast Prestressed Concrete Deck Beams.

DESIGNED	ATH
CHECKED	VHV
DRAWN	baliva
CHECKED	ATH VHV

DECEMBER 28, 2007

EXAMINED *Carl...*
PASSED *Ralph E....*
ENGINEER OF BRIDGES AND STRUCTURES

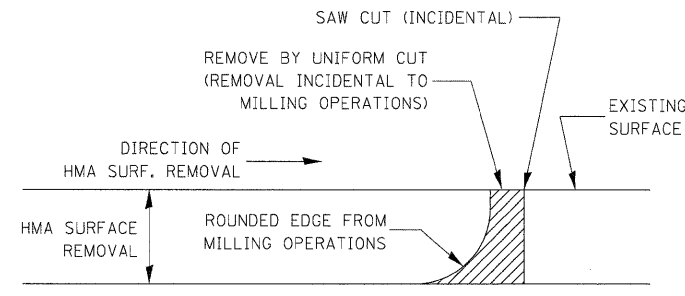
PD-3-S

11-1-06

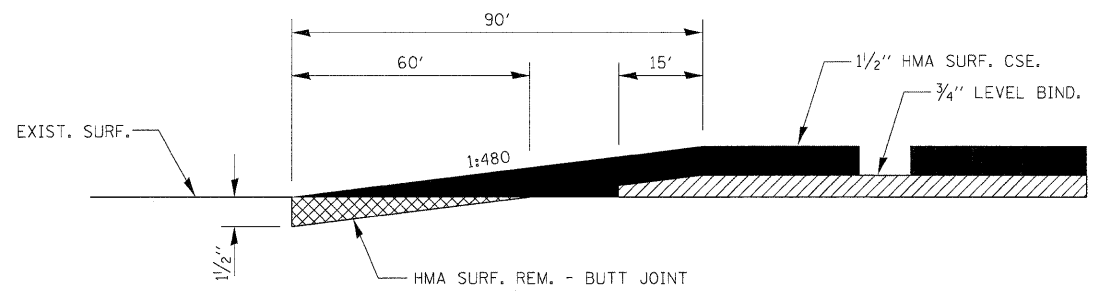
REPAIR DETAILS
FA 796 OVER
DRAINAGE DITCH
FORD COUNTY
SN 027-0075

...deck beams fv08\0270075.dgn 12/28/2007 1:53:55 PM

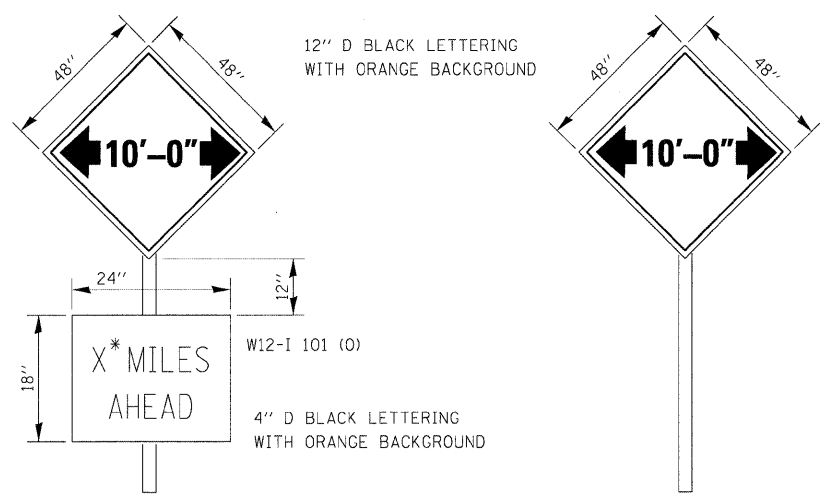
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...66916-042-ExistPlans10.dgn		DRAWN - RAC	REVISIONS -				796	(106) BR-3	FORD	48	42
PLOT SCALE = 50.0000' / IN.		CHECKED - DAZ	REVISIONS -				CONTRACT NO. 66916				
PLOT DATE = 10/6/2010		DATE - 09/03/10	REVISIONS -				ILLINOIS FED. AID PROJECT				
				SCALE: 1" = 50'	SHEET NO. 10 OF 10 SHEETS	STA. 1707+00 TO STA. 1716+00					



NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL



HMA DETAIL AT BUTT JOINTS



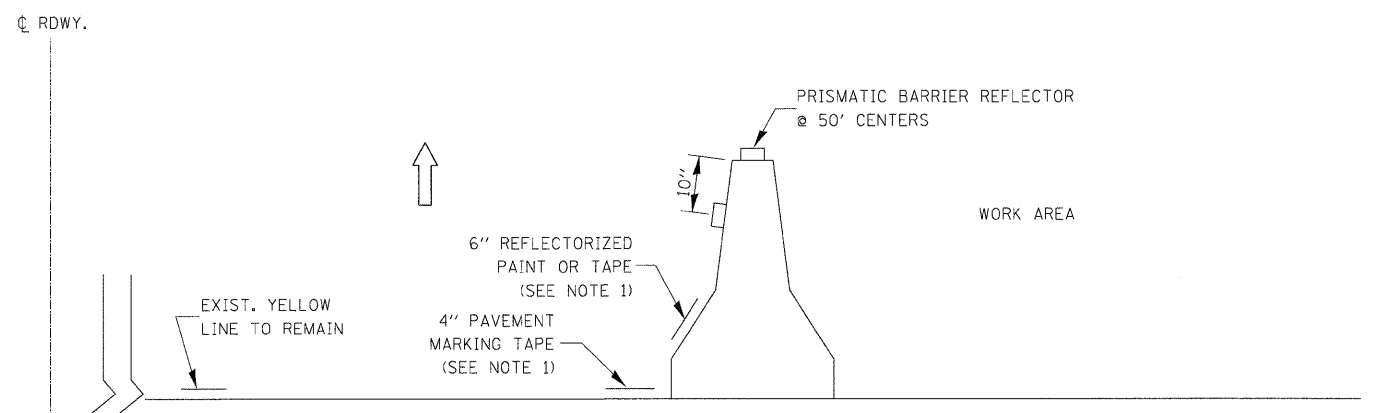
TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

THE RE/RT SHALL CONTACT THE PERMITS OFFICE A MINIMUM OF 21 DAYS PRIOR TO ANY ROADWAY WIDTH RESTRICTION AT THE FOLLOWING EMAIL ADDRESS:
 ROADINFO@DOT.IL.GOV

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

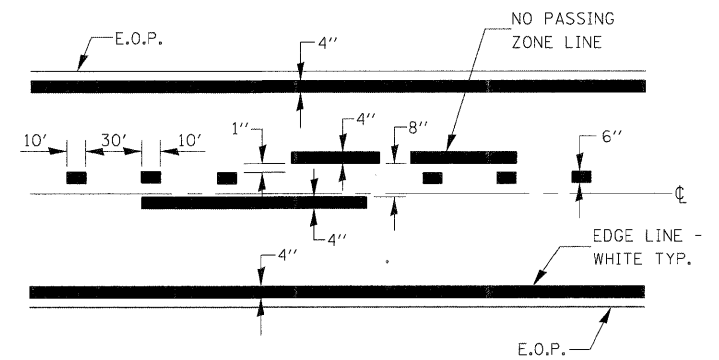
COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS



- NOTES:
1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
 2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
 3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

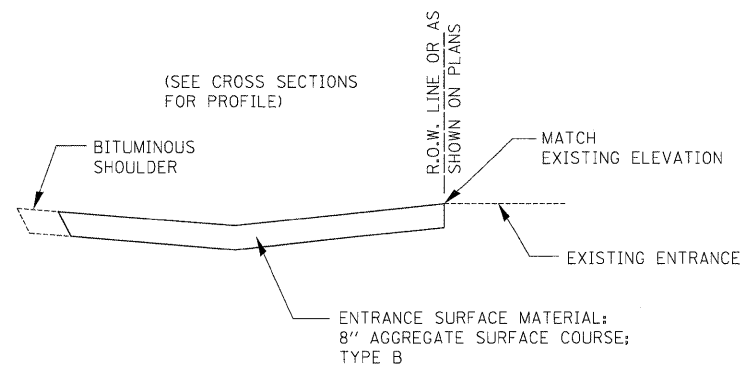
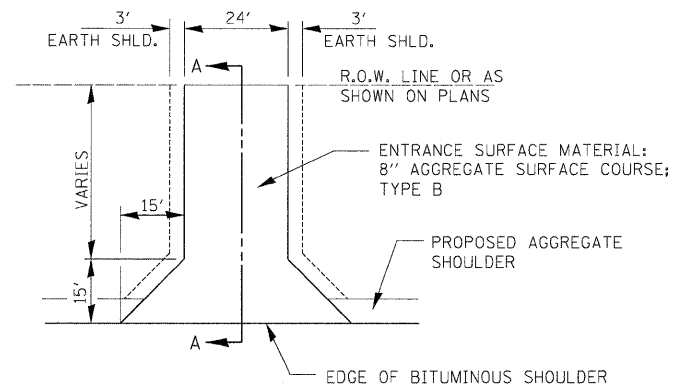
TRAFFIC CONTROL DETAILS FOR TEMPORARY CONCRETE BARRIER



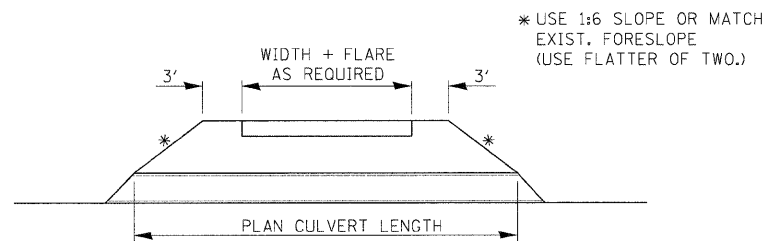
CENTERLINE & NO PASSING ZONE LINES - YELLOW (SEE TYPICAL SECTIONS)

PAVEMENT MARKING

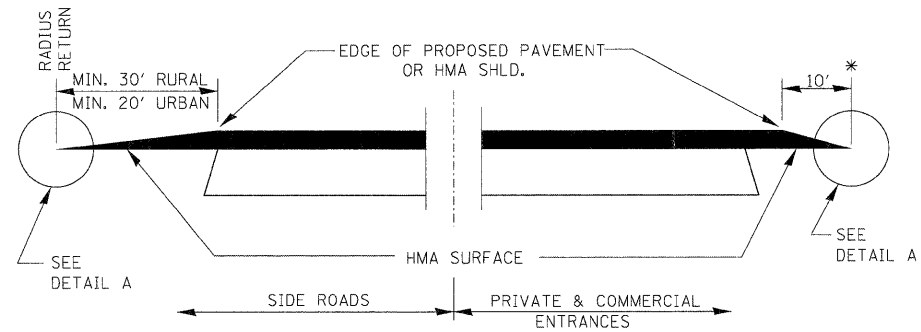
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PLOT DATE = 10/6/2010	DATE - 10/08/10	REVISED -	ILLINOIS FED. AID PROJECT								
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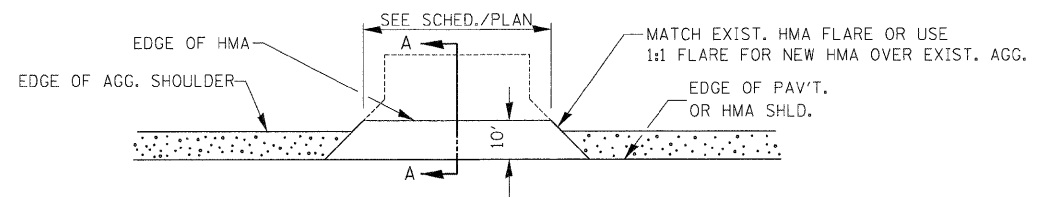
SECTION A-A



FIELD ENTRANCE DETAIL



**SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS**



PLAN AT PRIVATE & COMMERCIAL ENTRANCES

(DO NOT RESURFACE FIELD ENTRANCES)

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DESIGNED - RAC	REVISED -
DRAWN - RAC	REVISED -
CHECKED - DAZ	REVISED -
DATE - 10/08/10	REVISED -

DESIGNED - RAC	REVISED -
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DATE - 10/08/10	REVISED -

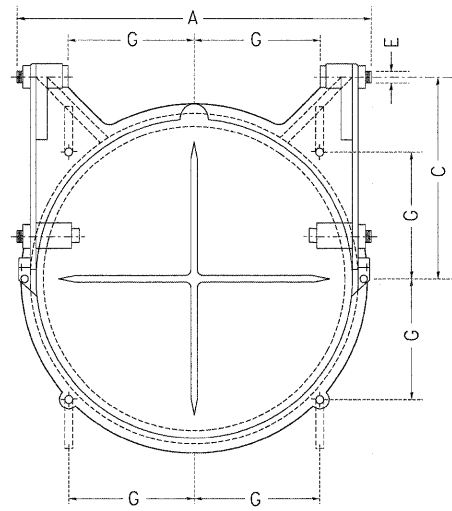
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ZROKA
engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

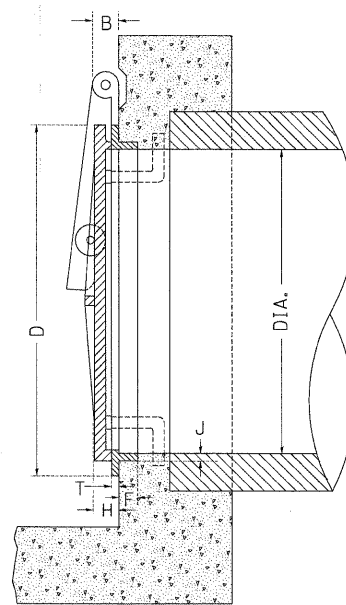
DETAILS

SCALE: 1" = 50' SHEET NO. 44 OF 48 SHEETS STA. 1707+00 TO STA. 1716+00

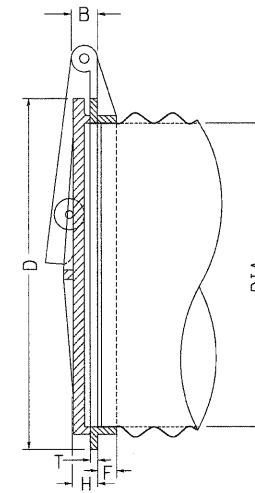
F.A.P. RTE. 796	SECTION (106) BR-3	COUNTY FORD	TOTAL SHEETS 48	SHEET NO. 44
CONTRACT NO. 66916				
ILLINOIS FED. AID PROJECT				



FRONT ELEVATION



SECTION



SECTION SHOWING METHOD OF APPLICATION TO CORRUGATED METAL PIPE

IT IS INTENDED THAT THE AUTOMATIC FLAP GATES SHALL BE A COMMERCIAL PRODUCT PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL OR OTHER SUITABLE MATERIALS. THE DESIGN MAY DIFFER FROM THE DRAWING IF IT WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE WATER PRESSURE AT THE INSTALLATION LOCATION. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF AUTOMATIC FLAP GATES SHALL REFER TO THE DIAMETER OF THE OUTLET PIPE OR OPENING.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR FLAP GATES OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND COMPLETE INSTALLATION.

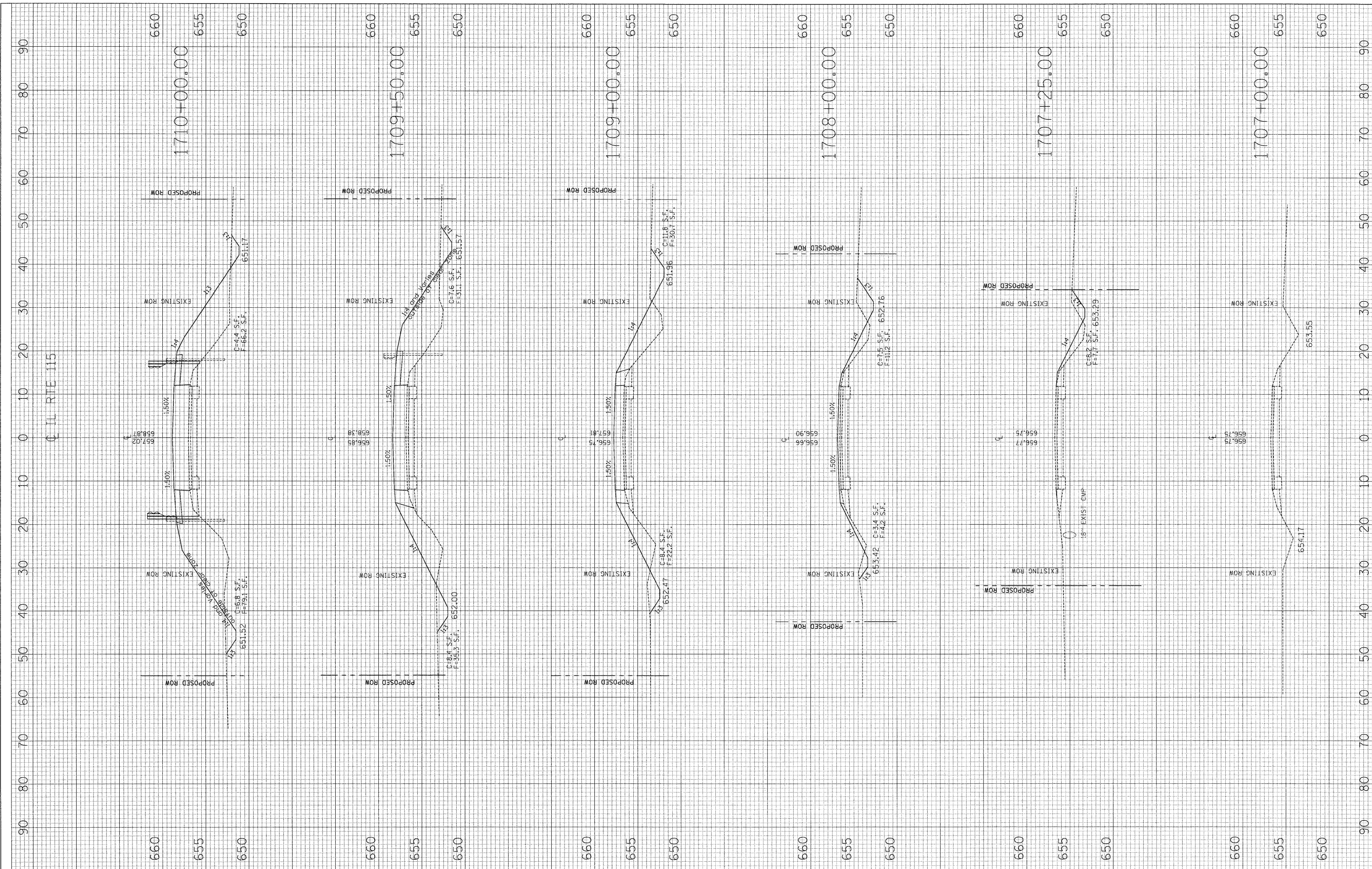
TABLE OF DIMENSIONS

DIAM	A	B	C	D	E	F	G	H	J	T
8"	10 3/4"	1 3/8"	5 11/16"	10"	1/2"	1 1/8"	3 9/16"	1 1/4"	3/8"	3/8"
10"	12 3/4"	1 3/8"	7 1/8"	12 1/4"	1/2"	1 1/8"	4 3/8"	1 1/2"	1/2"	7/16"
12"	14 3/4"	1 3/8"	8 1/2"	14 1/2"	1/2"	1 1/8"	5 1/8"	1 1/2"	1/2"	1/2"
14"	17 1/4"	1 3/8"	9 7/8"	16 3/4"	1/2"	1 1/4"	5 15/16"	1 1/2"	1/2"	9/16"
15"	17 3/4"	1 3/8"	10 5/8"	17 3/4"	1/2"	1 1/4"	6 1/4"	1 1/2"	1/2"	9/16"
16"	19 1/4"	1 3/8"	11 1/4"	18 3/4"	1/2"	1 1/4"	6 5/8"	1 1/2"	1/2"	9/16"
18"	22 1/4"	2"	12 5/8"	21"	3/4"	1 9/16"	7 7/16"	1 3/4"	9/16"	9/16"
20"	24 3/4"	2"	14 1/8"	23 3/4"	3/4"	1 3/8"	8 1/4"	1 3/4"	5/8"	5/8"
21"	25 1/4"	2"	14 7/8"	24 1/4"	3/4"	1 3/8"	8 9/16"	1 3/4"	5/8"	5/8"
24"	28 1/4"	2"	17"	27 1/2"	3/4"	1 1/2"	9 3/4"	1 3/4"	5/8"	5/8"
30"	35 1/4"	2 1/2"	20 1/2"	34"	1"	1 9/16"	12"	2"	1 1/16"	5/8"
36"	41 1/2"	2 1/2"	25"	40 7/8"	1"	2 1/16"	14 7/16"	2 1/4"	1 1/8"	11/16"
42"	47 1/2"	2 1/2"	29 3/4"	47"	1"	2 5/16"	16 5/8"	2 1/4"	1 1/8"	3/4"
48"	53 1/2"	2 1/2"	34"	54"	1"	2 3/4"	19 1/16"	2 1/4"	1 3/8"	3/4"
54"	60 3/4"	2 1/2"	38"	62 1/4"	1 1/4"	2 3/4"	22"	3"	1 1/2"	7/8"
60"	67"	2 1/2"	42"	68 1/2"	1 1/4"	2 3/4"	24 1/4"	3"	1 1/2"	15/16"
66"	73 3/8"	2 1/2"	47"	75"	1 1/4"	2 7/8"	26 1/2"	3"	1 1/2"	1"
72"	79"	2 1/2"	51"	82"	1 1/4"	3"	29"	3"	1 1/2"	1"
78"	86"	2 1/2"	55 1/4"	88 3/4"	1 1/4"	3 1/2"	31 3/8"	3"	1 5/8"	1 1/8"
84"	92 1/2"	3 1/2"	59 1/2"	95 1/2"	1 1/2"	3 1/2"	33 3/4"	3"	1 3/4"	1 1/4"

AUTOMATIC FLAP GATE

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		



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DESIGNED	RAC
DRAWN	SAW
CHECKED	DAZ
DATE	10/08/10

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

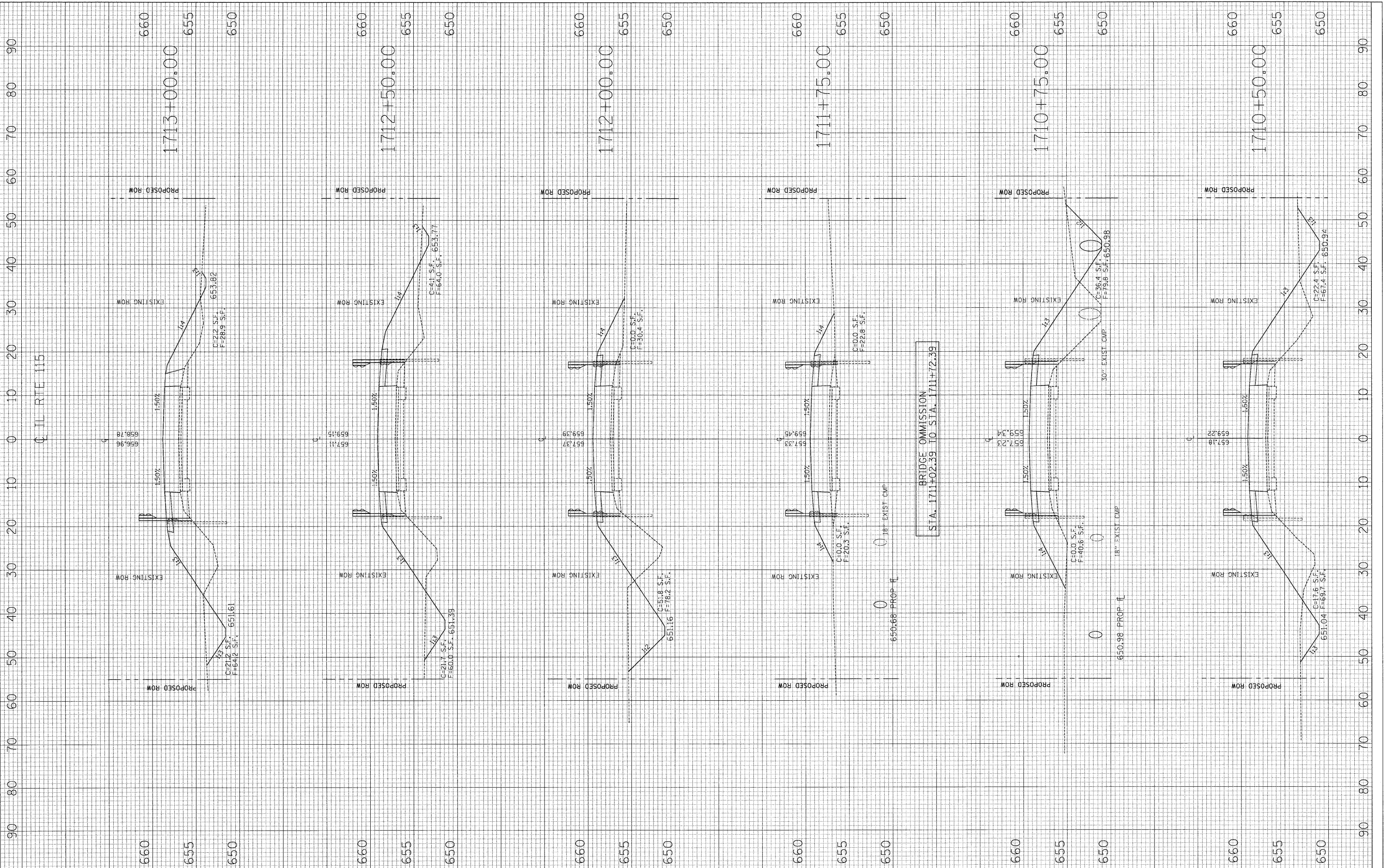
CROSS SECTIONS

SCALE:	SHEET NO. 46 OF 48 SHEETS	STA. 1707+00.00 TO STA. 1710+00.00
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IL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
115	(106)BR-3	FORD	48	46
CONTRACT NO. 66916				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

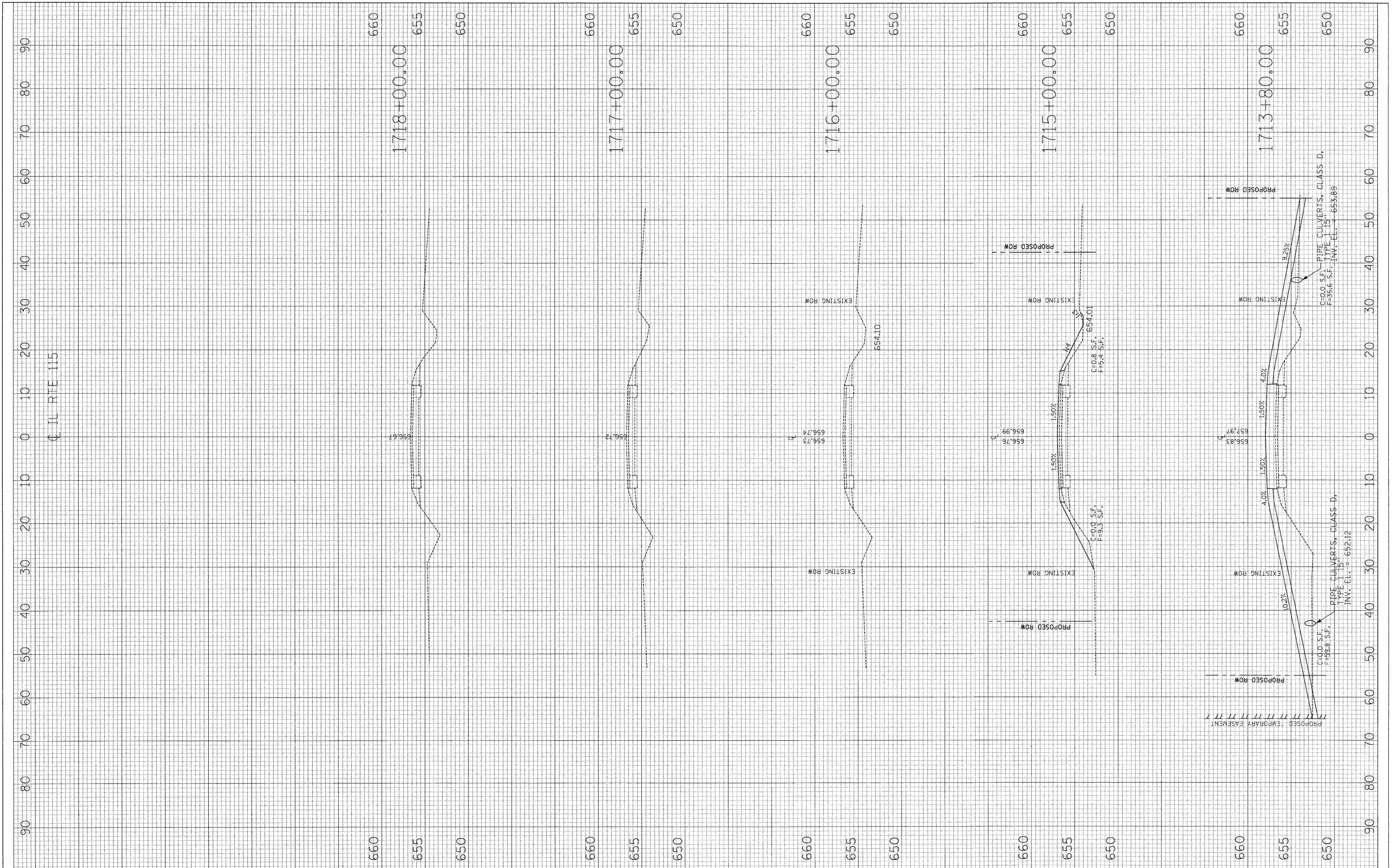
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SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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	PLOT DATE = 10/6/2010	CHECKED DAZ	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE 10/08/10	REVISED -									

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLATED		
	DATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLATED		
	DATE		
	AREAS CHECKED		



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USER NAME = SAW
 DESIGNED RAC
 DRAWN SAW
 CHECKED DAZ
 DATE 10/08/10

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: SHEET NO. 48 OF 48 SHEETS STA. 1713+80.00 TO STA. 1718+00.00

IL. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
115	(106)BR-3	FORD	48	48
CONTRACT NO. 66916			ILLINOIS FED. AID PROJECT	