

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	1
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Joint Utility Locating Information for Excavators
JULIE 1-800-892-0123

PLANS FOR PROPOSED
BRIDGE REPLACEMENT & REHABILITATION PROGRAM

SECTION 05-00085-00-BR EFFINGHAM COUNTY

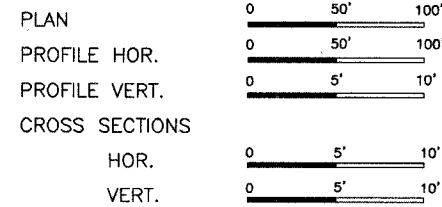
PROJECT BRS-709(103)
JOB NO. C-97-047-06

F.A.S. 709

INDEX OF SHEETS

SHEET	ITEM
1	COVER SHEET
2	SUMMARY OF QUANTITIES
3	ROADWAY PLAN AND PROFILE
4	GENERAL PLAN AND ELEVATION
5	STANDARD CS-3033-75L
6	STANDARD CB-3033-36
7	STANDARD CA-3033-10
8	STANDARD CR-TS1
9	STANDARD CN
10	STANDARD CX-1
11-13	CROSS SECTIONS

- STANDARD DRAWINGS
- STANDARD 000001-04
 - STANDARD 280001-02
 - STANDARD 542306
 - STANDARD 630001-05
 - STANDARD 631026-02
 - STANDARD 666001
 - STANDARD 702001-05
 - STANDARD BLR 21-6
 - STANDARD BLR 22-4
 - STANDARD BLR 23-1

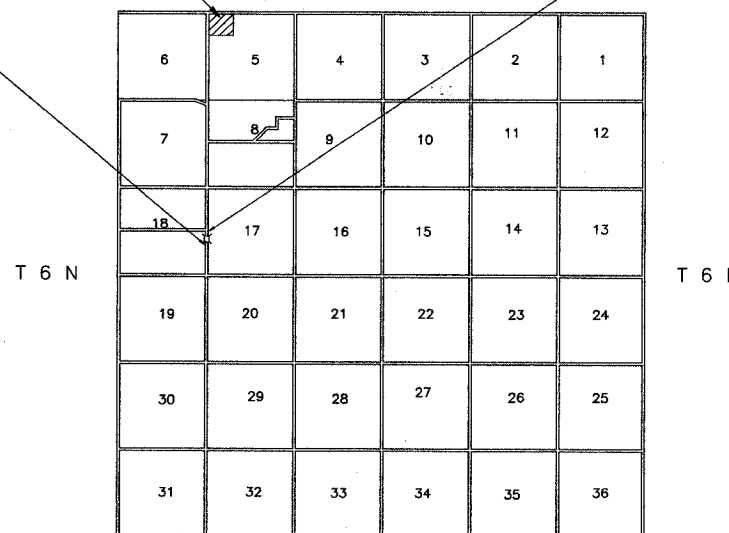


SECTION 05-00085-00-BR BEGINS STA. 3+84.00

SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE
78'-6" BK.-BK. ABUTMENTS
STEEL PILE SPILLTHROUGH ABUTMENTS
30' DECK
10' SKEW LT. FORWARD
EXISTING STRUCTURE NO. 025-3009
PROPOSED STRUCTURE NO. 025-3221

ELLIOTTSTOWN

SECTION 05-00085-00-BR ENDS STA. 6+16.00



CONTRACT NO. 95458

RURAL MAJOR COLLECTOR
ADT = 550
DESIGN SPEED = 40 M.P.H.

NET LENGTH SECTION 05-00085-00-BR = 232.00 Ft. = 0.044 Mi.

Robert A. Charleston
Ill. Reg. Prof. Eng. #29185
12/14/05
Lic. Expires 11/30/06

CHARLESTON ENGINEERING INC.
105 N. KITCHELL
P.O. BOX 397
OLNEY, ILLINOIS 62450
PH. 618-392-0736



APPROVED December 15 2005
[Signature]
COUNTY ENGINEER

PASSED Jan 4 2006
[Signature]
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS AND STREETS

Releasing For
Bid Based on
Limited Review
Jan 4 2006
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

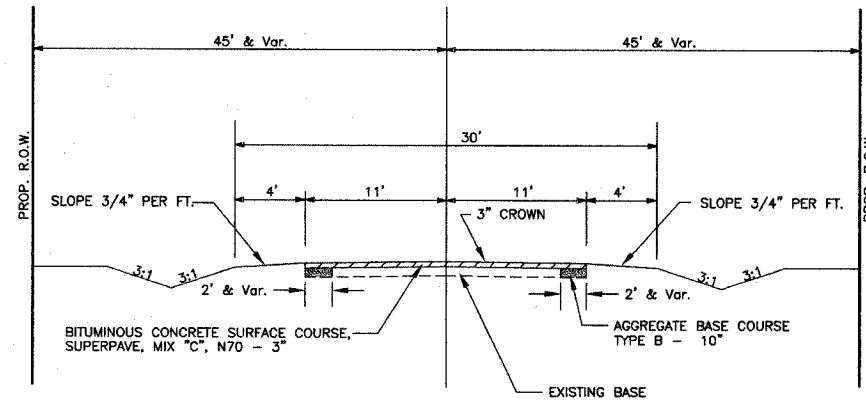
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	2
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	

DESIGN DATA

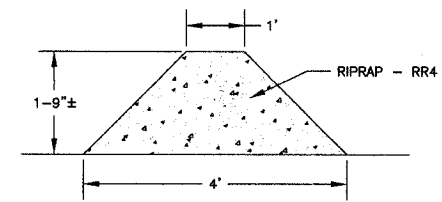
MAJOR COLLECTOR
ADT = 550

GENERAL NOTES

- SEEDING: THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 250 OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SEEDING CLASS 2 (SPECIAL).
 - SPRING SEEDING SHALL EXTEND FROM JANUARY 1 TO JUNE 30
 - FALL SEEDING SHALL EXTEND FROM JULY 1 TO DECEMBER 31
 - FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE OF 100 LB/ACRE
 - MULCHING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 251 OF THE STANDARD SPECIFICATIONS AND SHALL BE DONE BY METHOD 2, PROCEDURE 2 AT THE RATE OF 2 TONS PER ACRE.
2. NO PAYMENT FOR OVERHAUL WILL BE MADE ON THIS SECTION.

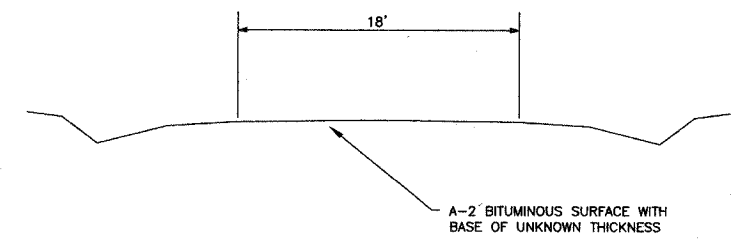


TYPICAL SECTION
PROPOSED

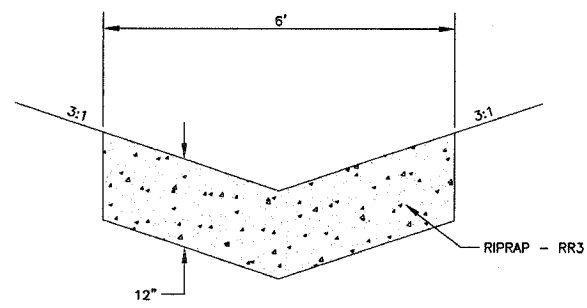


TEMPORARY DITCH CHECK DETAIL

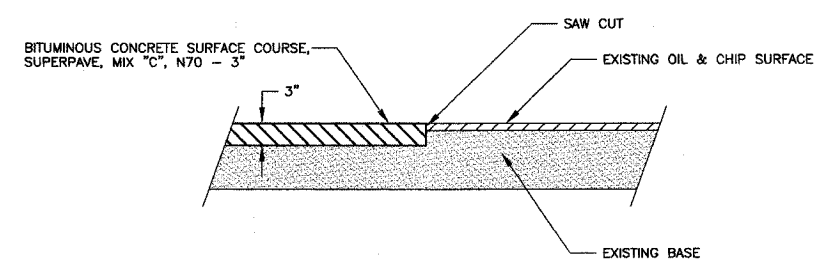
SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	25
20300100	CHANNEL EXCAVATION	CU YD	235
20400800	FURNISHED EXCAVATION	CU YD	405
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.35
28000300	TEMPORARY DITCH CHECKS	EACH	1
28000900	FENCE (EROSION CONTROL)	FOOT	230
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	240
28102600	STONE RIPRAP DITCH	TON	12
35101400	AGGREGATE BASE COURSE, TYPE B	TON	20
44000025	BITUMINOUS SURFACE REMOVAL (SPECIAL)	SQ YD	205
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	23.4
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2250
50800105	REINFORCEMENT BARS	POUND	2900
50900205	STEEL RAILING, TYPE S1	FOOT	150
51201600	FURNISHING STEEL PILES HP 12 X 53	FOOT	550
51202700	DRIVING STEEL PILES	FOOT	550
51203600	TEST PILE STEEL HP 12 X 53	EACH	1
51204315	CONCRETE ENCASEMENT	CU YD	4.1
51500100	NAME PLATES	EACH	1
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	84
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	250
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	675
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8
67100100	MOBILIZATION	L. SUM	1
LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4
X4066416	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70	TON	64
Z0013825	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	40



TYPICAL SECTION
EXISTING

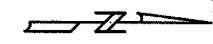


STONE RIPRAP DITCH DETAIL

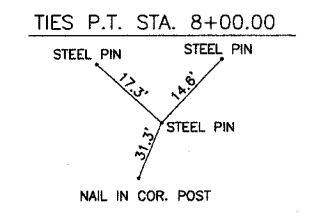
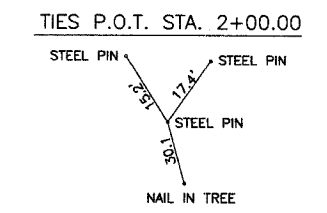
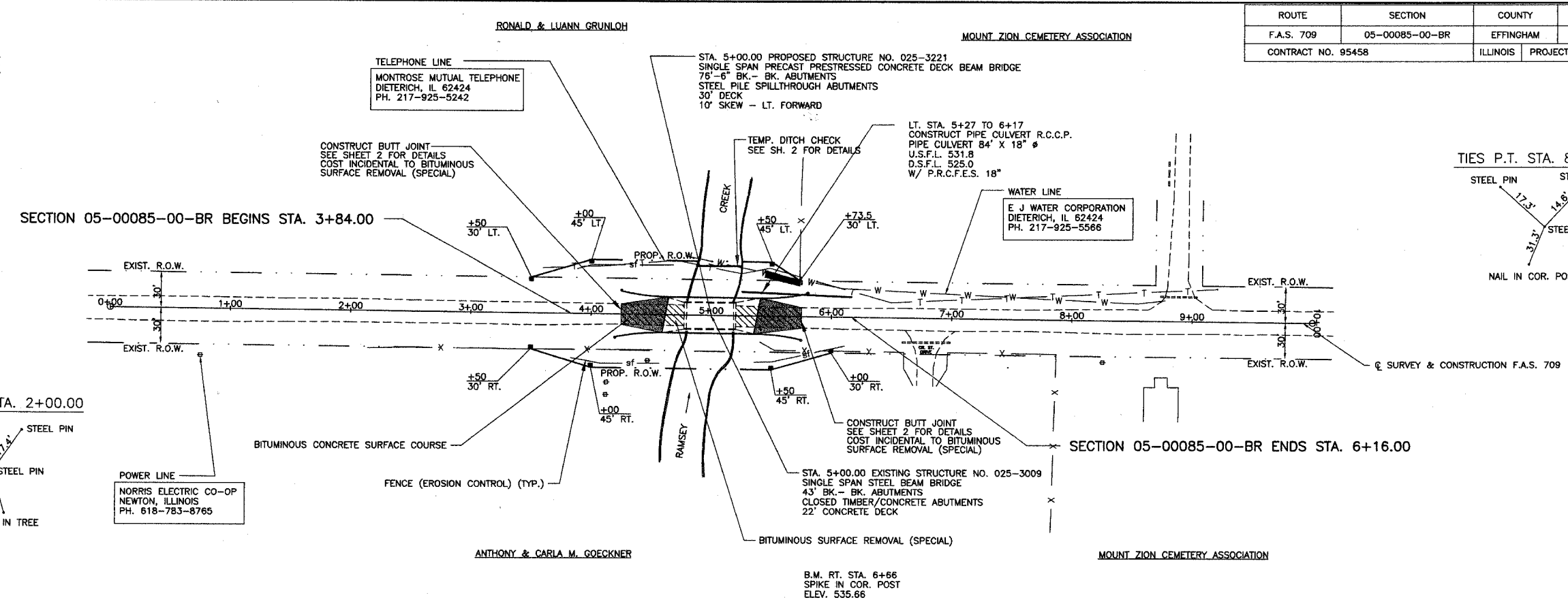


BUTT JOINT DETAIL

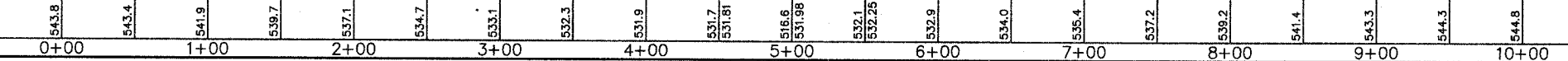
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	3
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	



SCALES:
 1" = 50' HOR
 1" = 5' VER

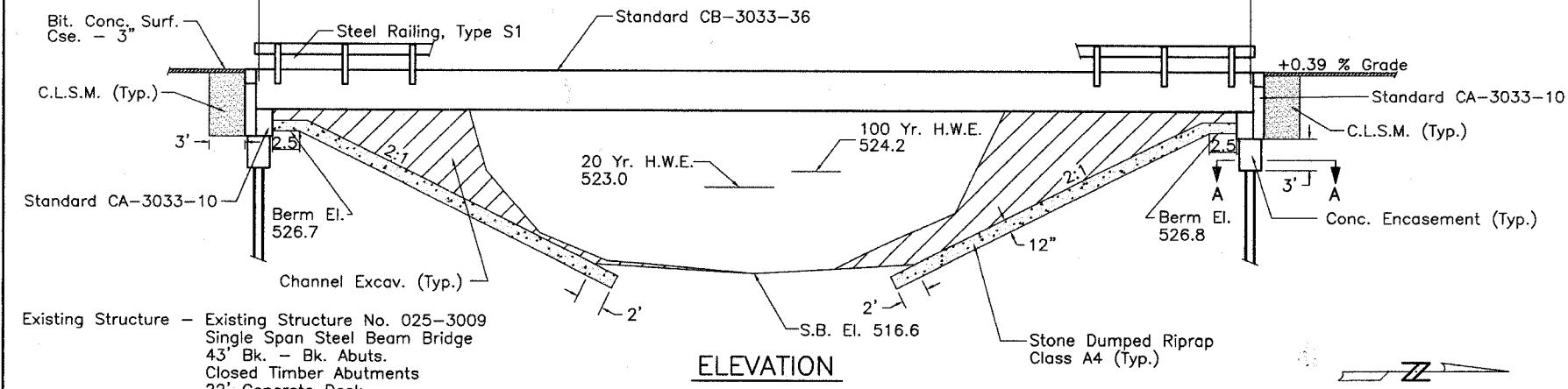


550	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	AGG. BASE CSE., TYPE B	TON	20	BIT. CONC. SURF. CSE., SUPERPAVE, MIX "C", N70	TON	34	EXISTING PROFILE	550		
545											545		
540										TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	540
535	EARTHWORK	CU. YD.	235							PROPOSED ϕ SURFACE			535
530	CHANNEL EXCAVATION EARTH EXCAVATION EMBANKMENT FURNISHED EXCAVATION		235 25 600 405										530
525										FENCE (EROSION CONTROL)	FOOT	250	525
520	BITUMINOUS SURFACE REMOVAL (SPECIAL)	SQ. YD.	205										520
515										STONE RIPRAP DITCH	TON	12	515
510										P.R.C.F.E.S. 18"	EACH	1	510
505													505



B.M. - Rt. Sta. 6+66
Spike in Cor. Post
Elev. 535.66

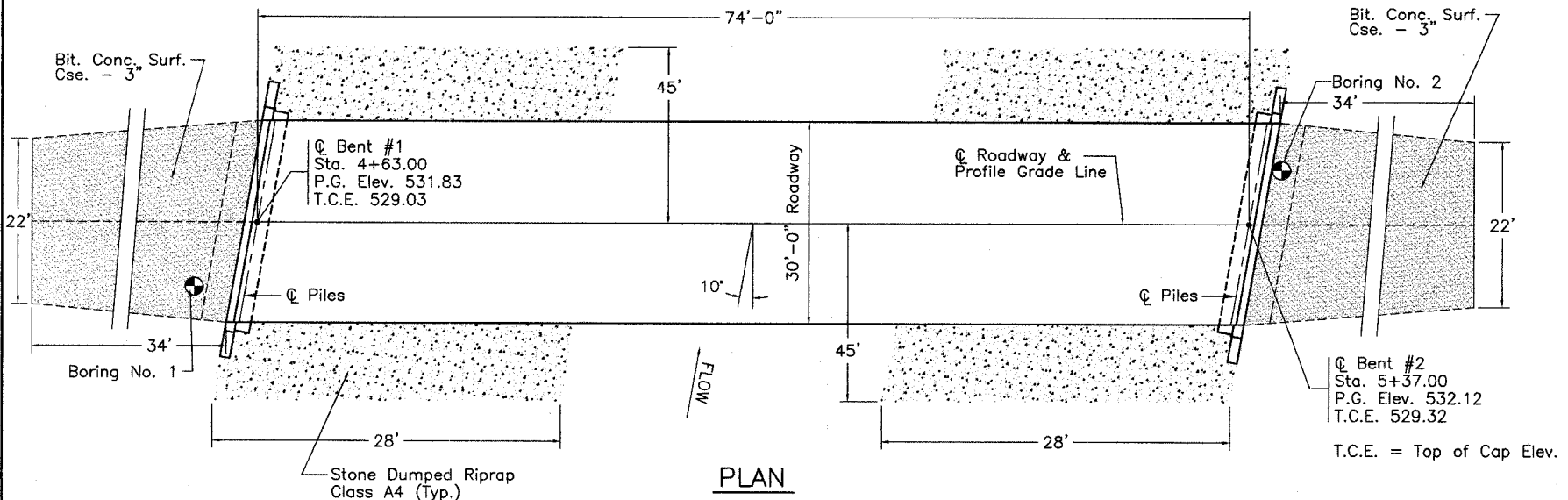
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	4
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	



- GENERAL NOTES**
- The Contractor shall drive 1 test pile as specified in Bent #2 before ordering the remaining piles.
 - See Special Provisions for boring logs.
 - Channel Excavation: This material shall be excavated as shown within the limits of the proposed bridge then tapered to the existing channel at the Roadway R.O.W. It is estimated that 50% of the Channel Excavation will be suitable for use in the embankment. Unsuitable material shall be disposed of by the Contractor.
 - A Corrosion Inhibitor as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
 - Reinforcement bars shall conform to the requirements of AASHTO M-31 or M322, Grade 60.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Concrete Structures	Cu.Yds.			23.4	23.4
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq.Ft.	2250			2250
Steel Railing, Type S-1	Foot	150			150
Reinforcement Bars	Pound			2900	2900
Furnishing Steel Piles HP 12 X 53	Foot			550	550
Driving Steel Piles	Foot			550	550
Test Pile Steel HP 12 X 53	Each			1	1
Name Plates	Each			1	1
Concrete Encasement	Cu.Yds.			4.1	4.1
Stone Dumped Riprap, Class A-4	Tons			240	240
Channel Excavation	Cu.Yds.			235	235
Waterproof Membrane System	Sq.Yds.	250			250
Portland Cement Mortar Fairing Cse.	Foot	675			675
Controlled Low-Strength Material	Cu.Yds.			40	40
Bit. Conc. Surf. Cse., Superpave	Ton	30			30



Salvage - Any material deemed salvageable by the Engineer shall be stockpiled on the R.O.W. and shall become the property of Effingham County. The Contractor shall dispose of all remaining material.

DESIGN SPECIFICATIONS

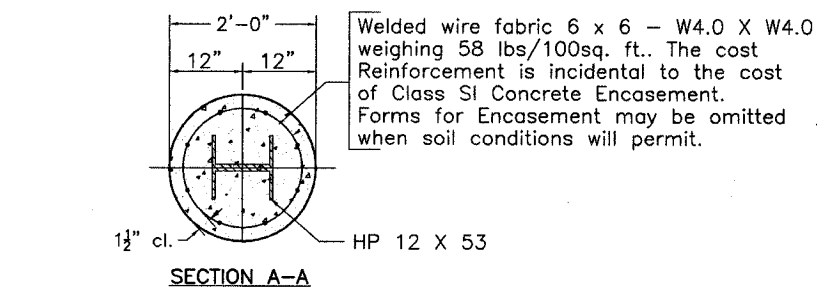
2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 7.2% g
Site Coefficient (S) =



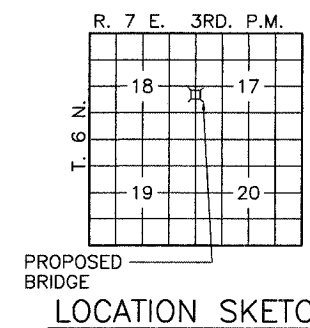
PILE DATA (2-ABUTS.)

Type	HP 12 X 53
Capacity	Refusal
Estimated Length	50'
Number Required	12 Includes 1 Test Pile in Bent #2

WATERWAY INFORMATION

Drainage Area = 4.85 Sq. Mi. Low Grade Elev. = 531.7 @ Sta. 4+50

Flood	Freq. Yr.	Q ft ³ /s	Opening ft ²		Nat. H.W.E.	Head - ft		Headwater	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	1015	275	403	523.0	0.0	0.0	523.0	523.0
Base	100	1475	311	475	524.2	0.0	0.0	524.2	524.2
Overtopping									
Max. Calc.	500								



STATION 5+00.00
RAMSEY CREEK
SEC. 05-00085-00-BR BUILT 200
EFFINGHAM COUNTY
PROJECT BRS-709(103)
LOADING HS20
STR. NO. 025-3221

LETTERING FOR NAME PLATE

Locate Name Plate at S.E. corner of Bridge (See Std. CN)

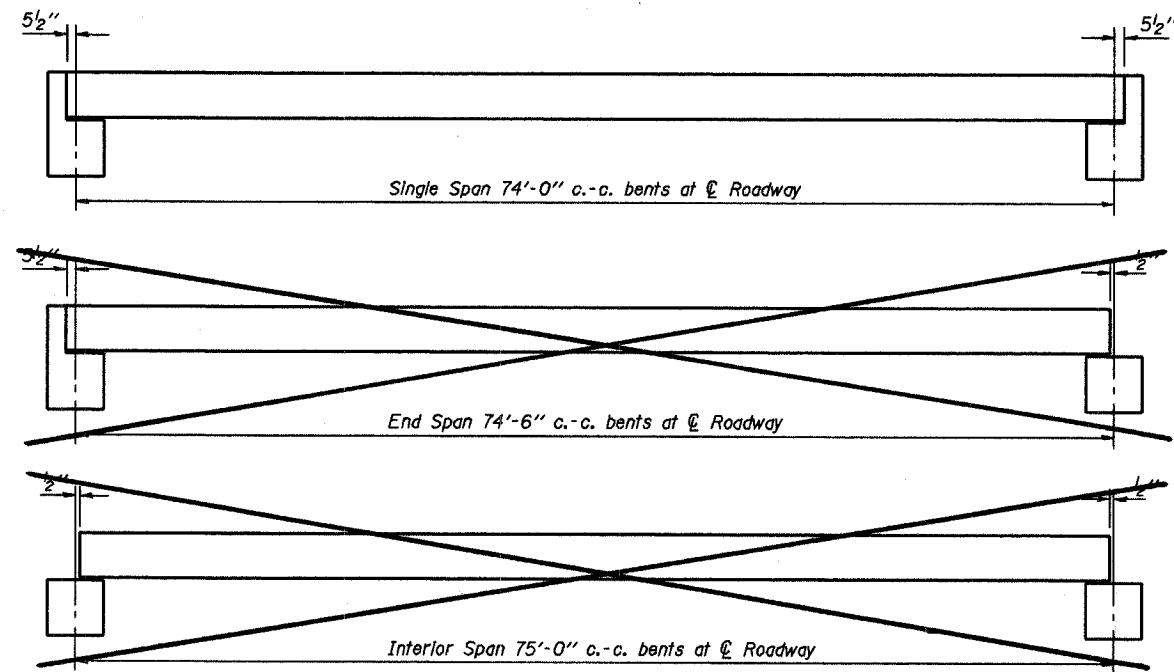
- INDEX OF SHEETS**
- GENERAL PLAN & ELEVATION
 - STANDARD CS-3033-75L
 - STANDARD CB-3033-36
 - STANDARD CA-3033-10
 - STANDARD CR-TS1
 - STANDARD CN
 - STANDARD CX-1

I certify these Standard Bridge Plans for foundation treatment only.

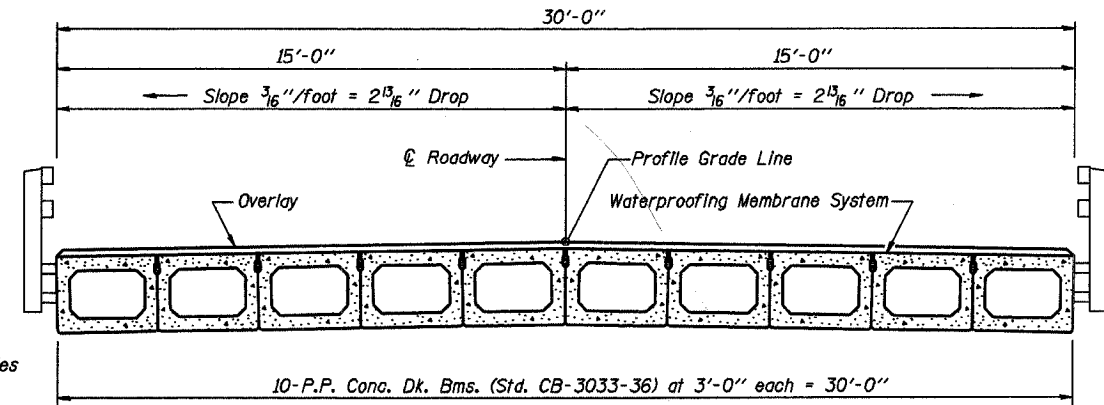
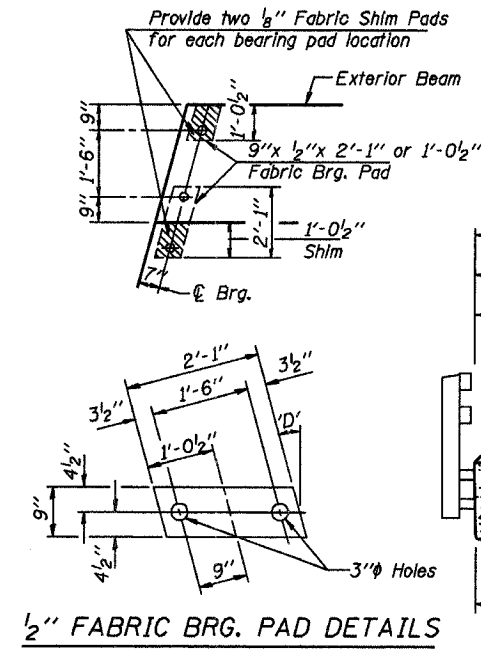
GENERAL PLAN & ELEVATION

F.A.S. ROUTE 709
OVER RAMSEY CREEK

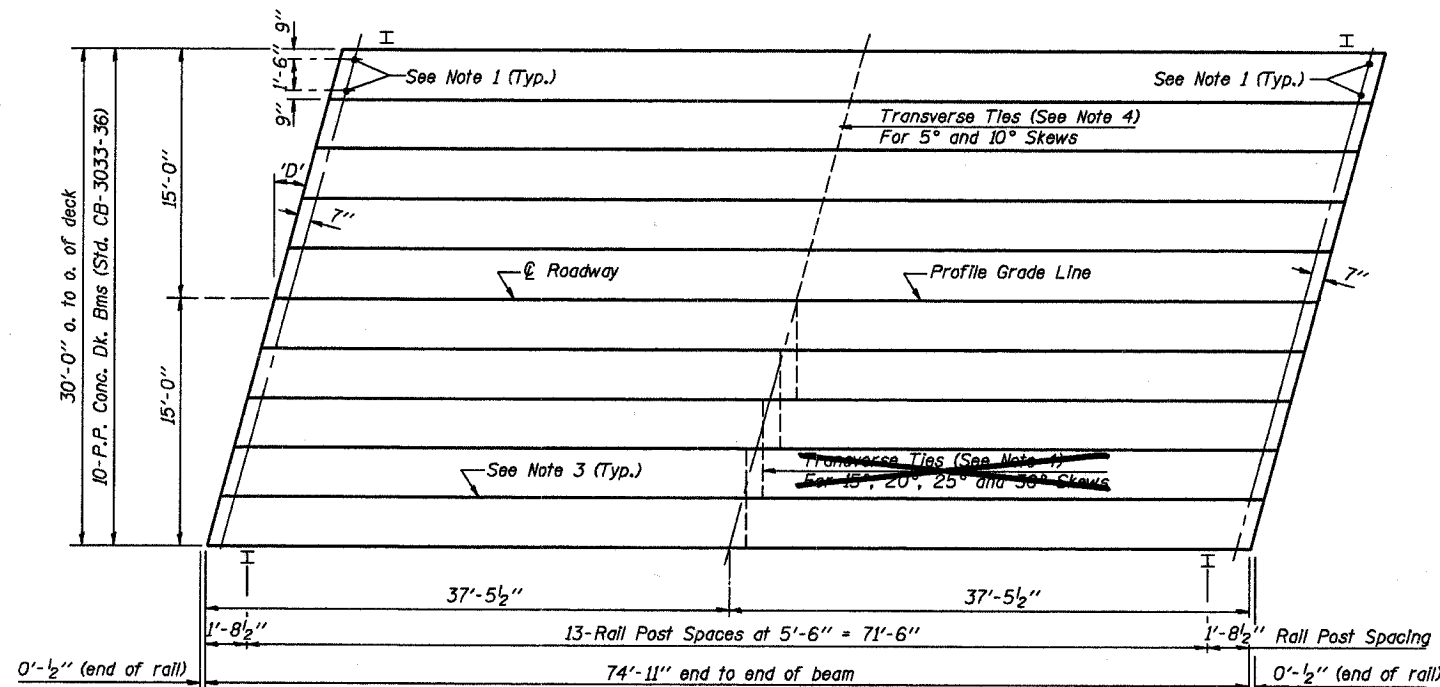
SECTION 05-00085-00-BR
EFFINGHAM COUNTY
STATION 5+00.00



TYPICAL ELEVATIONS

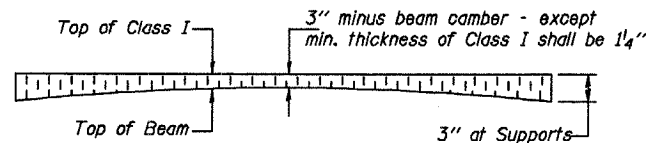


CROSS SECTION



PLAN

('D' = Designated Skew Angle)



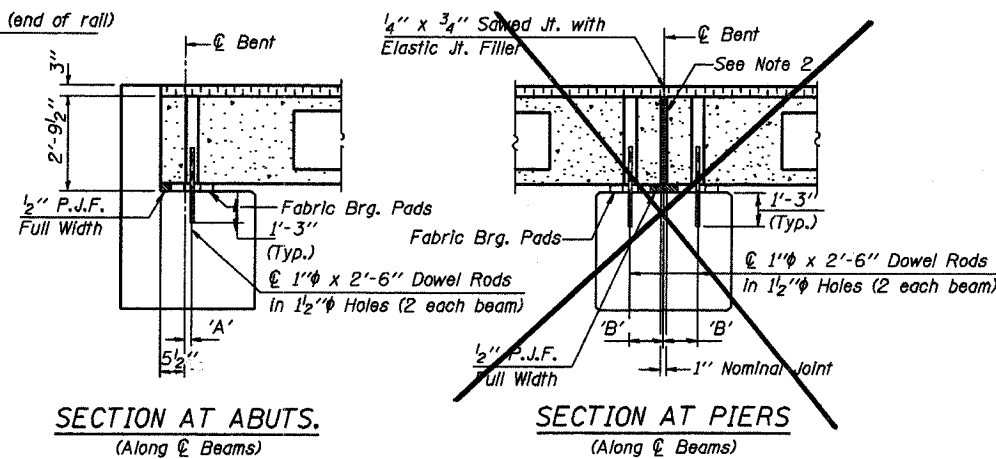
PROFILE OF OVERLAY

DIMENSIONS 'A' AND 'B'

'D'	5°	10°	15°	20°	25°	30°
A	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/8"
B	1 1/2"	7/8"	7/8"	7/8"	8/8"	8 5/8"

NOTES

- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
- Nominal 1" joint at centerline pier shall be filled with non-shrink grout.
- Longitudinal keys shall be grouted.
- 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 outside shall be filled with grout after transverse tie assembly is in place.



SECTION AT ABUTS.
(Along centerline Beams)

SECTION AT PIERS
(Along centerline Beams)

QUANTITIES FOR ONE SPAN

P.P. Conc. Dk. Bm. 33" Dp.	2250 Sq. Ft.
Steel Railing	150 Ft.
Waterproofing Membrane System	250.0 Sq. Yds.
Portland Cement Mortar	675 Ft.
Fairing Course	

Note: Quantity of overlay for one span = 30.1 Tons

P.P.C. DECK BEAM SUPERSTRUCTURE			
30' RDWY.	33" BMS.	75' SPAN	LEFT
STANDARD CS-3033-75L			

Illinois Department of Transportation

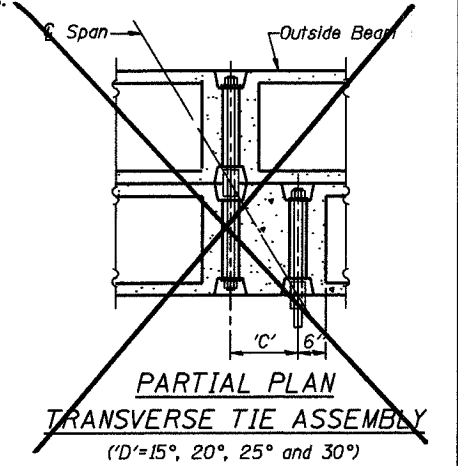
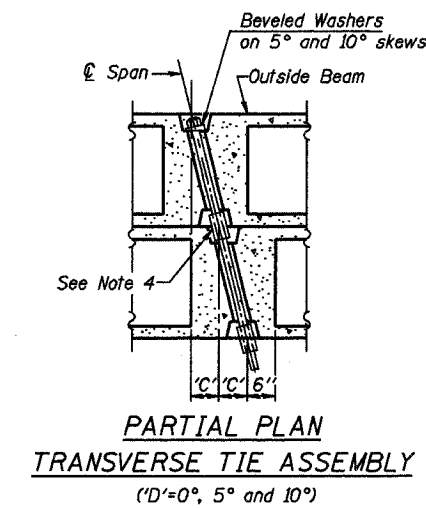
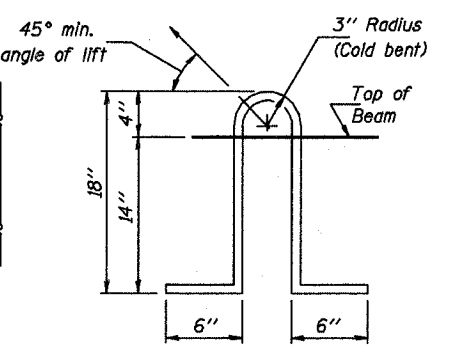
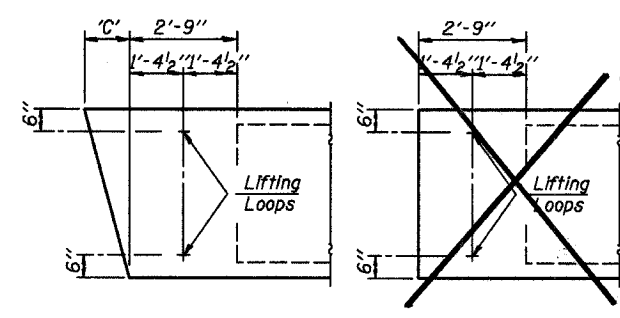
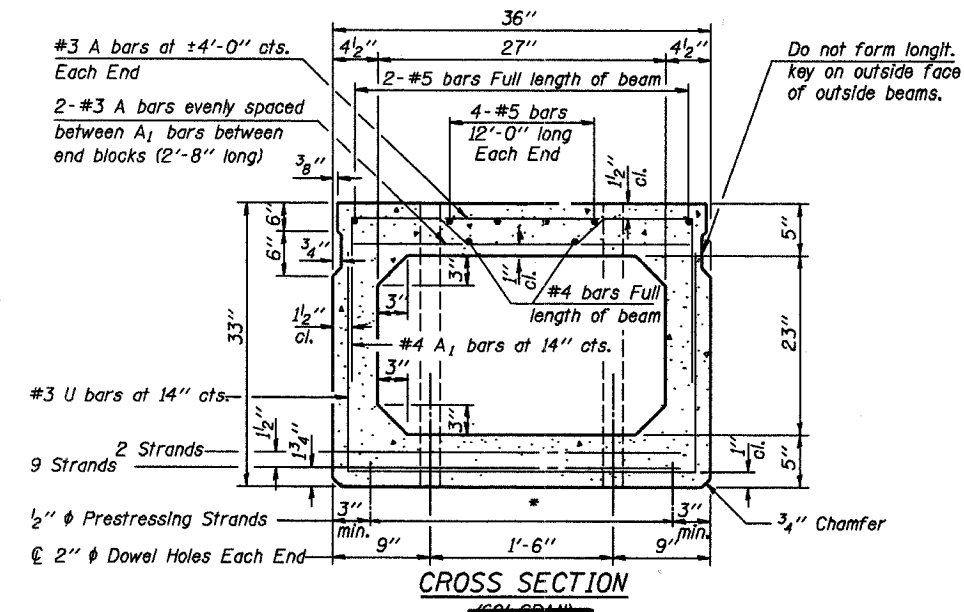
PASSED APRIL 4, 2005

Theresa S. Namasalebi
Engineer of Bridge Design

APPROVED APRIL 4, 2005

Ralph E. Anderson
Engineer of Bridges and Structures

ISSUED 4-4-2005



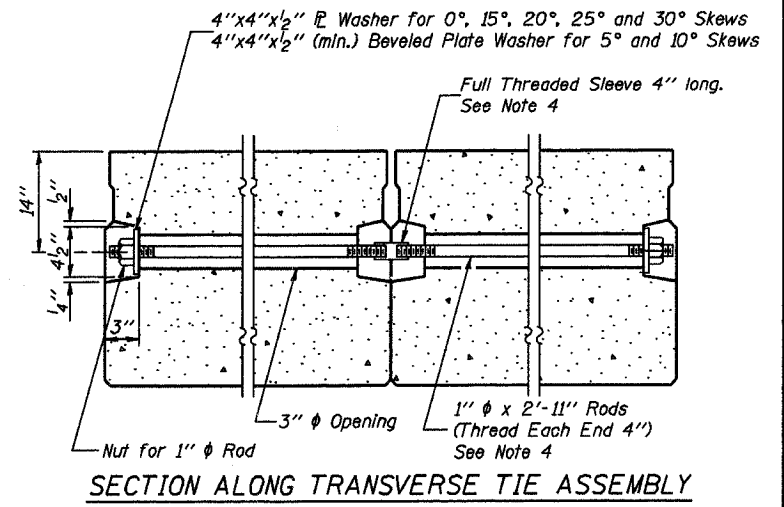
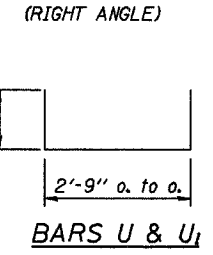
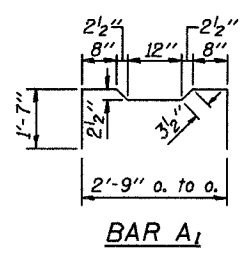
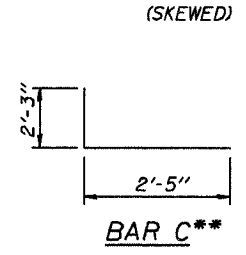
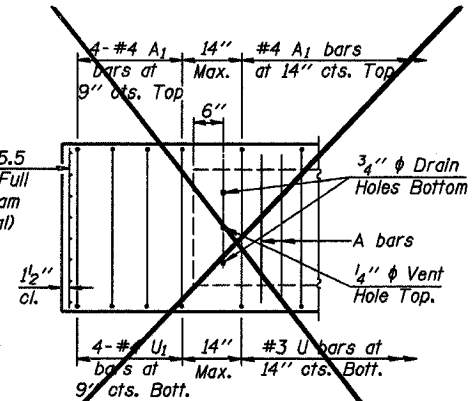
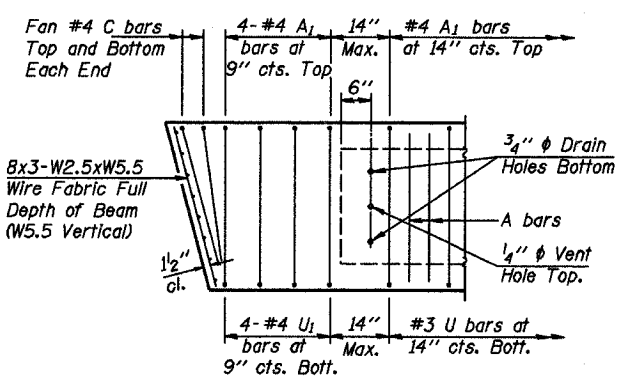
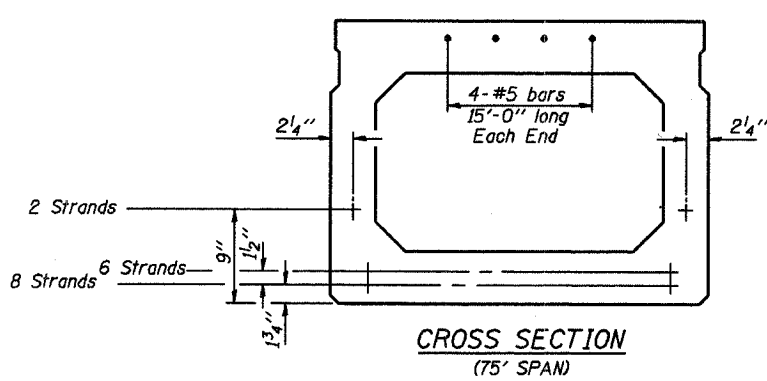
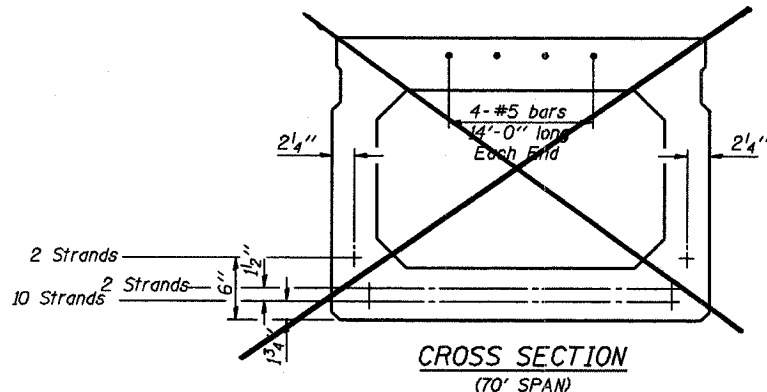
DIMENSION 'C'

Skew Angle 'D'	0°	5°	10°	15°	20°	25°	30°
Dimension 'C' (Inches)	2'-0"	2'-0"	6'-3/8"	9'-0"	13'-0"	16'-0"	20'-0"

*** TRANSVERSE STRAND 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.



NOTES

1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
2. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 square inches.
3. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60.
4. On 0°, 5° and 10° skew angles, alternate approved transverse tie rods of increased segmental length are acceptable.
5. Rail Post anchor devices shall be cast into outside beam as elsewhere specified.
6. When a Waterproofing Membrane System is specified, the top surface of the beams shall be screeded with a straightedge and finished with a hand float. The finished surface shall be free of depressions or high spots with sharp corners and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
7. 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 the top of the beam and the bottom edge of the key.

DESIGN STRESSES

$f'_c = 5,000$ p.s.i.
 $f'_{ci} = 4,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. (1/2" ϕ Strand)
 $f_{st} = 201,960$ p.s.i. (1/2" ϕ Strand)
 $f_y = 60,000$ p.s.i.

MIN. BAR LAP

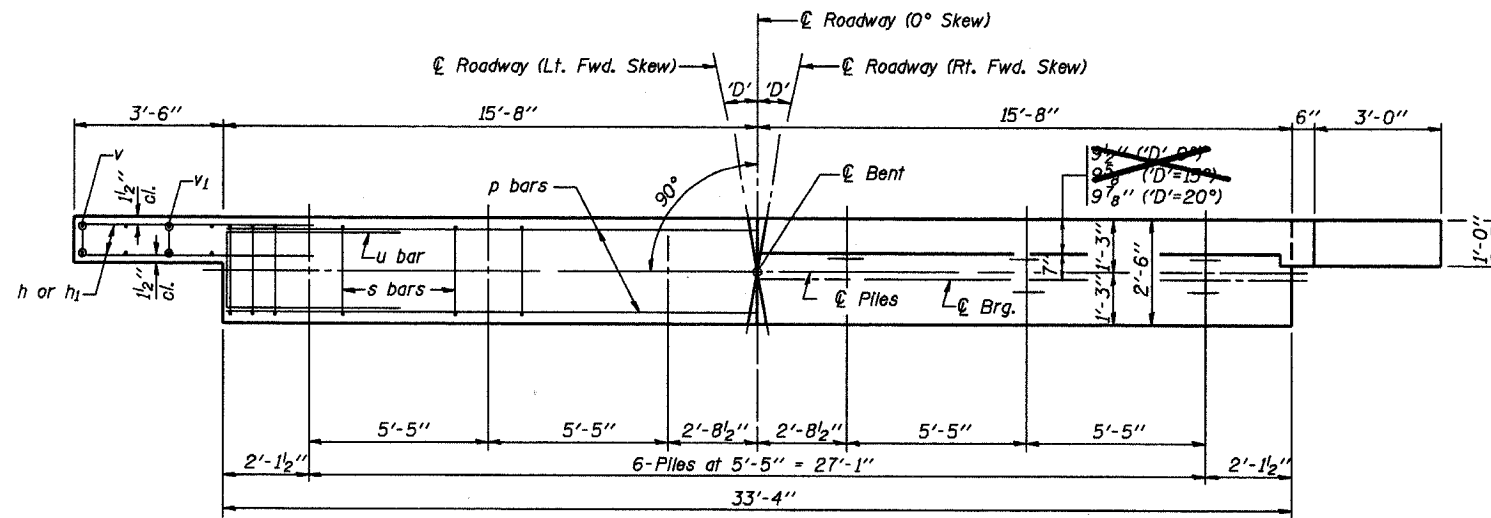
#4 bars = 1'-4"
 #5 bars = 1'-8"

****NOTE:**
 The following number of C bars shall be used:
 Skew No.
 5° and 10° — 1
 15° and 20° — 2
 25° and 30° — 3

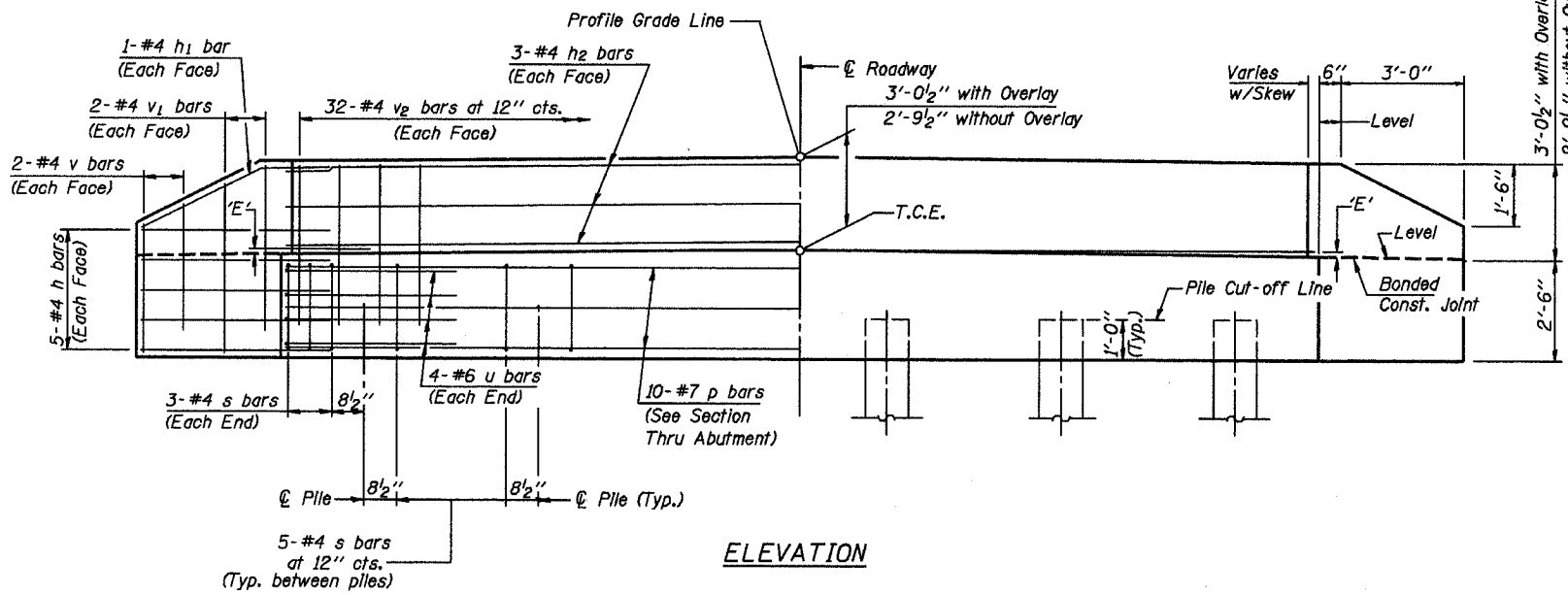
NOTE:
 The std. reinf. and dimensions shown on the 60' span cross section is typical for all spans, except as shown.

Illinois Department of Transportation
 PASSED APRIL 4, 2005
 Theresia J. Namasalaba
 Engineer of Bridge Design
 APPROVED APRIL 4, 2005
 Ralph E. Anderson
 Engineer of Bridges and Structures

P.P.C. DECK BEAM DETAILS
 30' ROADWAY | 33" x 36" BEAMS
 STANDARD CB-3033-36



PLAN
(D' = Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	'D'=0°		'D'=5°		'D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 7/8"	2 7/8"	2 7/8"	2 7/8"	2 7/8"	2 7/8"
Over 0% to 1%	2 7/8"	2 7/8"	2 7/8"	3"	2 3/4"	3"
Over 1% to 2%	2 7/8"	2 7/8"	2 7/8"	3"	2 3/8"	3 3/8"
Over 2% to 3%	2 7/8"	2 7/8"	2 7/8"	3 3/8"	2 3/8"	3 3/8"
Over 3% to 4%	2 7/8"	2 7/8"	2 3/8"	3 1/2"	1 3/4"	4"

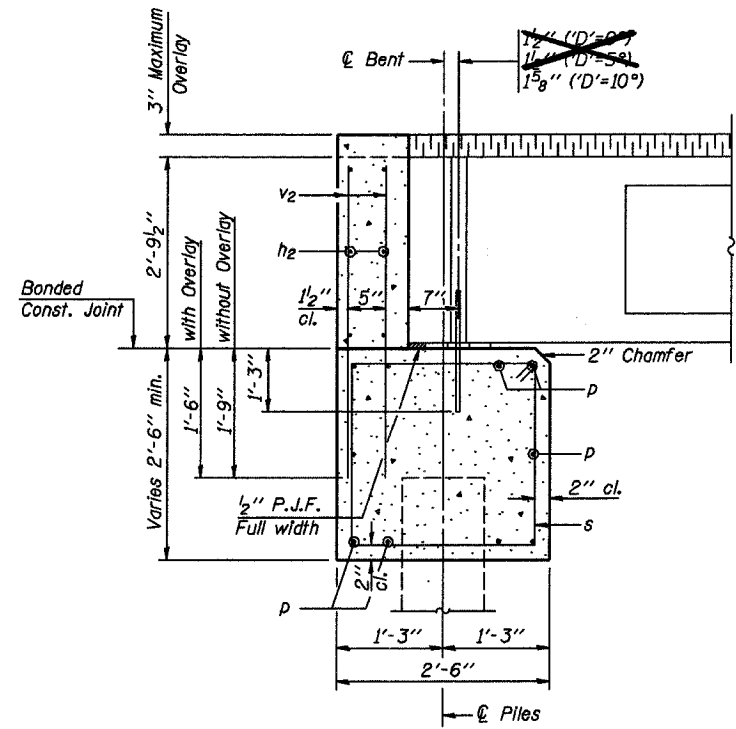
- NOTES**
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
 - Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
 - Space reinforcement in cap to miss anchor bolts.

MAXIMUM PILE LOADS

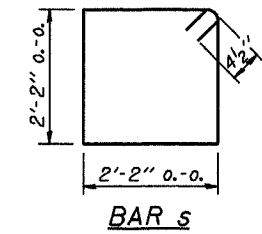
SPAN	TONS
60'	35
70'	39
75'	41

DESIGN STRESSES

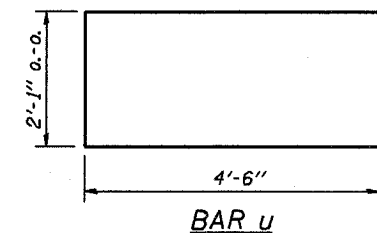
f'c = 3,500 psi
fy = 60,000 psi



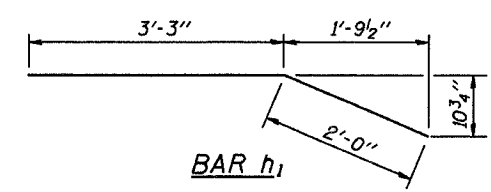
SECTION THRU ABUTMENT
(At Right Angles)



BAR s



BAR u



BAR h1

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	20	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	33'-0"	—
p	10	#7	33'-0"	—
s	31	#4	9'-5"	□
u	8	#6	11'-1"	□
v	8	#4	3'-8"	—
v1	8	#4	4'-8"	—
v2	64	#4	4'-5"	—
Concrete Structures				11.7 Cu. Yds.
Reinforcement Bars				1450 Lb.

P.P.C. DECK BEAMS	
PILE BENT ABUTMENT	
30' RDWY.	33" BMS. 'D'=0°, 5° OR 10°
STANDARD CA-3033-10	

Illinois Department of Transportation
 PASSED APRIL 4, 2005
 Theresia Demas (Signature)
 Engineer of Bridge Design
 APPROVED APRIL 4, 2005
 Ralph E. Anderson (Signature)
 Engineer of Bridges and Structures

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft.-lbs. at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270 Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A307 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 according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M-111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.

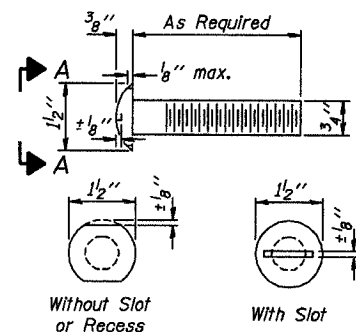
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with STEEL RAILING, TYPE S-1.

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

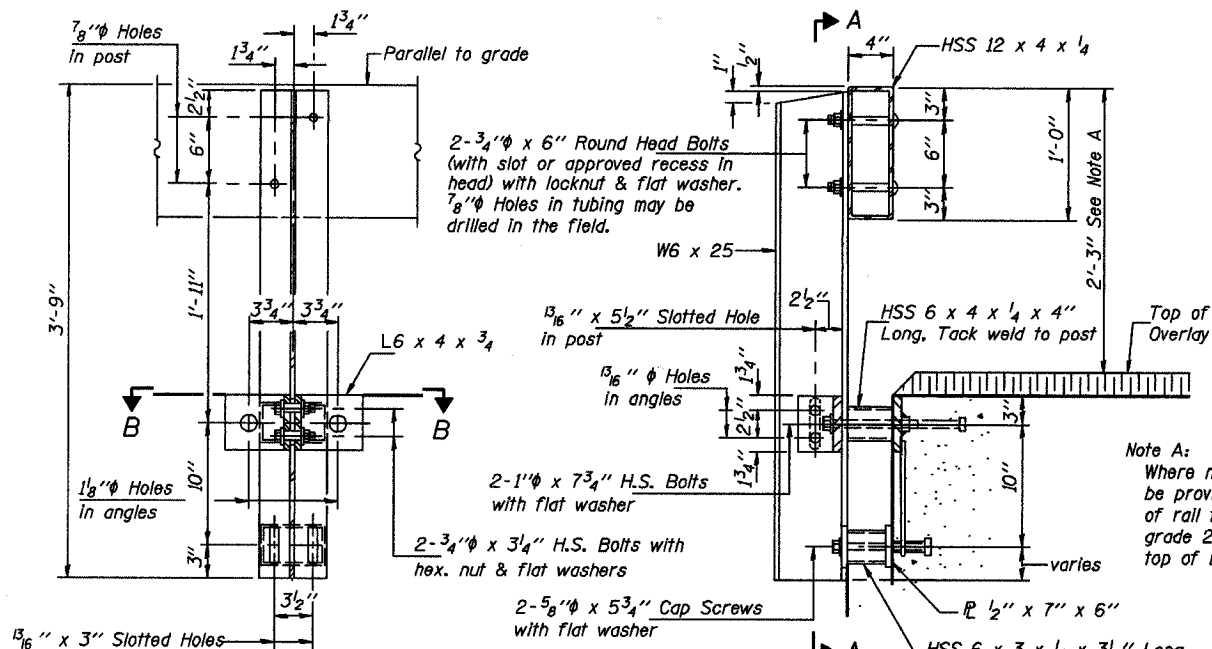
The 2" x 7" x 6" plates that come in contact with concrete shall either receive two coats of asphalt paint conforming to Section 1060.07 Type II, or 1/8" fabric bearing pads shall be placed between the plates and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04 (f)(2) 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 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

The maximum allowable rail post spacing shall be 10'-6". The rail post spacing shown elsewhere in the plans is based on the allowable spacing for another type of rail. When this type of rail is used, the number of posts may be decreased and the post spacing increased to provide equal post spaces of 10'-6" or less.

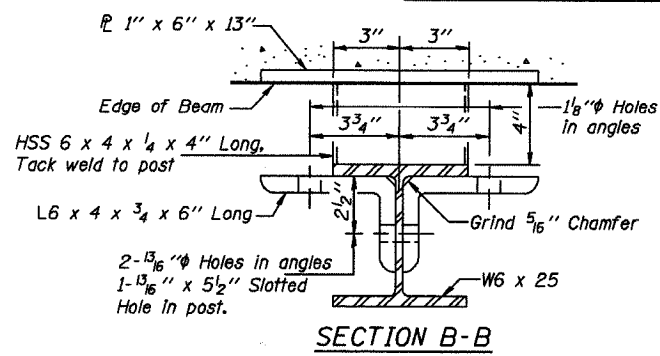


**VIEW A-A
ROUND HEAD BOLT**

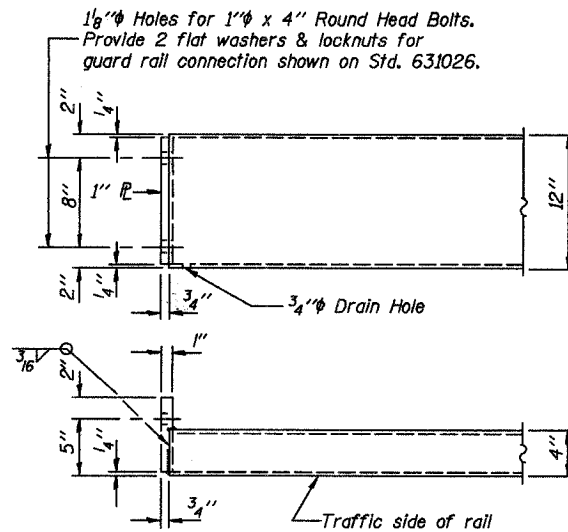


SECTION A-A

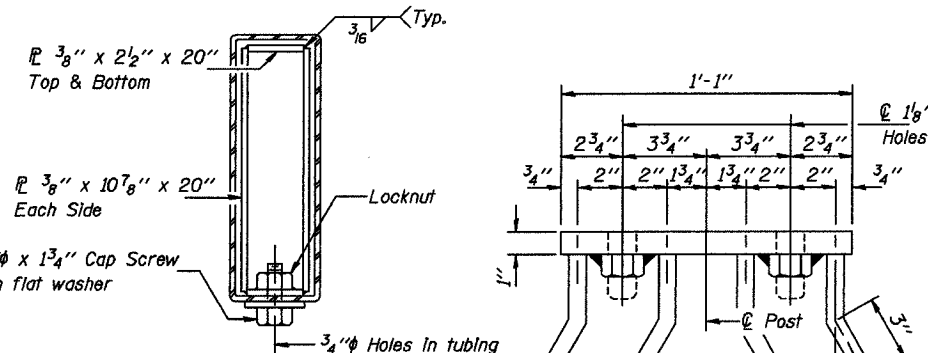
SECTION AT RAIL POST



SECTION B-B

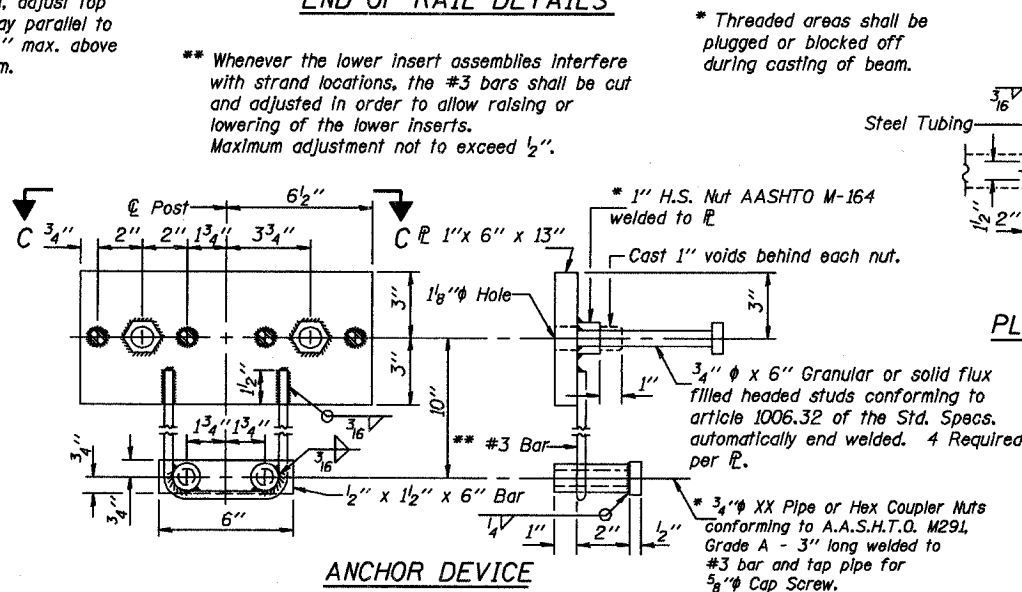


END OF RAIL DETAILS

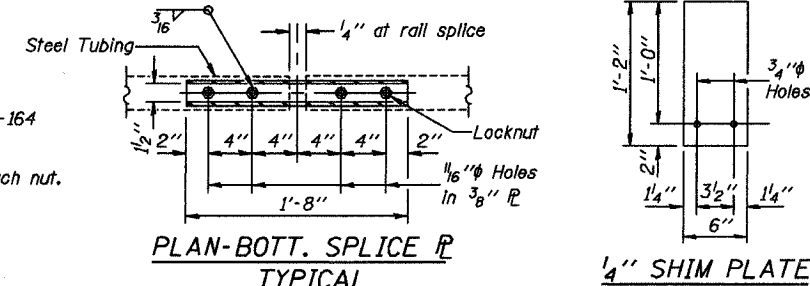


SECTION AT RAIL SPLICE

VIEW C-C



ANCHOR DEVICE

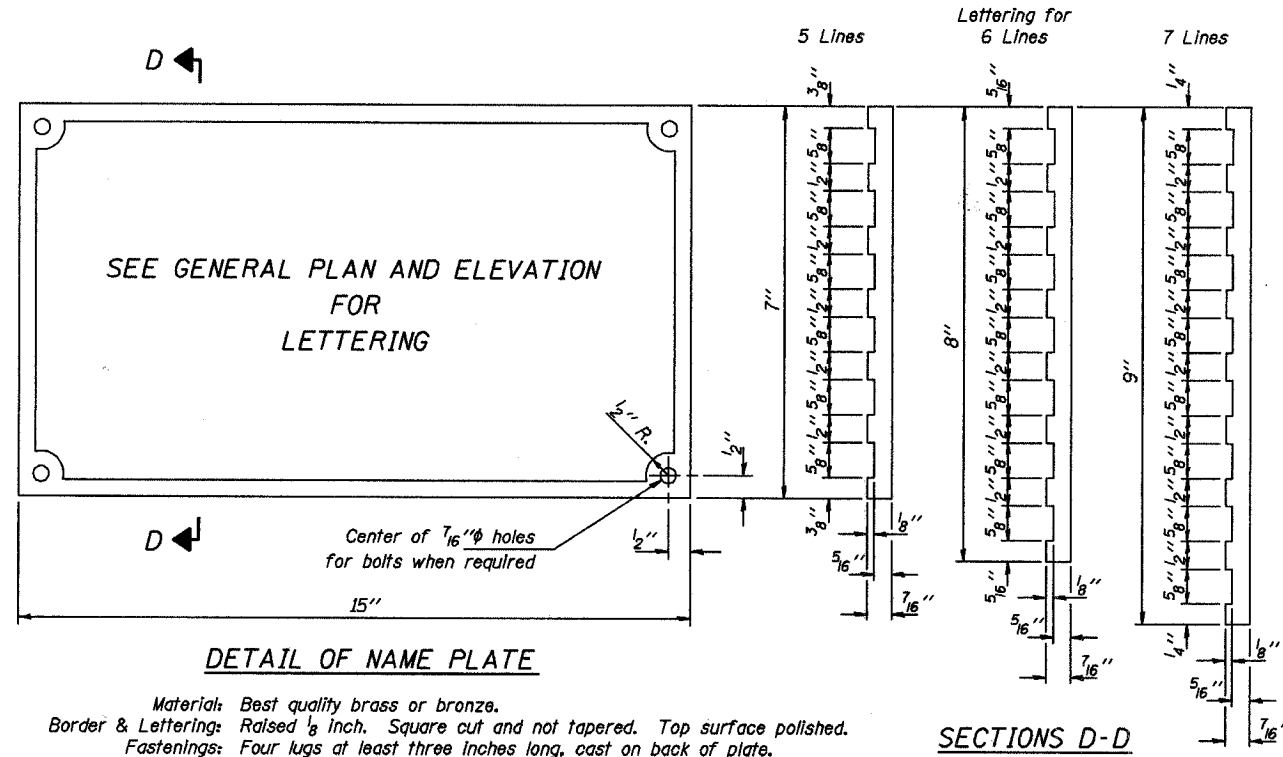


**PLAN-BOTT. SPLICE P
TYPICAL**

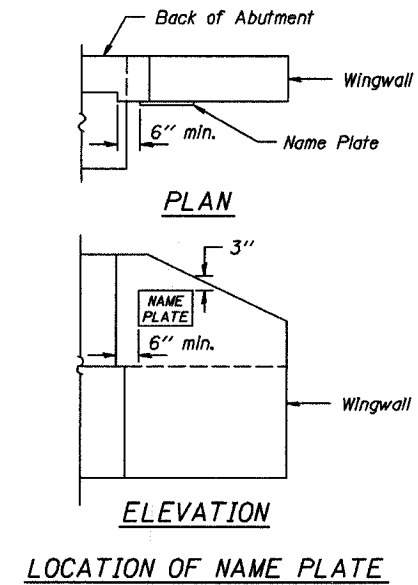
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Illinois Department of Transportation
 PASSED APRIL 4, 2005
 Thomas J. Nemaalabi
 Engineer of Bridge Design
 APPROVED APRIL 4, 2005
 Ralph E. Anderson
 Engineer of Bridges and Structures

**STEEL RAILING, TYPE S-1
STANDARD CR-TS1**



Material: Best quality brass or bronze.
 Border & Lettering: Raised $\frac{1}{8}$ inch. Square cut and not tapered. Top surface polished.
 Fastenings: Four lugs at least three inches long, cast on back of plate.



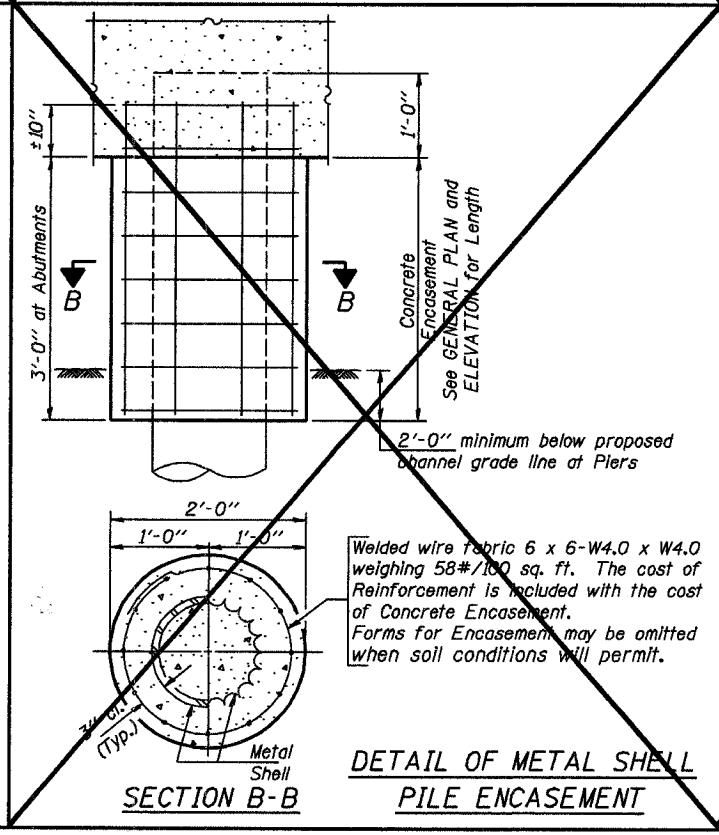
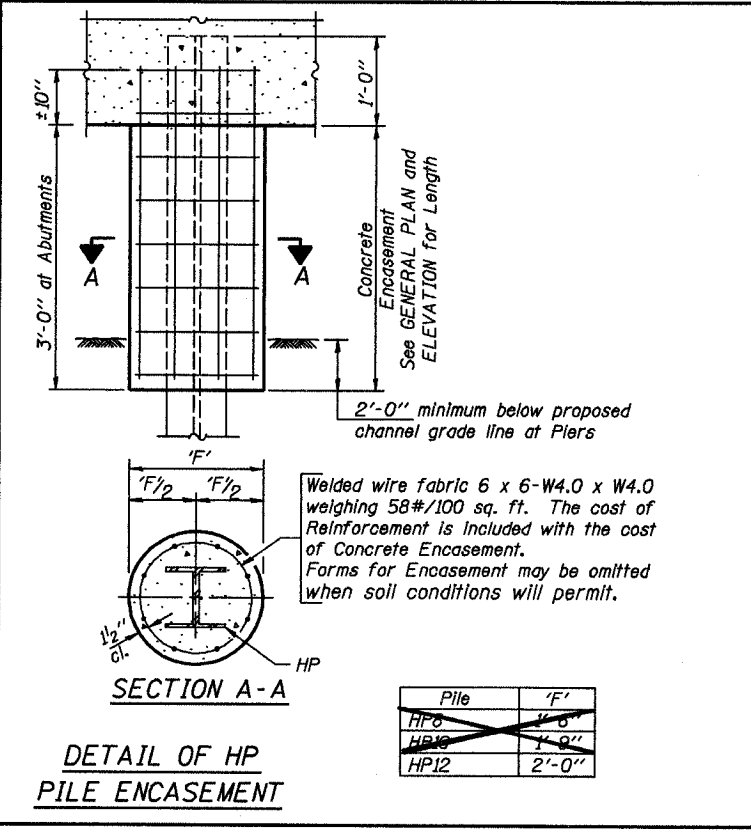
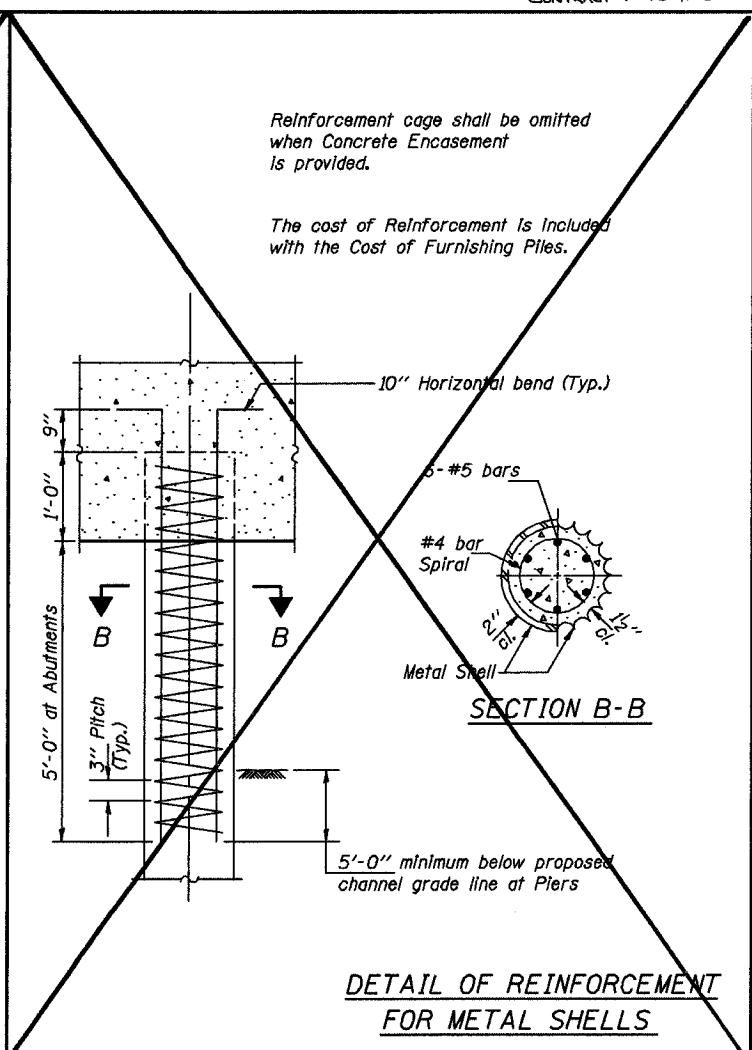
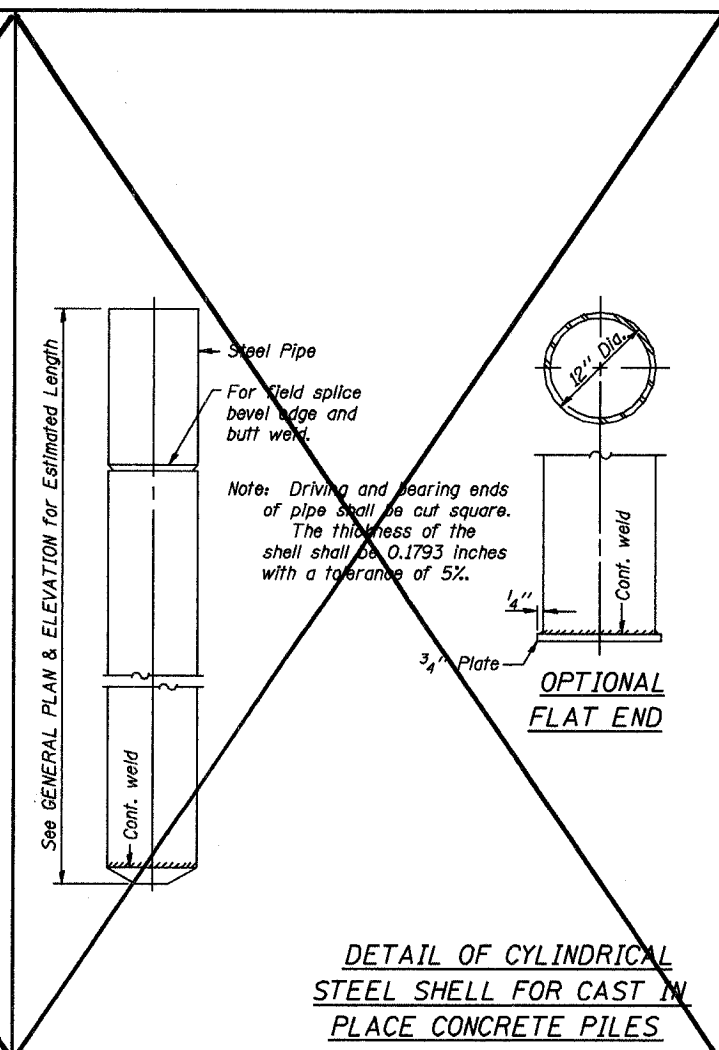
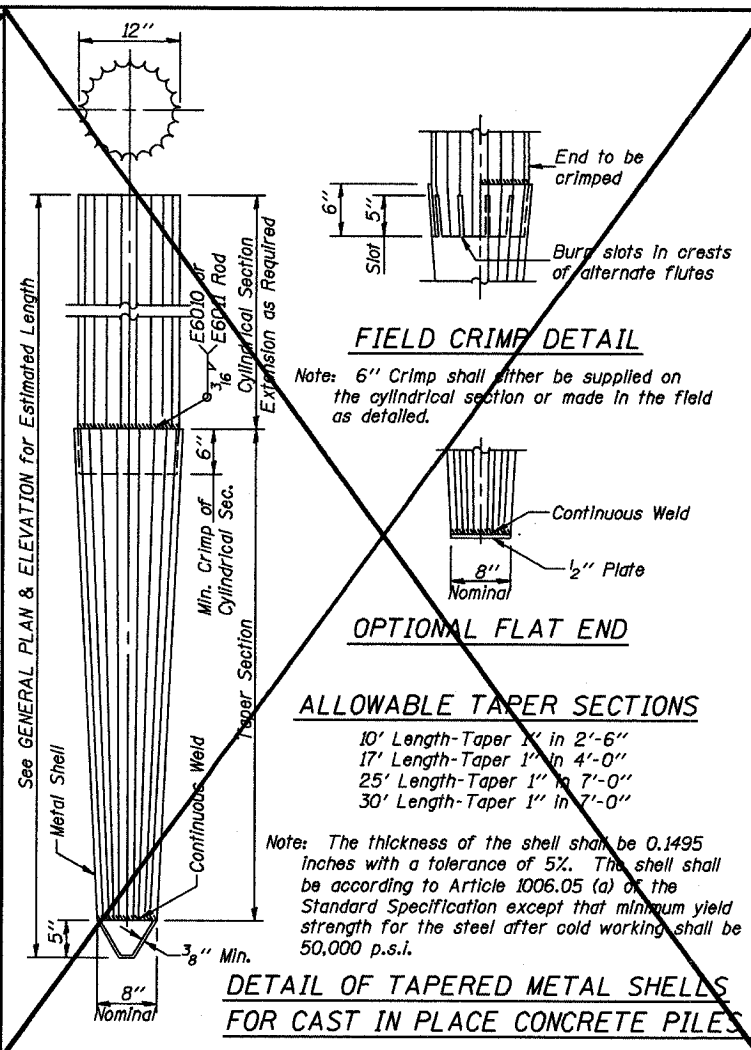
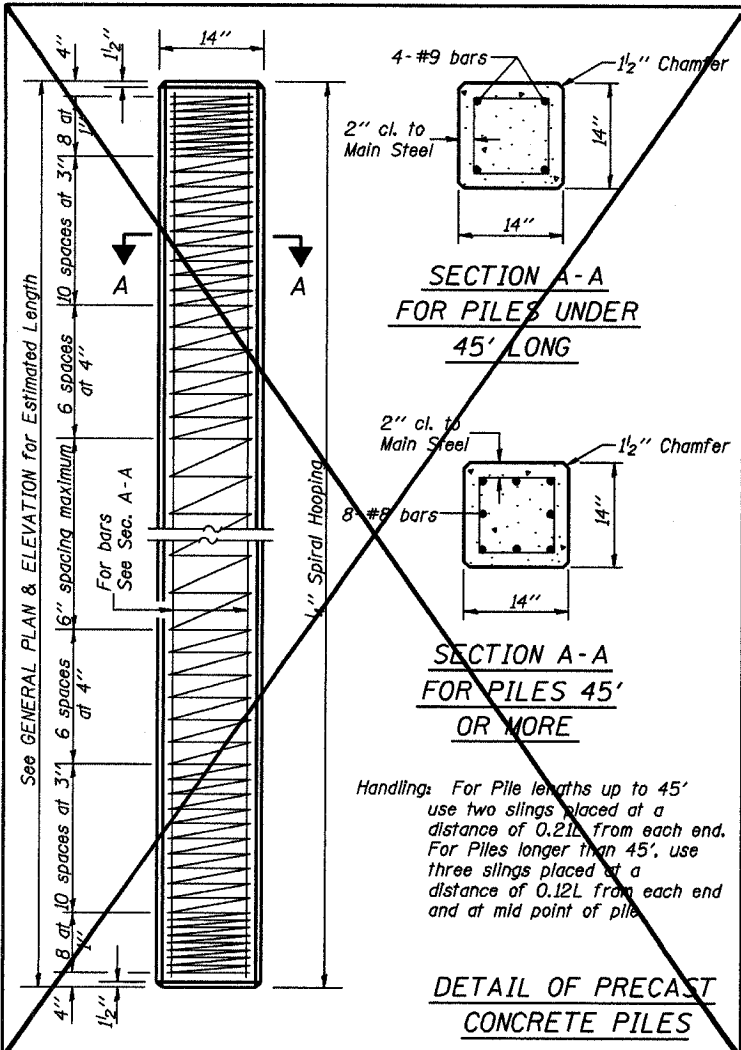
Illinois Department of Transportation

PASSED APRIL 4, 2005
 Thomas J. Namasinski
 Engineer of Bridge Design

APPROVED APRIL 4, 2005
 Ralph E. Anderson
 Engineer of Bridges and Structures

ISSUED 7-1-05

NAME PLATE
 STANDARD CN



QUANTITIES/FT. OF ENCASEMENT (STEEL PILES)

Pile Size	Item	Quantity
HP8	Concrete Encasement	0.063 C.Y.
HP10	Concrete Encasement	0.086 C.Y.
HP12	Concrete Encasement	0.112 C.Y.

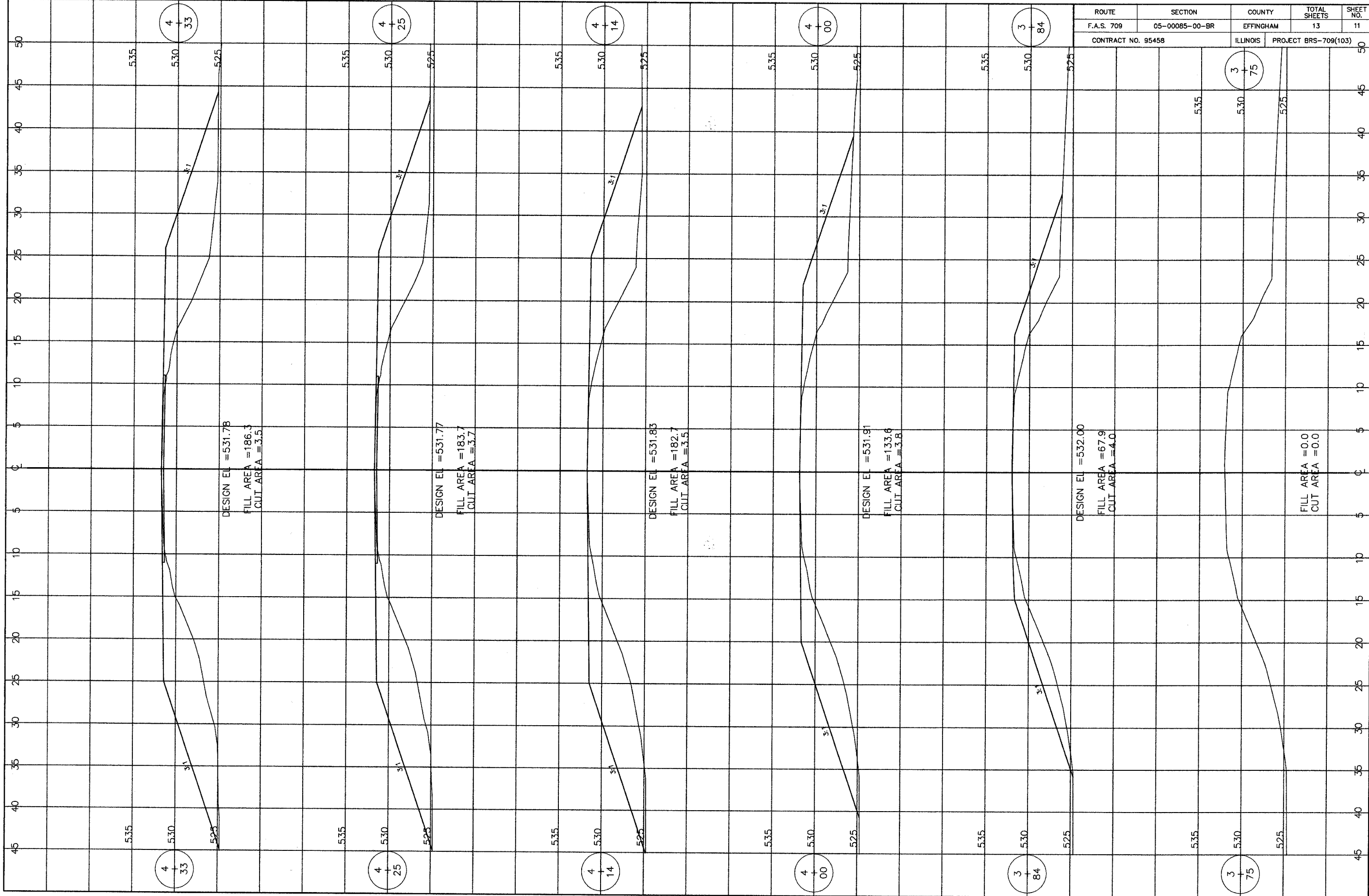
(METAL SHELL PILES)

Pile Size	Item	Quantity
12" Dia.	Concrete Encasement	0.087 C.Y.

Illinois Department of Transportation
 PASSED FEBRUARY 1, 2000
 Approved by: *Thomas J. Demas*
 Engineer of Bridge Design
 APPROVED FEBRUARY 1, 2000
 Approved by: *Ralph E. Anderson*
 Engineer of Bridges and Structures

PILE DETAILS
 STANDARD CX-1

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	11
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	



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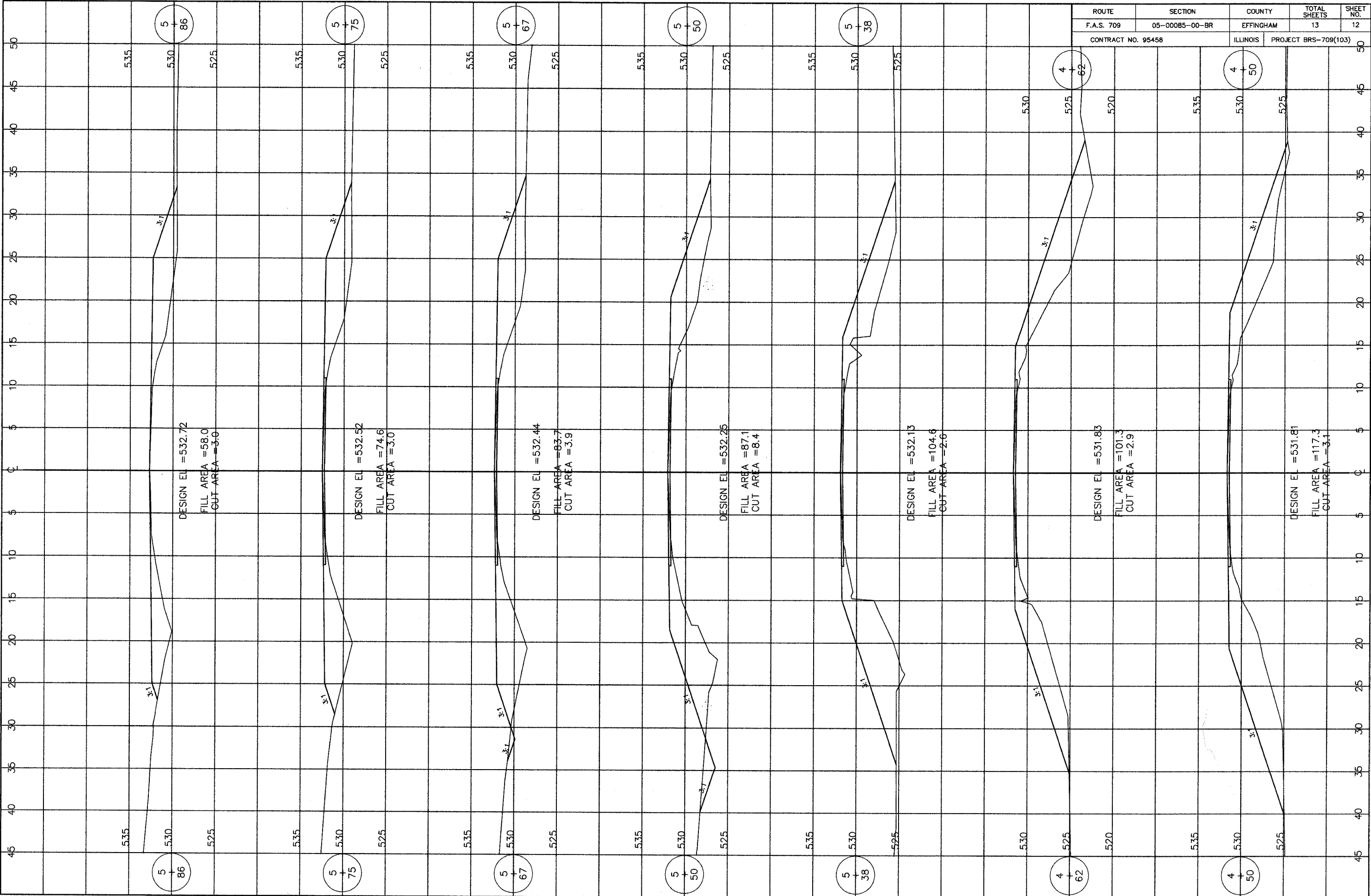
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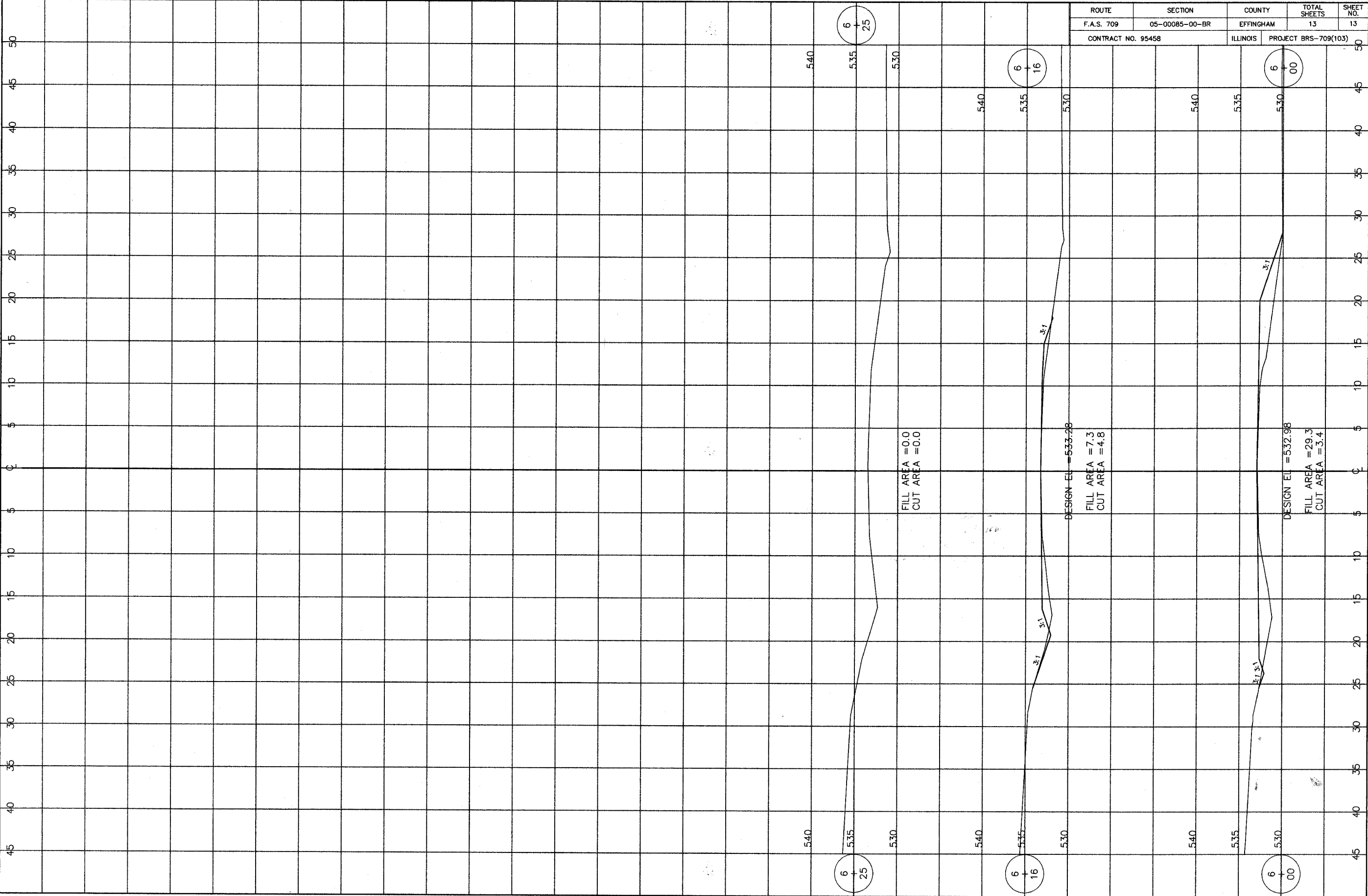
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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	12
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	13
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	

FILL AREA = 0.0
CUT AREA = 0.0

DESIGN EL = 533.28
FILL AREA = 7.3
CUT AREA = 4.8

DESIGN EL = 532.98
FILL AREA = 29.3
CUT AREA = 3.4