CONT. NO. 95444

INDEX OF SHEETS

STANDARDS: (SEE PROPOSAL)
280001–03 – EROSION CONTROL
702001–06 – TRAFFIC
BLR 21–6 – TRAFFIC
BLR 22–4 – TRAFFIC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL–AID B.R.R. PROGRAM

JASPER COUNTY
SECTION 05–05117–00–BR
STRUCTURE NO. 040–3251
PROJECT NO. BROS–079(130)
JOB NO. C–97–002–06
TR 302

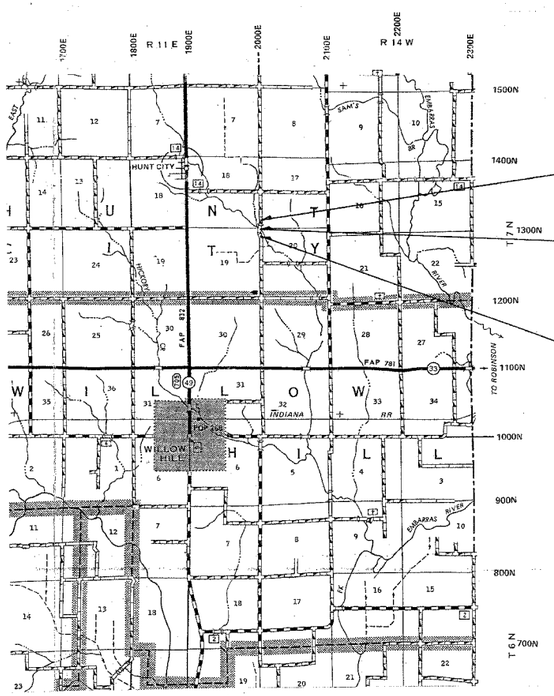
SUMMARY OF QUANTITIES

X081-2A

QUANTITY	UNIT	ITEM	CODE NO.
791	CU YD	EARTH EXCAVATION	20200100
80	CU YD	CHANNEL EXCAVATION	20300100
673	CU YD	FURNISHED EXCAVATION	20400800
0.9	ACRE	SEEDING, CLASS 2 (SPECIAL)	25001000
3	EACH	TEMPORARY DITCH CHECKS	28000300
70	FOOT	PERIMETER EROSION BARRIER	28000400
125	TON	STONE DUMPED RIPRAP, CLASS A4	28100807
40	TON	STONE RIPRAP DITCH	28102600
1	EACH	REMOVAL OF EXISTING STRUCTURES	50100100
22.2	CU YD	CONCRETE STRUCTURES	50300225
1680	SQ FT	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	50400505
2680	POUND	REINFORCEMENT BARS	50800105
120	FOOT	STEEL RAILING, TYPE S1	50900205
270	FOOT	FURNISHING STEEL PILES HP 10X42	51201400
270	FOOT	DRIVING PILES	51202305
1	EACH	TEST PILE STEEL HP 10X42	51203400
2.6	CU YD	CONCRETE ENCASEMENT	50300280
1	EACH	NAME PLATES	51500100
40	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 15"	542D0220
1	L SUM	MOBILIZATION	67100100
1	L SUM	TRAFFIC CONTROL AND PROTECTION	70101700

SCALES

PLAN	1 INCH = 50 FEET
PROFILE HORZ.	1 INCH = 50 FEET
PROFILE VERT.	1 INCH = 10 FEET
CROSS SECTIONS	1 INCH = 5 FEET



LOCATION MAP

APPROXIMATE SCALE: 1 INCH = 1 MILE
NET LENGTH = 1000 FT. = 0.189 MILES

FUNCTIONAL CLASS: RURAL LOCAL ROAD
ADT = 50

CONTRACT NO. 95444

TOLL FREE JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
TELEPHONE NO. 1–800–892–0123

PROFESSIONAL DESIGN FIRM #184–000832

Michael R... 10/26/2006
ILLINOIS REGISTERED PROFESSIONAL ENGINEER # 31350
LICENSE EXPIRES NOVEMBER 30, 2007

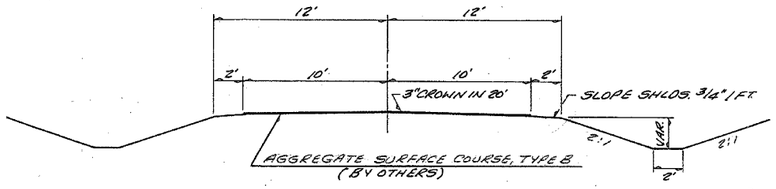
APPROVED 2-13, 2006
LOCAL AGENCY REPRESENTATIVE

PASSED 11/6, 2006
DISTRICT SEVEN ENGINEER
OF LOCAL ROADS & STREETS

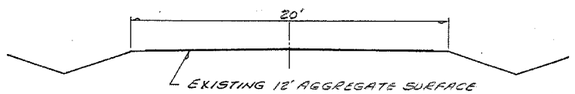
RELEASING FOR BID BASED ON LIMITED REVIEW
11/6, 2006
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 95444

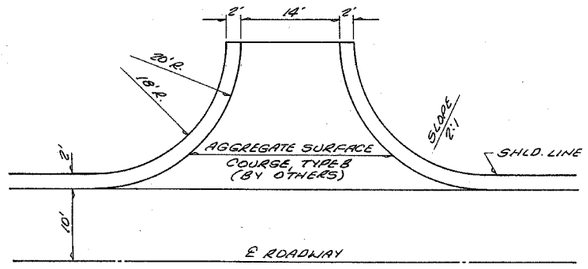
F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05117-00-BR	JASPER	10	2
STA. 8+00	TO STA. 19+00			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT BR05-079(130)		



TYPICAL CROSS SECTION OF PROPOSED IMPROVEMENT



TYPICAL CROSS SECTION OF EXISTING ROADWAY



DETAIL OF FIELD ENTRANCES

SEEDING CLASS 2 (SPECIAL)

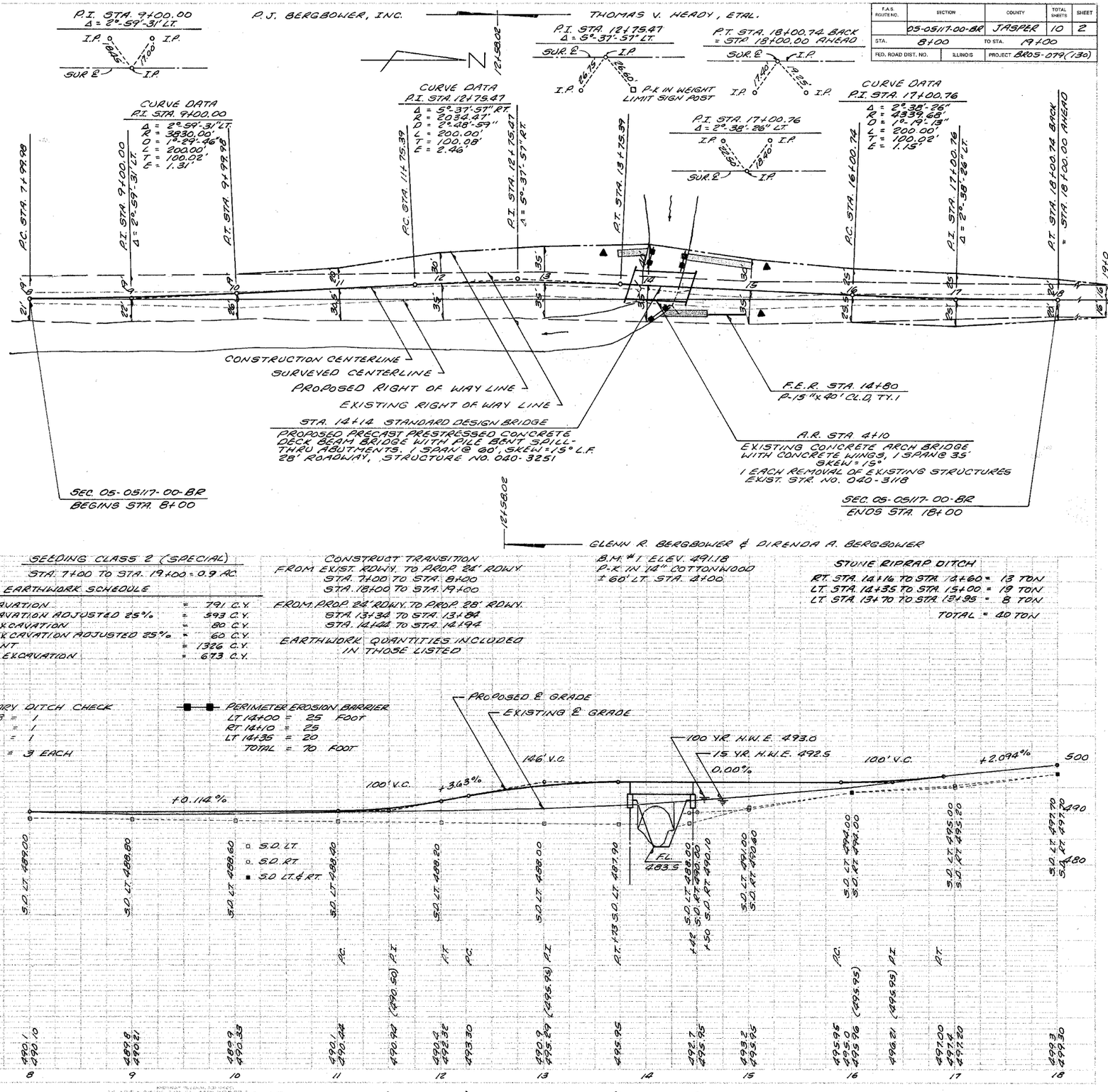
STA. 7+00 TO STA. 19+00 = 0.9 AC.

EARTHWORK SCHEDULE

EARTH EXCAVATION	=	791 C.Y.
EARTH EXCAVATION ADJUSTED 25%	=	593 C.Y.
CHANNEL EXCAVATION	=	80 C.Y.
CHANNEL EXCAVATION ADJUSTED 25%	=	60 C.Y.
EMBANKMENT	=	1326 C.Y.
FURNISHED EXCAVATION	=	673 C.Y.

UTILITIES

NONE



CONSTRUCT TRANSITION
FROM EXIST. RDWY. TO PROP. 24' RDWY.
STA. 7+00 TO STA. 8+00
STA. 18+00 TO STA. 19+00

FROM PROP. 24' RDWY. TO PROP. 28' RDWY.
STA. 13+34 TO STA. 13+84
STA. 14+44 TO STA. 14+94

EARTHWORK QUANTITIES INCLUDED IN THOSE LISTED

B.M. #1 ELEV. 491.18
P-K IN 14" COTTONWOOD
± 60' LT. STA. 4+00

STONE RIPRAP DITCH

RT. STA. 12+16 TO STA. 14+60 = 13 TON
LT. STA. 12+35 TO STA. 15+00 = 19 TON
LT. STA. 13+70 TO STA. 13+95 = 8 TON
TOTAL = 40 TON

▲ TEMPORARY DITCH CHECK
LT. 13+56 = 1
LT. 15+13 = 1
RT. 15+13 = 1
TOTAL = 3 EACH

PERIMETER EROSION BARRIER
LT. 14+00 = 25 FOOT
RT. 14+10 = 25
LT. 14+35 = 20
TOTAL = 70 FOOT

PROPOSED ℄ GRADE
EXISTING ℄ GRADE
100 Y.R. H.W.E. 493.0
15 Y.R. H.W.E. 492.5
146' V.C.
100' V.C.
100' V.C.
+3.63%
+0.114%
0.00%
+2.094%
EL 483.5
S.D. LT.
S.D. RT.
S.D. LT. & RT.
490.1
490.10
489.8
489.61
489.33
490.1
490.04
490.92 (490.50) P.I.
492.32
492.30
493.29 (493.15) P.I.
495.95
497.90
497.85
493.2
493.95
495.95
495.90 (495.45) P.I.
497.00
497.42
498.27 (498.05) P.I.
498.90
498.90
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490.10
490.10

CONTRACT NO. 95444

F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05/17.00-BR	JASPER	10	3
STA.	8+00 TO STA.	18+00		
FED. ROAD DIST. NO.	ILLINOIS.	PROJECT BRO9-079(130)		

CONSTR. ℄

495 13 + 73

495.95

S.O. 487.90

C = 33
F = 156

495 13

495.29

S.O. 488.00

C = 22
F = 130

495 12

492.32

S.O. 488.20

C = 28
F = 34

490 11

490.44

S.O. 488.40

C = 8
F = 4

490 10

490.33

S.O. 488.60

C = 3
F = 4

490 9

490.21

S.O. 488.80

C = 4
F = 6

490 8

490.10

S.O. 489.00

C = 10
F = 0

40 30 20 10 ℄ 10 20 30 40

CONSTR. ℄

500 18

499.30

S.O. 497.70

S.O. 497.70

C = 12
F = 3

500 17

497.20

S.O. 495.00

S.O. 495.20

C = 46
F = 1

495 16

495.96

S.O. 494.00

S.O. 494.00

C = 28
F = 15

495 15

495.95

S.O. 491.00

S.O 490.60

C = 40
F = 72

495 14 + 50

495.95

S.O. 490.10

495 14 + 42

495.95

S.O. 488.00

S.O. 490.00

C = 31
F = 190

40 30 20 10 ℄ 10 20 30 40

CONTRACT NO. 95424

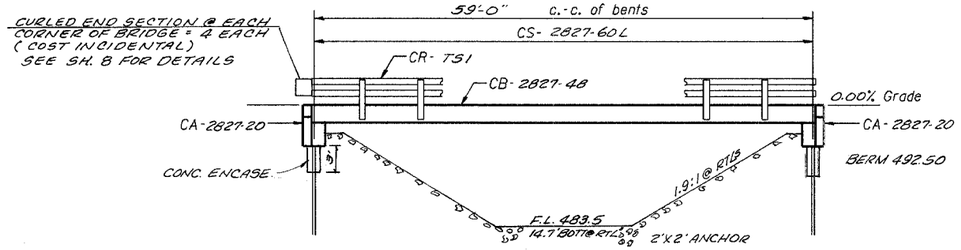
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		JASPER	10	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT- BROS-079(130)		

SEC. 05-05117-00-BR

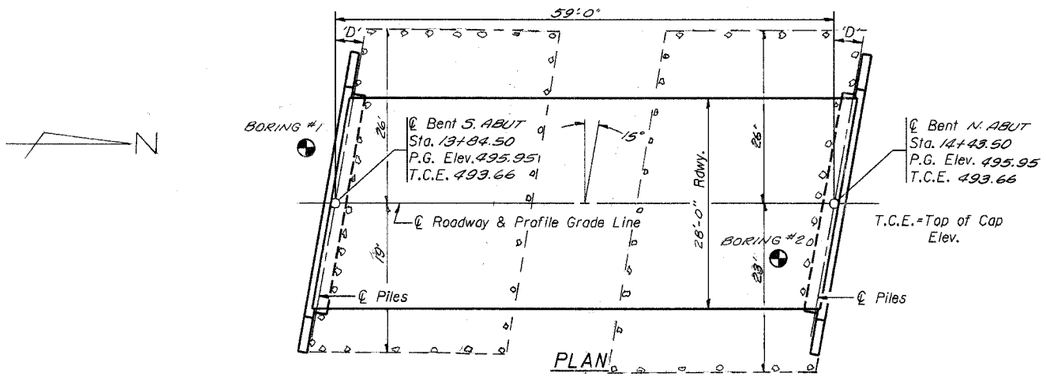
~~B.M.~~

~~Existing Structure~~

~~Salvage~~



ELEVATION



PLAN

Skew Angle 'D' = 15° Left Forward

STONE DUMPED RIPRAP
12" THICK
125 TON

GENERAL NOTES

1. The Contractor shall drive 1 test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. ~~A Corrosion inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.~~

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
~~Bituminous Concrete Surface Course, Superpave~~	~~Ton~~				
~~Waterproofing Membrane System~~	~~Sq. Yd.~~				
Concrete Structures	Cu. Yd.			22.2	22.2
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1680			1680
~~Steel Bridge Rail, Type SM~~	~~Foot~~				
Steel Railing, Type S-1	Foot	120			120
Reinforcement Bars	Pound			2680	2680
Furnishing STEEL PILES HP10X42	Foot			270	270
Driving PILES	Foot			270	270
Test Piles STEEL HP 10X42	Each			1	1
Name Plates	Each			1	1
Concrete Encasement	Cu. Yd.			2.6	2.6
~~Portland Cement Mortar Fairing Course~~	~~Foot~~				
STONE DUMPED RIPRAP CL AA	TON			125	125

INDEX OF SHEETS

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) =
Bedrock Acceleration Coefficient (A) =
Site Coefficient (S) =

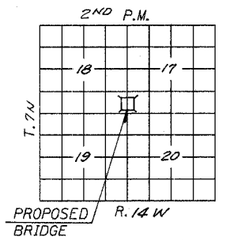
PILE DATA (2-ABUTS.)

Type STEEL HP10X42
Capacity Tons REFUSAL
Estimated Length Feet 30'
Number Required 10 (Includes 1 Test Pile located in Bent #1) S. ABUT.

STATION 14+14
PROJECT NO. BROS-079(130)
SEC. 05-05117-00-BR BUILT 2007
JASPER COUNTY
LOADING HS20
STR. NO. 040-3251

LETTERING FOR NAME PLATE

Locate Name Plate at SOUTHEAST Corner of Bridge (See Std. CN)



LOCATION SKETCH

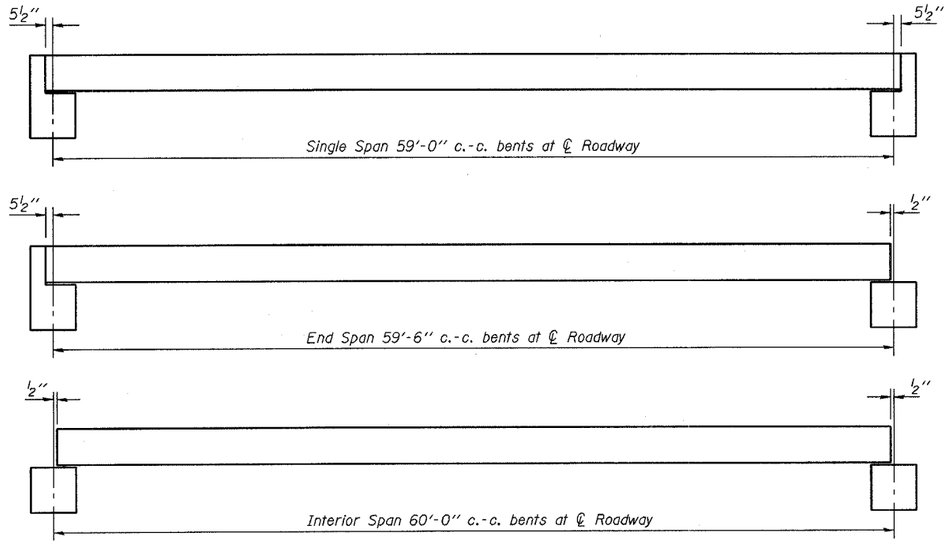
WATERWAY INFORMATION

Drainage Area = 7.67 SQ.MI. Low Grade Elev. = 490.1 @ Sta. 8+00

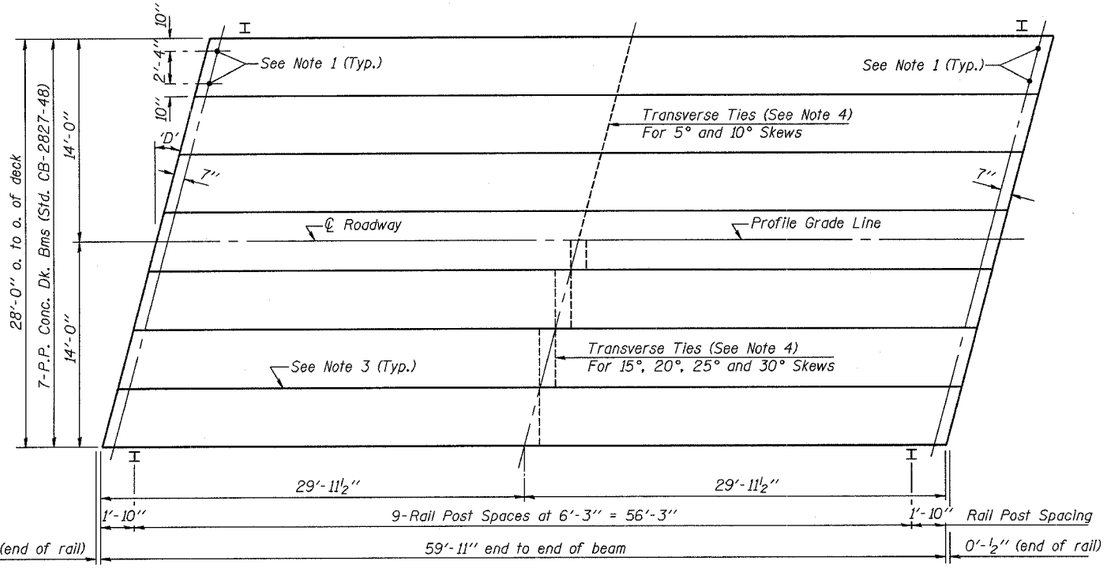
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.	APPROACH OPENING EXIST.	APPROACH OPENING PROP.
Design	15	1118	171	289	492.5		0.1		492.6	746	353
Base	100	1754	171	316	493.0		0.3		493.3	974	460
Overtopping											
Max. Calc.	500	2260			493.3		0.5		493.8		

GENERAL PLAN & ELEVATION
I.R. ROUTE 302
OVER
SECTION 05-05117-00-BR
JASPER COUNTY
STATION 14+14

GP-1L (04-04-05)

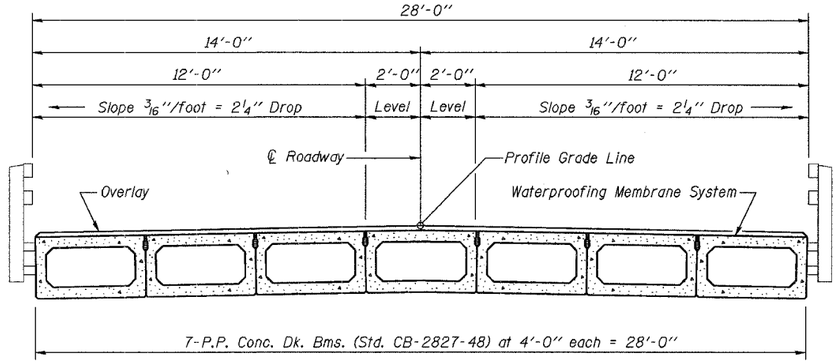


TYPICAL ELEVATIONS

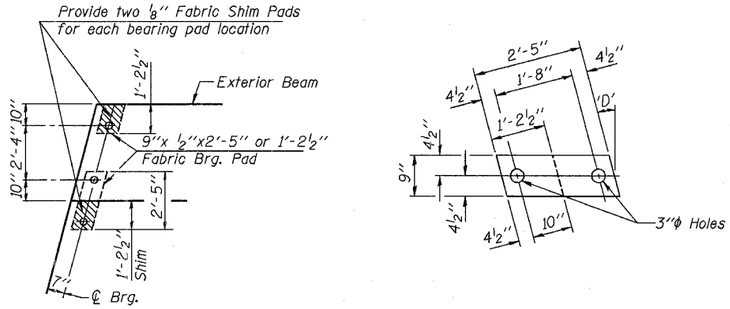


PLAN

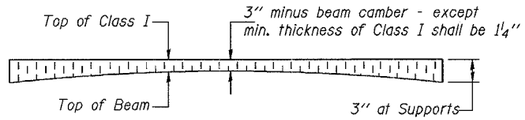
('D' = Designated Skew Angle)



CROSS SECTION



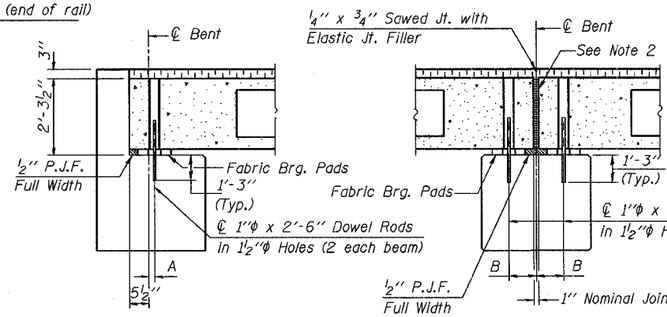
½" FABRIC BRG. PAD DETAILS



PROFILE OF OVERLAY

DIMENSIONS 'A' AND 'B'

'D'	5°	10°	15°	20°	25°	30°
A	1½"	1⅝"	1¾"	1⅞"	2¼"	2⅝"
B	7½"	7⅝"	7¾"	8"	8¼"	8⅜"



SECTION AT ABUTS.

(Along ℄ Beams)

SECTION AT PIERS

(Along ℄ Beams)

NOTES

1. 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.
2. Nominal 1" joint at ℄ Pier shall be filled with non-shrink grout.
3. Longitudinal keys shall be grouted.
4. The 1" ϕ 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.

QUANTITIES FOR ONE SPAN

P.P. Conc. Dk. Bm. 27" Dp.	1680 Sq. Ft.
Steel Railing	120 Ft.
~~Waterproofing Membrane System~~	~~186.7 Sq. Yds.~~
~~Portland Cement Mortar Fairing Course~~	~~360 Ft.~~

Note: Quantity of overlay for one span = 21.9 Tons

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas J. Domagalski
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

ISSUED 1-1-03

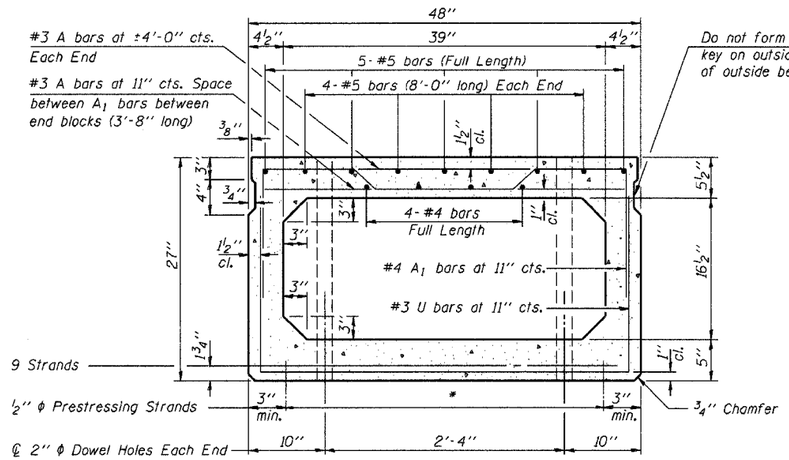
P.P.C. DECK BEAM SUPERSTRUCTURE

28' RDWY.	27" BMS.	60' SPAN	LEFT

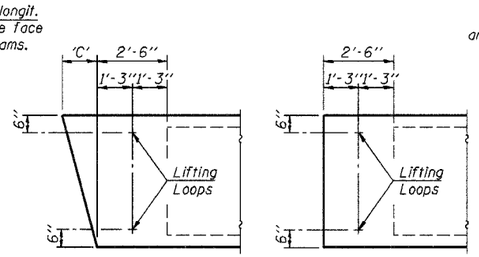
STANDARD CS-2827-60L

CONTRACT NO. 95444

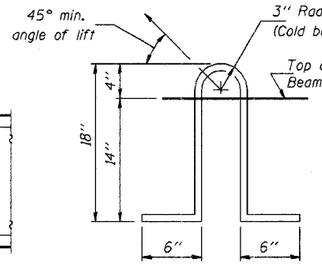
F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05117-00-BR	JASPER	10	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	PROJECT	BR09-079(130)	



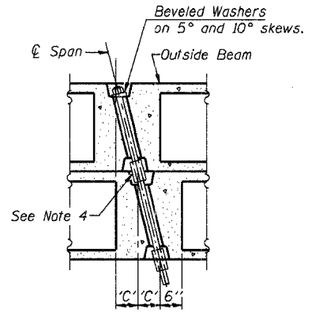
CROSS SECTION
(40' SPAN)



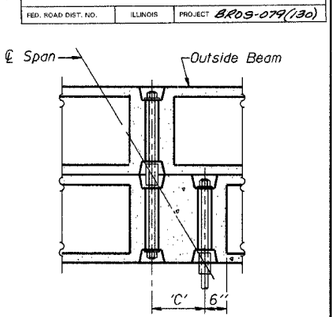
END BLOCK DETAILS
Each beam shall have four Lifting Loops, two at each end of beam cast in locations shown above. Loops shall be burned off after beams have been erected.



LIFTING LOOP DETAIL
Lifting loops shall be 3, ½"ϕ-270 ksi strands, as shown. Alternate approved lifting devices are also acceptable.



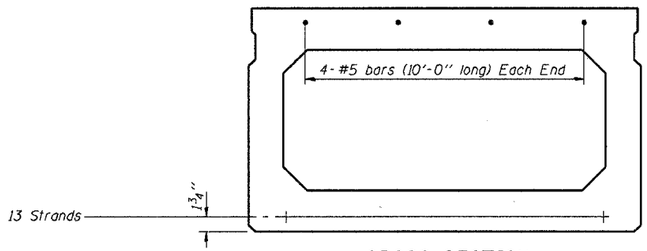
PARTIAL PLAN TRANSVERSE TIE ASSEMBLY
('D'=0°, 5° and 10°)



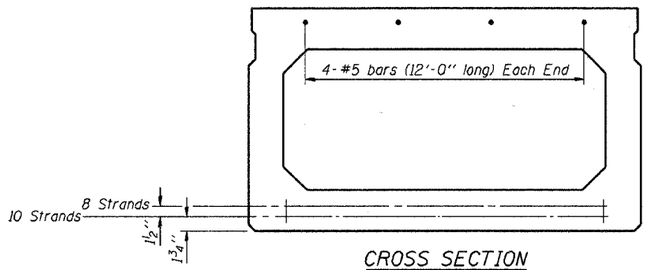
PARTIAL PLAN TRANSVERSE TIE ASSEMBLY
('D'=15°, 20°, 25° and 30°)

DIMENSION 'C'

Skew Angle 'D'	0°	5°	10°	15°	20°	25°	30°
Dimension 'C' (Inches)	0	4¼	8½	12⅞	17½	22⅜	27¾



CROSS SECTION
(50' SPAN)

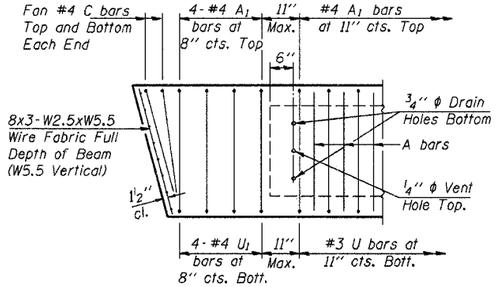


CROSS SECTION
(60' SPAN)

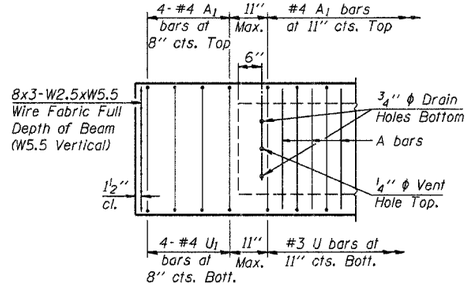
* TRANSVERSE STRAND PLACEMENT GUIDELINES

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 ½".
4. The minimum clearance from strand to void shall be 1½".

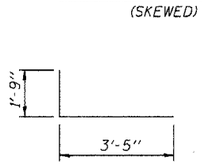
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



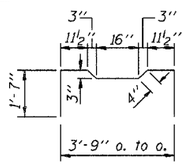
END REINFORCEMENT
(SKEWED)



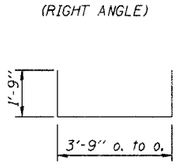
END REINFORCEMENT
(RIGHT ANGLE)



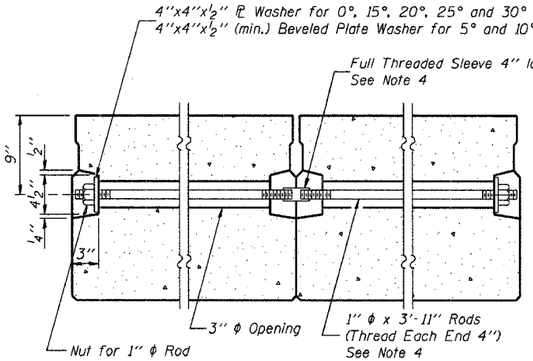
BAR C**



BAR A1



BARS U & U1



SECTION ALONG TRANSVERSE TIE ASSEMBLY
(REQUIRED FOR 50' & 60' SPANS ONLY)

NOTES

1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
2. The nominal diameter shall be ½" 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° skews, alternate appoved 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 ¼".
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. (½" ϕ Strand)
f_{si} = 201.960 p.s.i. (½" ϕ Strand)
f_y = 60,000 p.s.i.

MIN. BAR LAP

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

NOTE
The std. reinf. and dimensions shown on the 40' span cross section is typical for all spans, except as shown.

**NOTE:
The following number of C bars shall be used:

Skew	No.
5° and 10°	1
15° and 20°	2
25° and 30°	3

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas J. Domagalski
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

ISSUED 1-1-1981

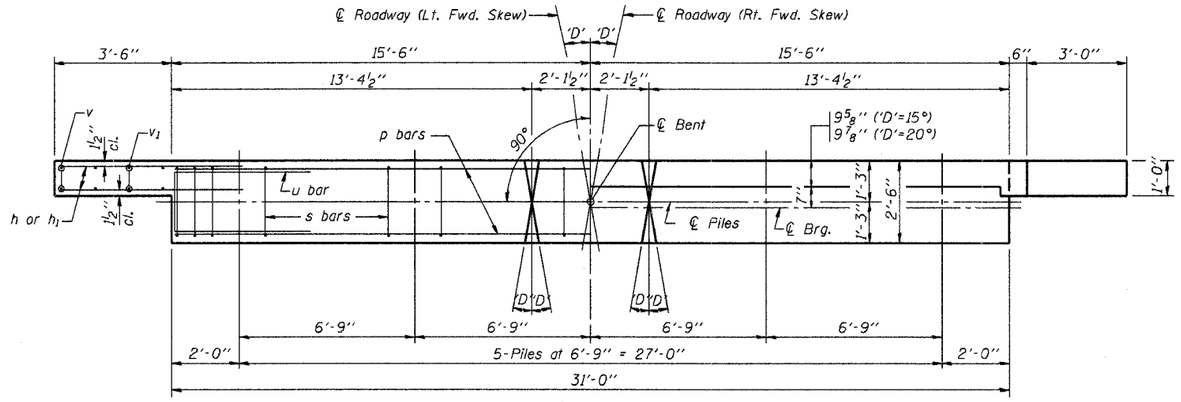
P.P.C. DECK BEAM DETAILS

28' ROADWAY | 27" x 48" BEAMS

STANDARD CB-2827-48

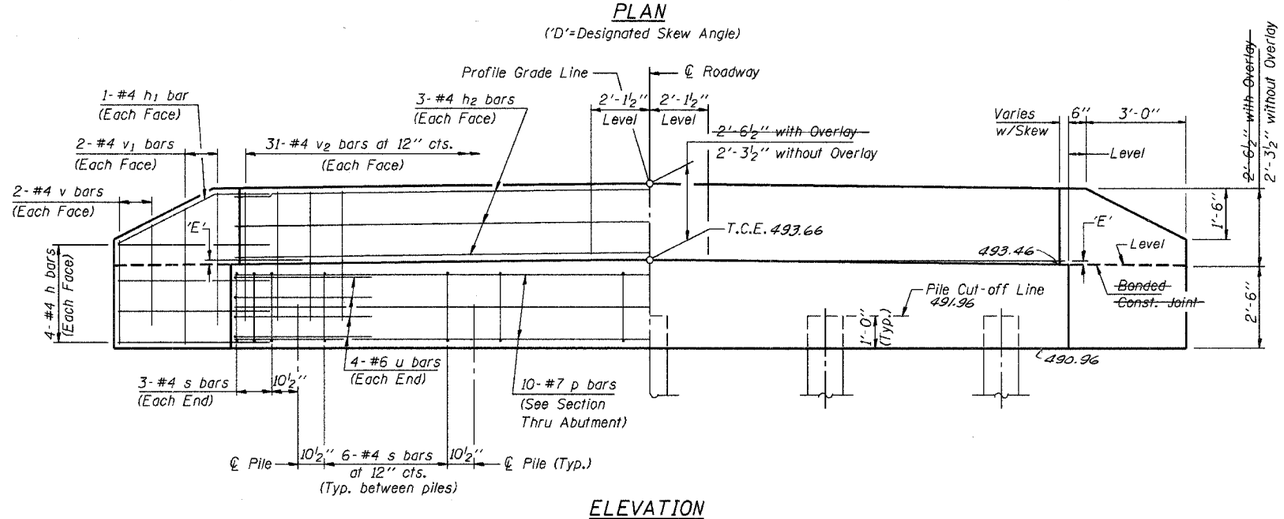
CONTRACT NO. 95422

F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05117-00-BR	JASPER	10	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT	BRDS-079(130)	

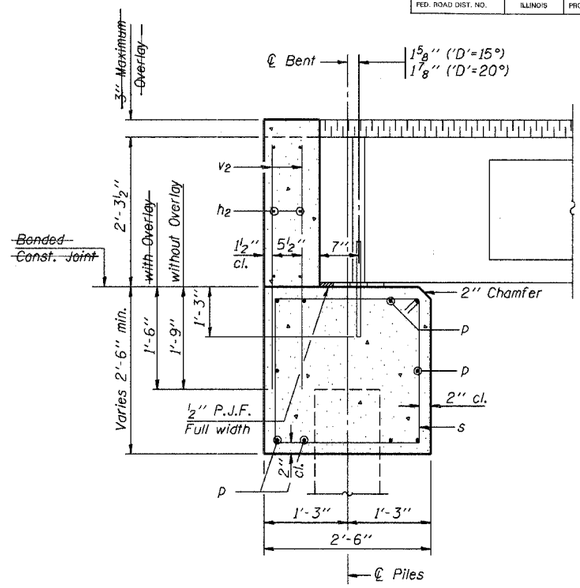


PLAN

('D'=Designated Skew Angle)



ELEVATION



SECTION THRU ABUTMENT

(At Right Angles)

DIMENSION 'E'

GRADE	'D'=15°		'D'=20°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 1/4"	2 5/8"	2 1/8"	2 5/8"
Over 1% to 2%	1 3/4"	3"	1½"	3 1/8"
Over 2% to 3%	1 3/8"	3½"	1"	3 3/4"
Over 3% to 4%	1"	3 7/8"	3/8"	4 1/4"

NOTES

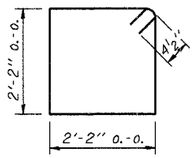
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

MAXIMUM PILE LOADS

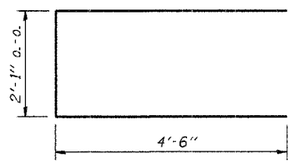
SPAN	TONS
40'	29
50'	33
60'	37

DESIGN STRESSES

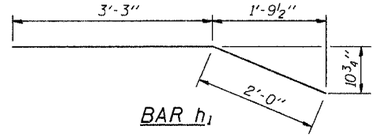
f'c = 3,500 psi
fy = 60,000 psi



BAR s



BAR u



BAR h1

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	
h1	4	#4	5'-3"	
h2	6	#4	30'-8"	
p	10	#7	30'-8"	
s	30	#4	9'-5"	
u	8	#6	11'-1"	
v	8	#4	3'-2"	
v1	8	#4	4'-2"	
v2	62	#4	3'-11"	
Concrete Structures			11.1 Cu. Yds.	
Reinforcement Bars			1340 Lb.	

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas J. Domagalski
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APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

BRIDGE 1981-1-1

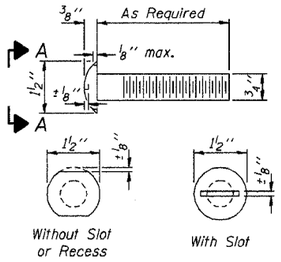
P.P.C. DECK BEAMS
PILE BENT ABUTMENT

28' RDWY. | 27" BMS. | 'D'=15° OR 20°

STANDARD CA-2827-20

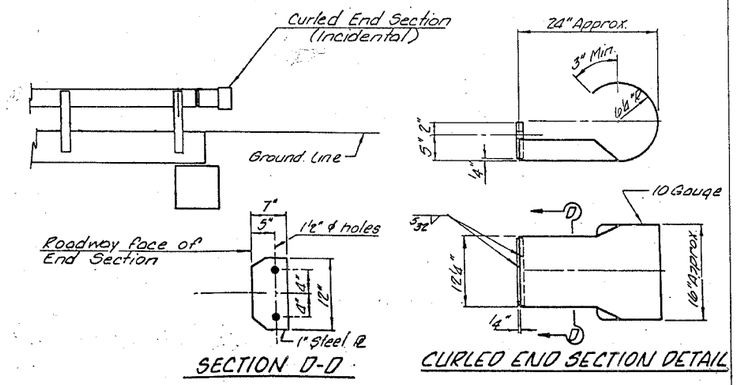
CONTRACT NO. 95442

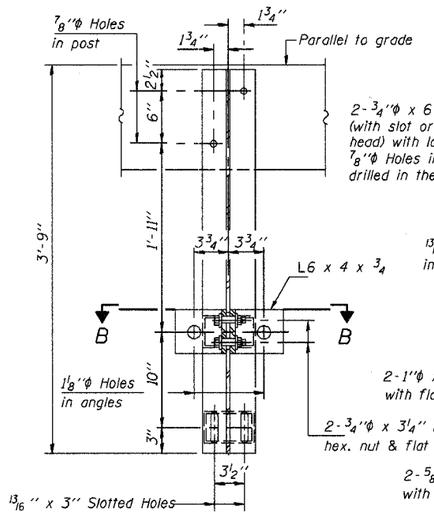
F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05117-00-BR	JASPER	10	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	PROJECT BRDS-079(130)		



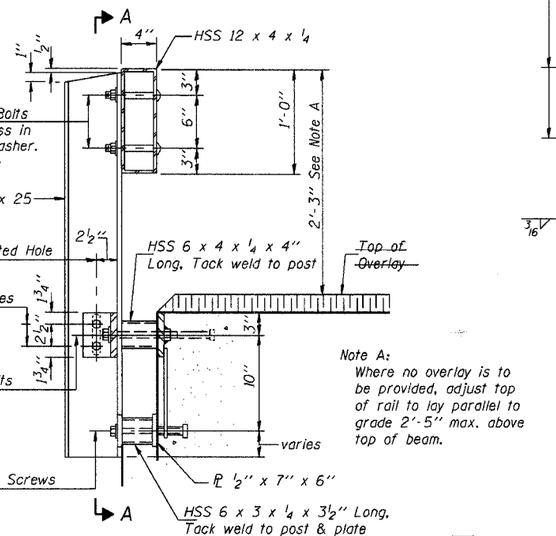
VIEW A-A

ROUND HEAD BOLT



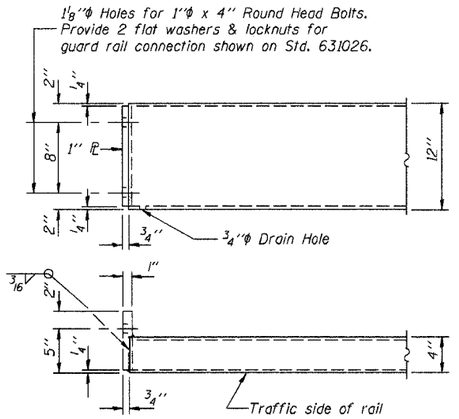


SECTION A-A



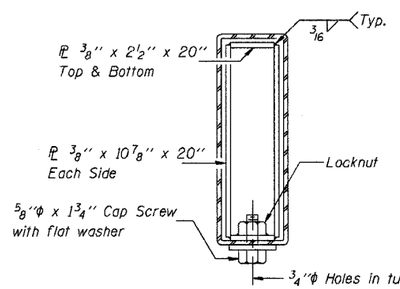
SECTION AT RAIL POST

Note A:
Where no overlay is to be provided, adjust top of rail to lay parallel to grade 2'-5" max. above top of beam.



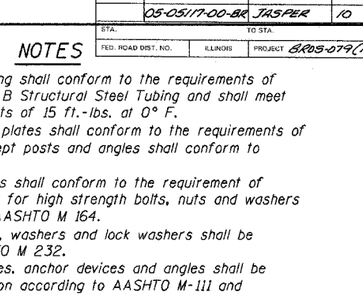
END OF RAIL DETAILS

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

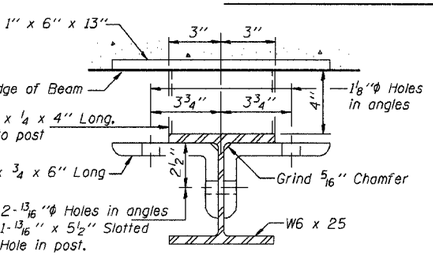


SECTION AT RAIL SPLICE

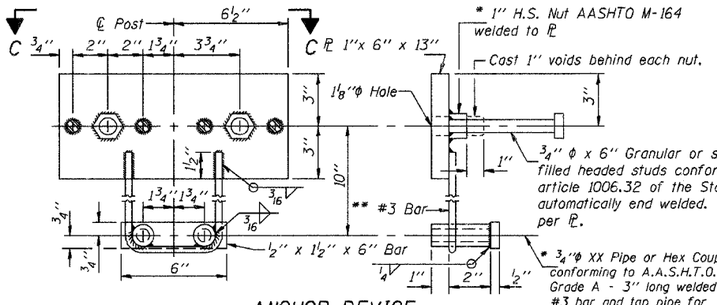
* Threaded areas shall be plugged or blocked off during casting of beam.



VIEW C-C



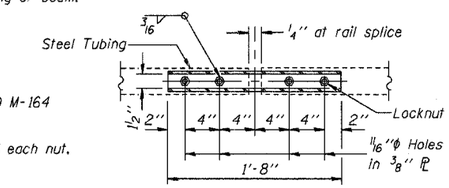
SECTION B-B



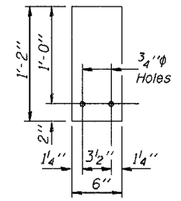
ANCHOR DEVICE

* 1" H.S. Nut AASHTO M-164 welded to PL

3/4" ϕ x 6" Granular or solid flux filled headed studs conforming to article 1006.32 of the Std. Specs. automatically end welded. 4 Required per PL.



PLAN-BOTT. SPLICE PL TYPICAL



1/4" SHIM PLATE

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas J. Domagalski
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

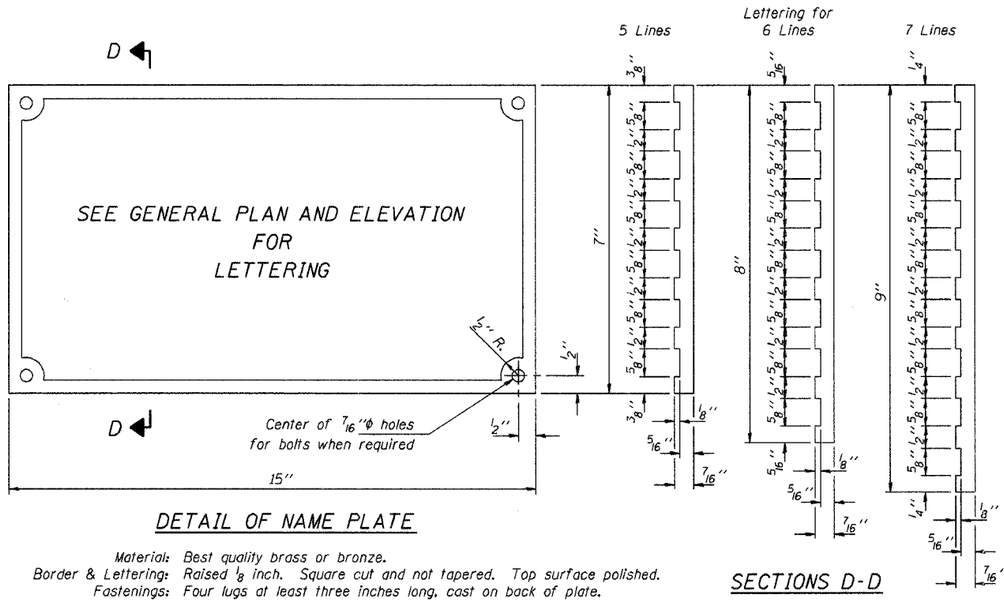
ISSUED 1-1-1981

STEEL RAILING, TYPE S-1

STANDARD CR-TS1

CONTRACT NO. 95244

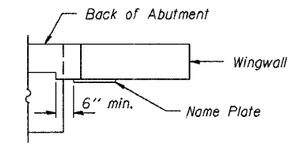
F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05117-00-BR	JASPER	10	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT BROS-079(130)		



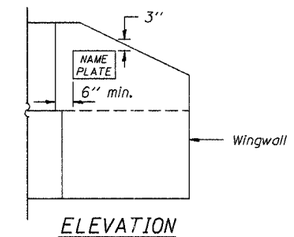
DETAIL OF NAME PLATE

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

SECTIONS D-D



PLAN



ELEVATION

LOCATION OF NAME PLATE

Illinois Department of Transportation

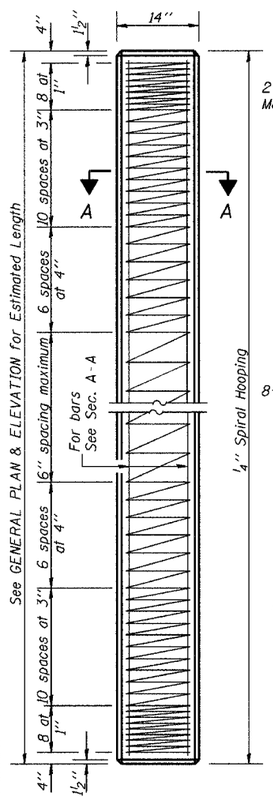
PASSED APRIL 4, 2005
Thomas J. Domagalski
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

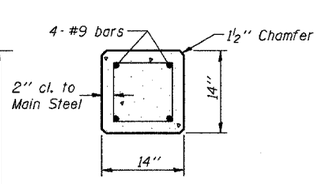
ISSUED 7-1-1995

NAME PLATE
STANDARD CN

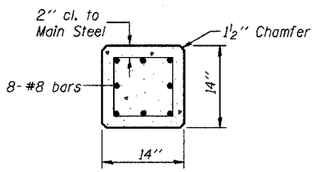
CONTRACT NO. 95442

F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
	05-05117-00-BR	JASPER	10	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT BRDS-079(130)		





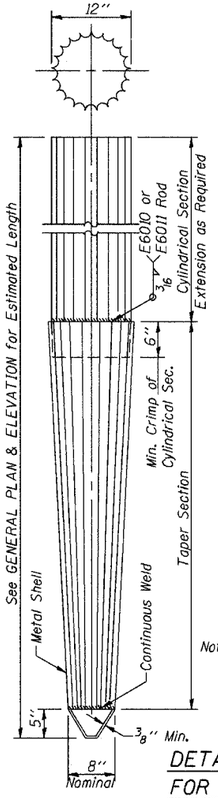
SECTION A-A
FOR PILES UNDER
45' LONG

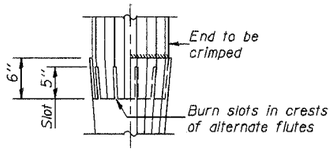


SECTION A-A
FOR PILES 45'
OR MORE

Handling: For Pile lengths up to 45' use two slings placed at a distance of 0.21L from each end. For Piles longer than 45', use three slings placed at a distance of 0.12L from each end and at mid point of pile.

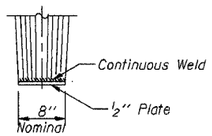
DETAIL OF PRECAST
CONCRETE PILES





FIELD CRIMP DETAIL

Note: 6" Crimp shall either be supplied on the cylindrical section or made in the field as detailed.



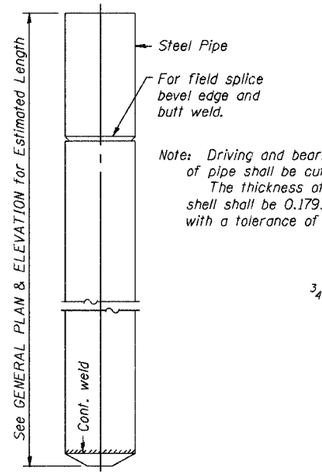
OPTIONAL FLAT END

ALLOWABLE TAPER SECTIONS

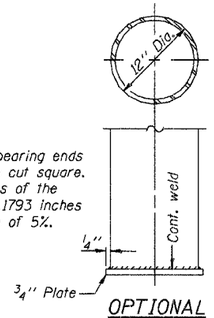
10' Length-Taper 1" in 2'-6"
17' Length-Taper 1" in 4'-0"
25' Length-Taper 1" in 7'-0"
30' Length-Taper 1" in 7'-0"

Note: The thickness of the shell shall be 0.1495 inches with a tolerance of 5%. The shell shall be according to Article 1006.05 (a) of the Standard Specification except that minimum yield strength for the steel after cold working shall be 50,000 p.s.i.

DETAIL OF TAPERED METAL SHELLS
FOR CAST IN PLACE CONCRETE PILES



Note: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.1793 inches with a tolerance of 5%.

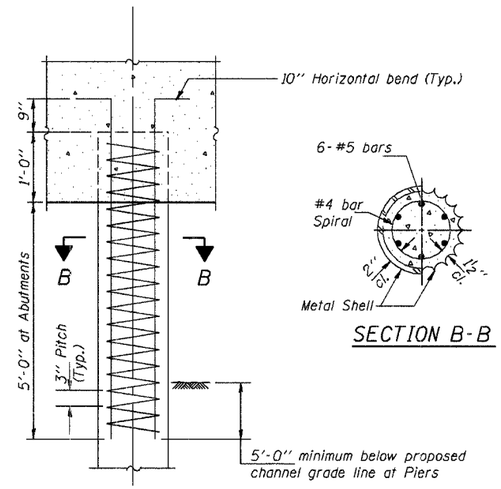


OPTIONAL
FLAT END

DETAIL OF CYLINDRICAL
STEEL SHELL FOR CAST IN
PLACE CONCRETE PILES

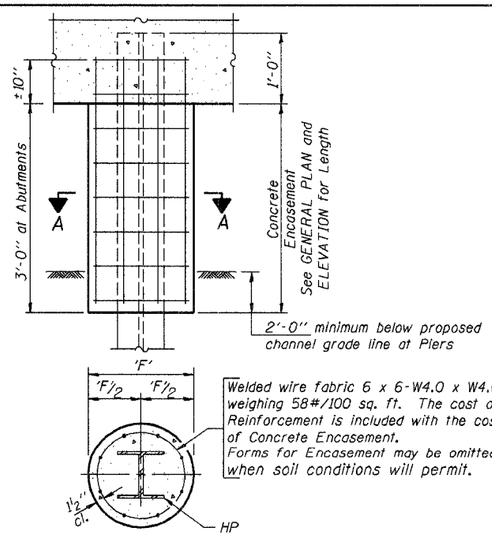
Reinforcement cage shall be omitted when Concrete Encasement is provided.

The cost of Reinforcement is included with the Cost of Furnishing Piles.



SECTION B-B

DETAIL OF REINFORCEMENT
FOR METAL SHELLS

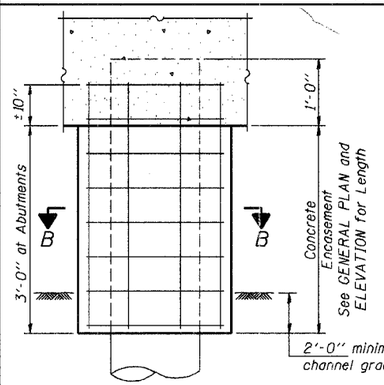


Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Reinforcement is included with the cost of Concrete Encasement. Forms for Encasement may be omitted when soil conditions will permit.

SECTION A-A

Pile	'F'
HP8	1'-6"
HP10	1'-9"
HP12	2'-0"

DETAIL OF HP
PILE ENCASEMENT



Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Reinforcement is included with the cost of Concrete Encasement. Forms for Encasement may be omitted when soil conditions will permit.

SECTION B-B

DETAIL OF METAL SHELL
PILE ENCASEMENT

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
Thomas J. Domagalski
Engineer of Bridge Design
APPROVED FEBRUARY 1, 2000
Ralph E. Anderson
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ISSUED 1-98

PILE DETAILS

STANDARD CX-1