

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL-AID HIGHWAY BRIDGE PROGRAM

T.R.293
WAYNE COUNTY
SECTION 05-16121-00-BR
STRUCTURE NO. 096-3443
PROJECT NO. BROS-191(56)
JOB NO. C-97-071-07

INDEX OF SHEETS

1	COVER SHEET
2	PLAN & PROFILE
3	CROSS SECTIONS
4-10	BRIDGE PLANS

STANDARDS: 280001-03 - EROSION CONTROL
702001-06 - TRAFFIC
BLR 21-6 - TRAFFIC
BLR 22-4 - TRAFFIC

SCALES

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

SUMMARY OF QUANTITIES

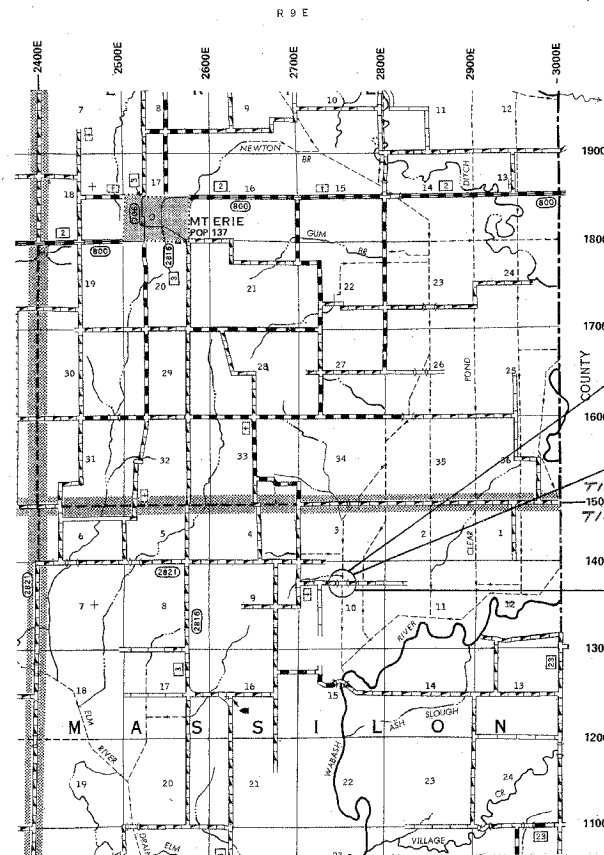
QUANTITY	UNIT	ITEMS	CODE NO.
60	UNIT	TREE REMOVAL (OVER 15 UNITS DIAMETER)	20100210
0.25	ACRE	TREE REMOVAL, ACRES	20100500
463	CU YD	EARTH EXCAVATION	20200100
200	CU YD	CHANNEL EXCAVATION	20300100
640	CU YD	FURNISHED EXCAVATION	20400800
0.6	ACRE	SEEDING, CLASS 2 (SPECIAL)	25001000
3	EACH	TEMPORARY DITCH CHECKS	28000300
75	FOOT	PERIMETER EROSION BARRIER	28000400
197	TON	STONE DUMPED RIPRAP, CLASS A4	28100807
78	TON	STONE RIPRAP DITCH	28102600
600	TON	AGGREGATE BASE COURSE, TYPE B	35101400
1	EACH	REMOVAL OF EXISTING STRUCTURES	50100100
19.2	CU YD	CONCRETE STRUCTURES	50300225
1800	SQ FT	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	50400605
2340	POUND	REINFORCEMENT BARS	50800105
150	FOOT	STEEL RAILING, TYPE S1	50900205
288	FOOT	FURNISHING STEEL PILES HP 10X42	51201400
288	FOOT	DRIVING PILES	51202305
1	EACH	TEST PILE STEEL HP 10X42	51203400
2.6	CU YD	CONCRETE ENCASEMENT	50300204
1	EACH	NAME PLATES	51500100
36	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 15"	54200220
1	L SUM	MOBILIZATION	67100100
1	L SUM	TRAFFIC CONTROL AND PROTECTION	70101700

FUNCTIONAL CLASS: RURAL LOCAL ROAD
ADT = 10
DESIGN SPEED = 30MPH

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

CONTRACT NO. 95517

PROFESSIONAL DESIGN FIRM #184-000832



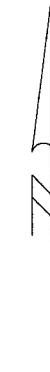
LOCATION MAP

APPROXIMATE SCALE: 1 INCH = 1 MILE
NET LENGTH = 700 L.F. = 0.133 MILES

SECTION 05-16121-00-BR
BEGINS STA. 2+00

STA. 5+11 - STD. BRIDGE DESIGN
PROPOSED PRECAST PRESTRESSED
CONCRETE DECK BEAM BRIDGE.
1 SPAN @ 75' x 24' ROWY., SKEW = 0'
PROP. STR. NO. 096-3443
EXIST. STR. NO. 096-3124

SECTION 05-16121-00-BR
ENDS STA. 9+00



APPROVED MAY 23 . 2007

Arthur J. Buech
LOCAL AGENCY REPRESENTATIVE

PASSED MAY 30 . 2007

Michael Ross
DISTRICT SEVEN ENGINEER
OF LOCAL ROADS & STREETS

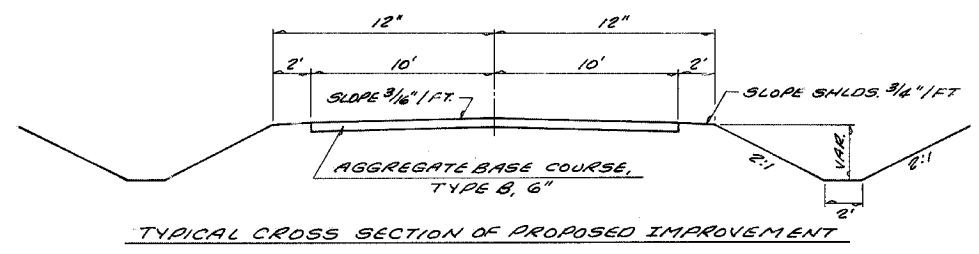
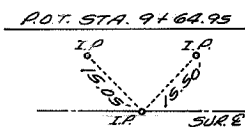
RELEASING FOR BID BASED ON LIMITED REVIEW

MAY 30 . 2007

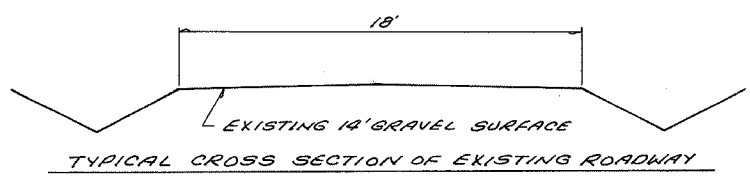
Christina M. Leach
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Michael Ross
ILLINOIS REGISTERED PROFESSIONAL ENGINEER # 31350
LICENSE EXPIRES NOVEMBER 30, 2007

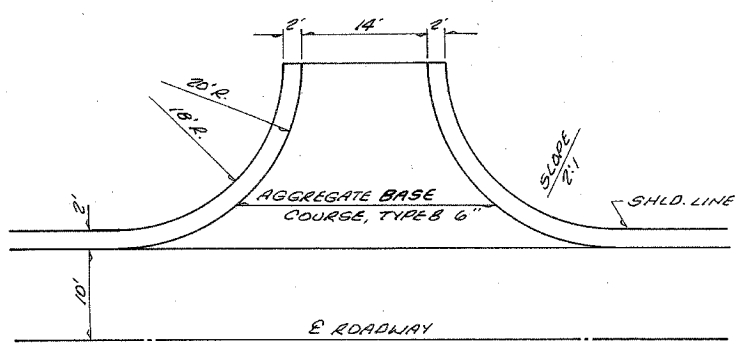
F.A.R. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
03-16121-00-BR	WAYNE	10	2	
STA. 1400	TO STA. 916495			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



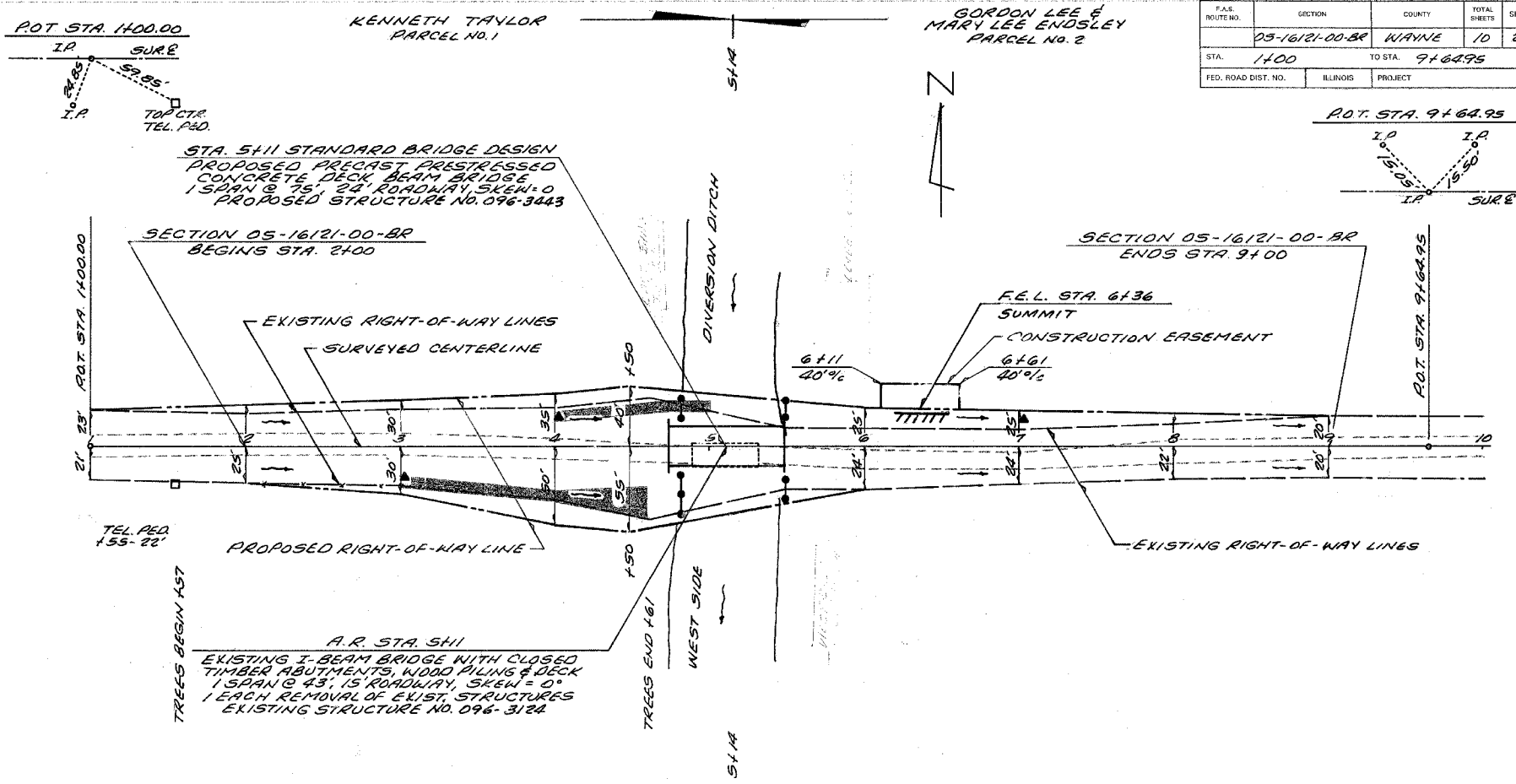
TYPICAL CROSS SECTION OF PROPOSED IMPROVEMENT



TYPICAL CROSS SECTION OF EXISTING ROADWAY



DETAIL OF FIELD ENTRANCES



STA. 511 STANDARD BRIDGE DESIGN
 PROPOSED PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE
 1 SPAN @ 75' 2 1/2' ROADWAY SURF @ 1.0
 PROPOSED STRUCTURE NO. 096-3443

SECTION 05-16121-00-BR BEGINS STA. 2100
 SECTION 05-16121-00-BR ENDS STA. 9100
 EXISTING RIGHT-OF-WAY LINES
 SURVEYED CENTERLINE
 PROPOSED RIGHT-OF-WAY LINE
 EXISTING I-BEAM BRIDGE WITH CLOSED TIMBER ABUTMENTS, WOOD PILING & DECK
 1 SPAN @ 43' 15" ROADWAY SURF @ 1.0
 EACH REMOVAL OF EXIST. STRUCTURES
 EXISTING STRUCTURE NO. 096-3124
 WEST SIDE
 EAST SIDE
 DIVERSION DITCH
 F.E.L. STA. 6136
 SUMMIT
 CONSTRUCTION EASEMENT
 6+11 40%
 6+61 40%
 EXISTING RIGHT-OF-WAY LINES

STONE RIPRAP DITCH

RT. STA. 3100 TO STA. 4150 = 48 TON
LT. STA. 4100 TO STA. 5100 = 30 TON
TOTAL = 78 TON

AGGREGATE BASE COURSE, TYPE B

STA. 1400 TO STA. 4173 = 280 TON
STA. 5149 TO STA. 9150 = 300 TON
F.E.L. STA. 6138 = 20 TON
TOTAL = 600 TON

CURTIS G. & VICKIE J. ENDSLEY
 PARCEL NO. 3
 A.M. #1 ELEV. 381.57
 P-K NAIL IN ROOT TRUNK 15"
 MAPLE, 17" RT. 1 STA. 1160

EARTHWORK SCHEDULE

EARTH EXCAVATION =	463 C.Y.
EARTH EXCAVATION ADJUSTED 25% =	347 C.Y.
CHANNEL EXCAVATION =	200 C.Y.
CHANNEL EXCAVATION ADJUSTED 25% =	150 C.Y.
EMBANKMENT =	1137 C.Y.
FURNISHED EXCAVATION =	640 C.Y.

PERIMETER EROSION BARRIER

LT. STA. 4180 = 20 FT
RT. STA. 4180 = 30 FT
LT. STA. 5150 = 10 FT
RT. STA. 5150 = 15 FT
TOTAL = 75 FT

TEMPORARY DITCH CHECKS

RT. STA. 3400 = 1 EA.
LT. STA. 4100 = 1 EA.
LT. STA. 7100 = 1 EA.
TOTAL = 3 EA.

HAROLD & ELINOR J. BUNNAGE
 PARCEL NO. 4

CONSTRUCT TRANSITIONS

FROM EXISTING ROADWAY TO PROPOSED 24' ROADWAY
 STA. 1400 TO STA. 2100
 STA. 8150 TO STA. 9150
 (EARTHWORK & AGGREGATE BASE COURSE QUANTITIES INCLUDED IN THOSE LISTED)

TREE REMOVAL ACRES

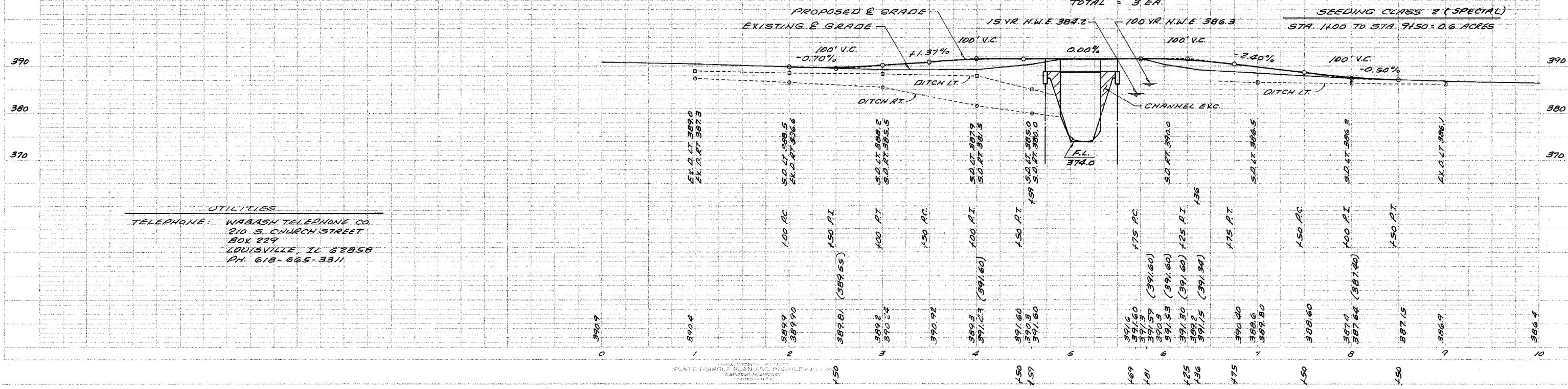
RT. STA. 1157 TO STA. 4161 = 0.25 ACRES

TREE REMOVAL (OVER 15 UNITS DIA.)

3.5' LT. STA. 6171 = 60 UNITS

SEEDING CLASS 2 (SPECIAL)

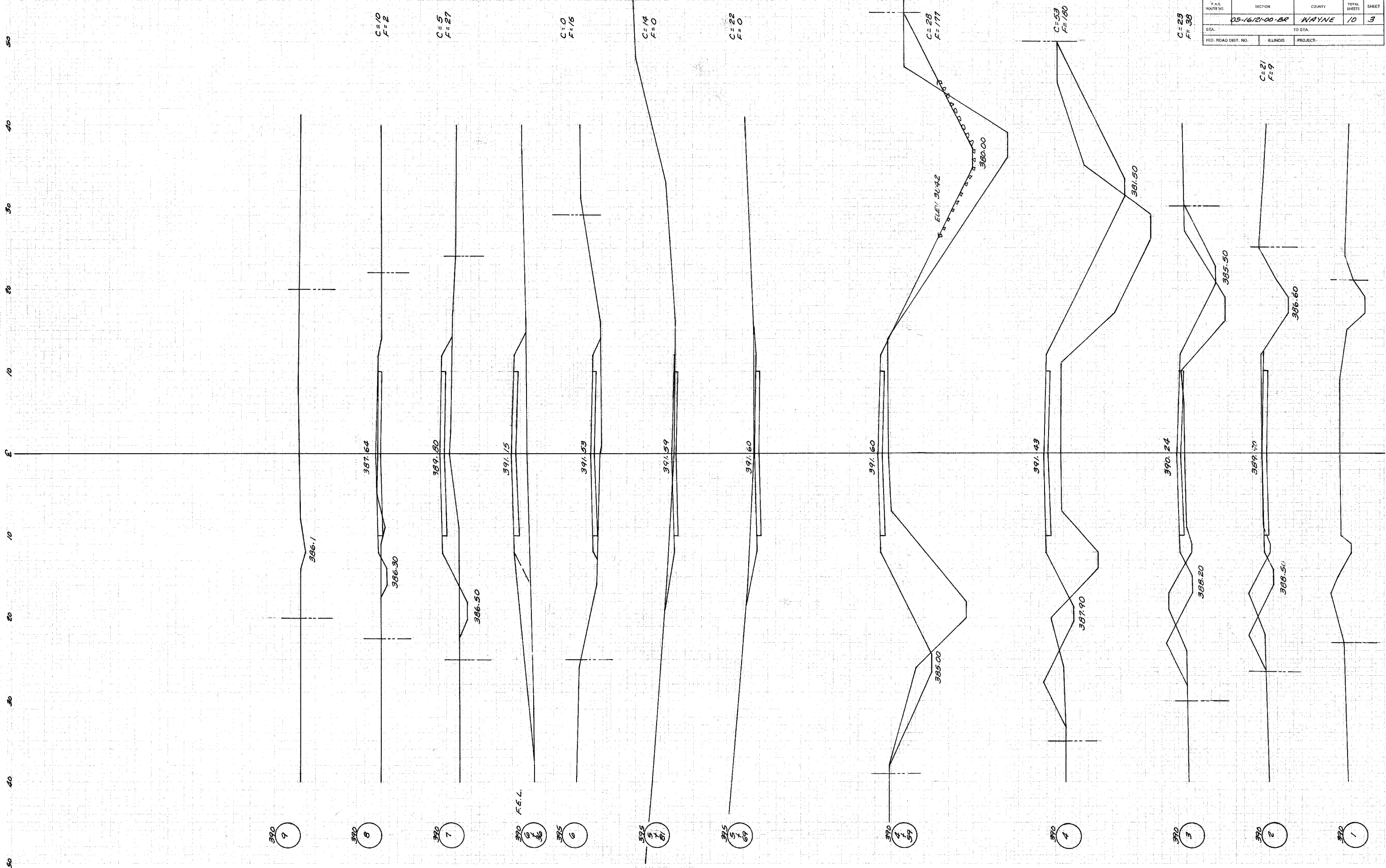
STA. 1400 TO STA. 9150 = 0.6 ACRES



UTILITIES
 TELEPHONE: WABASH TELEPHONE CO.
 210 S. CHURCH STREET
 BOX 229
 LOUISVILLE, IL 62858
 PH. 618-665-3311

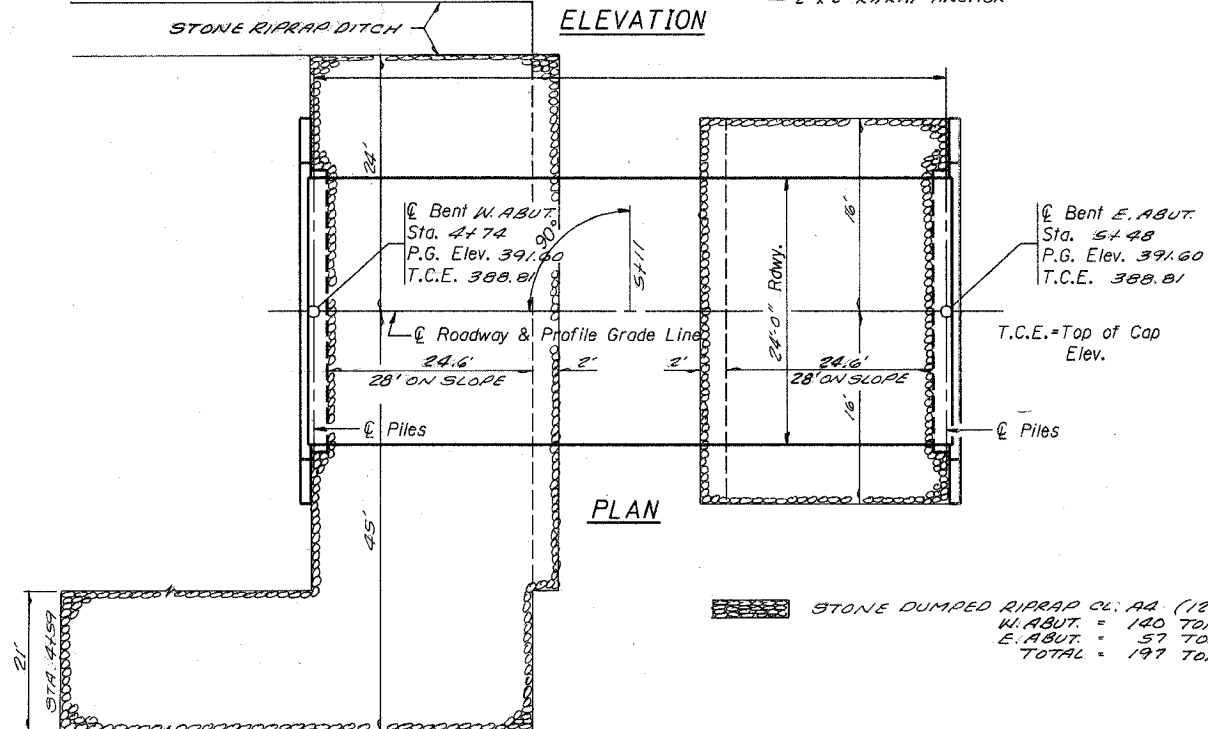
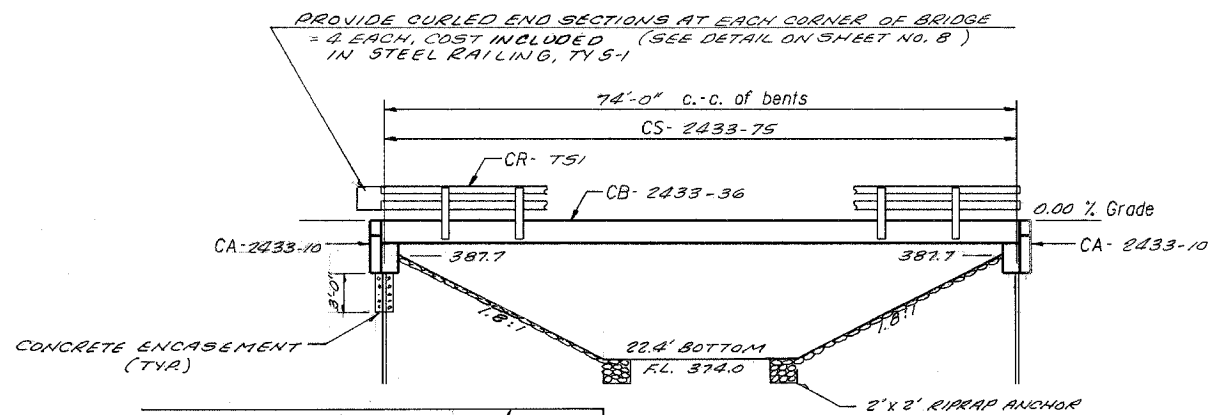
N.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
05-1612-00-BE	WAYNE	10	3	

STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	PROJECT



ROUTE NO.	SECTION	COUNTY	SHEETS	NO.
*		WAYNE	10	4
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
* 05-16121-00-BR				

B.M.
Existing Structure
Salvage



GENERAL NOTES

- The Contractor shall drive / test piles, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- See Special Provisions for boring logs.
- 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.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Bituminous Concrete Surface Course - Superpave	Ton				
Waterproofing Membrane System	Sq. Yd.				
Concrete Structures	Cu. Yd.			19.2	19.2
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1800			1800
Steel Bridge Rail, Type SM	Foot				
Steel Railing, Type S-1	Foot	150			150
Reinforcement Bars	Pound			2320	2320
Furnishing STEEL PILES HP 10x42	Foot			288	288
Driving PILES	Foot			288	288
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. A2	TON				197

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44
Allow 25#/sq. ft. for future wearing surface.

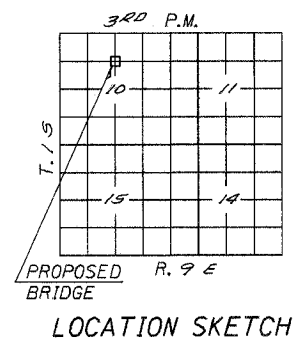
SEISMIC DATA
Seismic Performance Category (SPC) =
Bedrock Acceleration Coefficient (A) =
Site Coefficient (S) =

PILE DATA (2-ABUTS.)
Type STEEL HP 10x42 (IN ACCORD TO AASHTO M 270 GRADE 50)
Estimated Length 32 Feet
Number Required 10 (Includes 1 Test Pile located in east abut.)
ALLOWABLE RESISTANCE AVAILABLE = 90 KIPS
NOMINAL REQUIRED BEARING = 335 KIPS

* WEST SIDE DIVERSION DITCH
** BR05-191 (56)

STATION 5+11
* CREEK
SEC. 05-16121-00-BR BUILT 200
PROJECT ** ROAD-DIST.
WAYNE COUNTY
LOADING HS20
STR. NO. 096-3443

LETTERING FOR NAME PLATE
Locate Name Plate at SOUTHWEST Corner of Bridge (See Std. CN)



WATERWAY INFORMATION

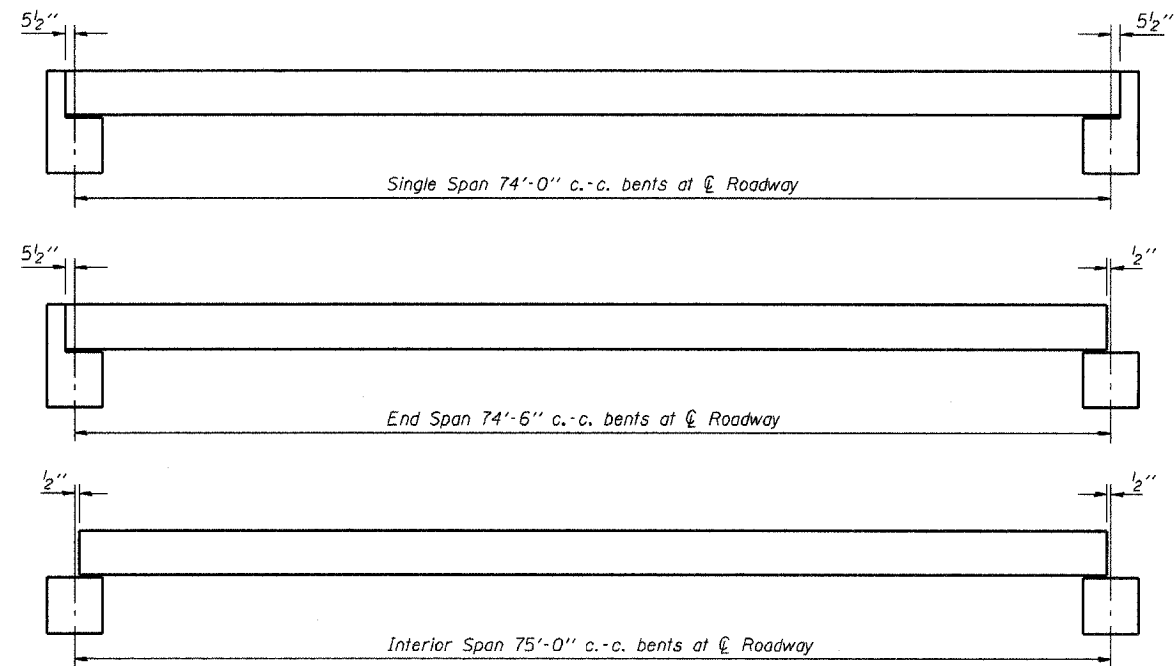
Drainage Area = 16.8 SQ. MI. Low Grade Elev. = 386.4 @ Sta. 10+00

Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	15	1050	392	416	384.2	0	0	384.2	384.2	384.2
Base	100	1574	483	548	386.3	0	0	386.3	386.3	386.3
Overtopping										
Max. Calc.	500									

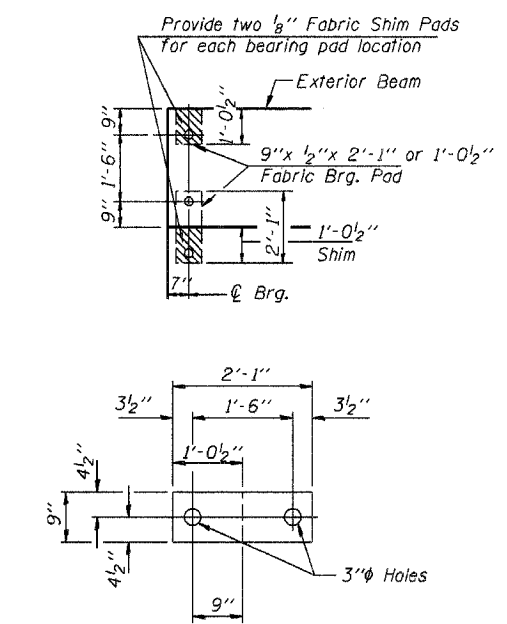
INDEX OF SHEETS

- General Plan & Elevation
- Standard CS-2433-75
- Standard CB-2433-36
- Standard CA-2433-10
- Standard CR-751
- Standard CN-
- Standard CK-1
- Standard
- Standard

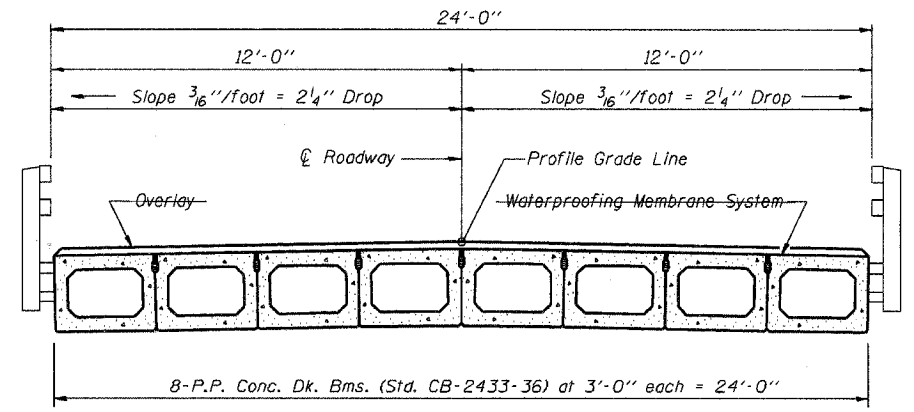
GENERAL PLAN & ELEVATION
TR ROUTE 293
OVER WEST SIDE DIVERSION DITCH
SECTION 05-16121-00-BR
WAYNE COUNTY
STATION 5+11



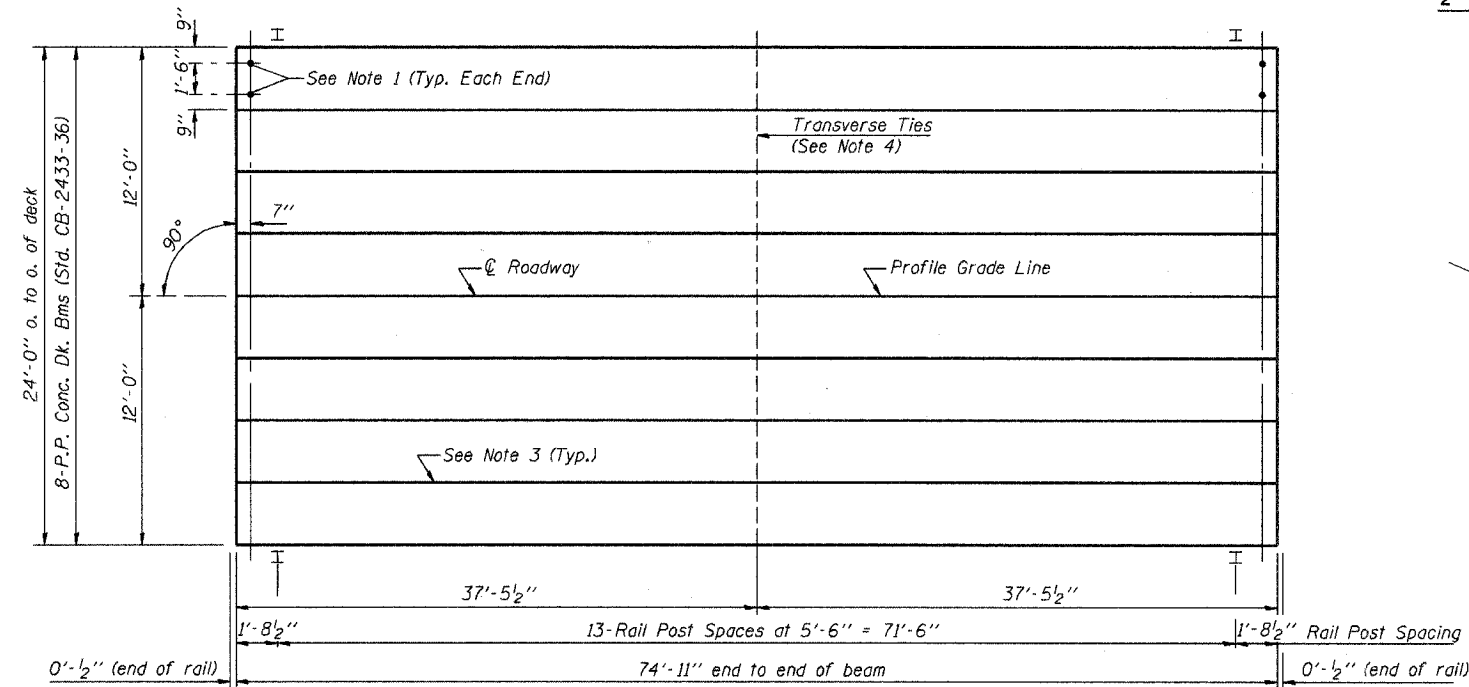
TYPICAL ELEVATIONS



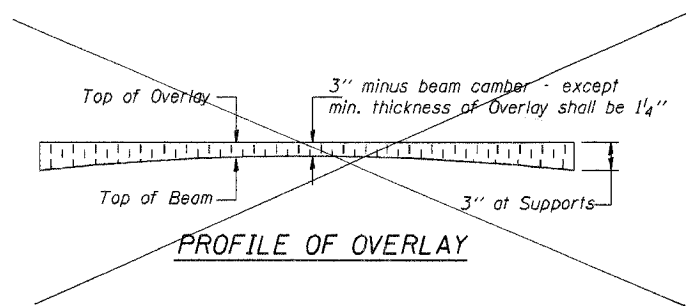
1/2" FABRIC BRG. PAD DETAILS



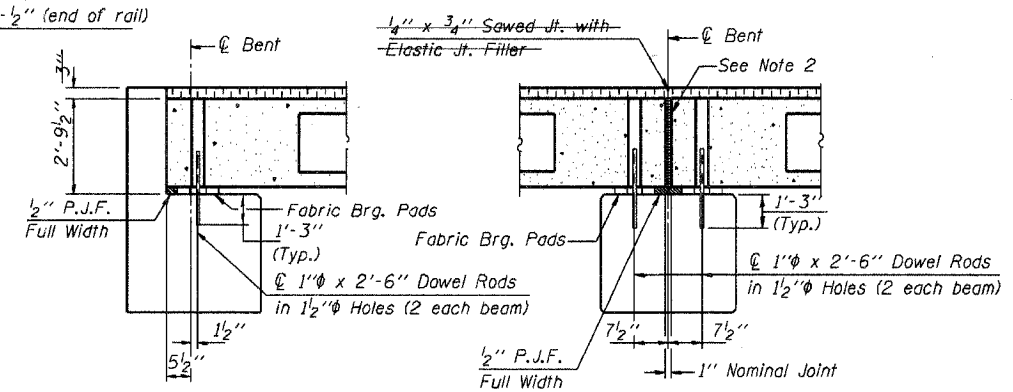
CROSS SECTION



PLAN



PROFILE OF OVERLAY



SECTION AT ABUTS.
(Along centerline Beams)

SECTION AT PIERS
(Along centerline 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 centerline Pier shall be filled with non-shrink grout.
3. Longitudinal keys shall be grouted. WITH NON-SHRINK GROUT.
4. 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.

QUANTITIES FOR ONE SPAN

P.P. Conc. Dk. Bm. 33" Dp.	1800 Sq. Ft.
Steel Railing	150 Ft.
Waterproofing Membrane System	200.0 Sq. Yds
Portland Cement Mortar	525 Ft.
Fairing Course	

Note: Quantity of overlay for one span = 23.0 Tons

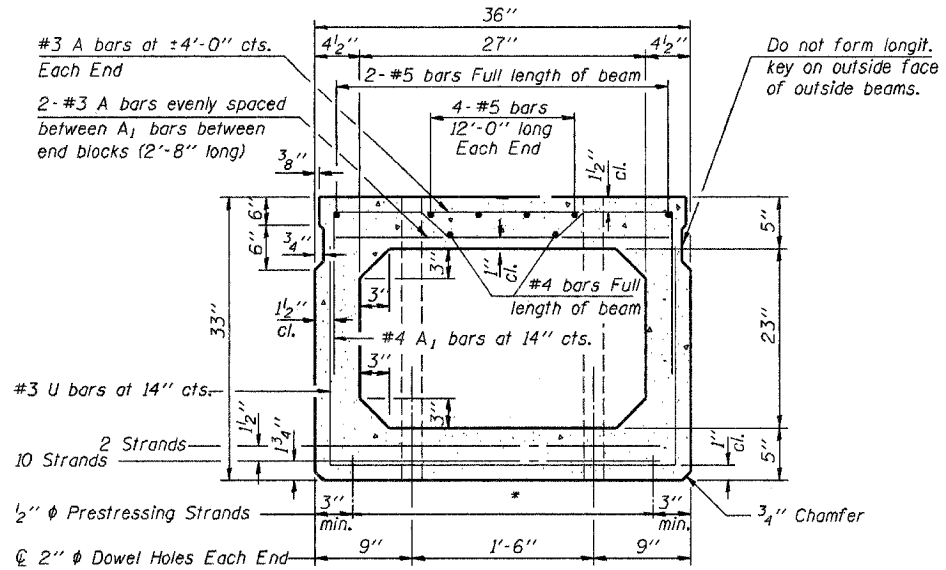
P.P.C. DECK BEAM SUPERSTRUCTURE			
24' RDWY.	33" BMS.	75' SPAN	0° SKEW
STANDARD CS-2433-75			

Illinois Department of Transportation

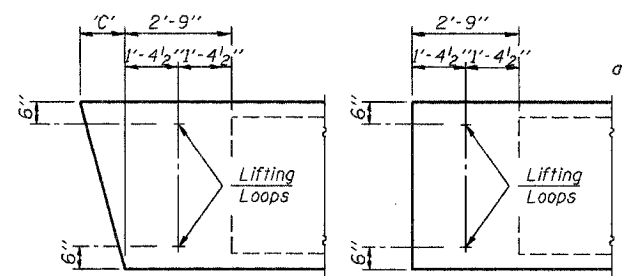
PASSED APRIL 4, 2005
 Theresa S. Romagnolo
 Engineer of Bridge Design

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

ISSUED 4-4-2005

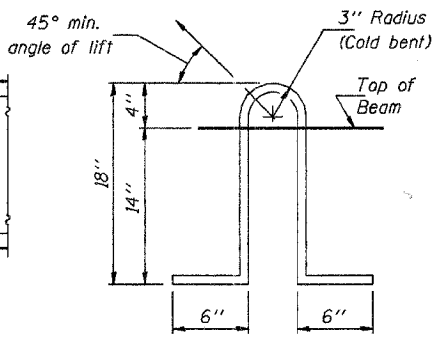


CROSS SECTION
(60' SPAN)



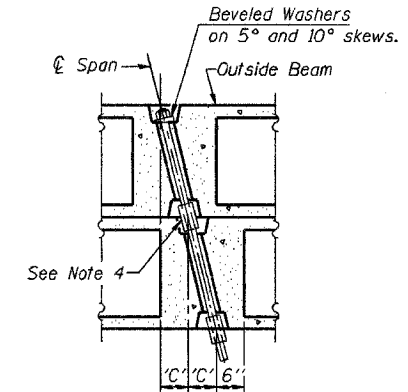
END BLOCK DETAILS

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.

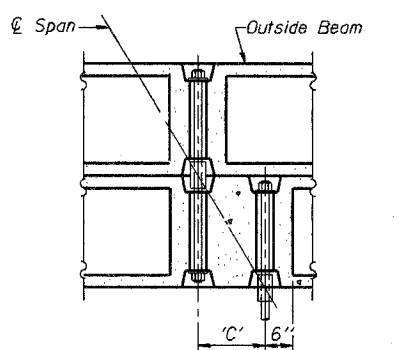


LIFTING LOOP DETAIL

Lifting loops shall be 3/2" 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°)

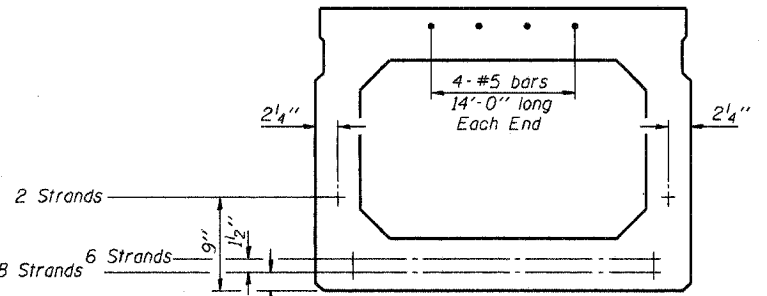
DIMENSION 'C'

Skew Angle 'D'	0°	5°	10°	15°	20°	25°	30°
Dimension 'C' (Inches)	0	3 3/8	6 3/8	9 5/8	13 3/8	16 3/4	20 3/4

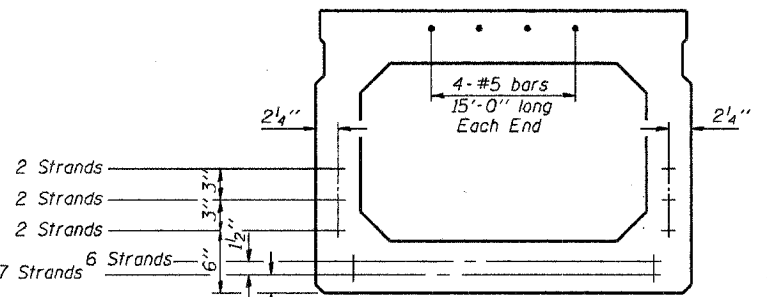
*** TRANSVERSE STRAND PLACEMENT GUIDELINES**

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 1/2".

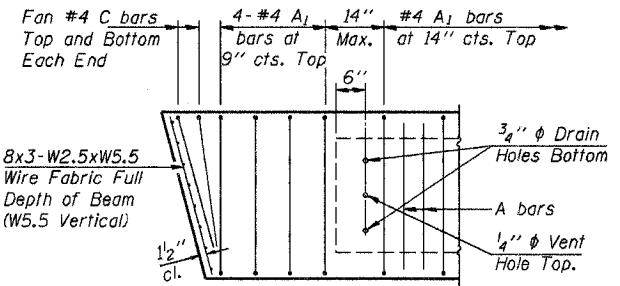
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



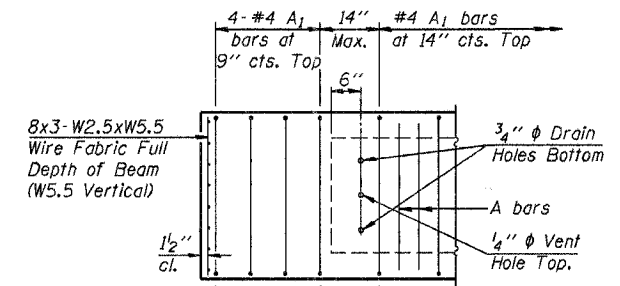
CROSS SECTION
(70' SPAN)



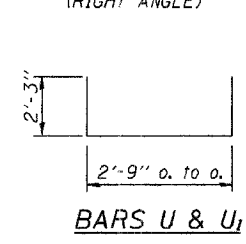
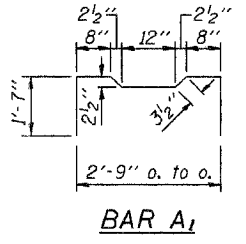
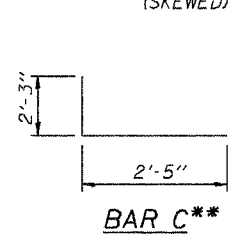
CROSS SECTION
(75' SPAN)



END REINFORCEMENT
(SKEWED)



END REINFORCEMENT
(RIGHT ANGLE)

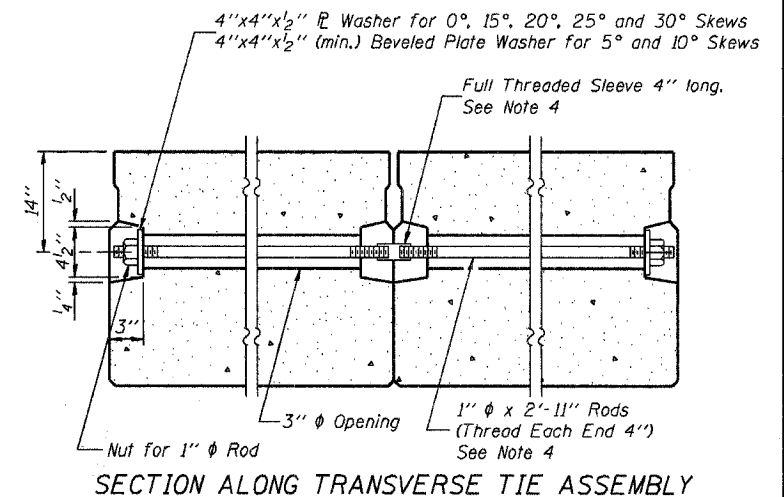


DESIGN STRESSES

- $f_c = 5,000$ p.s.i.
- $f_{ci} = 4,000$ p.s.i.
- $f_s = 270,000$ p.s.i. (1/2" ϕ Strand)
- $f_{sl} = 201,960$ 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"



SECTION ALONG TRANSVERSE TIE ASSEMBLY

NOTES

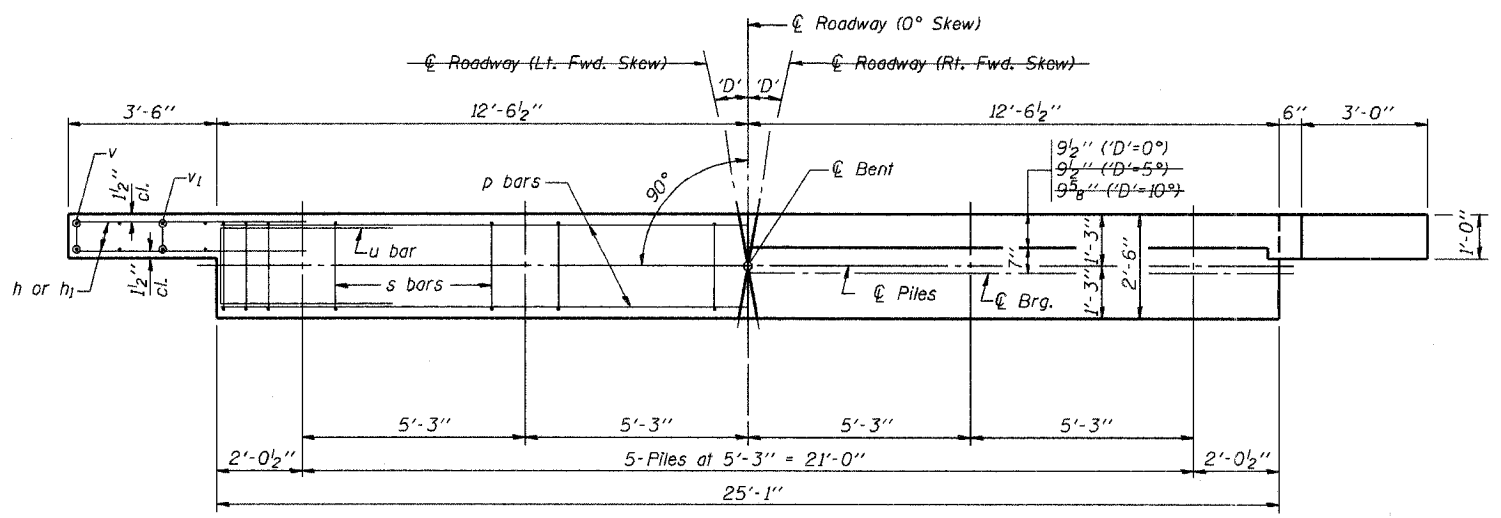
1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
2. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 square inches.
3. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60.
4. On 0°, 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.

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

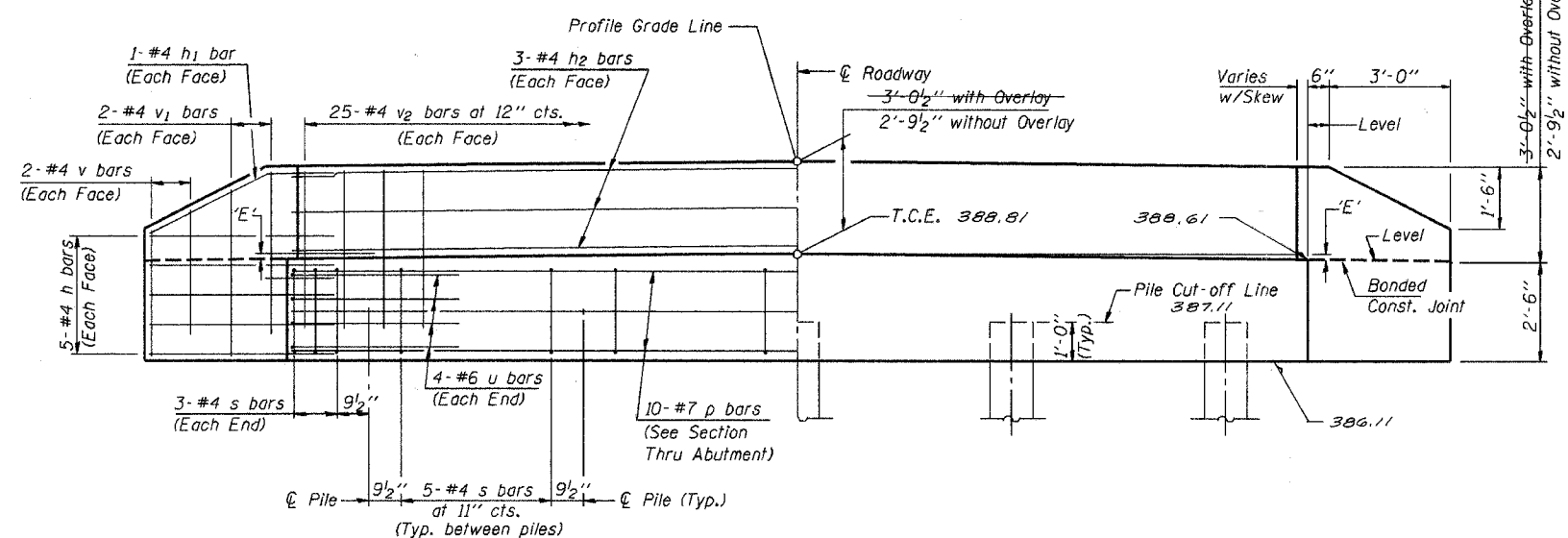
NOTE:
 The std. reinf. and dimensions shown on the 60' span cross section is typical for all spans, except as shown.

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

P.P.C. DECK BEAM DETAILS	
24' ROADWAY	33" x 36" BEAMS
STANDARD CB-2433-36	



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 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 3/8"	2 3/8"	2 1/4"	2 3/8"	2 1/8"	2 1/2"
Over 1% to 2%	2 3/8"	2 3/8"	2 1/8"	2 1/2"	1 7/8"	2 3/4"
Over 2% to 3%	2 3/8"	2 3/8"	2"	2 5/8"	1 5/8"	3"
Over 3% to 4%	2 3/8"	2 3/8"	1 7/8"	2 3/4"	1 3/8"	3 1/4"

NOTES

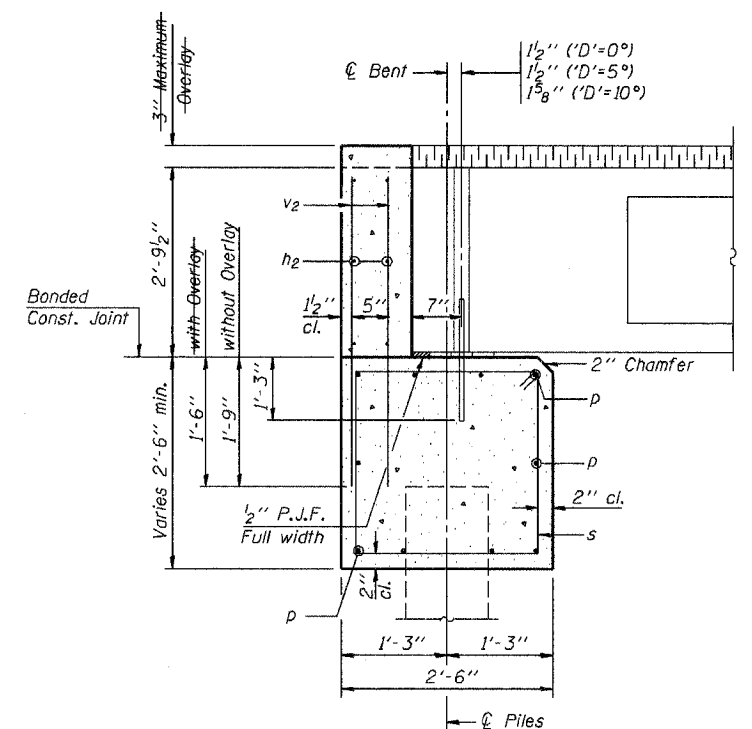
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
- Space reinforcement in cap to miss anchor bolts.

MAXIMUM PILE LOADS

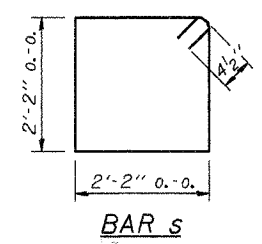
SPAN	TONS
60'	36
70'	40
75'	41

DESIGN STRESSES

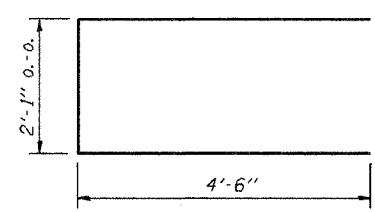
f'c = 3,500 psi
fy = 60,000 psi



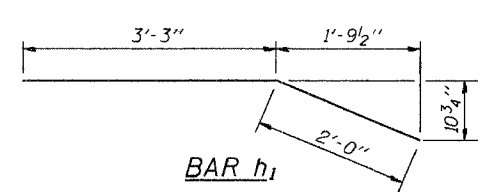
SECTION THRU ABUTMENT
(At Right Angles)



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	24'-9"	—
p	10	#7	24'-9"	—
s	26	#4	9'-5"	□
u	8	#6	11'-1"	□
v	8	#4	3'-8"	—
v1	8	#4	4'-8"	—
v2	50	#4	4'-5"	—
Concrete Structures			9.6 Cu. Yds.	
Reinforcement Bars			1170 Lb.	

**P.P.C. DECK BEAMS
PILE BENT ABUTMENT**

24' RDWY.	33" BMS.	'D'=0°, 5° OR 10°
STANDARD CA-2433-10		

Illinois Department of Transportation
PASSED APRIL 4, 2005
Thomas S. Romagosa
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
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.

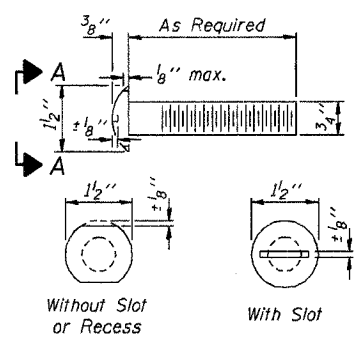
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cast included with STEEL RAILING, TYPE S-1.

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

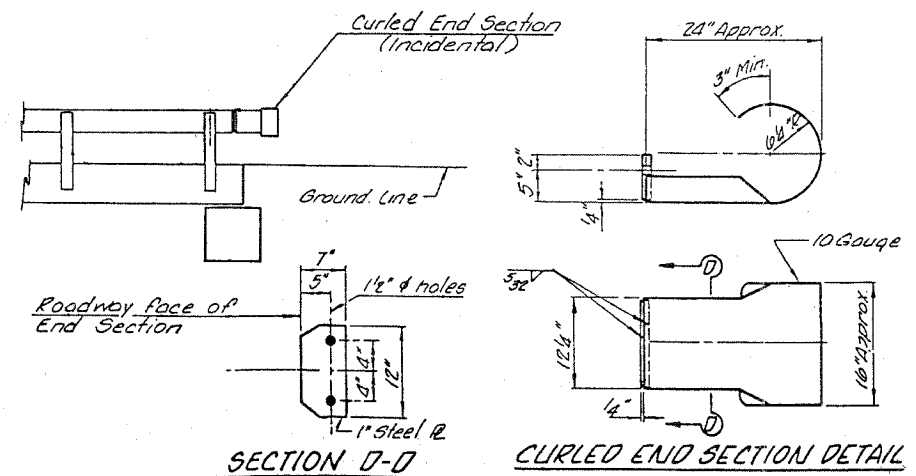
The 1/2" x 7" x 6" plates that come in contact with concrete shall either receive two coats of asphalt paint conforming to Section 1060.07 Type II, or 1/8" fabric bearing pads shall be placed between the plates and concrete.

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.

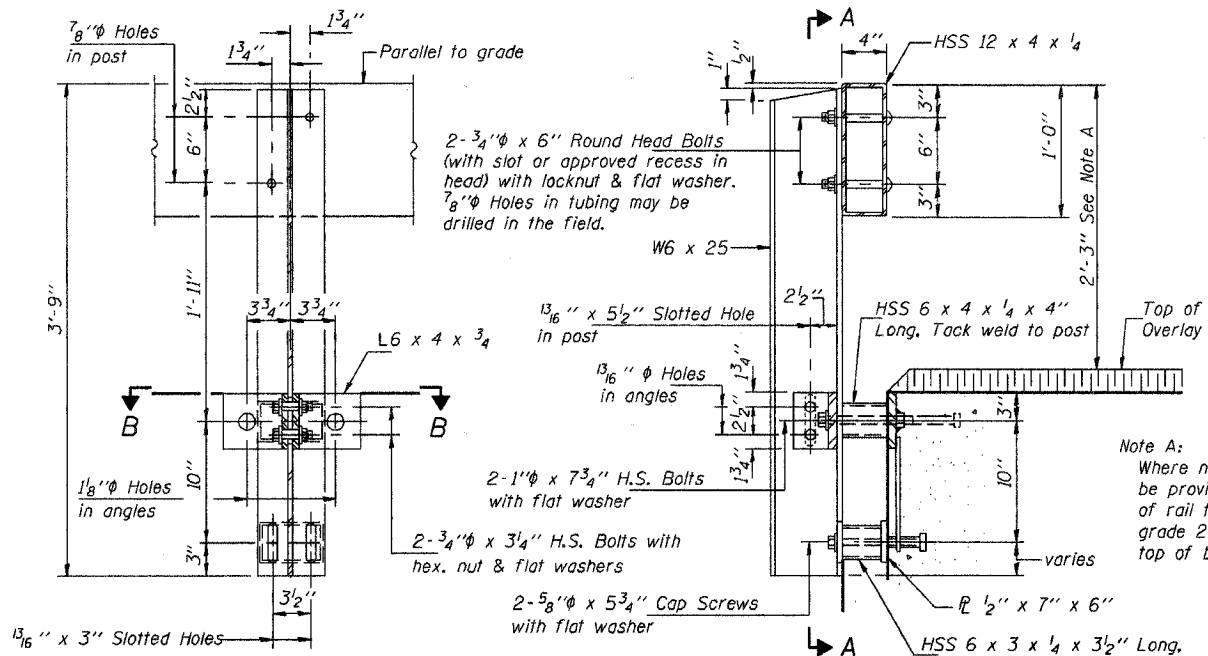
The maximum allowable rail post spacing shall be 10'-6". The rail post spacing shown elsewhere in the plans is based on the allowable spacing for another type of rail. When this type of rail is used, the number of posts may be decreased and the post spacing increased to provide equal post spaces of 10'-6"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



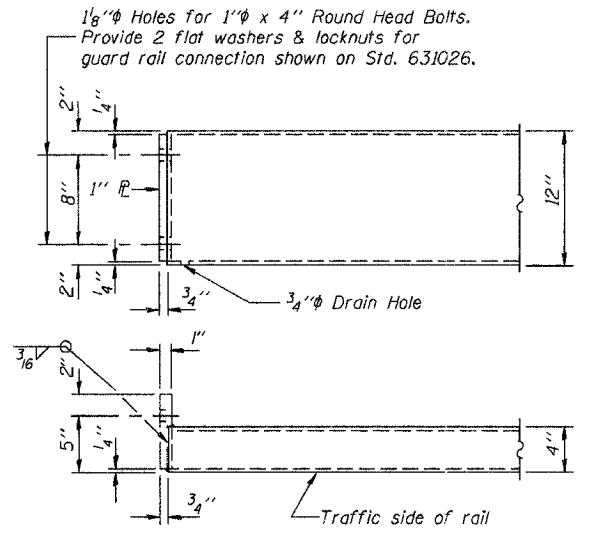
**VIEW A-A
 ROUND HEAD BOLT**



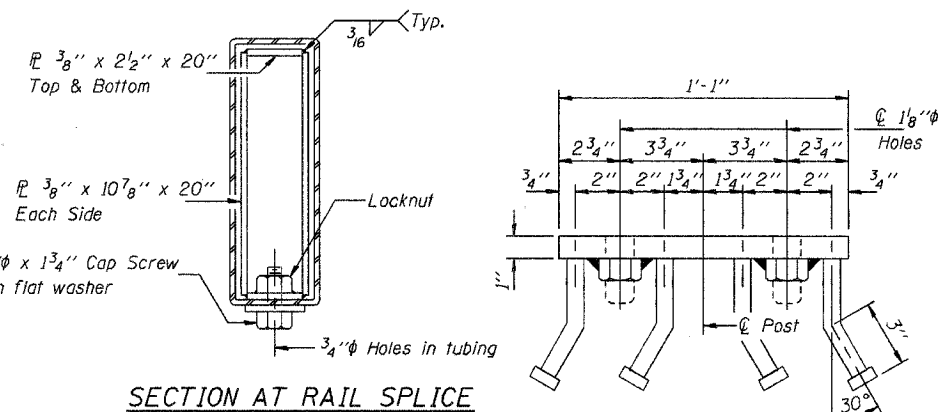
**SECTION D-D
 CURLED END SECTION DETAIL**



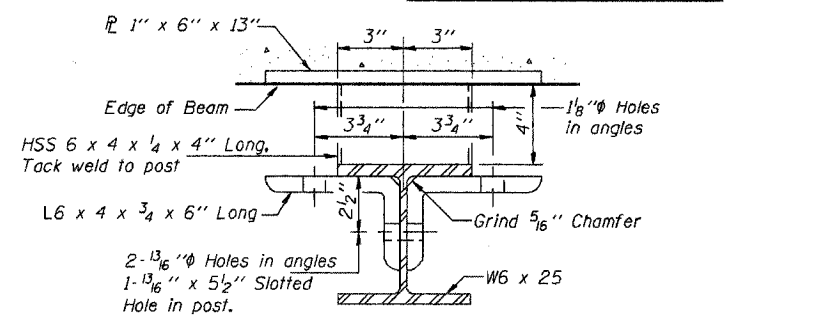
**SECTION A-A
 SECTION AT RAIL POST**



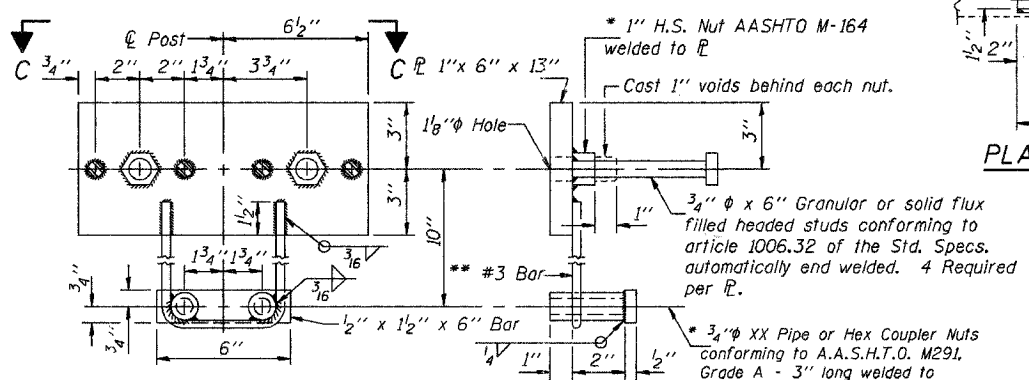
END OF RAIL DETAILS



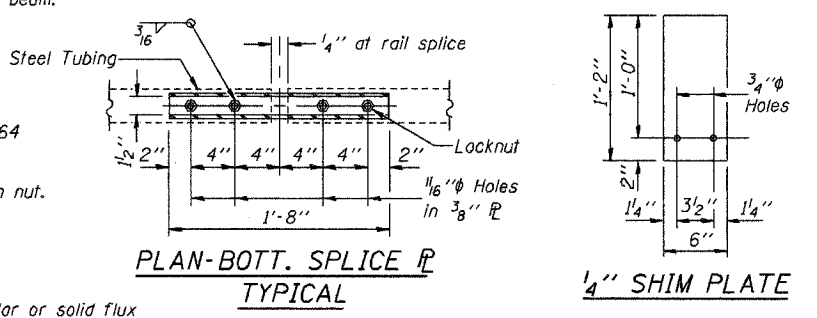
**SECTION AT RAIL SPLICE
 VIEW C-C**



SECTION B-B



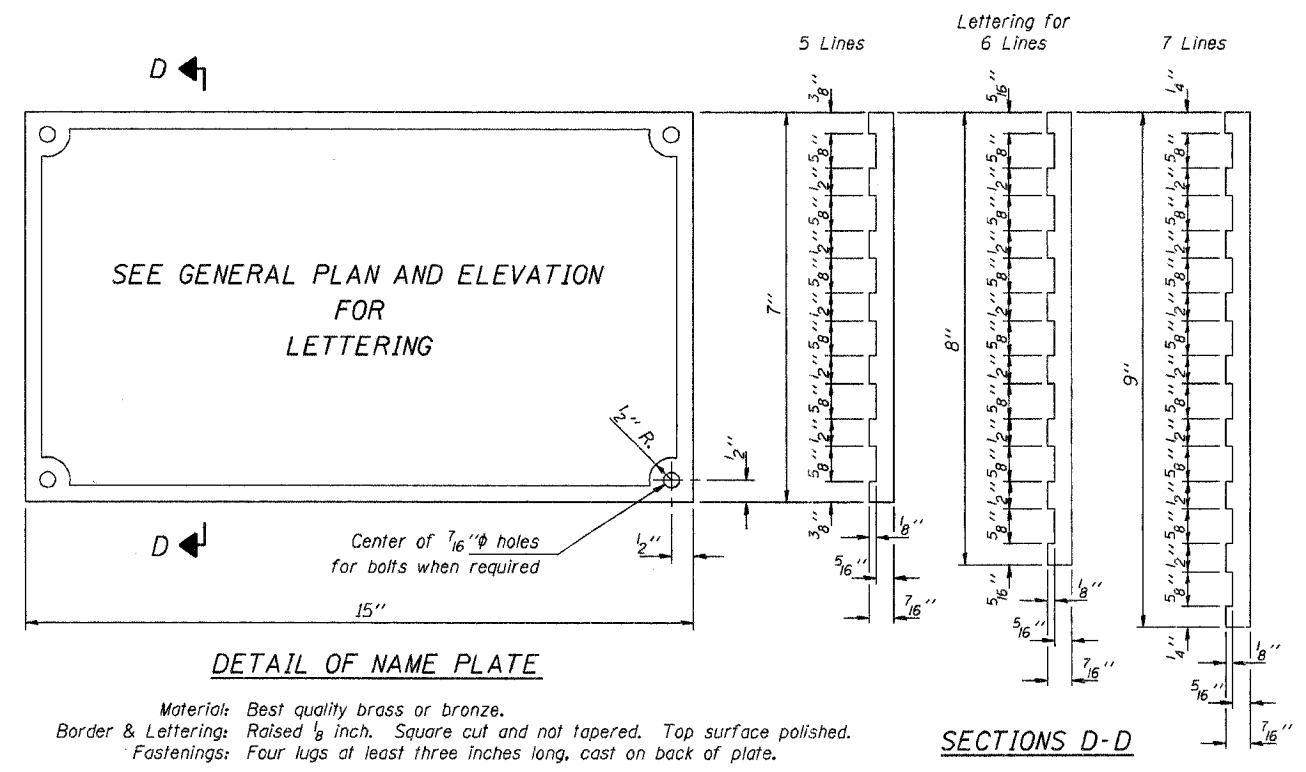
ANCHOR DEVICE



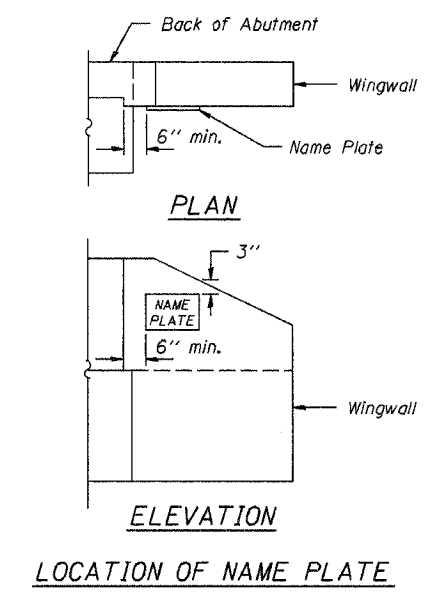
**PLAN-BOTT. SPLICE PLATE
 TYPICAL
 1/4" SHIM PLATE**

Illinois Department of Transportation
 PASSED APRIL 4, 2005
 Thomas J. Domagala
 Engineer of Bridge Design
 APPROVED APRIL 4, 2005
 Ralph E. Anderson
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**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

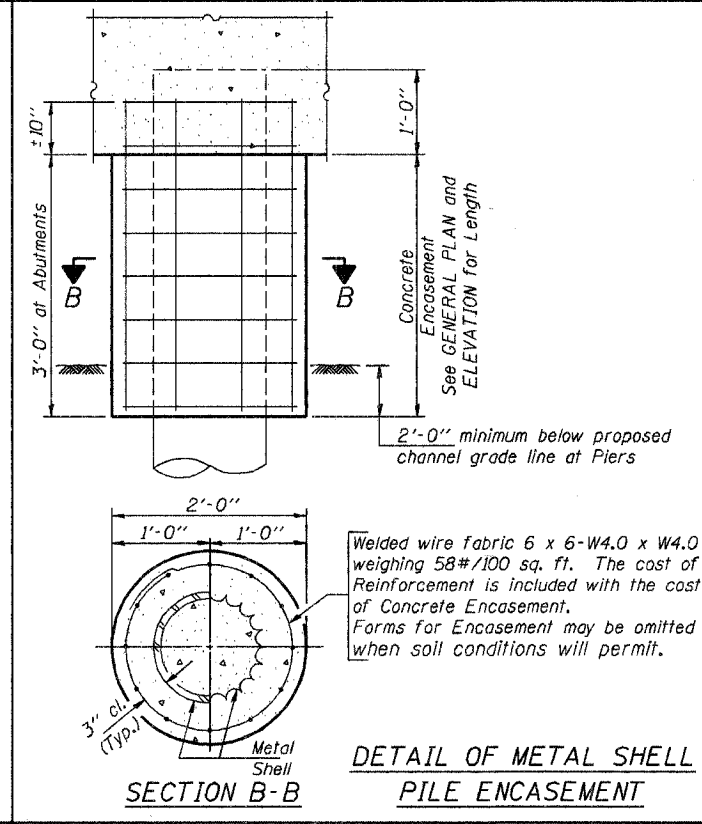
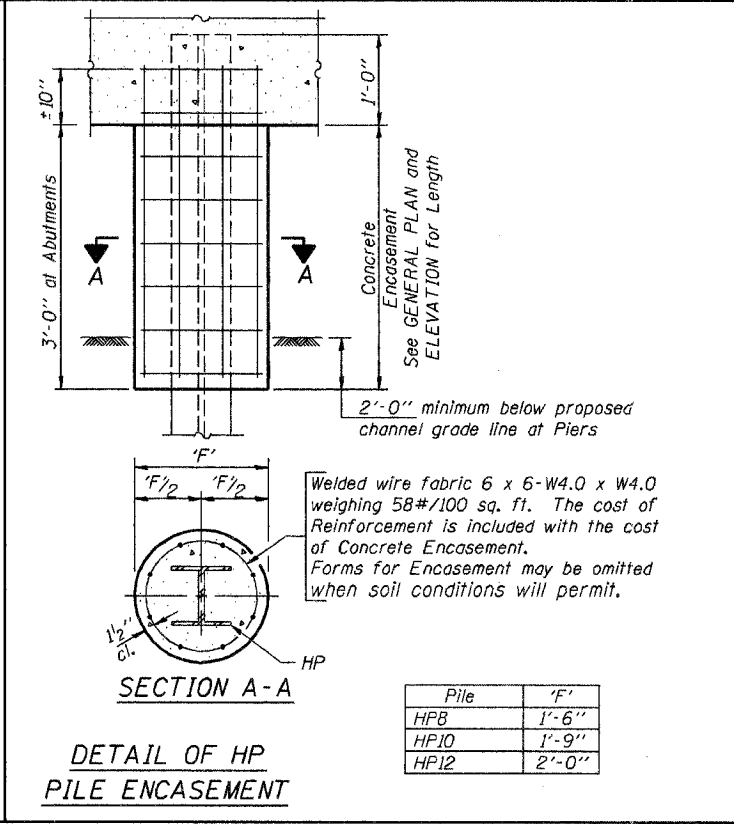
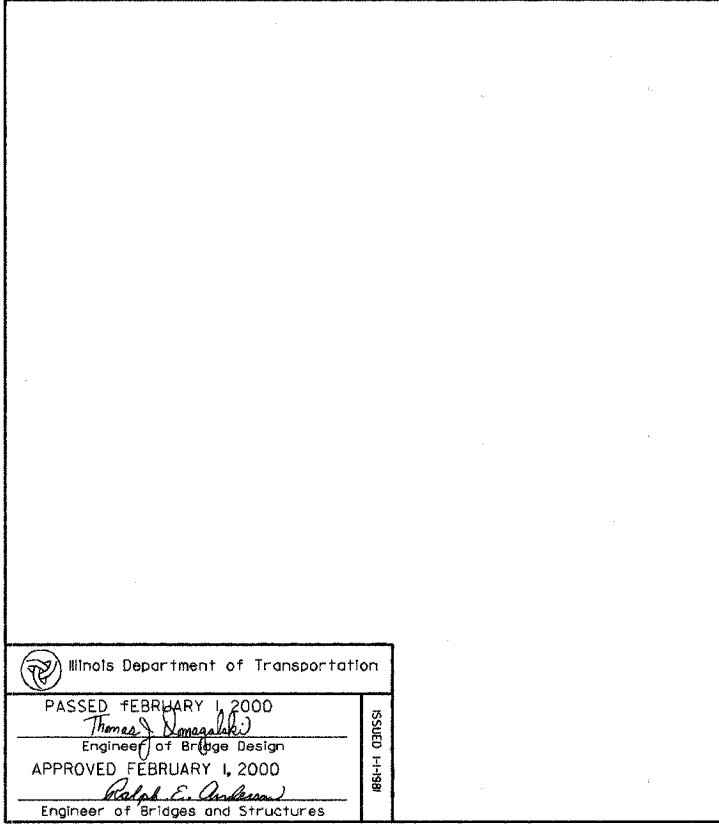
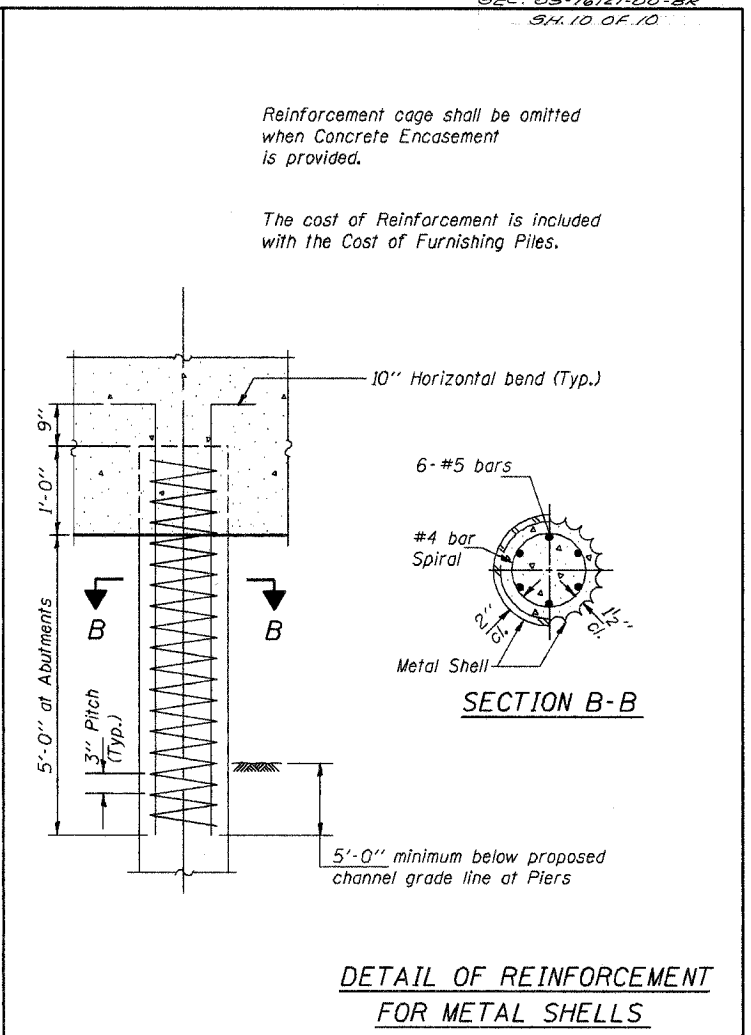
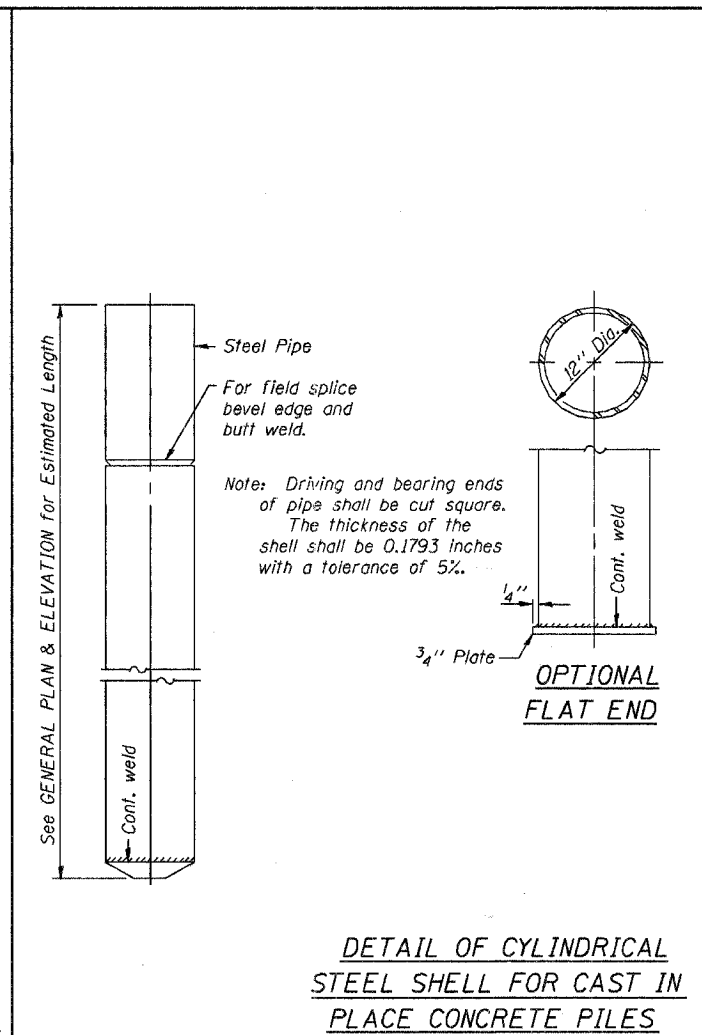
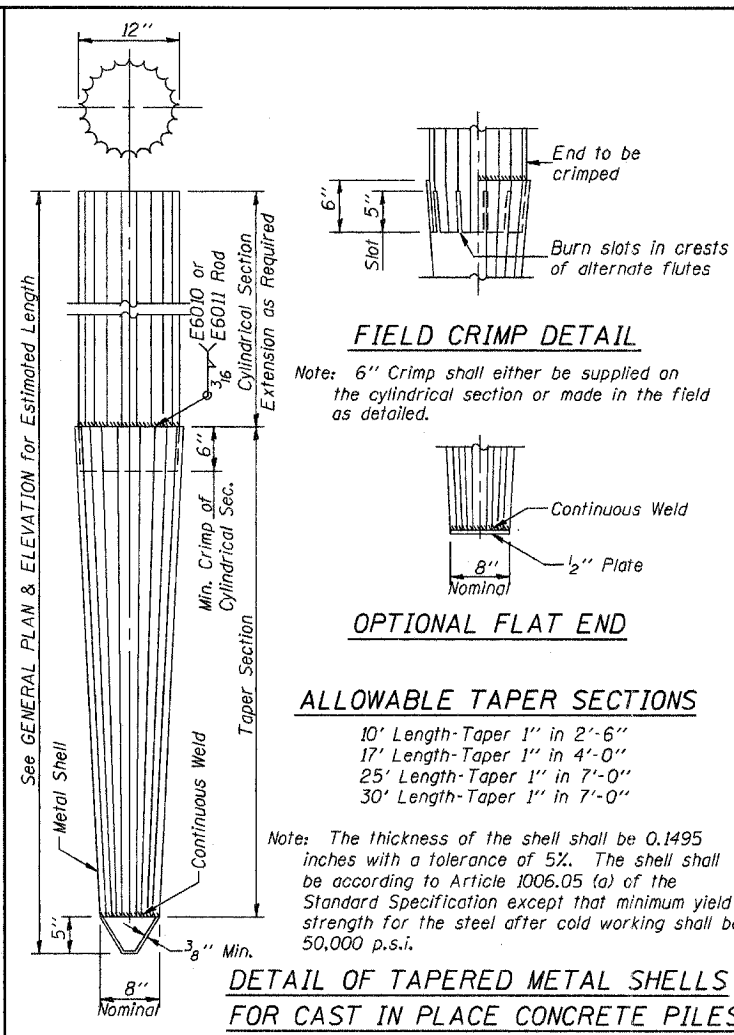
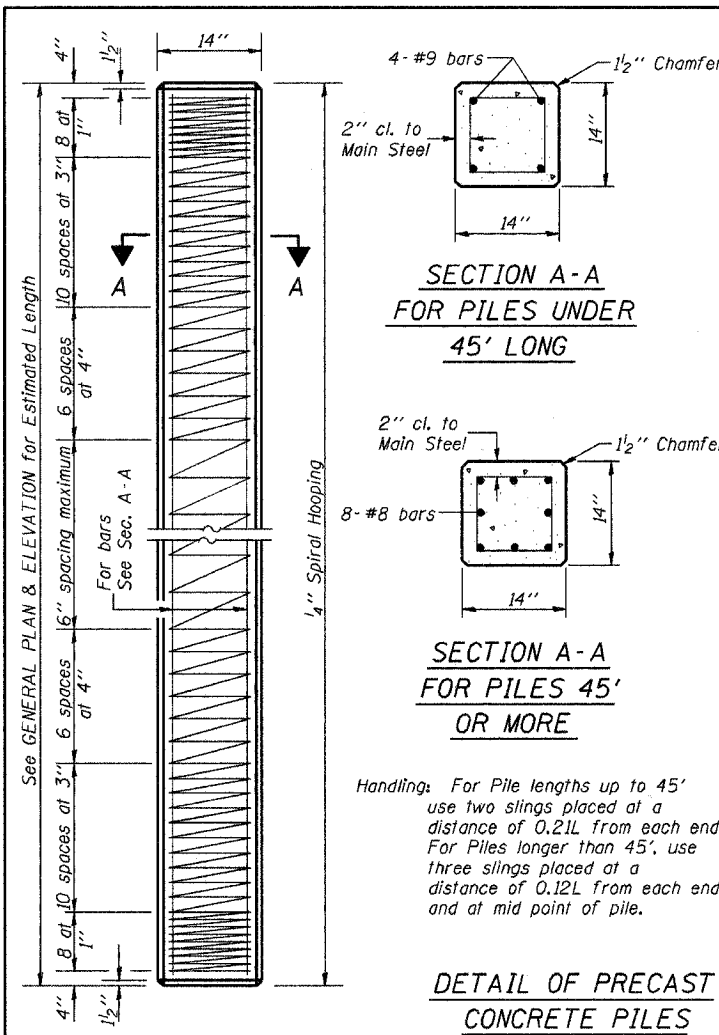
Thomas S. Romagosa
 Engineer of Bridge Design

APPROVED APRIL 4, 2005

Ralph E. Anderson
 Engineer of Bridges and Structures

ISSUED 566-7-7

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.

PILE DETAILS

STANDARD CX-1

Illinois Department of Transportation
PASSED FEBRUARY 1, 2000
Thomas J. Namasz
Engineer of Bridge Design
APPROVED FEBRUARY 1, 2000
Robert E. Anderson
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