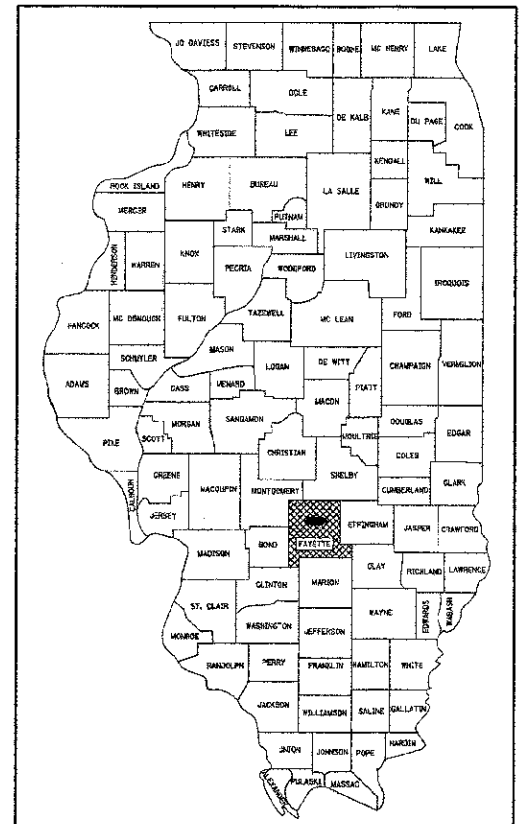


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM**

**TR 221 OVER SUCK CREEK
SECTION 11-13133-00-BR
PROJECT NO. BROS-0051(092)
SEFTON ROAD DISTRICT
FAYETTE COUNTY
JOB NO. C-97-079-12**



LOCATION OF SECTION INDICATED THUS: [shaded rectangle]

INDEX OF SHEETS

1. COVER SHEET
2. SUMMARY OF QUANTITIES, GENERAL NOTES, AND TYPICAL SECTIONS
3. PLAN AND PROFILE OF ROADWAY
4. GENERAL PLAN AND ELEVATION
- 5.-6. PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
7. STEEL RAILING, TYPE S1 DETAILS
8. ABUTMENT DETAILS
9. HP PILE DETAILS
- 10.-11. CROSS SECTIONS OF ROADWAY

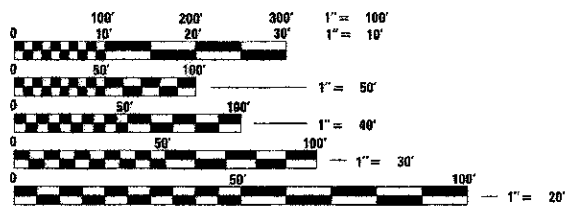
HIGHWAY STANDARDS (SEE SPECIFICATIONS)
 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
 515001-03 NAME PLATE FOR BRIDGES
 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
 701901-02 TRAFFIC CONTROL DEVICES
 B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

SOIL BORINGS (SEE SPECIFICATIONS)

DESIGN CLASSIFICATION: RURAL LOCAL ROAD

ADT₂₀₁₁ : 50

DESIGN SPEED: 30 MPH

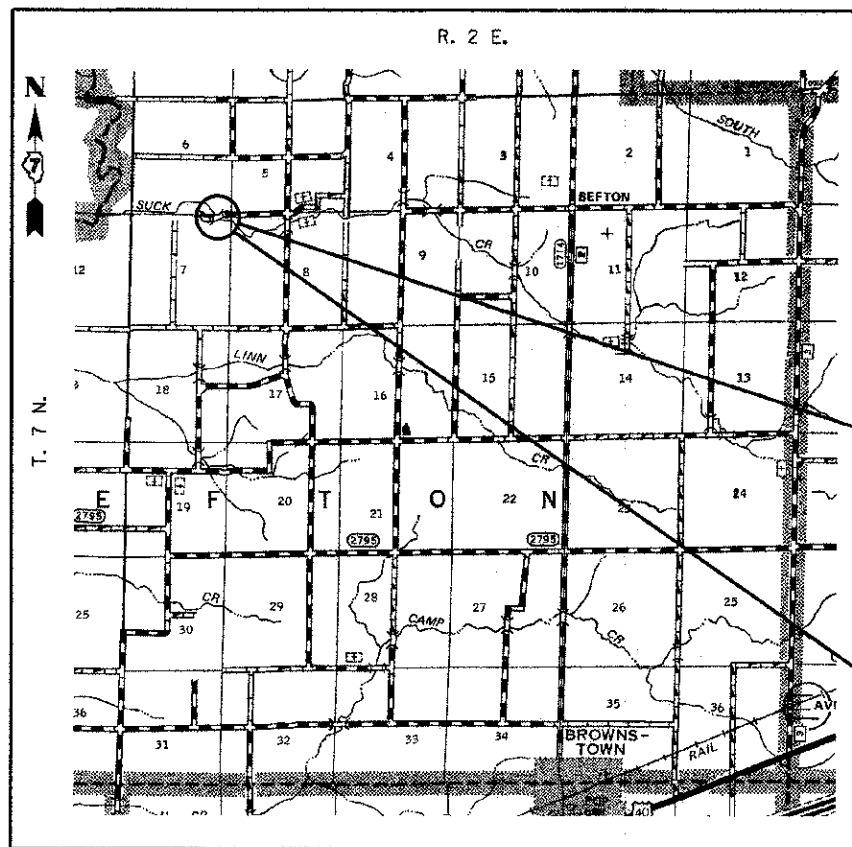


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123 or 811 Website: <http://www.illinois1call.com>



Gary L. Hahn 12-20-2012
 GARY L. HAHN
 CENTRALIA, ILLINOIS
 ILLINOIS LICENSED PROFESSIONAL
 ENGINEER NO. 62-42606
 EXPIRES NOV. 30, 2013



SECTION BEGINS
STA. 8+55.00

SECTION 11-13133-00-BR INCLUDES THE CONSTRUCTION OF A SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE CARRYING TR 221 OVER SUCK CREEK, 80'-0" BK. TO BK. ABUTMENTS X 24' WIDE, NO SKEW. EXISTING STRUCTURE NO. 026-3096 PROPOSED STRUCTURE NO. 026-3457

SECTION ENDS
STA. 11+82.29

LOCATION: NEAR THE SE CORNER OF SECTION 6, T7N, R2E, 3RD P.M.
NET LENGTH OF PROJECT: 327.29 FT. = 0.062 MI.

FAYETTE COUNTY
HIGHWAY DEPARTMENT

APPROVED 12-21, 2012
Michael S. [Signature]
FAYETTE COUNTY, COUNTY ENGINEER

PASSED 1-9, 2013
[Signature]
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

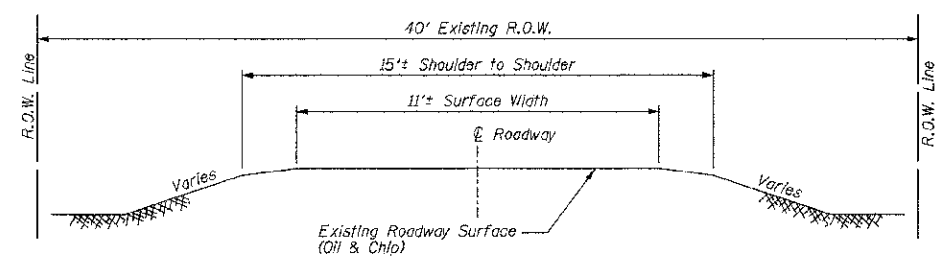
RELEASING FOR BID
BASED ON LIMITED
REVIEW 1-9, 2013
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

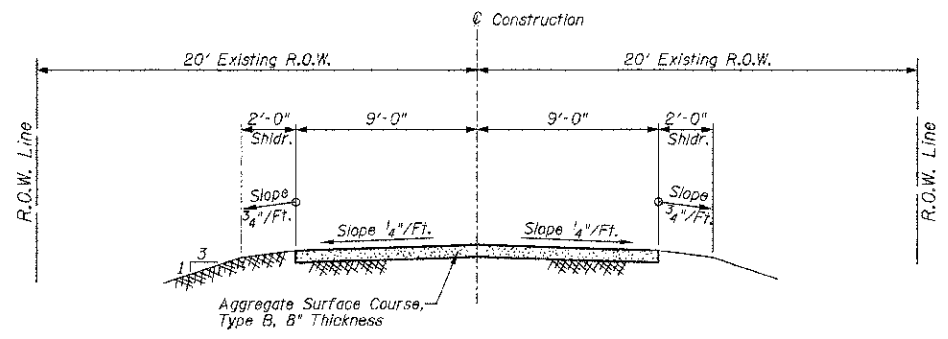
CONTRACT NO. 95698

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 221	11-13133-00-BR	FAYETTE	11	1
RAAI JOB NO. 50912 ILLINOIS FED. AID PROJECT			CONTRACT NO. 95698	

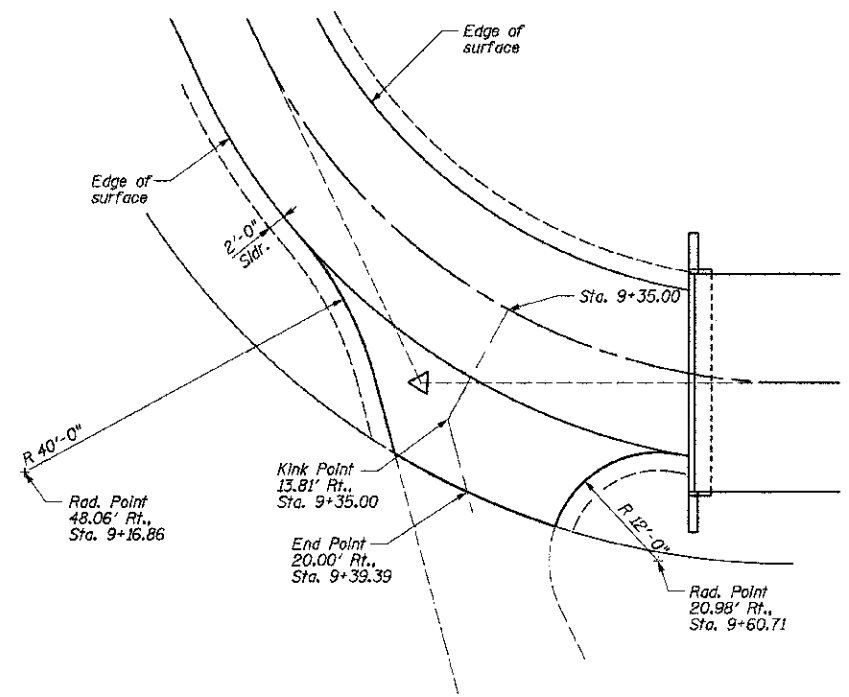
12/20/2012 RAA1 #50912



**TYPICAL SECTION
EXISTING APPROACH ROADWAY**



**TYPICAL SECTION
PROPOSED APPROACH ROADWAY**



FIELD ENTRANCE DETAIL - RT., STA. 9+35
Aggregate Surface Course, Type B 6" Depth - 20 Ton
(Included in Summary of Quantities)

UTILITIES

- Frontier Communications
Mark Burks
Phone: 217-854-2222
- Southern Electric Co-op
Annette Brown
Phone: 618-664-1025 x5911
- Fayette Water Company
Mike Casey
Phone: 618-347-2430
- Enbridge (Pipeline)
Wes Smith
Phone: 918-493-1877

SUMMARY OF QUANTITIES

Code No.	Item	Unit	Quantity
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	66
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36
20200100	EARTH EXCAVATION	CU YD	19
20300100	CHANNEL EXCAVATION	CU YD	254
20400800	FURNISHED EXCAVATION	CU YD	332
20700110	POROUS GRANULAR EMBANKMENT	TON	108
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	170
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	213
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	21.6
50300280	CONCRETE ENCASEMENT	CU YD	3.6
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1888
50800105	REINFORCEMENT BARS	POUND	3540
* 50900205	STEEL RAILING, TYPE S1	FOOT	160
51201600	FURNISHING STEEL PILES HP12X53	FOOT	488
51202305	DRIVING PILES	FOOT	488
51203600	TEST PILE STEEL HP12X53	EACH	1
51204650	PILE SHOES	EACH	10
51500100	NAME PLATES	EACH	1
67100100	MOBILIZATION	L SUM	1
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2

* Specialty Item

GENERAL NOTES

1. This section shall be constructed according to the plans, the Special Provisions, and the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2012.
2. Roadway Centerline profiles refer to the finished surface.
3. If Ash trees are removed on the Project, the Contractor shall become familiar with and comply with measures specified by the Illinois Department of Agriculture (IDOA) to prevent the spread of the Emerald Ash Borer. The IDOA information for Ash tree removal can be found on the IDOA website at www.agr.state.il.us/eab.
4. Existing utilities shown are located from surface observations or information provided by the respective utilities and must be considered approximate. There may be others, the exact location of which are unknown and not shown. The Contractor will be responsible for notifying the respective utilities before work is begun. Field marking of underground utilities may be obtained by providing a minimum of 48 hours advance notice through the J.U.L.I.E. system by calling 1-800-892-0123, 811, or by direct contact with non-members of J.U.L.I.E.
5. The Aggregate Surface Course, Type B gradation shall be CA 6 or CA 10. Only crushed stone will be approved for use on this project.
6. The nominal thickness for surface course is shown on the Typical Sections, Standards, Schedules, or Special Details. The constructed thickness of the above item shall not be less than 90 percent of the nominal thickness at any location.
7. Factors used for quantity calculations are as follows:
 Porous Granular Embankment 2.1 tons/cu. yd.
 Stone Dumped Riprap 130 pounds/cu. ft.
 Aggregate Surface Course 2.1 tons/cu. yd.
8. Commitments: None as of October 30, 2012.

RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
CENTRALIA, ILLINOIS FRESBURG, ILLINOIS
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

DESIGNED -	BLT	REVISED -	
DRAWN -	JN	REVISED -	
CHECKED -	GLH	REVISED -	
DATE -	12/20/2012	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES, GENERAL NOTES, AND TYPICAL SECTIONS
STRUCTURE NO. 026-3457**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 221	11-13133-00-BR	FAYETTE	11	2
RAAI JOB NO. 50912 ILLINOIS FED. AID PROJECT			CONTRACT NO. 95698	

TBM 1 - RR spike in 36" tree,
19' Lt. of Sta. 9+43 - Elev. 498.04

TBM 2 - RR spike in guy pole,
17' Rt. of Sta. 10+50 - Elev. 494.10

Existing Structure: Structure No.: 026-3096. Single span timber
deck bridge with runners on steel stringers supported on closed
timber backed steel pile abutments. 40' L. x 16' W. No skew.
To be removed. See Special Provisions for salvage.

LOADING HL-93

50#/sq. ft. included in dead load
for future wearing surface.

DESIGN SPECIFICATIONS

2010 (4th ED.) AASHTO LRFD
Bridge Design Specifications.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST PRESTRESSED UNITS

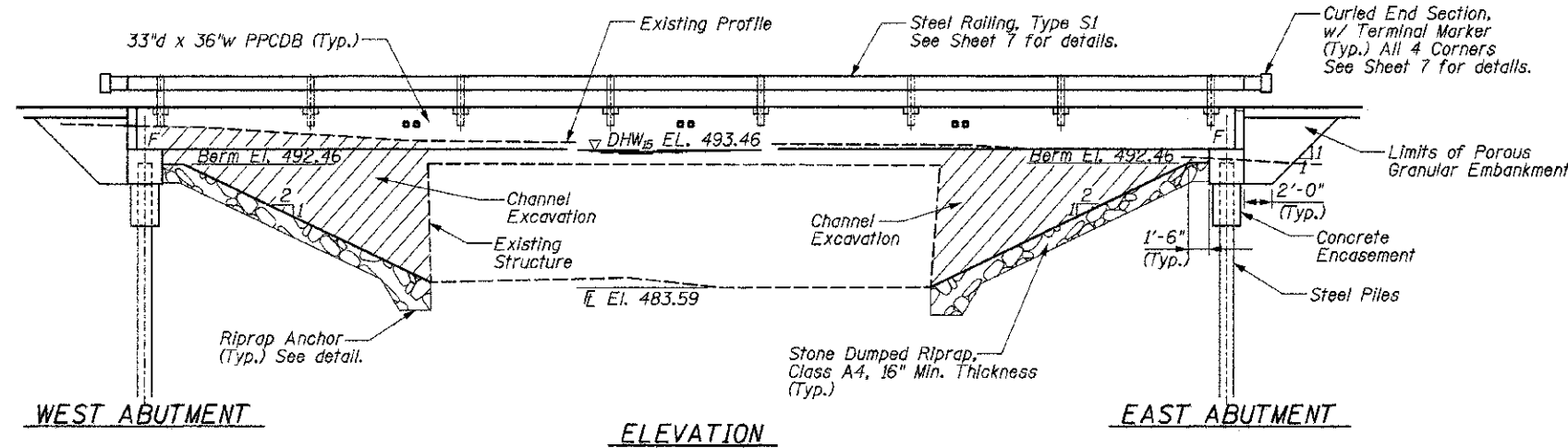
$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax. strands)
 $f_y = 60,000$ psi (reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Soil Site Classification = C
 $S_{D1} = 0.155$ $S_{D5} = 0.376$

BILL OF MATERIALS (BRIDGE ONLY)

ITEM	UNIT	TOTAL
Channel Excavation	Cu Yd	254
Porous Granular Embankment	Ton	108
Stone Dumped Riprap, Class A4	Ton	170
Removal of Existing Structures	Each	1
Concrete Structures	Cu Yd	21.6
Concrete Encasement	Cu Yd	3.6
PPCDB (33" Depth)	Sq Ft	1888
Reinforcement Bars	Pound	3540
Steel Railing, Type S1	Foot	160
Furnishing Steel Piles HP12x53	Foot	488
Driving Piles	Foot	488
Pile Shoes	Each	10
Test Pile Steel HP12x53	Each	1
Name Plates	Each	1
Terminal Marker - Direct Applied	Each	4



GENERAL NOTES

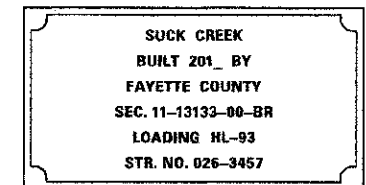
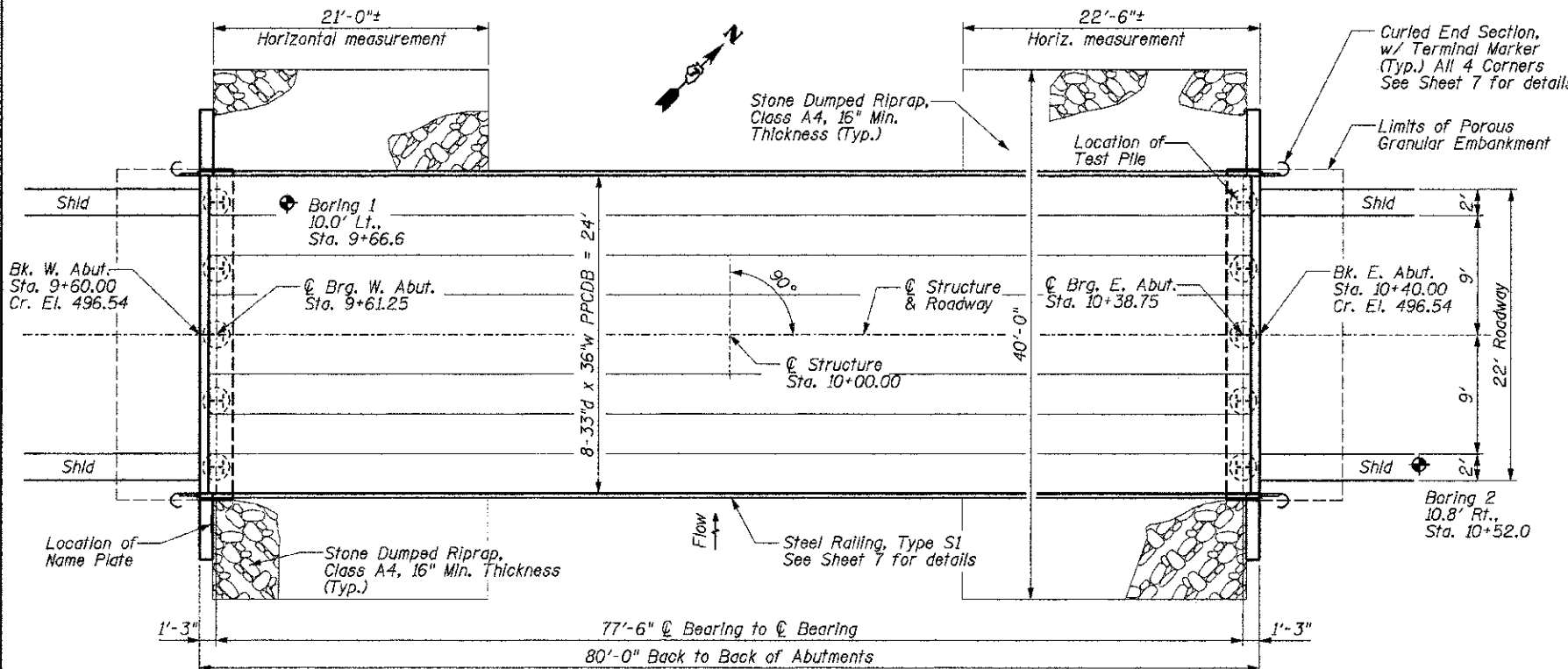
Layout of slope protection system may be varied in the field to suit
ground conditions as directed by the Engineer.

Channel excavation shall be excavated as shown within the limits of
the proposed bridge, then tapered to the existing channel at the ROW line.
If the Engineer deems the material satisfactory, it may be used to
construct the roadway embankment.

See Specifications for Soil Borings.

Do not scale these drawings.

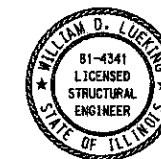
The abutment bearing seat surfaces for the precast prestressed concrete
deck beams shall be adjusted by shimming to assure firm and even bearing.
As required, $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the Exterior
Bearing Pad shall be provided for each bearing. The top surface of the
beams shall be finished according to the IDOT Manual for Fabrication of
Precast Prestressed Concrete Products.



NAME PLATE

See Std. 515001

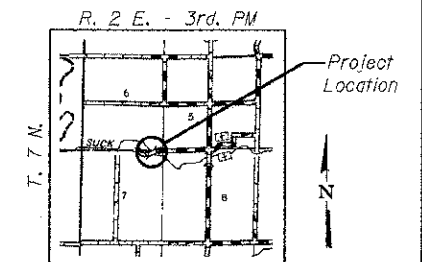
I certify that to the best of knowledge, information
and belief, this bridge design is structurally adequate
for the design loading shown on the plans.
The design is an economical one for the style of structure
and complies with requirements of the current AASHTO
Standard Specifications for Highway Bridges.



William D. Lueking
Date of Signing

12/20/2012
Date of License Expiration

11/30/2014
Date of License Expiration



LOCATION SKETCH

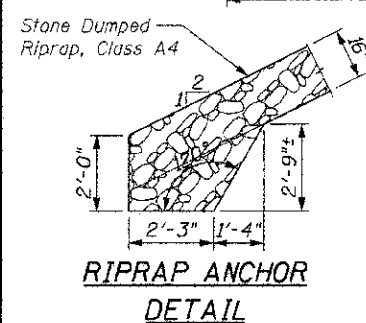
WATERWAY INFORMATION

Drainage Area = 13.5 sq. mi. Low Grade Elev. 491.5 @ Sta. 10+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	15	2900	310	539	493.46	0.57	0.24	494.03	493.70	
Base	100	4610	310	547	494.64	0.41	0.55	495.05	495.19	
Overtopping	<4	1400	282	408	491.67	0.21	0.03	491.88	491.70	
Max. Calc.	500	6250	310	547	495.53	0.36	0.78	495.89	496.31	

GRADE ON STRUCTURE

(along ϕ TR 221)



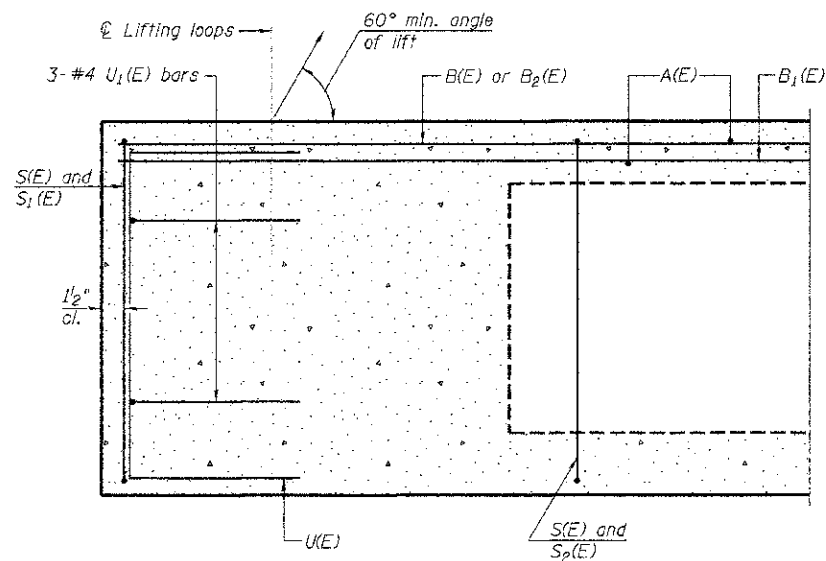
RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
CENTRALIA, ILLINOIS
FREEBURG, ILLINOIS
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

DESIGNED - BLT	REVISED -
DRAWN - JN	REVISED -
CHECKED - WDL	REVISED -
DATE - 12/20/2012	REVISED -

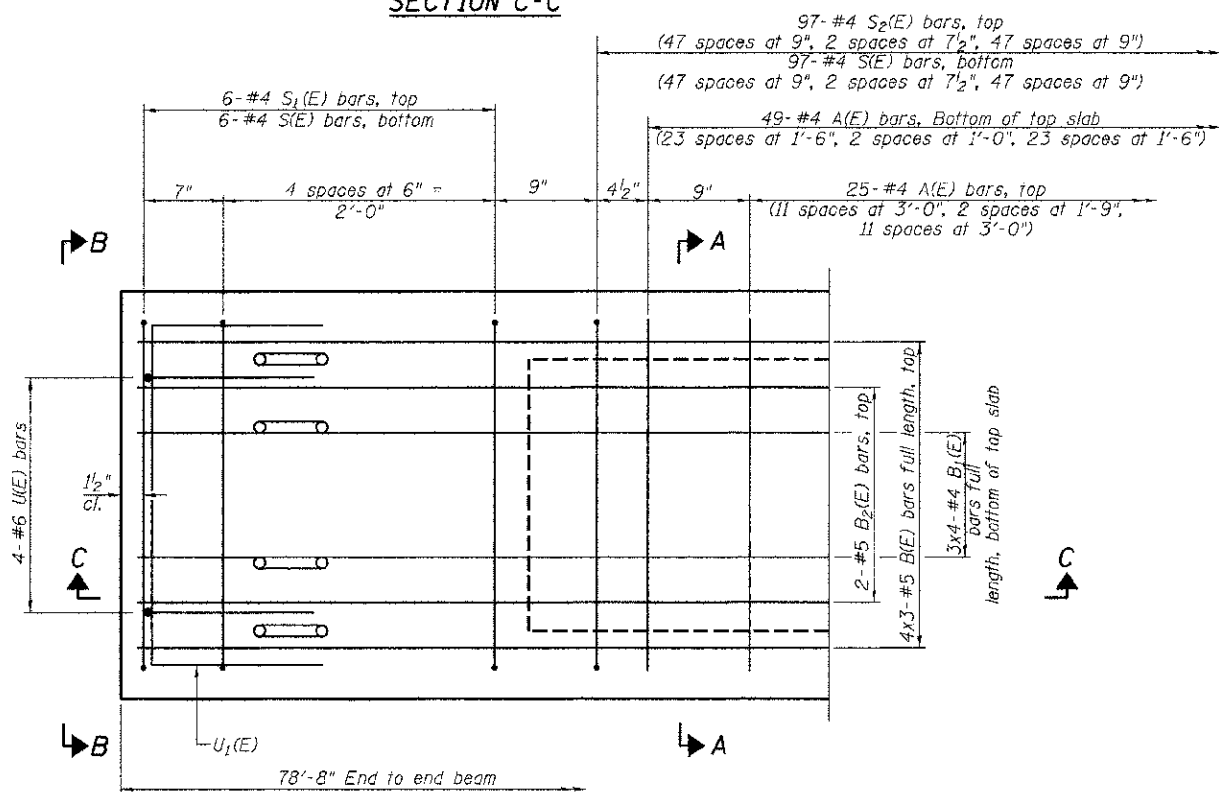
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 026-3457

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 221	11-13133-00-BR	FAYETTE	11	4
CONTRACT NO. 95698				



SECTION C-C



PLAN VIEW

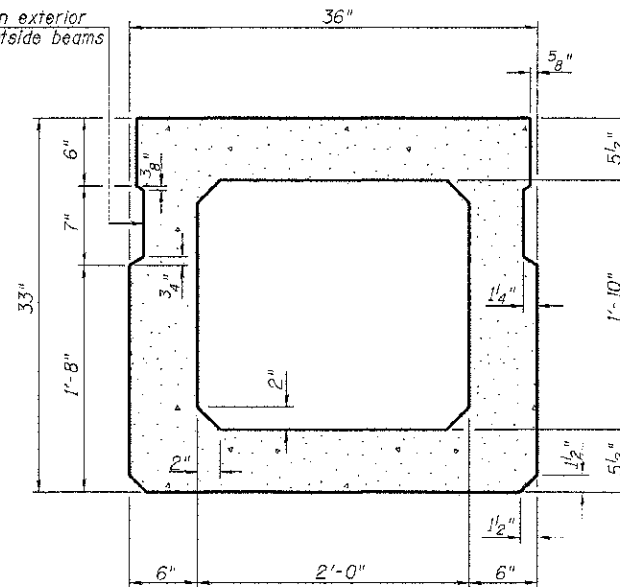
Notes: Spacing of S(E) and S₂(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus: 4x3-#5 etc. indicates 4 lines of bars with 3 lengths per line.

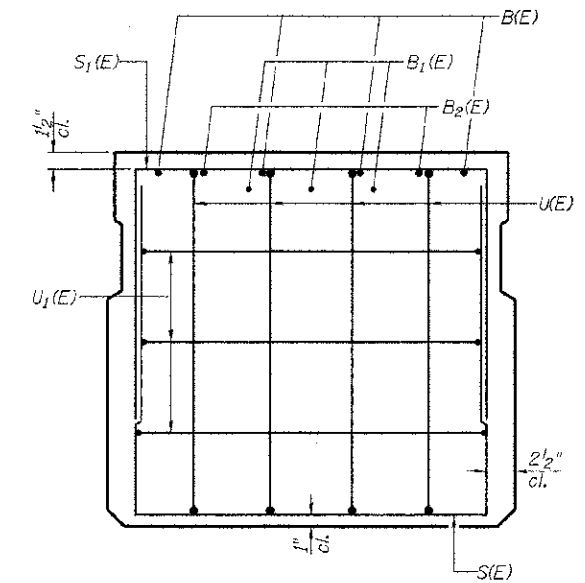
MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

Omit key on exterior face of outside beams

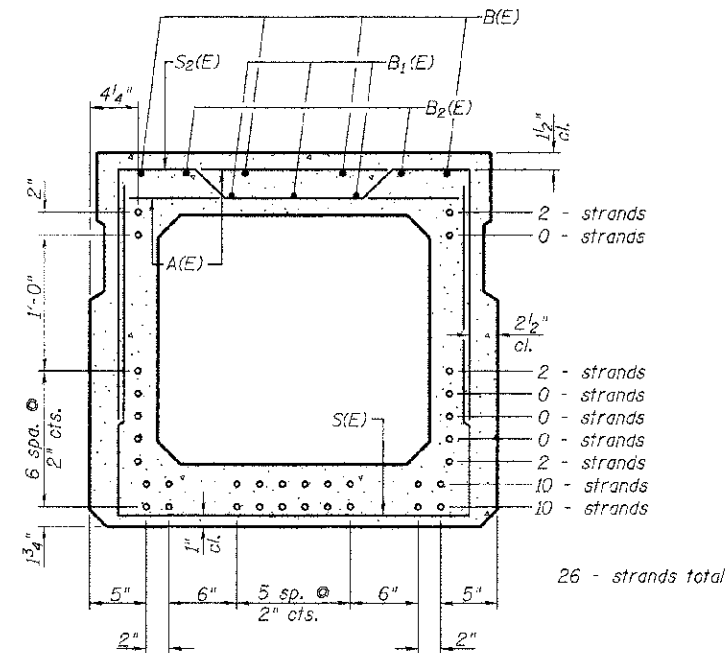


SECTION A-A
(Showing dimensions)



VIEW B-B

Symmetrical about \bar{C}



SECTION A-A

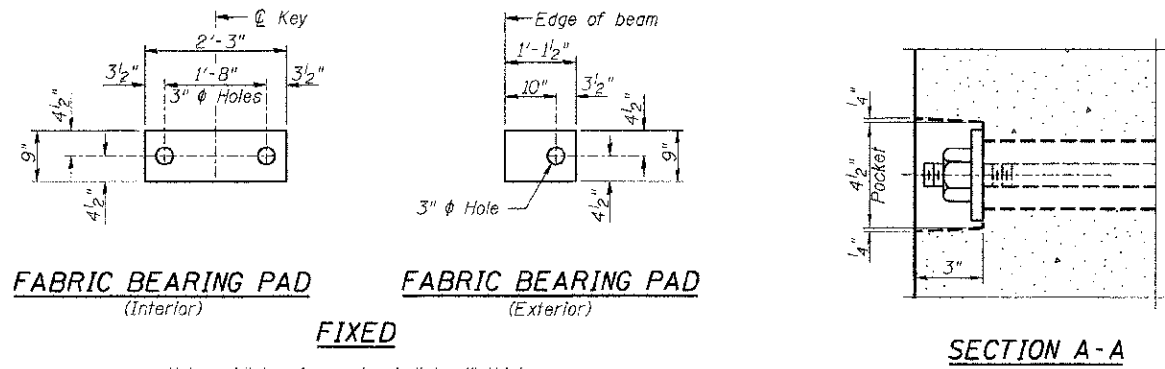
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

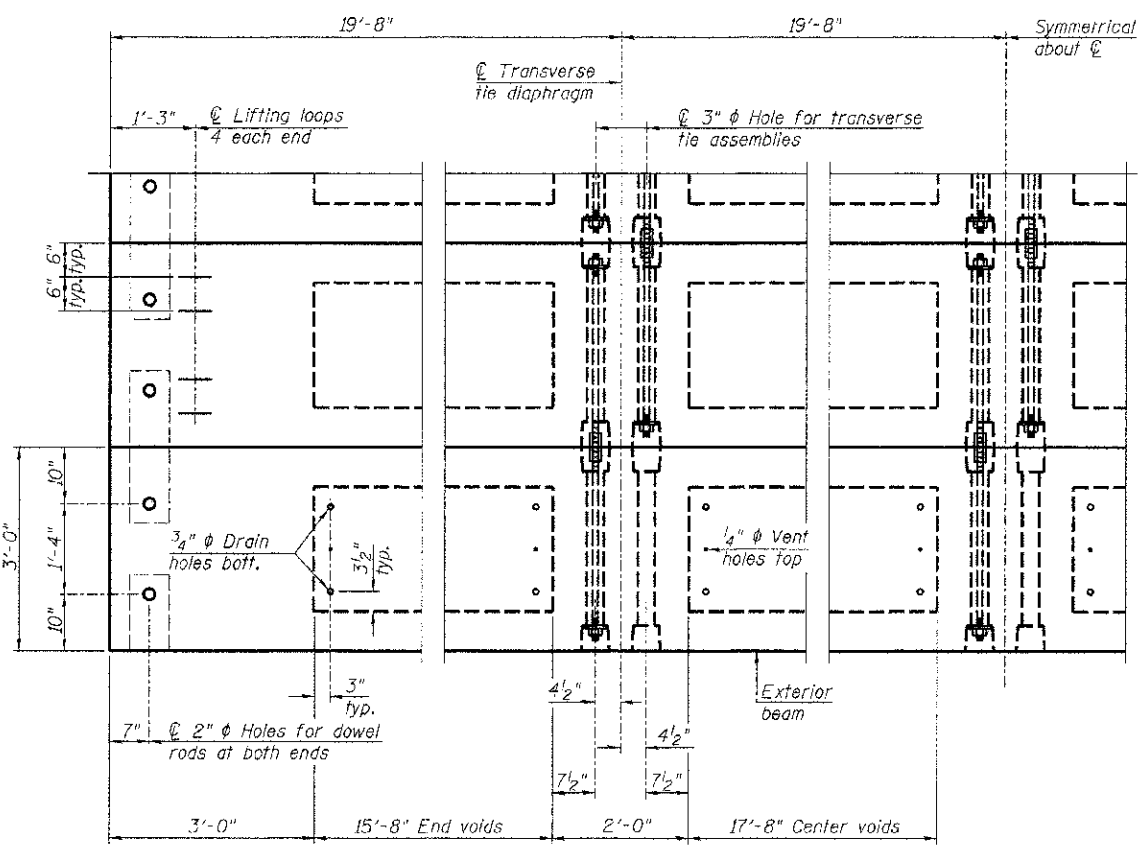
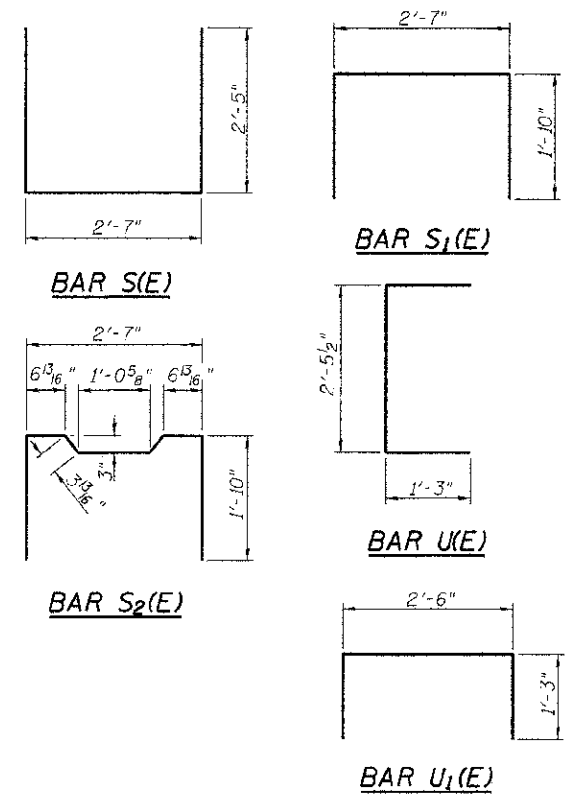
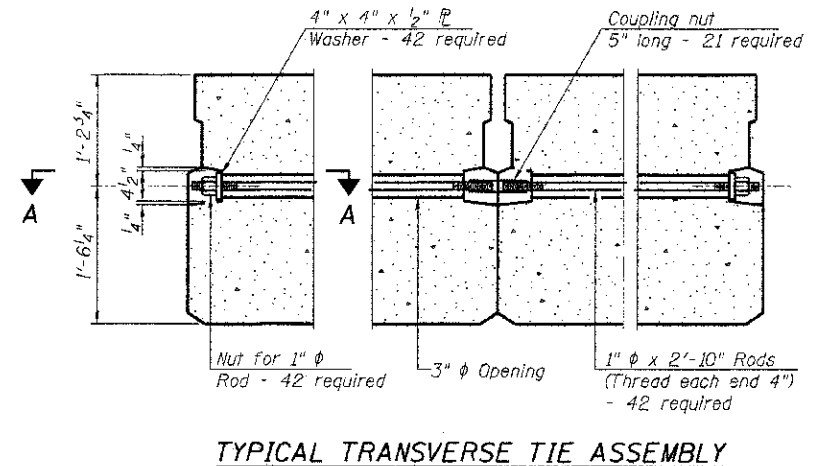
BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	74	#4	2'-7"	—
B(E)	12	#5	27'-10"	—
B ₁ (E)	12	#4	21'-1"	—
B ₂ (E)	4	#5	10'-0"	—
S(E)	109	#4	7'-5"	┌
S ₁ (E)	12	#4	6'-3"	┌
S ₂ (E)	97	#4	6'-6"	┌
U(E)	8	#6	5'-0"	┌
U ₁ (E)	6	#4	5'-0"	┌

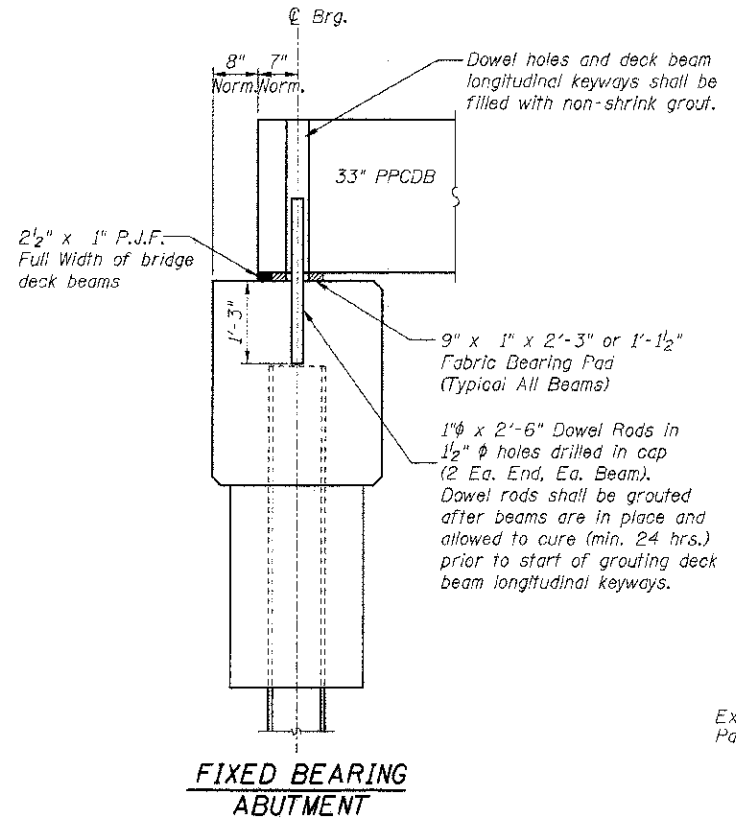
Note: See sheet 6 of 11 for additional details and Bill of Material.



Note: All bearing pads shall be 1" thick.



Note: Connect beams in pairs with the transverse tie configuration shown.



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

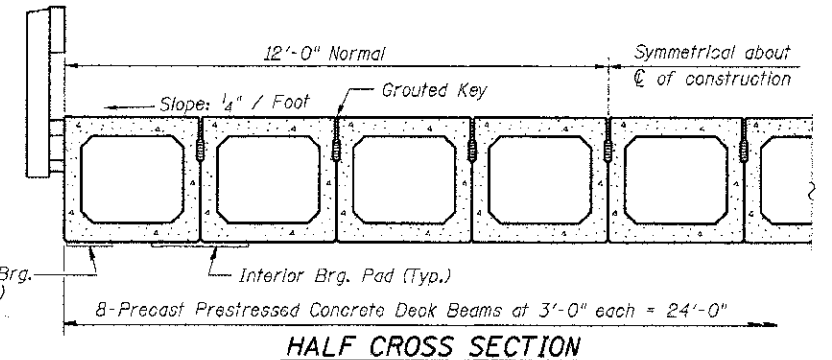
Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified). Two 1/2" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



HALF CROSS SECTION

See Sheet 7 for the details showing the spacing and mounting of posts and rails to the PPCDB.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	1888
---	---------	------

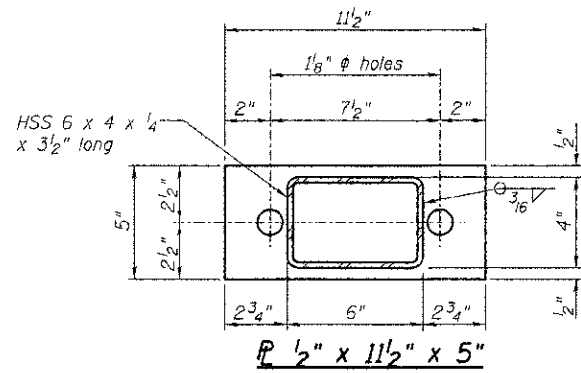
RHUTASEL and ASSOCIATES, INC.
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 ILLINOIS DESIGN FIRM LICENSE NO. 164-000287

DESIGNED - BLT	REVISED -
DRAWN - JN	REVISED -
CHECKED - WDL	REVISED -
DATE - 12/20/2012	REVISED -

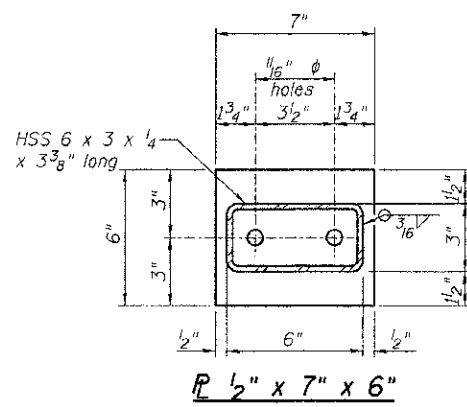
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
STRUCTURE NO. 026-3457

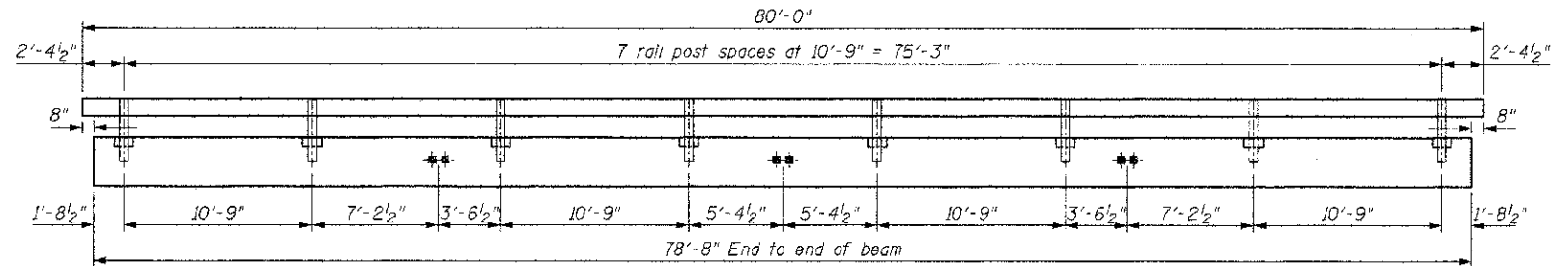
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 221	11-13133-00-BR	FAYETTE	11	6
CONTRACT NO. 95698				
RAAT JOB NO. 50912		ILLINOIS FED. AID PROJECT		



SECTION B-B

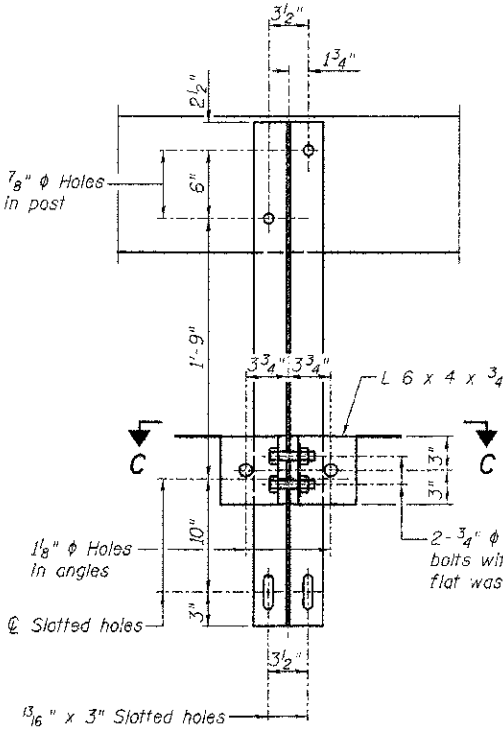


SECTION AT RAILING POST

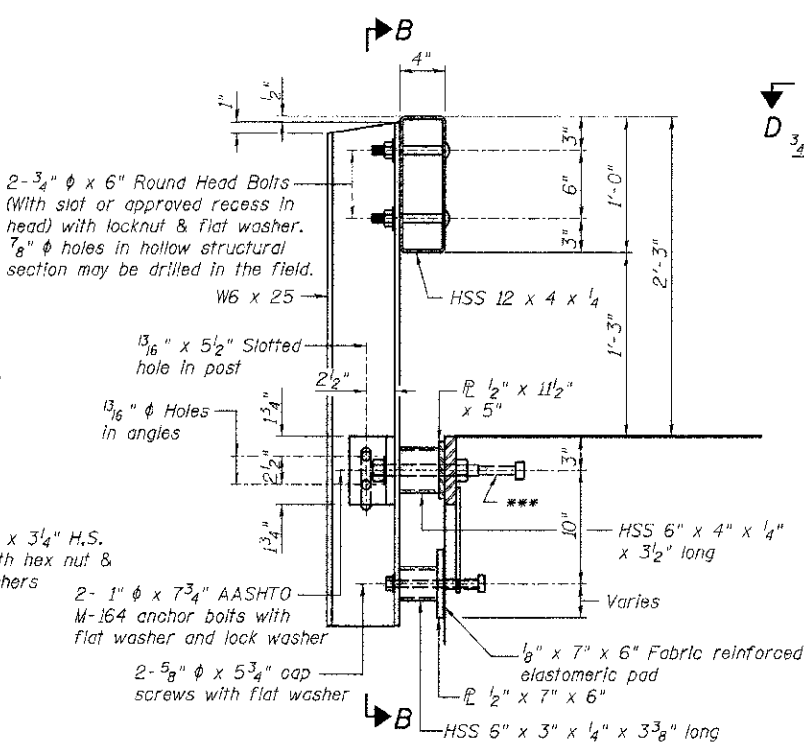


RAIL POST SPACING

Note: The cost of the Curled End Sections shall be included in the contract unit price per foot for "STEEL RAILING, TYPE S1", and no additional compensation will be allowed.

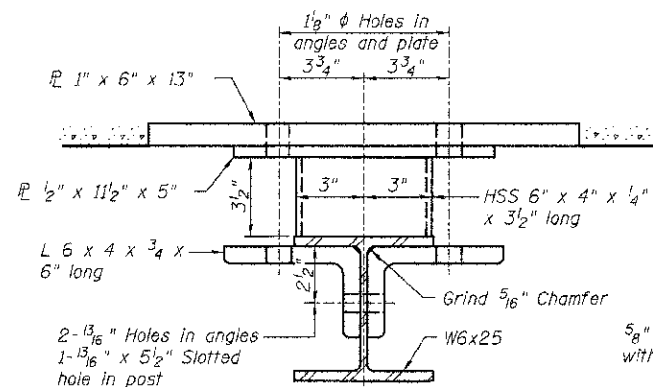


SECTION C-C

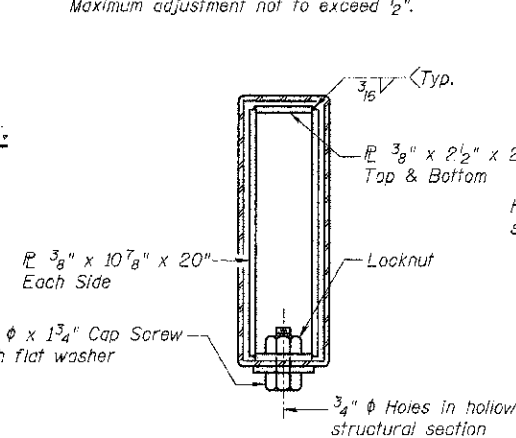


SECTION AT RAILING POST

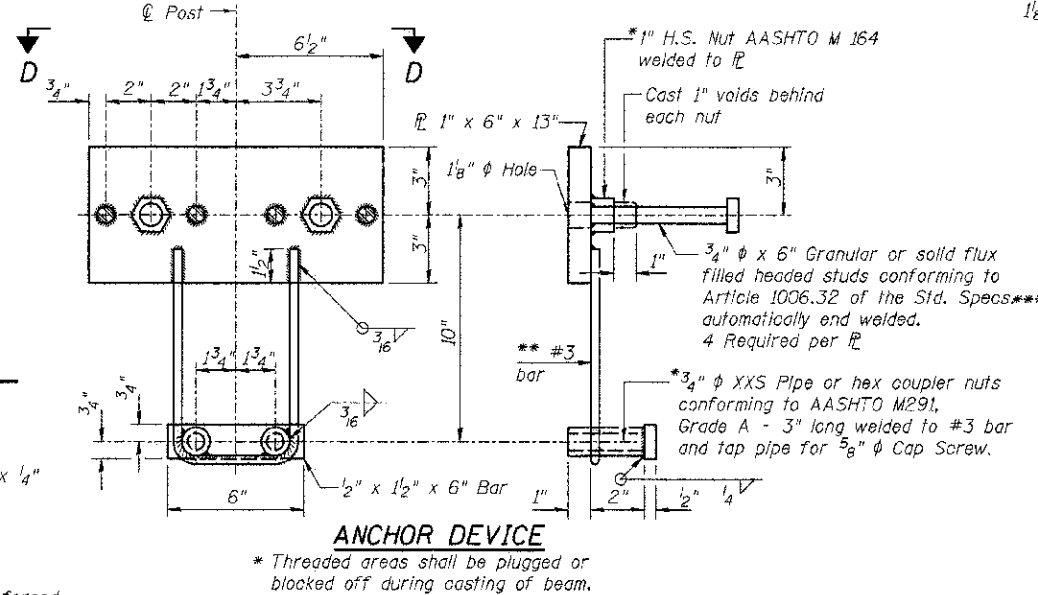
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



SECTION C-C

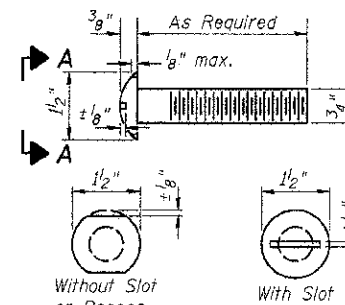


SECTIONS AT RAIL SPLICE

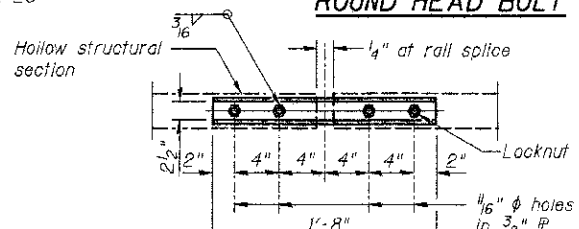


ANCHOR DEVICE

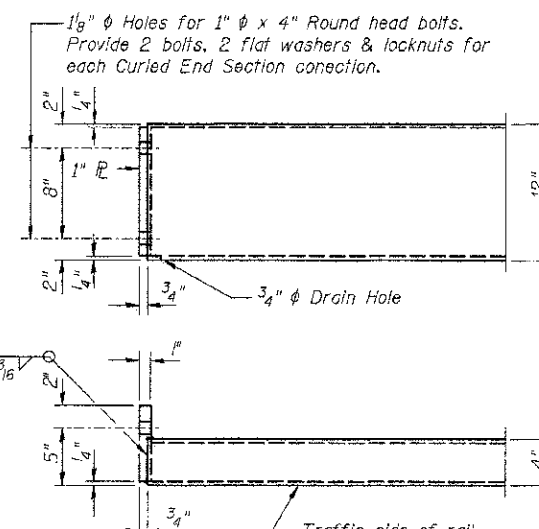
* Threaded areas shall be plugged or blocked off during casting of beam.



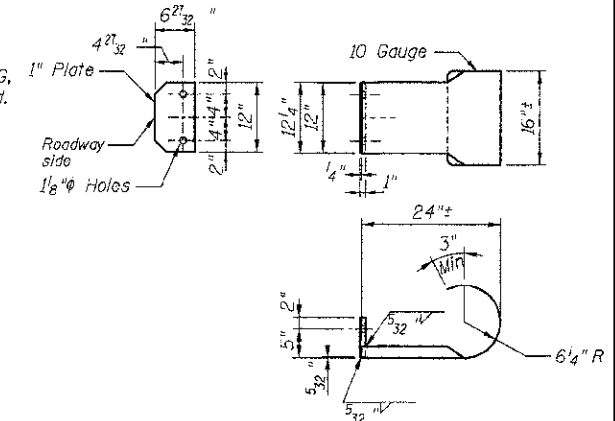
VIEW A-A ROUND HEAD BOLT



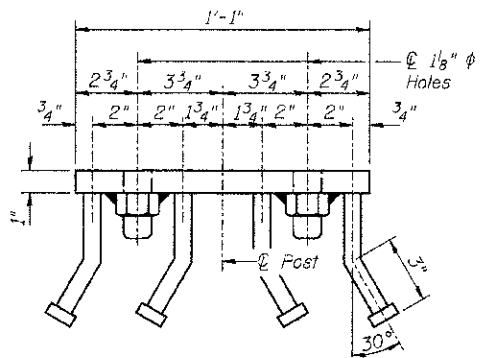
PLAN-BOTT. SPLICE R TYPICAL



END OF RAIL DETAILS



CURLLED END SECTION DETAILS



VIEW D-D

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 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 S1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	160

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 CENTRALIA, ILLINOIS
 FREEBURG, ILLINOIS
 ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

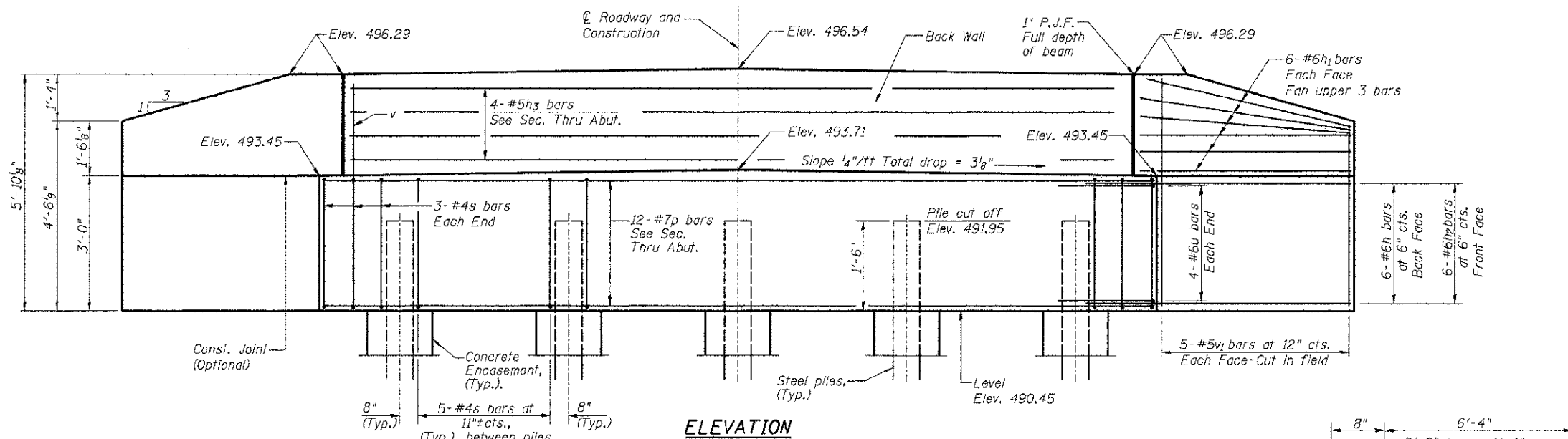
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 DRAWN - JN
 CHECKED - WDL
 DATE - 12/20/2012

REVISED -
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 REVISED -
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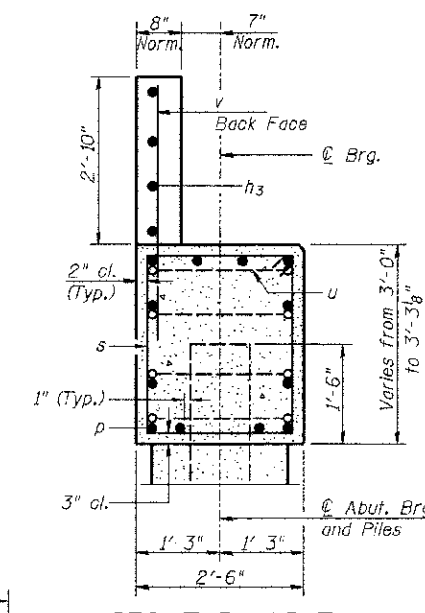
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE S1 DETAILS
STRUCTURE NO. 026-3457

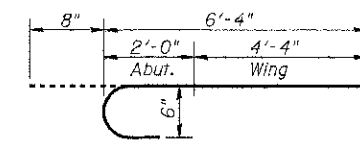
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 221	11-13133-00-BR	FAYETTE	11	7
CONTRACT NO. 95698				
RAAT JOB NO. 50912 ILLINOIS FED. AID PROJECT				



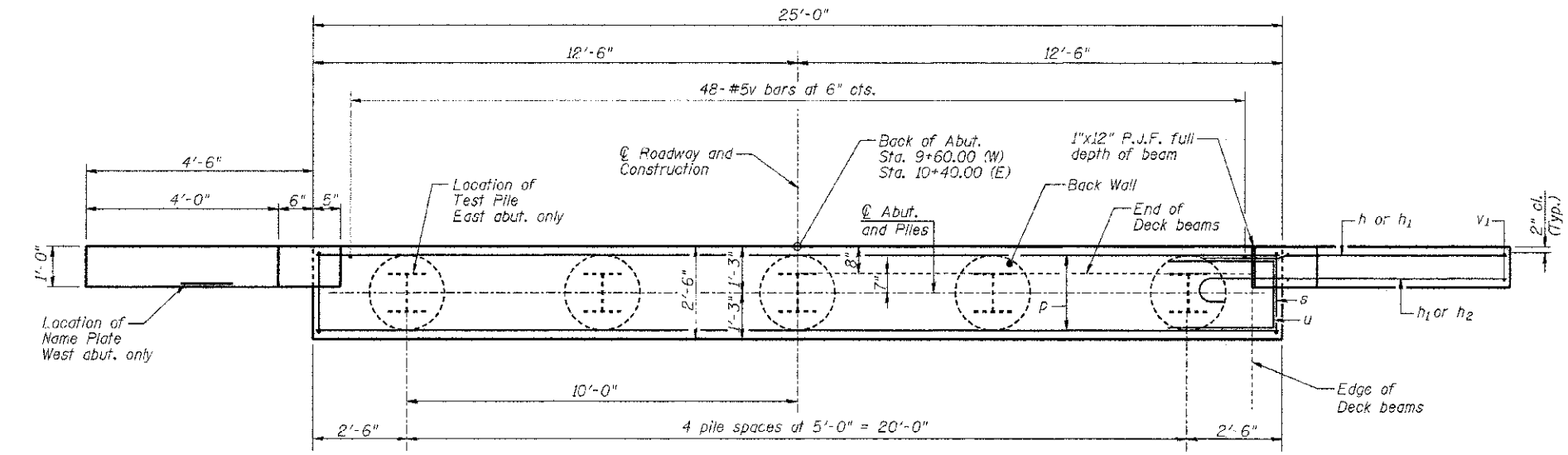
ELEVATION



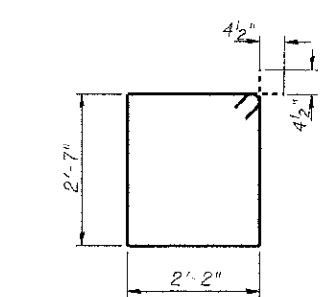
SEC. THRU ABUT.
(Normal to CL)



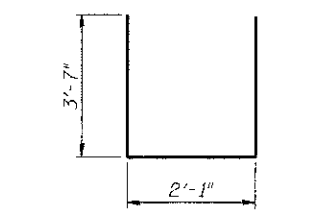
BAR h2



PLAN



BAR s



BAR u

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	12	#6	8'-0"	—
h ₁	24	#5	4'-7"	—
h ₂	12	#6	7'-0"	—
h ₃	4	#5	23'-8"	—
p	12	#7	24'-8"	—
s	26	#4	10'-3"	□
u	8	#6	9'-3"	—
v	48	#5	4'-6"	—
v ₁	20	#5	5'-6"	OUT IN FIELD
Concrete Structures		Cu. Yd.	10.8	
Concrete Encasement		Cu. Yd.	1.8	
Reinforcement Bars		Pound	1770	
Furnishing Steel		Foot	W. Abut. 260	
Piles, HP12x53		Foot	E. Abut. 228	
Driving Piles		Foot	W. Abut. 260	
		Foot	E. Abut. 228	
Test Pile, Steel HP12x53	Each	W. Abut.	0	
		E. Abut.	1	
Pile Shoes	Each	W. Abut.	5	
		E. Abut.	5	

For details of piles and Concrete Encasement, see Sheet 9 of 11.

PILE DATA WEST ABUTMENT

Type: Steel HP12x53
 Nominal Required Bearing: 277 kips
 Factored Resistance Available: 152 kips
 Estimated Length: 52'/pile
 No. Production Piles w/Pile Shoes: 5
 No. Test Piles w/Pile Shoes: 0

PILE DATA EAST ABUTMENT

Type: Steel HP12x53
 Nominal Required Bearing: 280 kips
 Factored Resistance Available: 154 kips
 Estimated Length: 57'/pile
 No. Production Piles w/Pile Shoes: 4
 No. Test Piles w/Pile Shoes: 1

GENERAL NOTES

- All exposed edges shall have standard 3/4" chamfer, unless otherwise noted.
- Reinforcement bars shall conform to ASTM A 706 (IL Modified), Grade 60.
- All clearances between rebar and form surface shall be 2", unless otherwise noted.
- Space reinforcement in cap to miss PPCDB dowel rods.
- The Steel H-piles shall be according to AASHTO M270 Grade 50.
- The Contractor shall drive one (1) Steel HP12x53 Test Pile in a production location at the East abutment as directed by the Engineer before ordering the remainder of the piles.
- The Test Pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

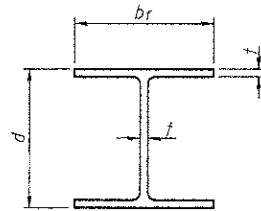
RHUTASEL and ASSOCIATES, INC.
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DESIGNED - BLT	REVISED -
DRAWN - JN	REVISED -
CHECKED - WDL	REVISED -
DATE - 12/20/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

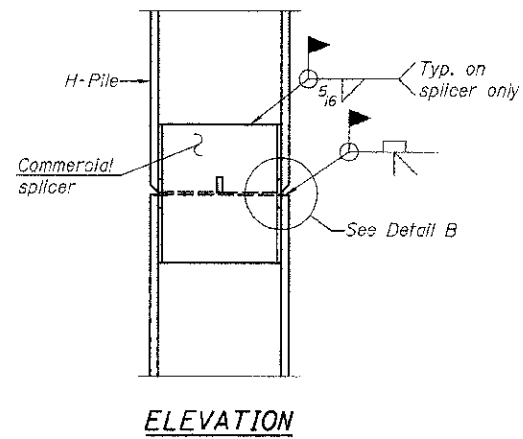
ABUTMENT DETAILS
STRUCTURE NO. 026-3457

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 221	11-13133-00-BR	FAYETTE	11	8
CONTRACT NO. 95698				
RAAI JOB NO. 50912 ILLINOIS FED. AID PROJECT				

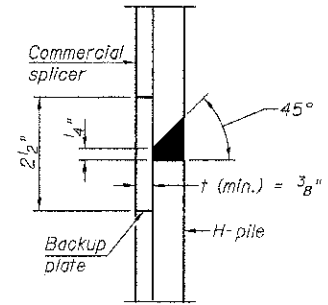


STEEL PILE TABLE

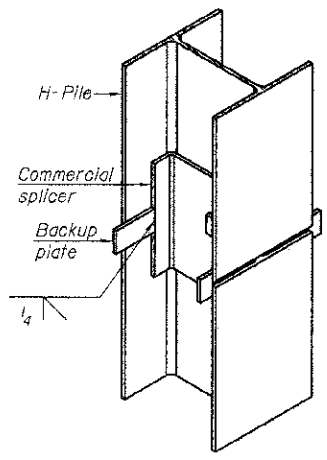
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

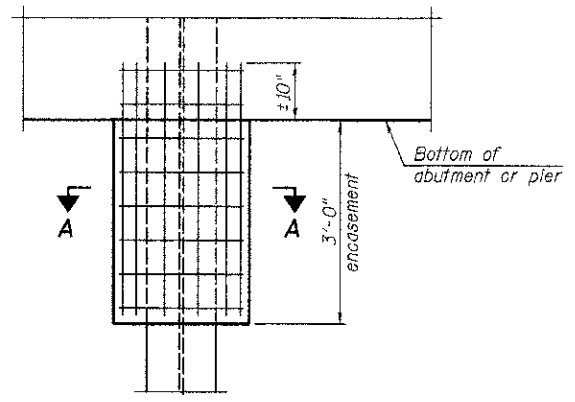


DETAIL "B"

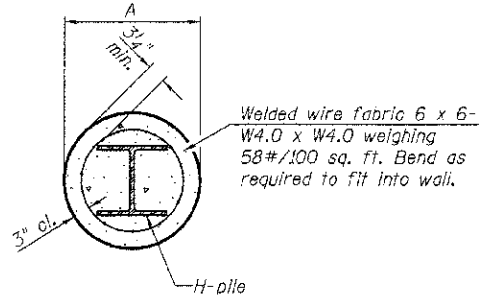


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



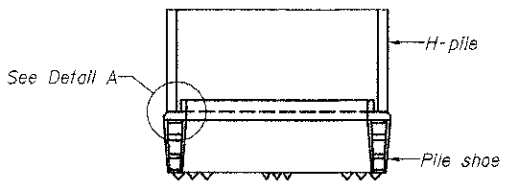
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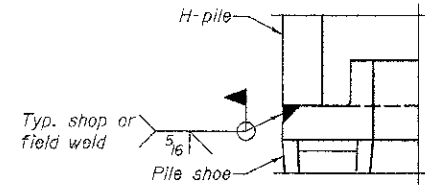
SECTION A-A

PILE ENCASEMENT

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

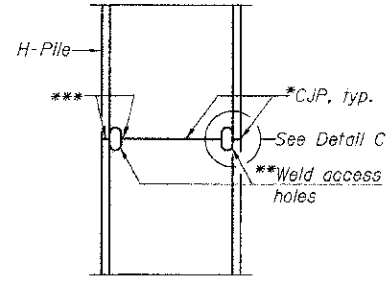


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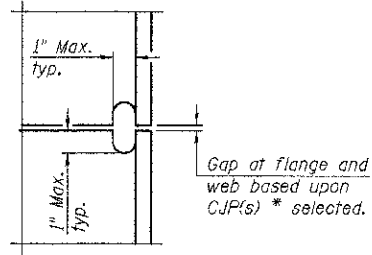


DETAIL A

H-PILE SHOE ATTACHMENT

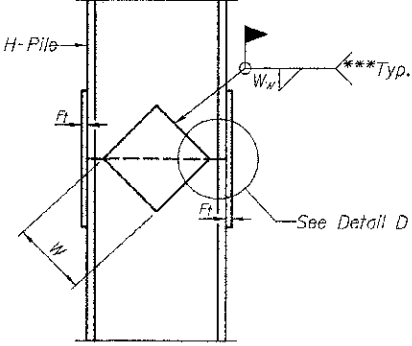


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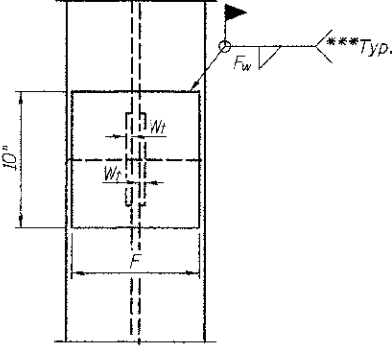


DETAIL C

COMPLETE PENETRATION WELD SPLICE

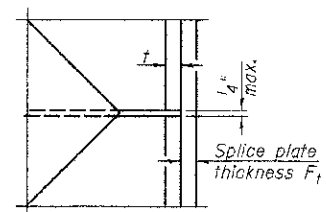


ELEVATION



END VIEW

WELDED PLATE FIELD SPLICE



DETAIL D

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

* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
 ** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
 *** Interrupt welds 1/4" from end of each pile.

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

