ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	1
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
1-800-892-0123

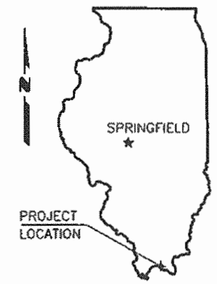
04-26-2019 LETTING ITEM 123

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM ON SYSTEM BRIDGE

FAS ROUTE 937 (PORTLAND ROAD)
SECTION 16-00096-00-BR
PROJECT NO. G3U3(016)
JOB NO. C-99-503-17
UNNAMED CREEK

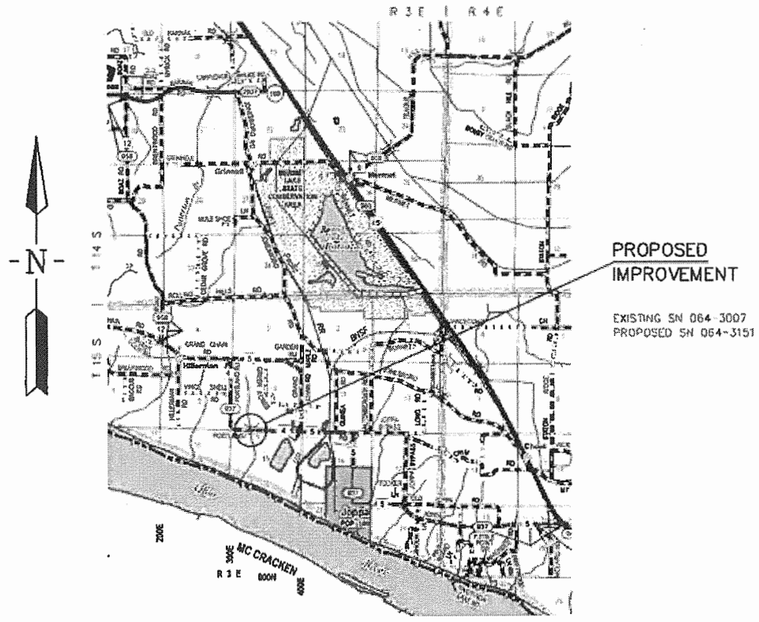
MASSAC COUNTY



SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	TOTAL
• X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2
• X6333500	TRAFFIC BARRIER TERMINAL REMOVAL	EACH	8
• 20033700	LONGITUDINAL JOINT SEALANT	FOOT	212
20200100	EARTH EXCAVATION	CU YD	39
• 20300100	CHANNEL EXCAVATION	CU YD	101
• 28100807	STONE DUMPED RIPRAP, CLASS A4	TON	227
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	246
• 40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	48
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	518
44200065	PAVEMENT PATCHING, TYPE II, 6 INCH	SQ YD	10
48101200	AGGREGATE SHOULDERS, TYPE B	TON	121
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	91
50300225	CONCRETE STRUCTURES	CU YD	27.4
50300280	CONCRETE ENCASEMENT	CU YD	2.7
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1,204
50800105	REINFORCEMENT BARS	POUND	3,122
△ 50900205	STEEL RAILING, TYPE S1	FOOT	90
51201400	FURNISHING STEEL PILES HP10X42	FOOT	696
51202305	DRIVING PILES	FOOT	696
51500100	NAME PLATES	EACH	1
• 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	20
△ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	225
△ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,340

• SEE SPECIAL PROVISIONS
△ SPECIALTY ITEMS



LOCATION MAP
SCALE: 1" = 2 MILES

NET LENGTH OF IMPROVEMENT = 450.00 FT. = 0.0852 MILES

INDEX OF SHEETS

CLASSIFICATION : MINOR COLLECTOR
ADT : 450
DESIGN SPEED : 50 MPH

ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved November 28, 2018
Joseph E. Matheson
Massac County Engineer

Passed January 30, 2019
District 9 Engineer of Local Roads and Streets

Releasing for Bid Based on Limited Review January 30, 2019
Keith Roberts
Keith Roberts, P.E.
Acting Region Five Engineer JTB

CONTRACT NO. 99607

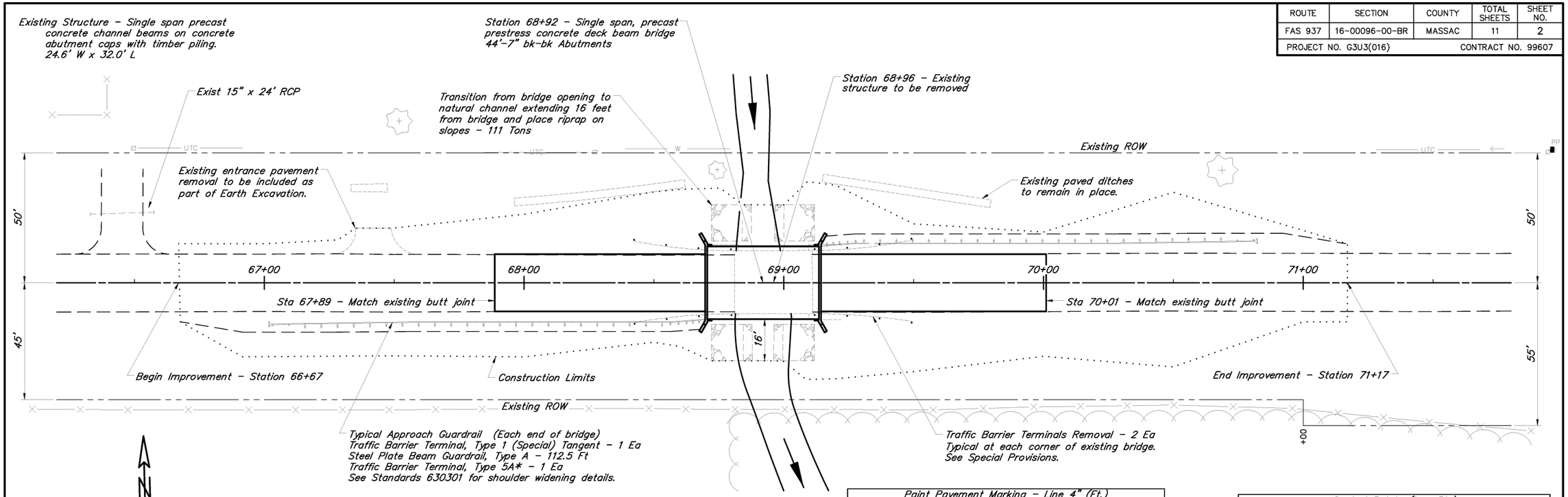
Round Table Design, Inc.
PROFESSIONAL ENGINEERING - LAND SURVEYING
1457 HIGHWAY 145 S HARRISBURG, IL (618) 253-6017

KEVIN PHILLIPS REGISTERED PROFESSIONAL ENGINEER 062-047293 MT. VERNON ILLINOIS

Kevin Phillips
PROFESSIONAL ENGINEER
#062-047293
EXPIRES NOV. 30, 2019

2170068 Cover 01/24/19 10S1 RLH

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	2
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



SCALES:
1" = 40' HOR
1" = 10' VER

* Note: All Traffic Barrier Terminal, Type 5 shall be flared 1 Ft. over length of terminal to allow Guard Rail to be placed 4 Ft from edge of pavement.

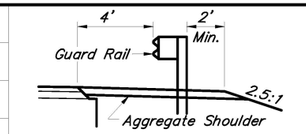
Paint Pavement Marking – Line 4" (Ft.)

Location	Centerline (Yellow Dashed)	Edge Line (White Solid)	No Passing (Yellow Solid)
Sta 66+67 to Sta 71+17	110	900	330

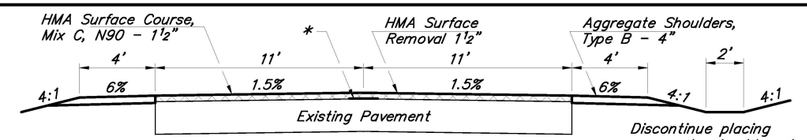
No Passing Zone – East bound lane from Sta 67+87 to Sta 71+17.
See Standard 780001 for typical pavement markings.

Control Points (Iron Pin)

No.	Location	Northing	Easting	Elevation
1	11.96' Lt Sta 64+95.91	202435.210	827326.496	344.952
2	13.86' Rt Sta 70+03.14	202396.334	827832.892	338.106
3	13.46' Lt Sta 73+33.04	202415.156	828163.385	350.758



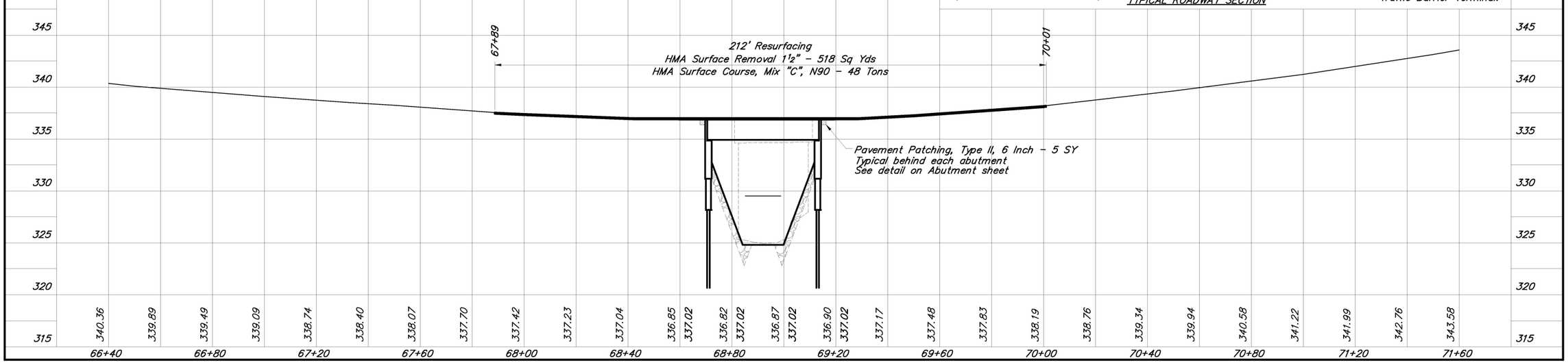
SHOULDER WIDENING FOR GUARD RAIL



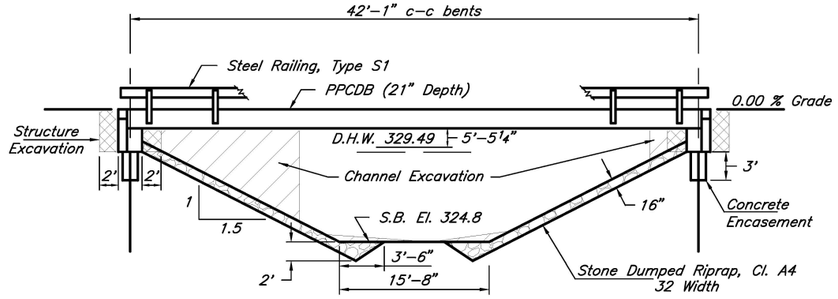
* Longitudinal Joint Sealant
(Place under surface course)

TYPICAL ROADWAY SECTION

Discontinue placing aggregate shoulder at end of widening for Traffic Barrier Terminal.

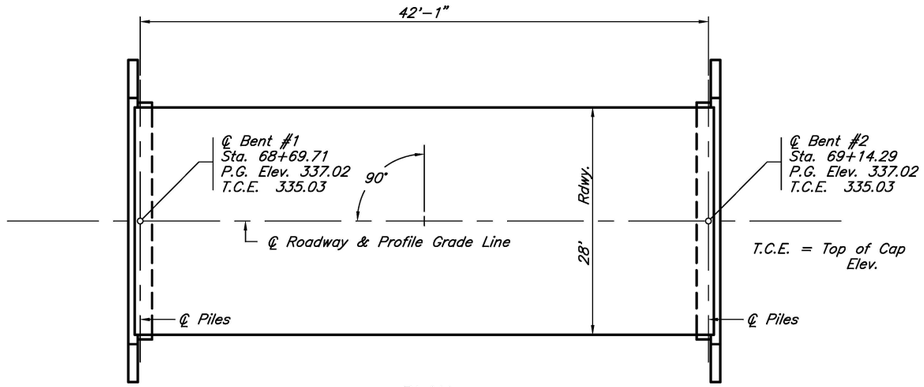


ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	3
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



ELEVATION

Existing Structure – Single span precast concrete channel beams on concrete caps with closed timber piling. 24.6' W x 32.0' L



PLAN

Boring No. 1
9' Rt. Sta. 68+28

Boring No. 2
12' Lt. Sta. 69+94

N

GENERAL NOTES

1. Steel H piles shall meet AASHTO M270 Grade 50 specifications.
4. See special provisions for boring logs.
2. A Corrosion inhibitor, as covered in the Standard Specifications, shall be used in the precast prestressed concrete deck beams.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Channel Excavation	Cu. Yds.			101	101
Stone Dumped Riprap, Cl. A4	Tons			227	227
HMA Surf. Cse., Mix "C", N90	Tons	48			48
Removal of Existing Structures	Each	1			1
Structure Excavation	Cu. Yds.			91	91
Concrete Structures	Cu. Yds.			27.4	27.4
Concrete Encasement	Cu. Yds.			2.7	2.7
P.P. Conc. Dk. Bm. 21" Dp.	Sq. Ft.	1,204			1,204
Reinforcement Bars	Pound			3,122	3,122
Steel Railing, Type S1	Foot	90			90
Furnishing Steel Piles HP10x42	Foot			696	696
Driving Piles	Foot			696	696
Name Plates	Each			1	1

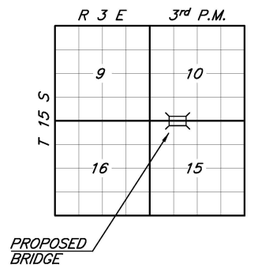
PILE DATA (2-ABUTS.)

Type & Size : HP10x42
Nominal Required Bearing : 261 kips
Factored Resistance Available : Refusal
Estimated Length : 85' Bent #1, 89' Bent #2
Number Required : 8

STATION 68+92
UNNAMED CREEK
SEC. 16-00096-00-BR BUILT 20__
COUNTY UNIT ROAD DISTRICT
MASSAC COUNTY
LOADING HL-93
STR. NO. 064-3151

LETTERING FOR NAME PLATE

Locate Name Plate at southwest Corner of Bridge (See Sheet 8)



LOCATION SKETCH

I certify that to the best of my 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 type of structure and complies with the requirements of the current AASHTO LRFD Specifications.

5/25/18

Zeyn B. Uzman
S.E. #81-4745
Expires Nov. 30, 2020

LICENSED STRUCTURAL ENGINEER
ZEYN UZMAN 4745
STATE OF ILLINOIS

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications and all applicable interims.

LOADING HL-93

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

SEISMIC DATA

Soil Site Class = E
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 1.264
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.912
Seismic Performance Zone (SPZ) = 4

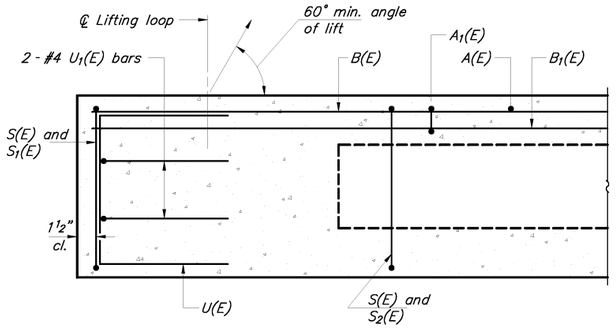
WATERWAY INFORMATION

Drainage Area = 0.91 Sq. Mi. Low Grade Elev. = 336.82 At Sta. 68+80

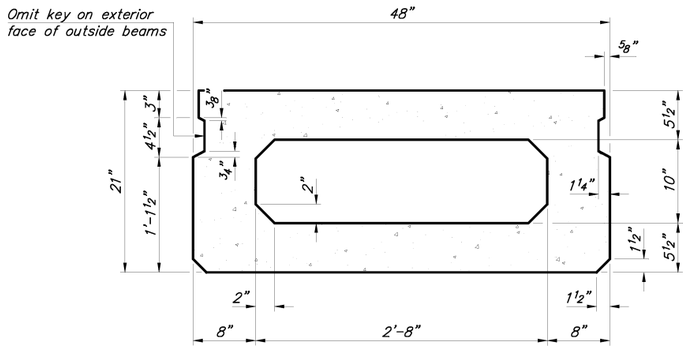
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	20	720	101.6	108.4	329.49	0.26	0.05	329.85	329.54
Base	100	1050	129.9	141.4	330.44	0.54	0.07	330.98	330.51
Overtopping	NA								
Max. Calc.	500	1410	155.2	173.9	331.33	0.81	0.05	332.14	332.38

GENERAL PLAN & ELEVATION
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

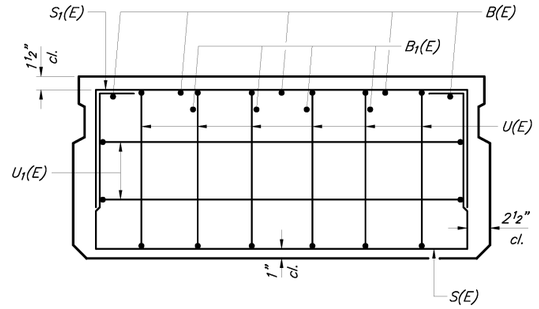
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	4
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



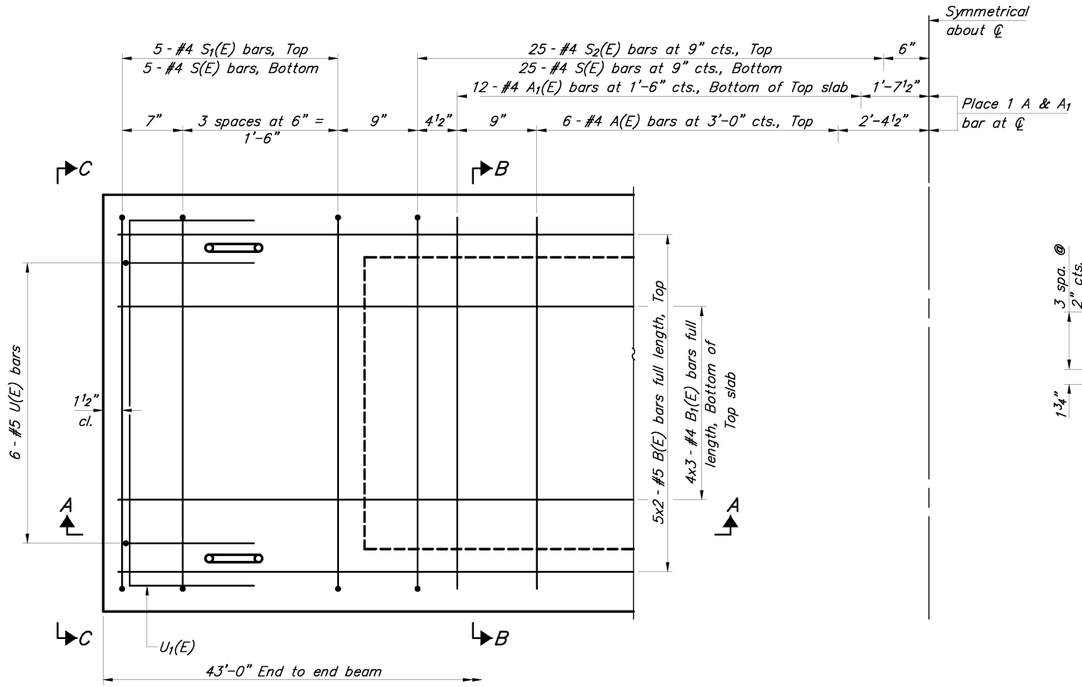
SECTION A-A



SECTION B-B
(Showing dimensions)

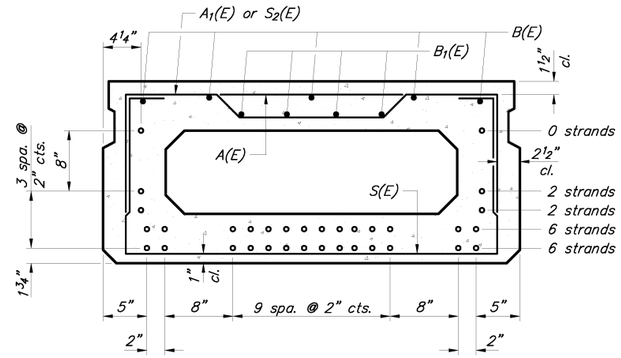


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S_2(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.



SECTION B-B
(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)

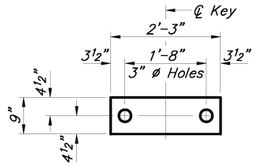
Bar	No.	Size	Length	Shape
A(E)	13	#4	3'-7"	—
A_1(E)	25	#4	3'-10"	~
B(E)	10	#5	22'-8"	—
B_1(E)	12	#4	15'-7"	—
S(E)	60	#4	7'-5"	⊔
S_1(E)	10	#4	5'-11"	⊓
S_2(E)	50	#4	6'-2"	⊓
U(E)	12	#5	4'-0"	⊏
U_1(E)	4	#4	6'-0"	⊓

Notes:
See sheet 5 of 12 for additional details and Bill of Materials.
Bars noted thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

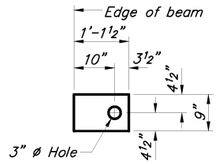
MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

21" X 48" PPC DECK BEAM
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	5
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



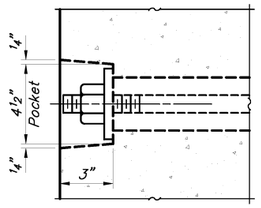
FABRIC BEARING PAD
(Interior)



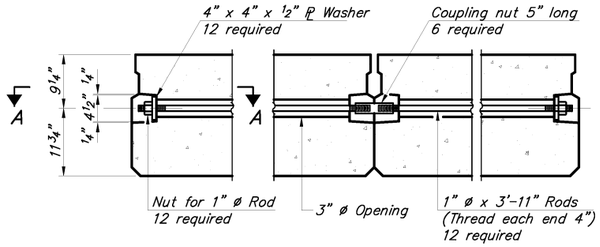
FABRIC BEARING PAD
(Exterior)

FIXED

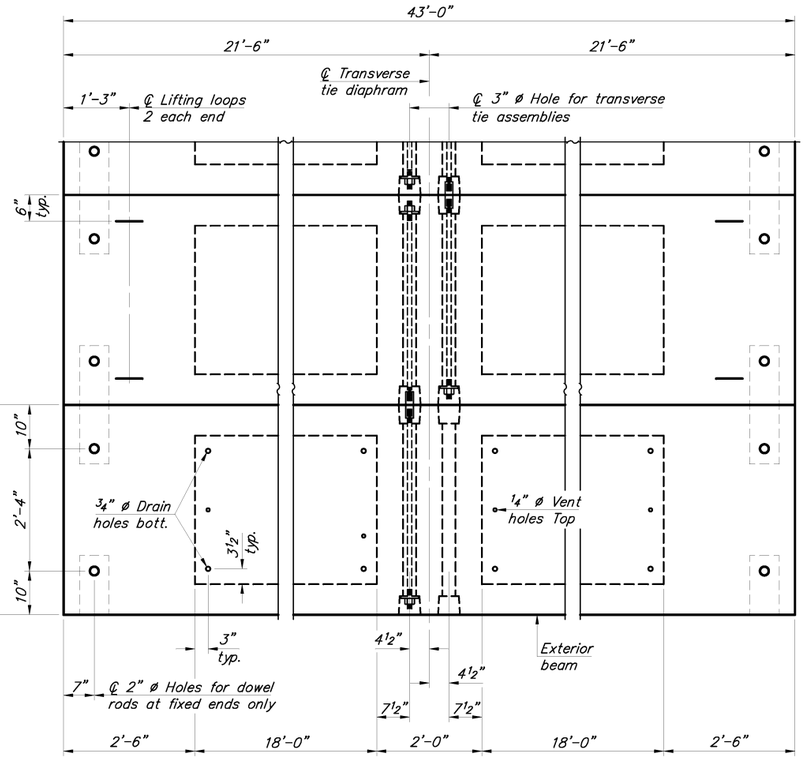
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



SECTION A-A

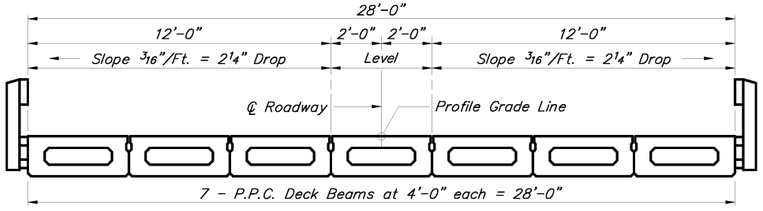


TYPICAL TRANSVERSE TIE ASSEMBLY

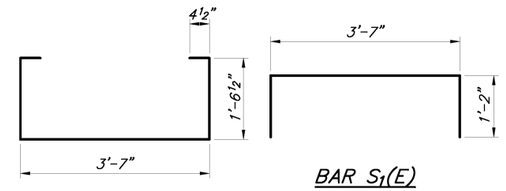


PLAN VIEW

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

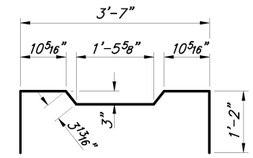


CROSS SECTION

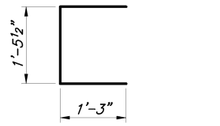


BAR S(E)

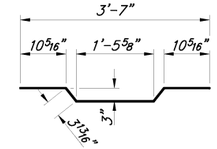
BAR S_1(E)



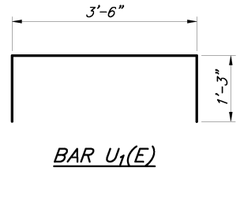
BAR S_2(E)



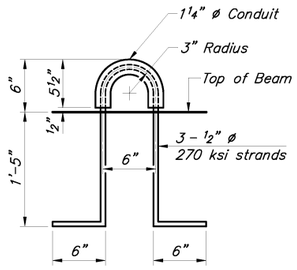
BAR U(E)



BAR A_1(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ø 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.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ø lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 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.

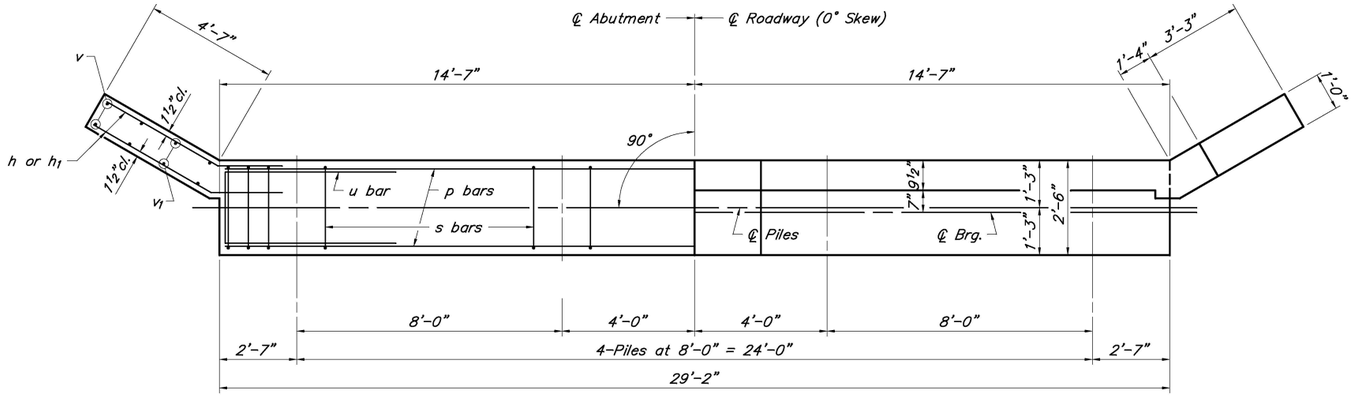
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

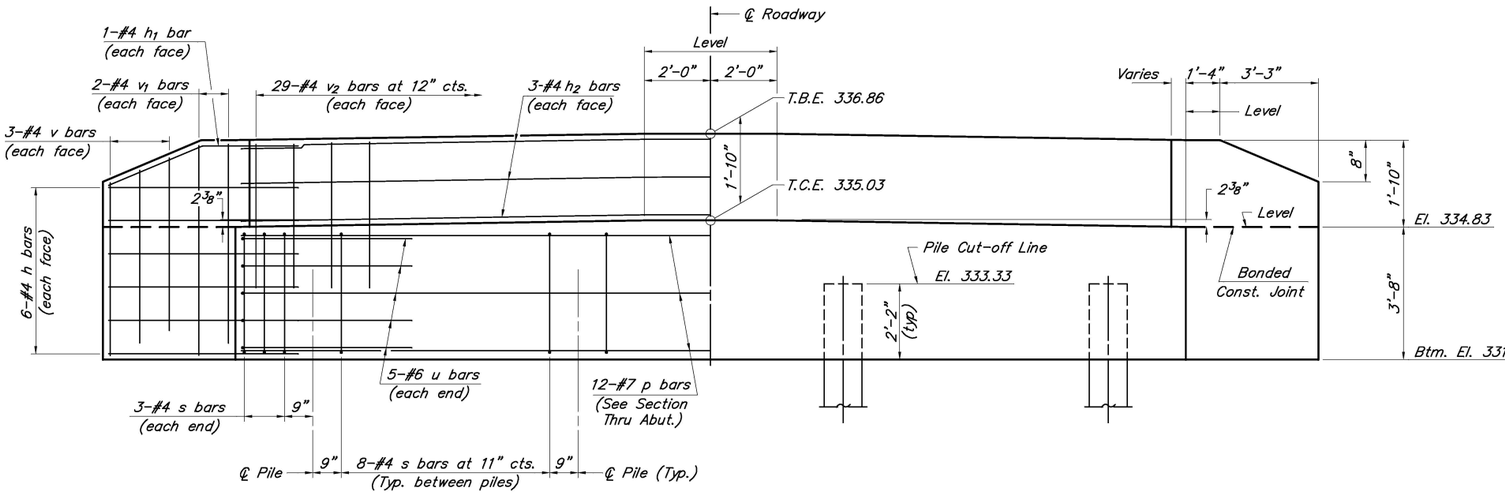
Precast Prestressed Concrete Deck Beams (21" depth)	Sq. Ft.	1,204

21" X 48" PPC DECK BEAM DETAILS
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

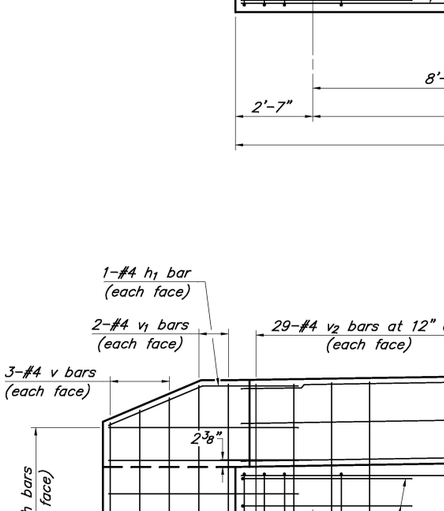
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	6
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



PLAN



ELEVATION



BACKFILL & BERM DETAIL

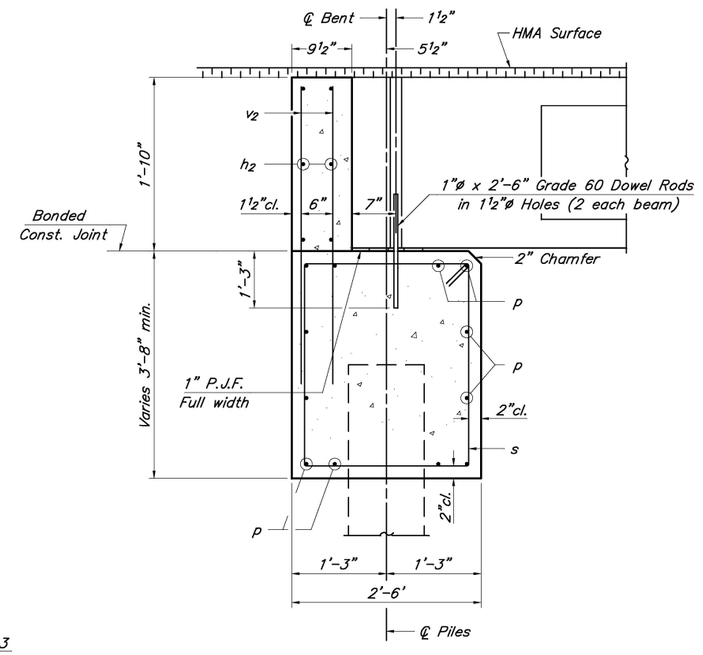
(At Right Angles to Abut.)

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 be according to ASTM A 706, Grade 60.

DESIGN STRESSES

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

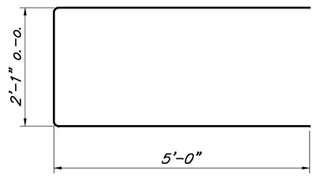


SECTION THRU ABUT.

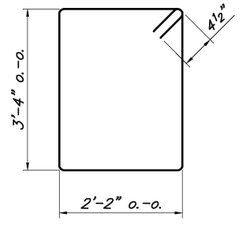
(At Right Angles)

BILL OF MATERIAL FOR ONE ABUTMENT

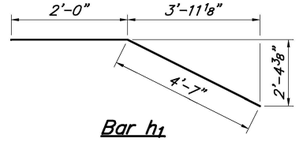
Bar	No.	Size	Length	Shape
h	24	#4	6'-7"	
h1	4	#4	6'-7"	
h2	6	#4	28'-10"	
p	12	#7	28'-10"	
s	30	#4	11'-9"	
u	10	#6	12'-1"	
v	12	#4	4'-8"	
v1	8	#4	5'-4"	
v2	58	#4	3'-5"	
Concrete Structures			13.7	Cu. Yds.
Reinforcement Bars			1561	Lbs.



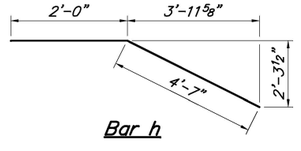
Bar u



Bar s



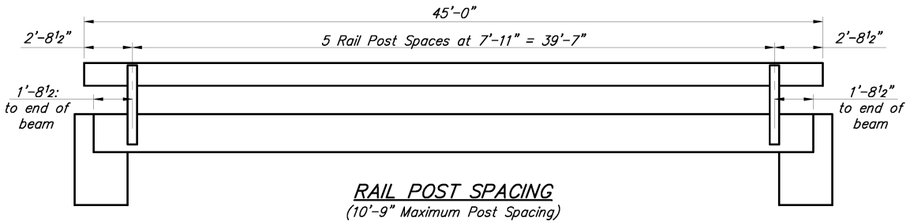
Bar h1



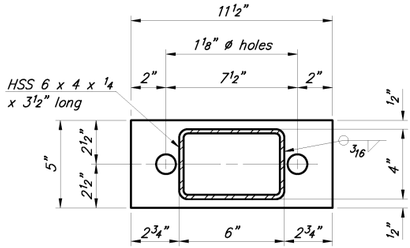
Bar h

ABUTMENT
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

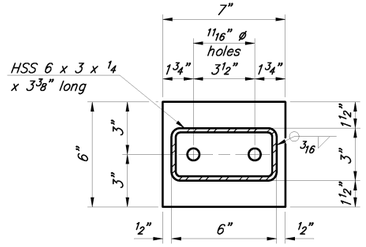
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	7
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



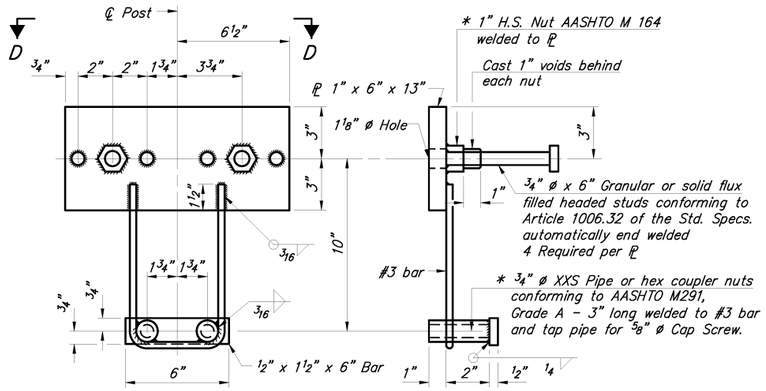
RAIL POST SPACING
(10'-9" Maximum Post Spacing)



℄ 1/2" x 11 1/2" x 5"



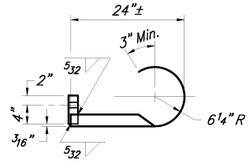
℄ 1/2" x 7" x 6"

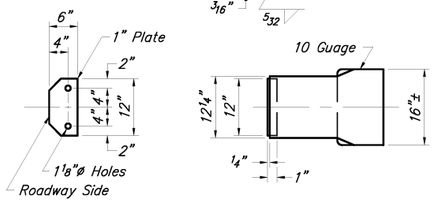


ANCHOR DEVICE

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

NOTE: Curled End Section incidental to Steel Railing. Two (2) required.



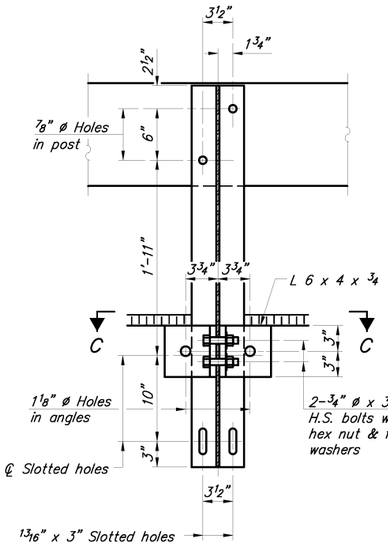


CURLED END SECTION DETAILS

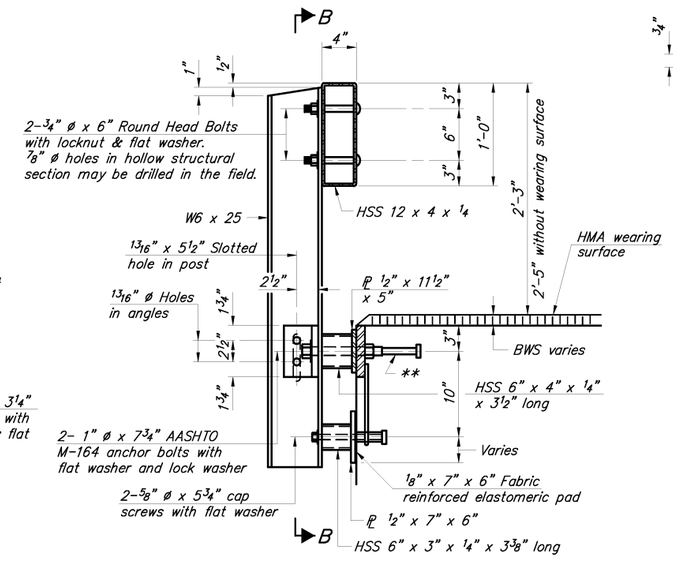
SPLICE DIMENSIONS

T	D	A	B	C	E
Up to 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" to 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" to 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" to 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	——

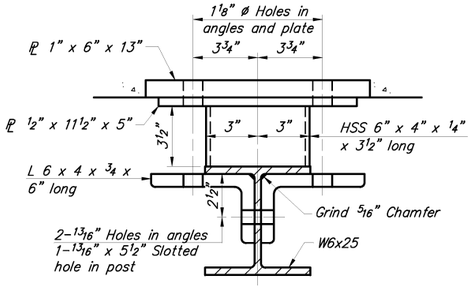
T = Total movement at expansion joint as shown on the design plans.



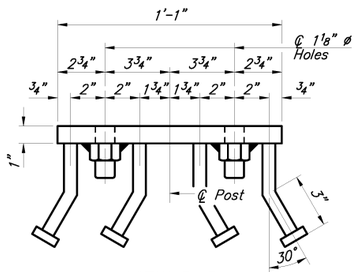
SECTION B-B



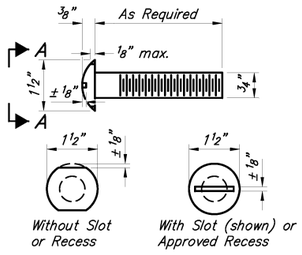
SECTION AT RAILING POST



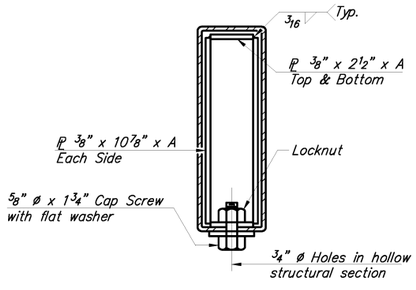
SECTION C-C



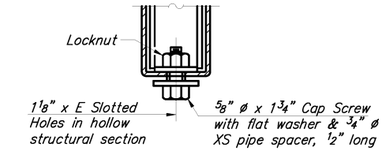
VIEW D-D



VIEW A-A
ROUND HEAD BOLT

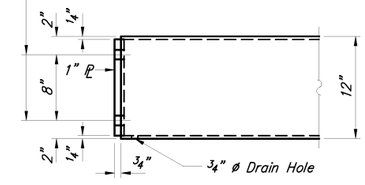


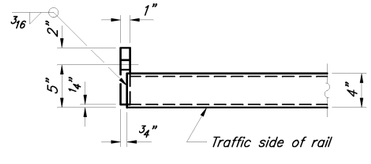
SECTIONS AT RAIL SPLICE



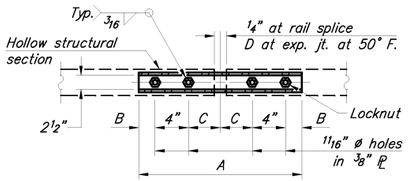
RAIL SPLICE CONNECTION AT EXPANSION JT.

1 1/8" ø Holes for 1" ø x 4" Round head bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Hwy Std. 631026 or BLR 27-1.





END OF RAIL DETAILS



PLAN-BOTT. SPLICE ℄ TYPICAL

Notes:

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

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

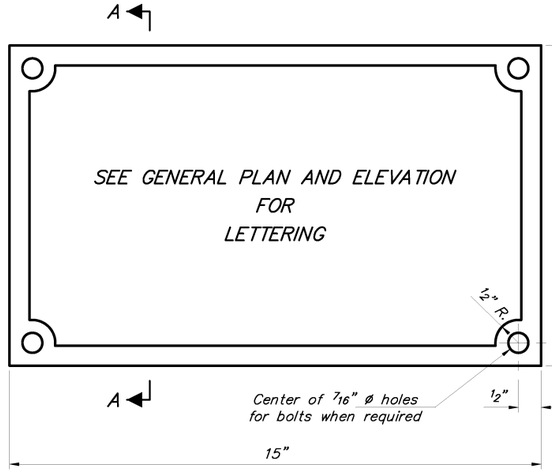
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	90

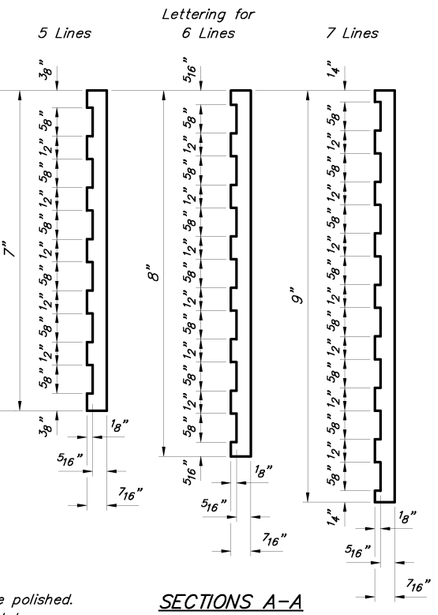
STEEL RAILING, TYPE S-1
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	8
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	

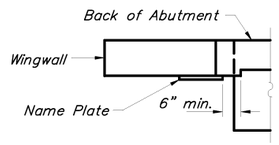


DETAIL OF NAME PLATE

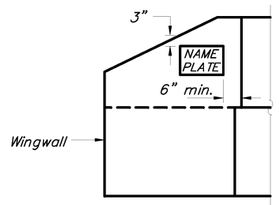
Material: Best quality brass or bronze.
Border and Lettering: Raised 1/8 inch. Square cut and not tapered. Top surface polished.
Fastenings: Four lugs at least three inches long, cast on back of plate.



SECTIONS A-A



PLAN

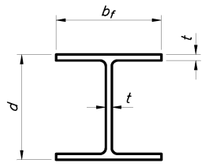


ELEVATION

LOCATION OF NAME PLATE

NAME PLATE
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

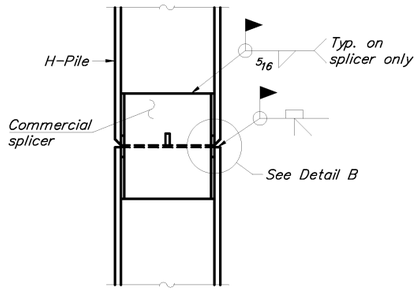
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 937	16-00096-00-BR	MASSAC	11	9
PROJECT NO. G3U3(016)			CONTRACT NO. 99607	



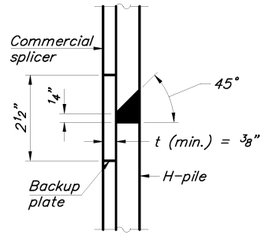
STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A	Encasement Quantity/Ft. C.Y.
HP 14x117	$14\frac{1}{4}$"	$14\frac{7}{8}$"	$\frac{13}{16}$"	30"	0.173
x102	14"	$14\frac{3}{4}$"	$\frac{11}{16}$"	30"	0.174
x89	$13\frac{7}{8}$"	$14\frac{3}{4}$"	$\frac{5}{8}$"	30"	0.175
x73	$13\frac{5}{8}$"	$14\frac{5}{8}$"	$\frac{1}{2}$"	30"	0.176
HP 12x84	$12\frac{1}{4}$"	$12\frac{1}{4}$"	$\frac{11}{16}$"	24"	0.110
x74	$12\frac{1}{8}$"	$12\frac{1}{4}$"	$\frac{5}{8}$"	24"	0.111
x63	12"	$12\frac{1}{8}$"	$\frac{1}{2}$"	24"	0.112
x53	$11\frac{3}{4}$"	12"	$\frac{7}{16}$"	24"	0.112
HP 10x57	10"	$10\frac{1}{4}$"	$\frac{9}{16}$"	24"	0.112
x42	$9\frac{3}{4}$"	$10\frac{1}{8}$"	$\frac{7}{16}$"	24"	0.113
HP 8x36	8"	$8\frac{1}{8}$"	$\frac{7}{16}$"	18"	0.063

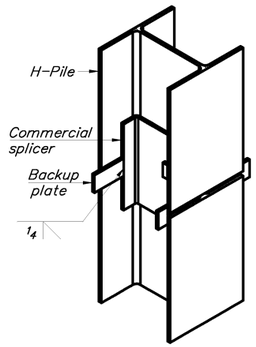
Note: The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

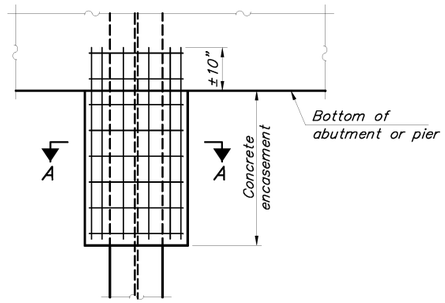


DETAIL "B"

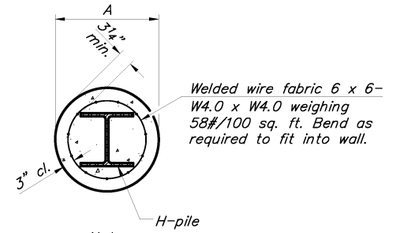


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



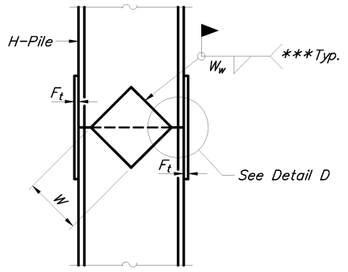
ELEVATION



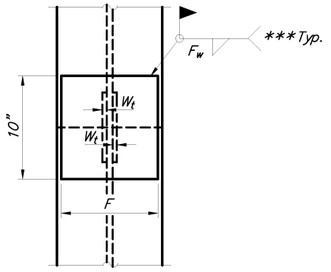
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

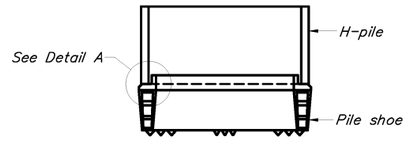
PILE ENCASEMENT



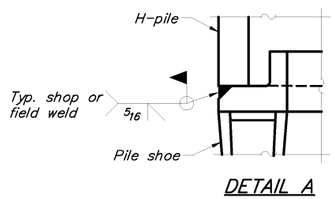
ELEVATION



END VIEW

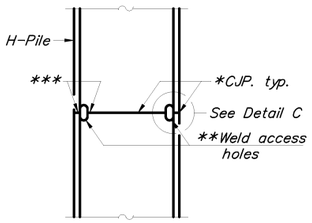


ELEVATION

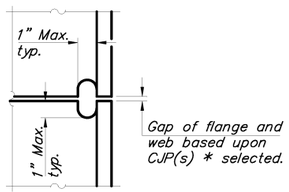


DETAIL A

H-PILE SHOE ATTACHMENT

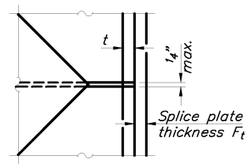


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	$12\frac{1}{2}$"	1"	$\frac{7}{8}$"	$7\frac{3}{4}$"	$\frac{5}{8}$"	$\frac{1}{2}$"
x102	$12\frac{1}{2}$"	$\frac{7}{8}$"	$\frac{3}{4}$"	$7\frac{3}{4}$"	$\frac{5}{8}$"	$\frac{1}{2}$"
x89	$12\frac{1}{2}$"	$\frac{3}{4}$"	$\frac{11}{16}$"	$7\frac{3}{4}$"	$\frac{5}{8}$"	$\frac{1}{2}$"
x73	$12\frac{1}{2}$"	$\frac{5}{8}$"	$\frac{9}{16}$"	$7\frac{3}{4}$"	$\frac{5}{8}$"	$\frac{1}{2}$"
HP 12x84	10"	$\frac{7}{8}$"	$\frac{11}{16}$"	$6\frac{1}{2}$"	$\frac{5}{8}$"	$\frac{1}{2}$"
x74	10"	$\frac{7}{8}$"	$\frac{11}{16}$"	$6\frac{1}{2}$"	$\frac{5}{8}$"	$\frac{1}{2}$"
x63	10"	$\frac{5}{8}$"	$\frac{1}{2}$"	$6\frac{1}{2}$"	$\frac{1}{2}$"	$\frac{3}{8}$"
x53	10"	$\frac{5}{8}$"	$\frac{1}{2}$"	$6\frac{1}{2}$"	$\frac{1}{2}$"	$\frac{3}{8}$"
HP 10x57	8"	$\frac{3}{4}$"	$\frac{9}{16}$"	$5\frac{1}{4}$"	$\frac{1}{2}$"	$\frac{3}{8}$"
x42	8"	$\frac{5}{8}$"	$\frac{9}{16}$"	$5\frac{1}{4}$"	$\frac{1}{2}$"	$\frac{3}{8}$"
HP 8x36	7"	$\frac{5}{8}$"	$\frac{7}{16}$"	$4\frac{1}{4}$"	$\frac{1}{2}$"	$\frac{3}{8}$"

WELDED PLATE FIELD SPLICE

* Use joint conforming to Fig. 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 ¼" from end of each pile.

PILING DETAILS
FAS ROUTE 937 (PORTLAND ROAD)
UNNAMED CREEK
SECTION 16-00096-00-BR
MASSAC COUNTY
STRUCTURE NO. 064-3151

45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45

335
330
325
68 + 60
2:1
4:1
2½:1
C - 0 F - 29
21'
Typical on side without guardrail

335
330
325
68 + 50
2¼:1
4:1
2½:1
C - 1 F - 15

Mill for 1½" butt joint

335
330
68 + 00
2½:1
4:1
2½:1
C - 4 F - 5
Begin Paving Sta 67+89

340
335
330
67 + 50
2½:1
C - 3 F - 5

340
335
330
67 + 00
2½:1
C - 2 F - 9
BEGIN IMPROVEMENT - STATION 66+67

340
335
330
66 + 50

45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAS 937	16-00096-00-BR	MASSAC	11	10

PROJECT NO. G3U3(016)
CONTRACT NO. 99607

45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45

END IMPROVEMENT - STATION 71+17

71 + 50 — 350 / 345 / 340

C - 1 | F - 0

71 + 00 — 345 / 340 / 335

C - 5 | F - 13

70 + 50 — 340 / 335 / 330

2½:1 2½:1 4:1 2½:1 4:1

335.54 335.32

End Paving Sta 70+01

C - 4 | F - 7

70 + 00 — 340 / 335 / 330

Mill for 1½" butt joint

4:1 2½:1

21'
Typical on side without guardrail

C - 2 | F - 13

69 + 50 — 335 / 330

2½:1 4:1 2½:1

C - 1 | F - 87

69 + 20 — 335 / 330 / 325

2½:1 4:1 2½:1

45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAS 937	16-00096-00-BR	MASSAC	11	11

PROJECT NO. G3U3(016)

CONTRACT NO. 99607