



SUMMARY OF QUANTITIES					
CONSTRUCTION TYPE CODE: 0014					
S.P.	ITEM NO.	CODE NUMBER	ITEM	UNIT	TOTAL
	1	20700110	POROUS GRANULAR EMBANKMENT	TON	20
	2	25000210	SEEDING, CLASS 2A	ACRE	0.10
	3	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9.0
	4	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9.0
	5	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9.0
	6	25100630	EROSION CONTROL BLANKET	SQ YD	380.0
	7	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10.0
	8	28000400	PERIMETER EROSION BARRIER	FOOT	295
	9	28000500	INLET AND PIPE PROTECTION	EACH	1.0
	10	28100107	STONE RIPRAP, CLASS A4	SQ YD	557
	11	28200200	FILTER FABRIC	SQ YD	557
	12	35800100	PREPARATION OF BASE	SQ YD	141
	13	35800200	AGGREGATE BASE REPAIR	TON	16
	14	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	26
	15	40603000	HOT-MIX ASPHALT BINDER COURSE, IL-12.5, N50	TON	7
	16	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	42
	17	42000100	PORTLAND CEMENT CONCRETE PAVEMENT 6"	SQ YD	51
	18	44000100	PAVEMENT REMOVAL	SQ YD	130
	19	48203009	HOT-MIX ASPHALT SHOULDERS, 3"	SQ YD	11
	20	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
	21	50200100	STRUCTURE EXCAVATION	CU YD	10
	22	50300225	CONCRETE STRUCTURES	CU YD	5.4
	23	50300254	RUBBED FINISH	SQ FT	1,008
	24	50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	2,503
	25	50800105	REINFORCEMENT BARS	POUND	320
	26	50901050	STEEL RAILING, TYPE SM	FOOT	167.00
	27	51500100	NAME PLATES	EACH	1
	28	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	279.0
	29	58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	751.0
	30	58700300	CONCRETE SEALER	SQ FT	856
	31	59000200	EPOXY CRACK INJECTION	FOOT	45.0
	32	60608582	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	28.0
	33	63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	45.0
	34	67100100	MOBILIZATION	L SUM	1
	35	78200410	GUARDRAIL MARKERS, TYPE A	EACH	1
	36	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1
	37	LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1
	38	X2030300	CHANNEL EXCAVATION (SPECIAL)	CU YD	325
	39	X6311205	TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)	EACH	1
	40	X6333500	TRAFFIC BARRIER TERMINAL REMOVAL	EACH	1
	41	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0
	42	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	139

\* SEE SPECIAL PROVISIONS

**Δ SPECIALTY ITEMS**

**GENERAL NOTES:**

- THE EXISTING ROAD SHALL REMAIN CLOSED TO TRAFFIC DURING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS AND/OR DISPOSAL SITE(S) OUTSIDE THE RIGHT-OF-WAY AND EASEMENTS, FOR EXCESS OR UNSUITABLE MATERIAL, WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT.
- EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLES 501.02 AND 501.03 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS, SPECIAL PROVISIONS, OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ITEMS NOT SPECIFIED FOR REMOVAL, RECONSTRUCTION, OR DEMOLITION. AREAS OUTSIDE THE PROJECT SCOPE OR CONSTRUCTION LIMITS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR, PER THE APPROVAL OF THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- THE FINAL TOP SIX INCHES OF SOIL IN ANY RIGHT-OF-WAY OR EASEMENT AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
- NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.
- SEE THE SPECIAL PROVISIONS REGARDING THE NATIONWIDE 404 PERMIT REQUIREMENTS FOR IN-STREAM ACCESS FILL, COFFERDAMS, CAUSEWAYS, OR CROSSINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PROPER PERMITS FOR THESE ACTIVITIES.
- PLACE RIPRAP IN A TIMELY MANNER TO PREVENT EROSION, ETC.
- EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.

X2030300		CHANNEL EXCAVATION				SPECIAL	
(SEE CHANNEL CROSS SECTIONS)							
STATION	AREAS (SQ FT)		VOLUME (CU YD)		CUMULATIVE VOLUME (CU YD)		
	CUT	FILL	CUT	FILL	CUT	FILL	
	00+19.00	0.0	0.0	---	---	---	---
00+20.00	158.6	0.0	2.9	0.0	2.9	0.0	
00+35.00	170.2	0.0	91.3	0.0	94.3	0.0	
00+50.00	138.9	0.0	85.9	0.0	180.1	0.0	
00+65.00	143.5	0.0	78.4	0.0	258.6	0.0	
00+80.00	88.5	0.0	64.4	0.0	323.0	0.0	
00+81.00	0.0	0.0	1.6	0.0	324.7	0.0	
<b>TOTALS</b>					<b>325.0</b>	<b>0.0</b>	

STRUCTURAL CONCRETE REPAIRS					
LOCATION	50300254	58700300	58000200	20012754	
	RUBBED FINISH (NOTE 1)	CONCRETE SEALER (NOTE 2)	EPOXY CRACK INJECTION	STR REP CON DP < 5	
	SQ FT	SQ FT	FOOT	SQ FT	
ABUTMENT NO. 1 [SOUTH]		116			
PIER NO. 1	563	312	20.0	50.0	
PIER NO. 2	445	312	25.0	88.8	
ABUTMENT NO. 2 [NORTH]		116			
<b>TOTALS</b>		<b>1,008</b>	<b>856</b>	<b>45.0</b>	<b>139.0</b>

- NOTES:
- INCLUDES EXPOSED PIER CAP FACES AND ENCASEMENTS.
  - INCLUDES ABUTMENT AND PIER VERTICAL FACES AND TOP (SEAT) FACES

TEMPORARY EROSION CONTROL SYSTEMS				
LOCATION		28000400	28000500	
		PERIMETER	INLET AND	
STA	SIDE	EROS BARRIER	PIPE PROTECT	
		FOOT	EACH	
Northwest Quadrant	LT	40		
Northeast Quadrant	RT	85		
Southwest Quadrant	LT	85	1	
Southeast Quadrant	RT	85		
<b>TOTALS</b>		<b>295</b>	<b>1</b>	

SCHEDULE OF QUANTITIES	
<b>POROUS GRANULAR EMBANKMENT</b>	
NORTH ABUTMENT	5.4
SOUTH ABUTMENT	4.2
	(CU. YD.) 9.6
	@ 2.05 TON/CY (TON) 20.0
<b>CONCRETE STRUCTURES</b>	
NORTH ABUTMENT BACKWALL	2.5
SOUTH ABUTMENT BACKWALL	2.9
	(CU. YD.) 5.4

SCHEDULE OF QUANTITIES	
<b>STONE RIPRAP, CLASS A4 [ &amp; FILTER FABRIC ]</b>	
NORTH ABUTMENT	238.5
SOUTH ABUTMENT	238.5
STREAMBED	80.0
	(SQ. YD.) 557.0
<b>REMOVE AND REERECT EXIST. GUARDRAIL</b>	
NORTHEAST SECTION	15.0
SOUTHWEST SECTION	15.0
SOUTHEAST SECTION	15.0
	(LF) 45.0

PAVEMENT / SURFACING SCHEDULE										
LOCATION		REMOVAL	BASE			BITUMINOUS				P.C.C.
		44000100	35800100	35800200	40600100	40603000	40603310	48203009	60608582	42000100
STA	L (ft)	PAVEMENT REMOVAL	PREP. OF BASE	AGG. BASE REPAIR	BITUMINOUS MATERIALS (PRIME COAT)	HMA BINDER COURSE, IL-12.5, N50	HMA SURFACE COURSE, MIX "C", N50	HMA SHLDS	COMB. CURB & GUTTER	P.C.C. PAVEMENT
		NOTE 1	NOTE 2	NOTE 2	(2")	(2")	(3")	TYPE M-4.24	(6")	(6")
		SQ YD	SQ YD	TON	GALLON	TON	TON	SQ YD	FOOT	SQ YD
96+92.85 TO 97+11.73	18.88	68.5	72.4	8.0	26	7.1	7.1		28.0	
97+11.73 TO 97+97.10	85.37						35.0			
(BRIDGE DECK)										
97+97.10 TO 98+13.26	16.16	61.9	68.2	7.5				11.4		50.9
Bridge Deck										
<b>TOTALS</b>		<b>130.4</b>	<b>140.6</b>	<b>15.5</b>	<b>26.0</b>	<b>7.1</b>	<b>42.1</b>	<b>11.4</b>	<b>28.0</b>	<b>50.9</b>

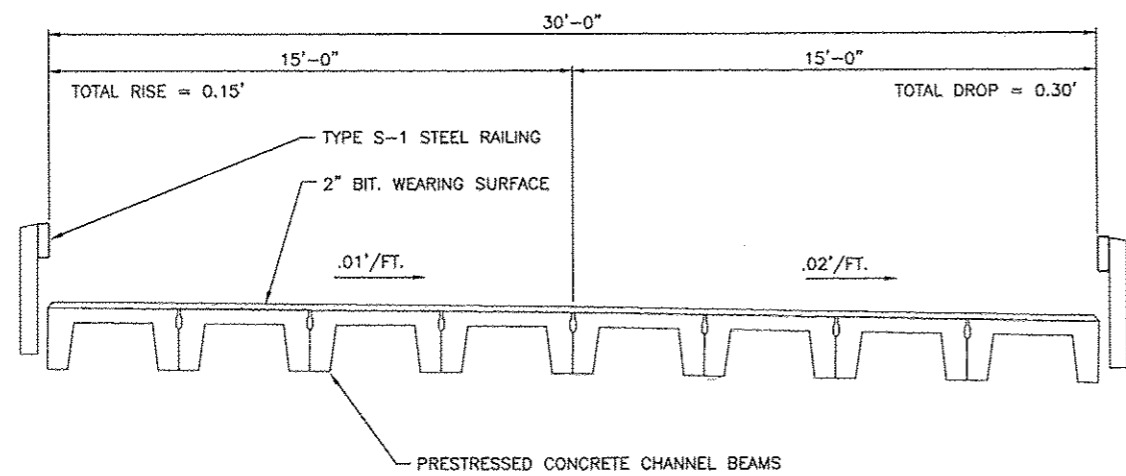
- NOTES:
- EXTENDS 1'-0" OUTSIDE OF SHOULDER PAVEMENT LIMITS
  - ASSUMED A 2" THICKNESS OF GRANULAR MATERIAL ON ENTIRE "PREPARATION OF BASE" AREA. FINAL QUANTITY AS REQUIRED IN THE FIELD.

SEEDING / TEMPORARY EROSION CONTROL SEEDING							
LOCATION		PERMANENT SEEDING	FERTILIZER NUTRIENTS			COVER	
		25000210	25000400	25000500	25000600	28000250	
STA	SIDE	CLASS 2A	NITROGEN	PHOSPHORUS	POTASSIUM	TEMP EROS	
		ACRE	POUND	POUND	POUND	EROS CTRL	
						BLANKET	
						SQ. YD.	
Northwest Quadrant	LT	0.02	1.8	1.8	1.8	2.0	73.0
Northeast Quadrant	RT	0.03	2.7	2.7	2.7	3.0	111.0
Southwest Quadrant	LT	0.03	2.7	2.7	2.7	3.0	110.0
Southeast Quadrant	RT	0.02	1.8	1.8	1.8	2.0	86.0
<b>TOTALS</b>		<b>0.10</b>	<b>9.0</b>	<b>9.0</b>	<b>9.0</b>	<b>10.0</b>	<b>380.0</b>

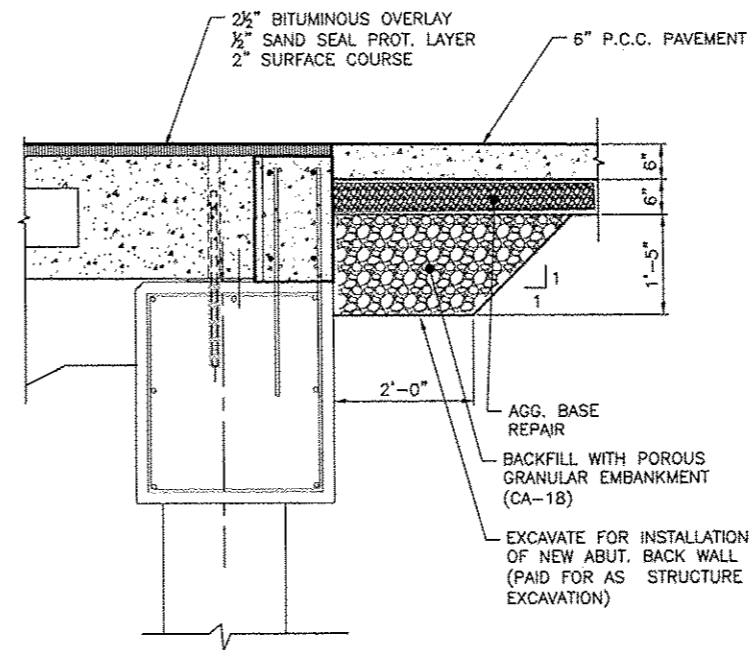
- NOTES:
- TEMPORARY SEEDING QUANTITY IS (1) APPLICATION TIMES THE PERMANENT SEEDING ACREAGES. [100 LB/ACRE]
  - ESTIMATED AREA: [NW] 405.0 (SY); [NE] 992.0 (SY); [SW] 965.0 (SY); [SE] 755.0 (SY)

GENERAL NOTES AND QUANTITIES

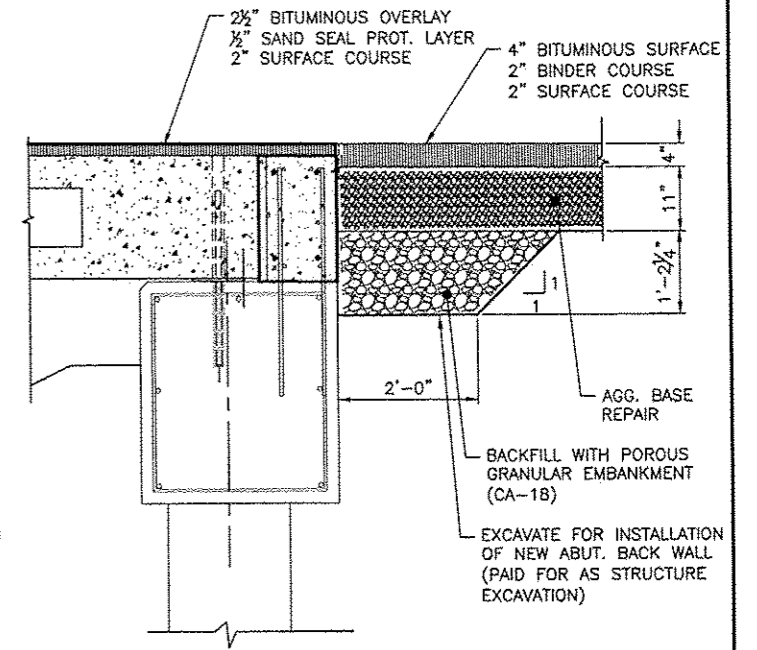
PLOT DATE \* 4/9/2014



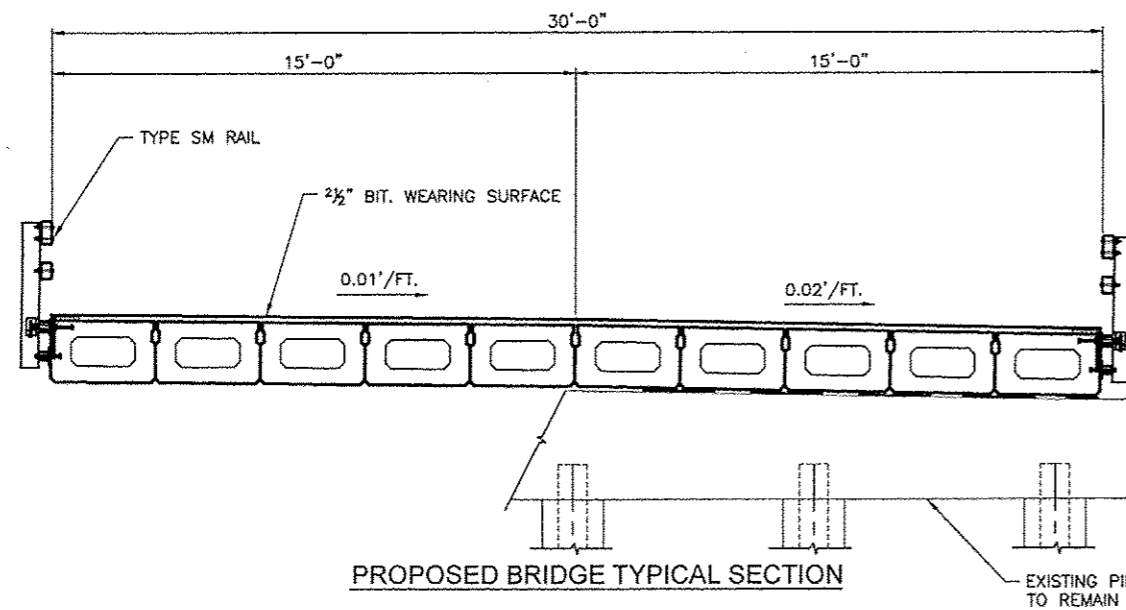
EXISTING BRIDGE TYPICAL SECTION



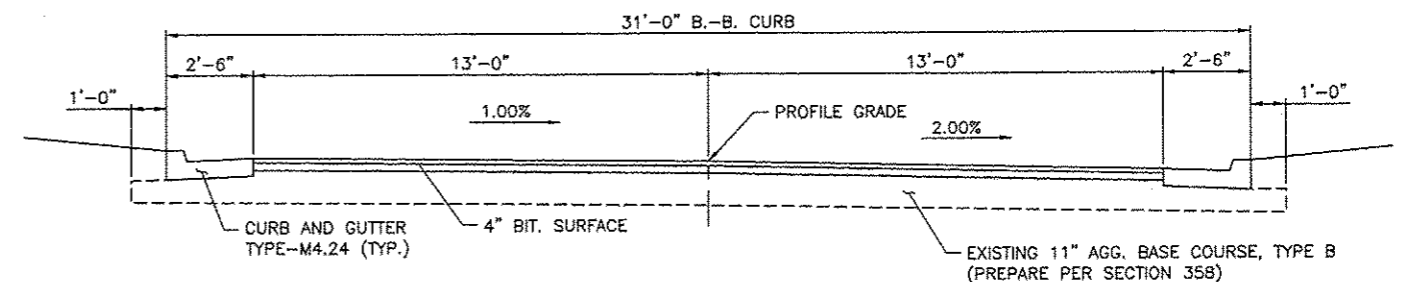
TYPICAL SECTION AT ABUTMENT (NORTH)



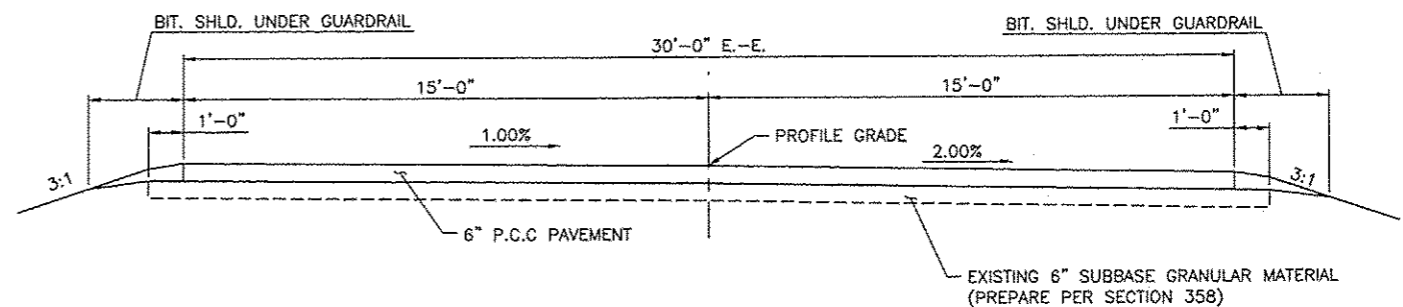
TYPICAL SECTION AT ABUTMENT (SOUTH)



PROPOSED BRIDGE TYPICAL SECTION



TYPICAL EXIST./PROP. SUPERELEVATED CROSS-SECTION (SOUTH)



TYPICAL EXIST./PROP. SUPERELEVATED CROSS-SECTION (NORTH)

LOCATION AND MIXTURE USE(S)	BRIDGE AND APPROACH		PROTECTION
	SURFACE	BINDER	LAYER (581.07)
PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOID	3.0 • N50	3.0 • N50	3.0 • N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5 OR 19.0	IL 4.75 OR PER ENGINEER
FRICTION AGGREGATE	C	N/A	N/A
20 YEAR ESAL	0.1	0.1	0.1
MIX UNIT WEIGHT	112 LBS/SY/IN		

DESIGNED -- MHM	REVISED --
DRAWN -- RAP	REVISED --
CHECKED -- JBF	REVISED --
PLOT DATE * 4/10/2014	DATE -- 4-8-14

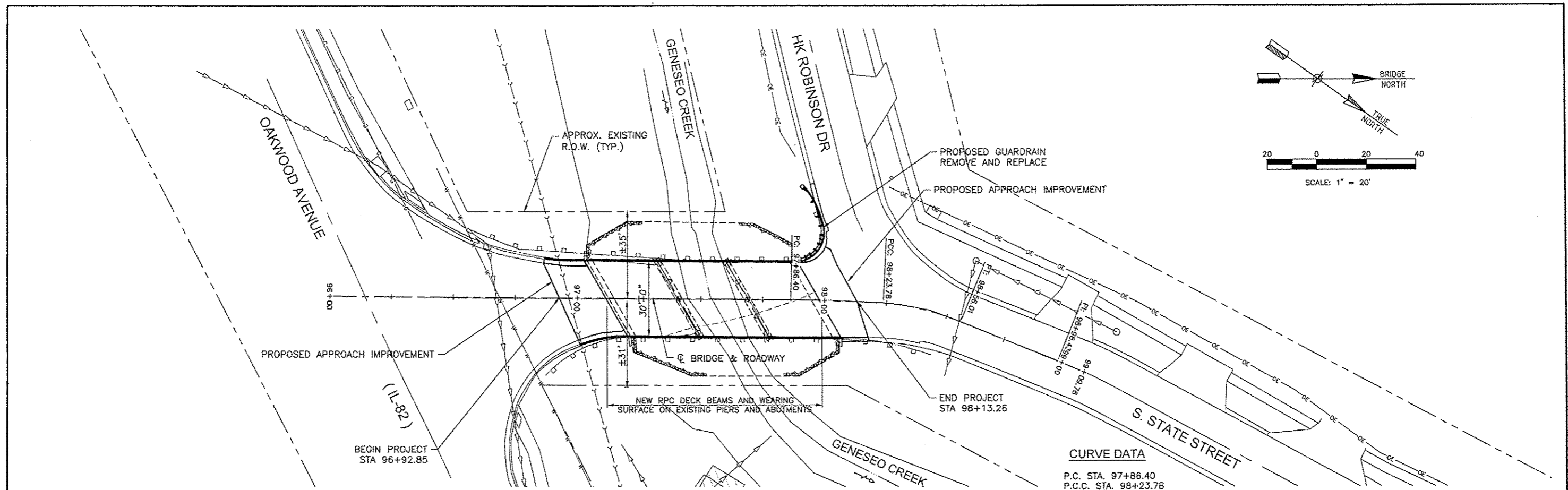
**Missman, Inc.**  
Professional Engineers & Land Surveyors

Rock Island, IL (309) 786-7844    Bettendorf, IA (563) 344-0260    Rockford, IL (815) 965-8400    Sycamore, IL (815) 805-3825

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TYPICAL SECTIONS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	3
CONTRACT NO. 85611				
ILLINOIS				

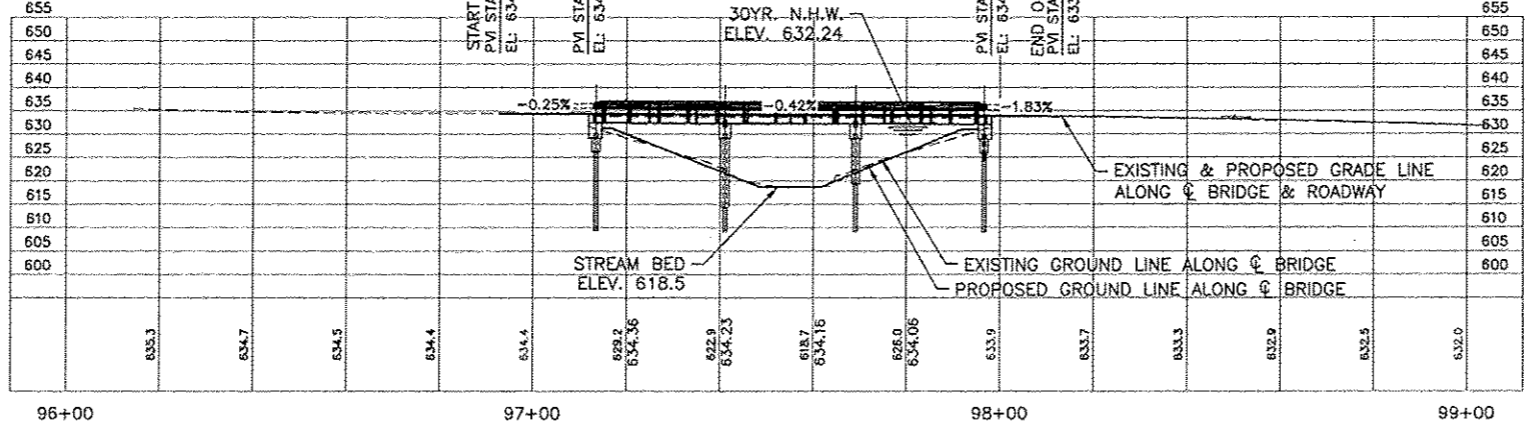


**CURVE DATA**

P.C. STA. 97+86.40  
 P.C.C. STA. 98+23.78  
 $\Delta = 1^{\circ}22'33''$   
 $R = 1,556.34'$   
 $T = 18.69'$   
 $L = 37.37'$   
 $E = 0.11'$

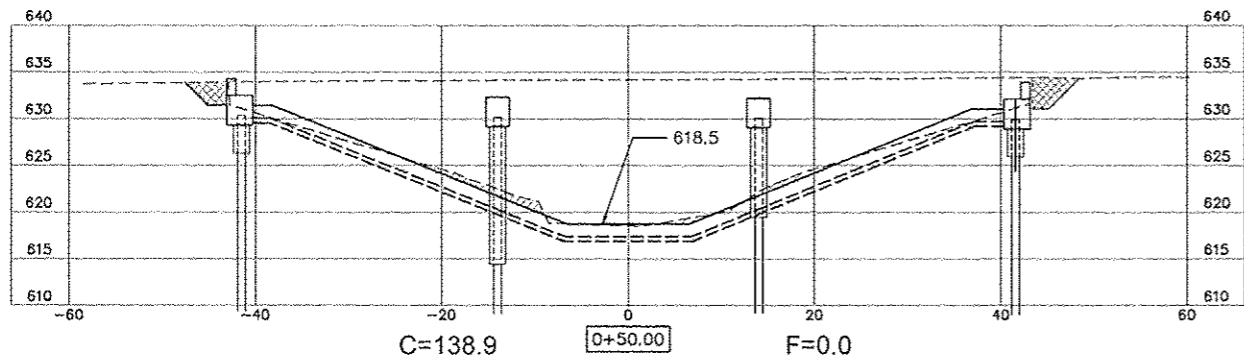
P.C.C. STA. 98+23.78  
 P.T. STA. 98+56.01  
 $\Delta = 18^{\circ}03'28''$   
 $R = 102.27'$   
 $T = 16.25'$   
 $L = 32.23'$   
 $E = 1.28'$

**PROFILE VIEW OF EXIST CENTERLINE**  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: 1" = 20'

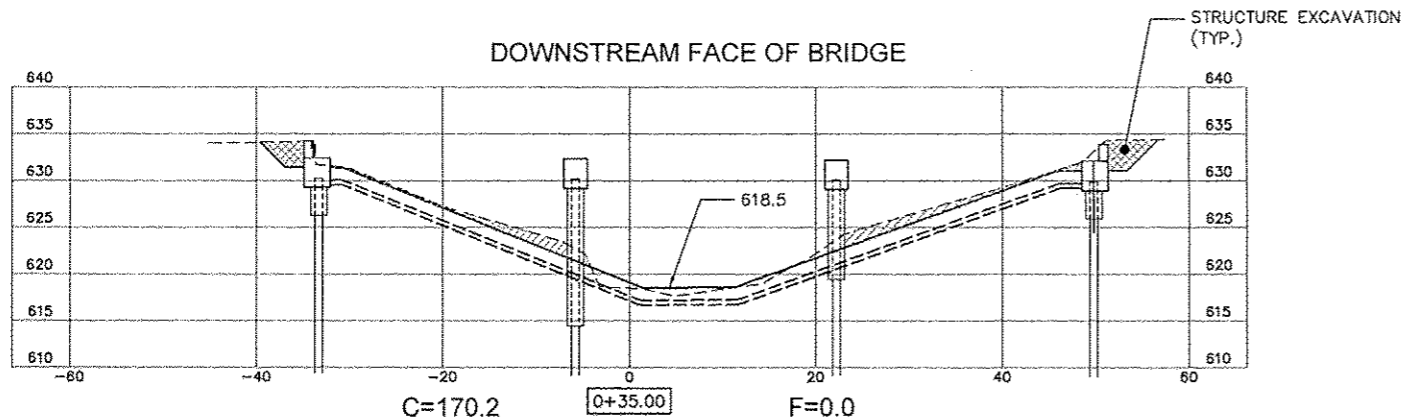


DESIGNED — MHM	REVISED —	 Professional Engineers & Land Surveyors	PLAN & PROFILE		F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			Rock Island, IL (815) 786-7044 Bettendorf, IA (563) 344-0390 Rockford, IL (815) 965-6400 Sycamore, IL (815) 895-3825	5665	12-00155-00-BR	HENRY	21	4	
DRAWN — RAP	REVISED —				CONTRACT NO. 85611		ILLINOIS		
CHECKED — JBF	REVISED —								
PLOT DATE — 4/10/2014	DATE — 4-8-14	REVISED —							

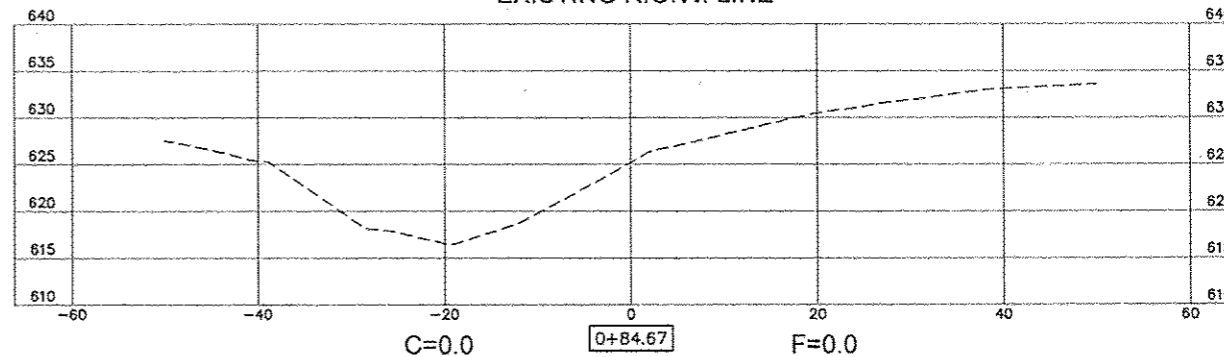
CENTERLINE OF BRIDGE



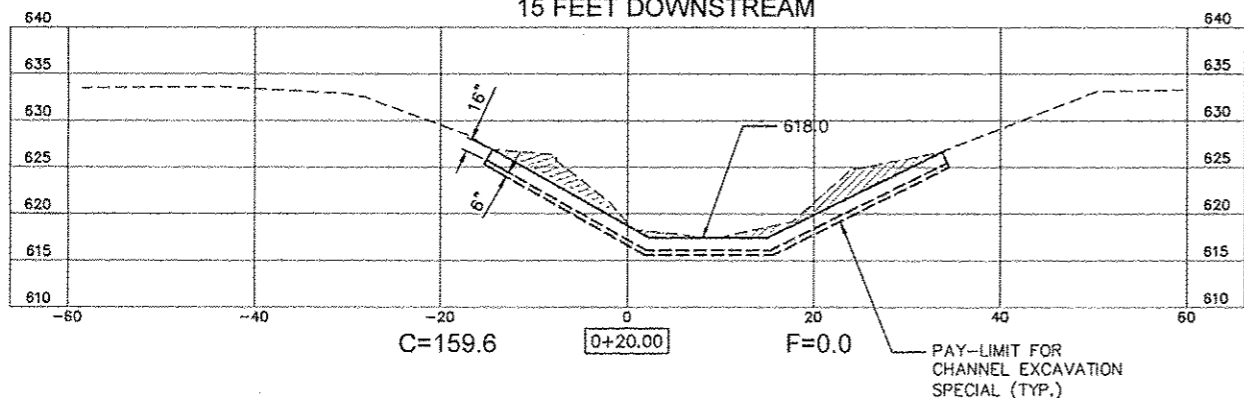
DOWNSTREAM FACE OF BRIDGE



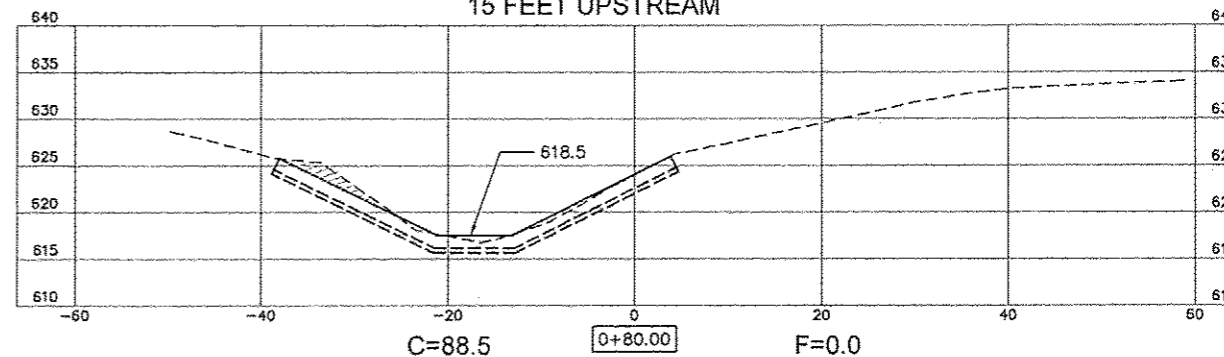
EXISTING R.O.W. LINE



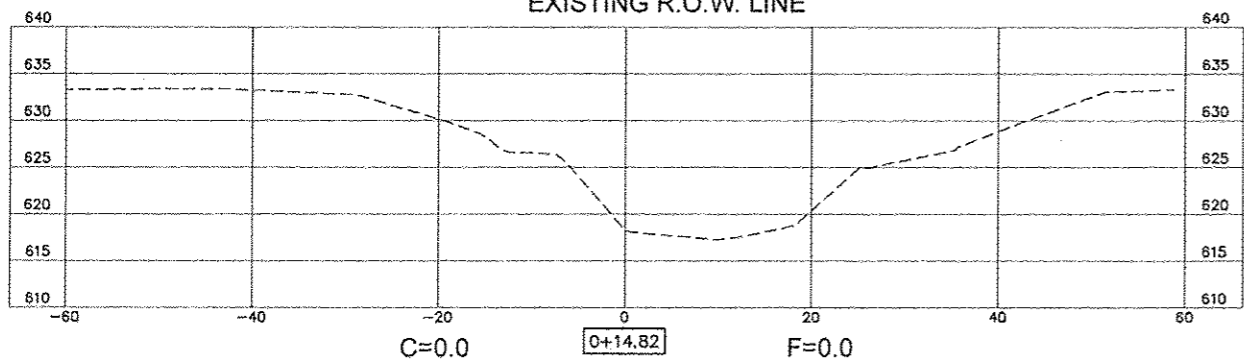
15 FEET DOWNSTREAM



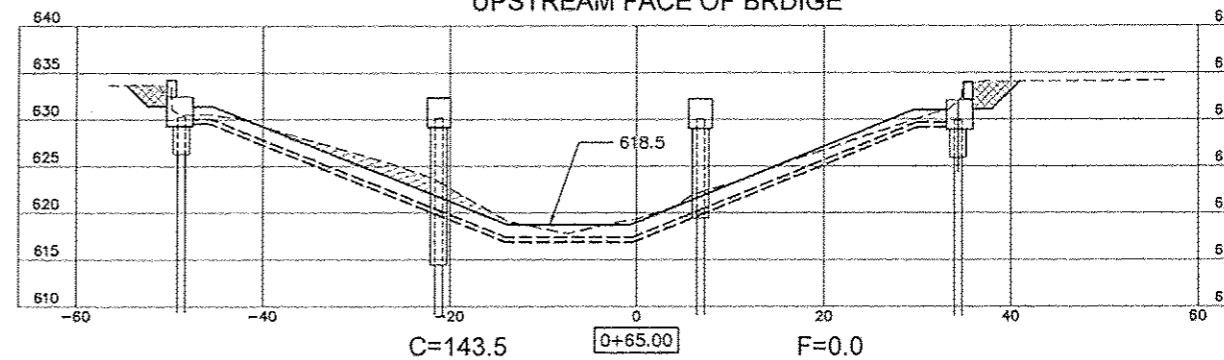
15 FEET UPSTREAM



EXISTING R.O.W. LINE



UPSTREAM FACE OF BRIDGE



DESIGNED --	MHM	REVISED --	
DRAWN --	RAP	REVISED --	
CHECKED --	JBF	REVISED --	
DATE --	4-8-14	REVISED --	
PLOT DATE = 4/9/2014			

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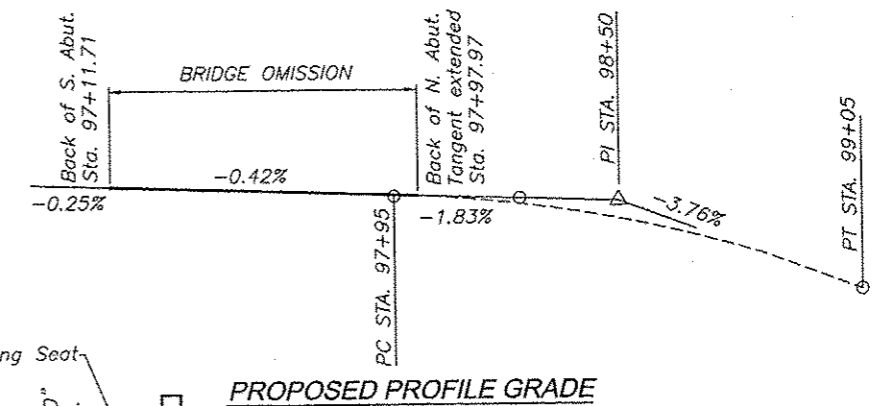
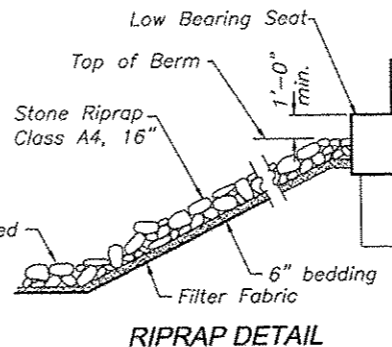
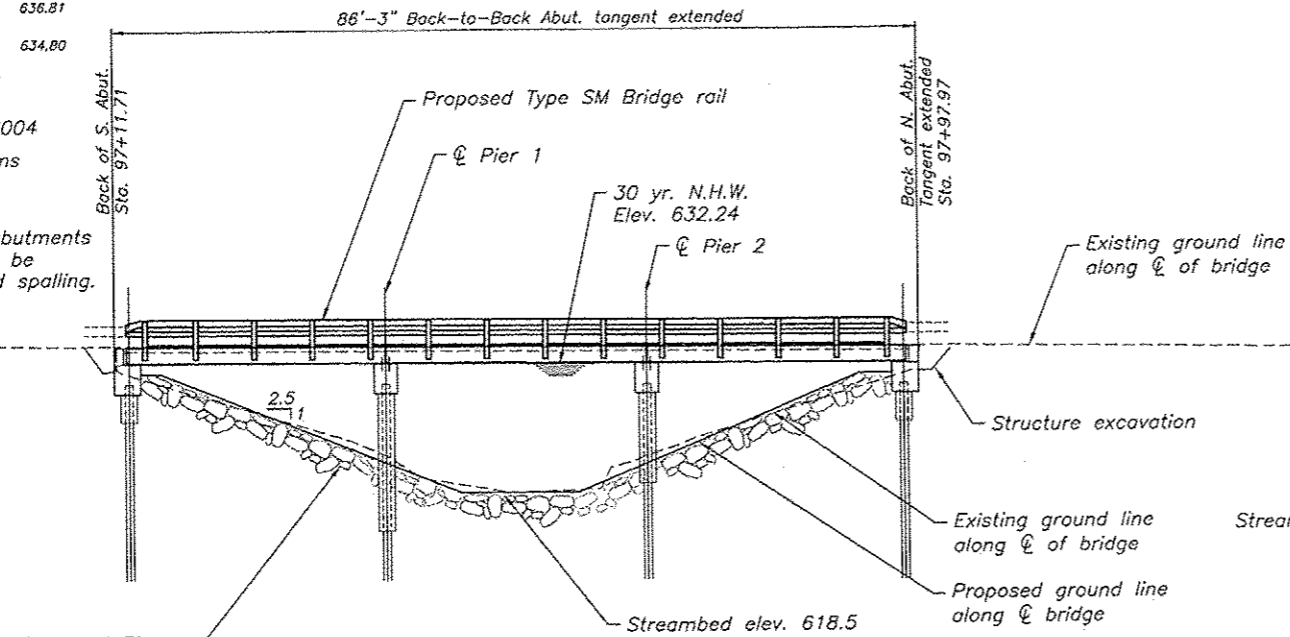
CHANNEL CROSS SECTIONS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	5
CONTRACT NO. 85611				
ILLINOIS				

Bench Marks:  
 TBM-100 BOLT IN WORD "MUELLER" ON FIRE HYDRANT @ N.W. COR. OF STATE ST. AND ROBINSON DR. 634.19  
 TBM-101 WEST BOLT ON F.H. @ S.W. COR. OF BRIDGE 636.81  
 TBM-102 BOLT IN WORD "MUELLER" ON FIRE HYDRANT @ N.E. COR. OF ROBINSON DR. & RICHMOND HILL DR. 634.80

Existing Structure: SN 037-6004  
 3 - Span PPC Channel beams over concrete piers and abutments.

Salvage: Existing piers and abutments to remain in place and shall be repaired for delamination and spalling.



**TOTAL BILL OF MATERIALS**

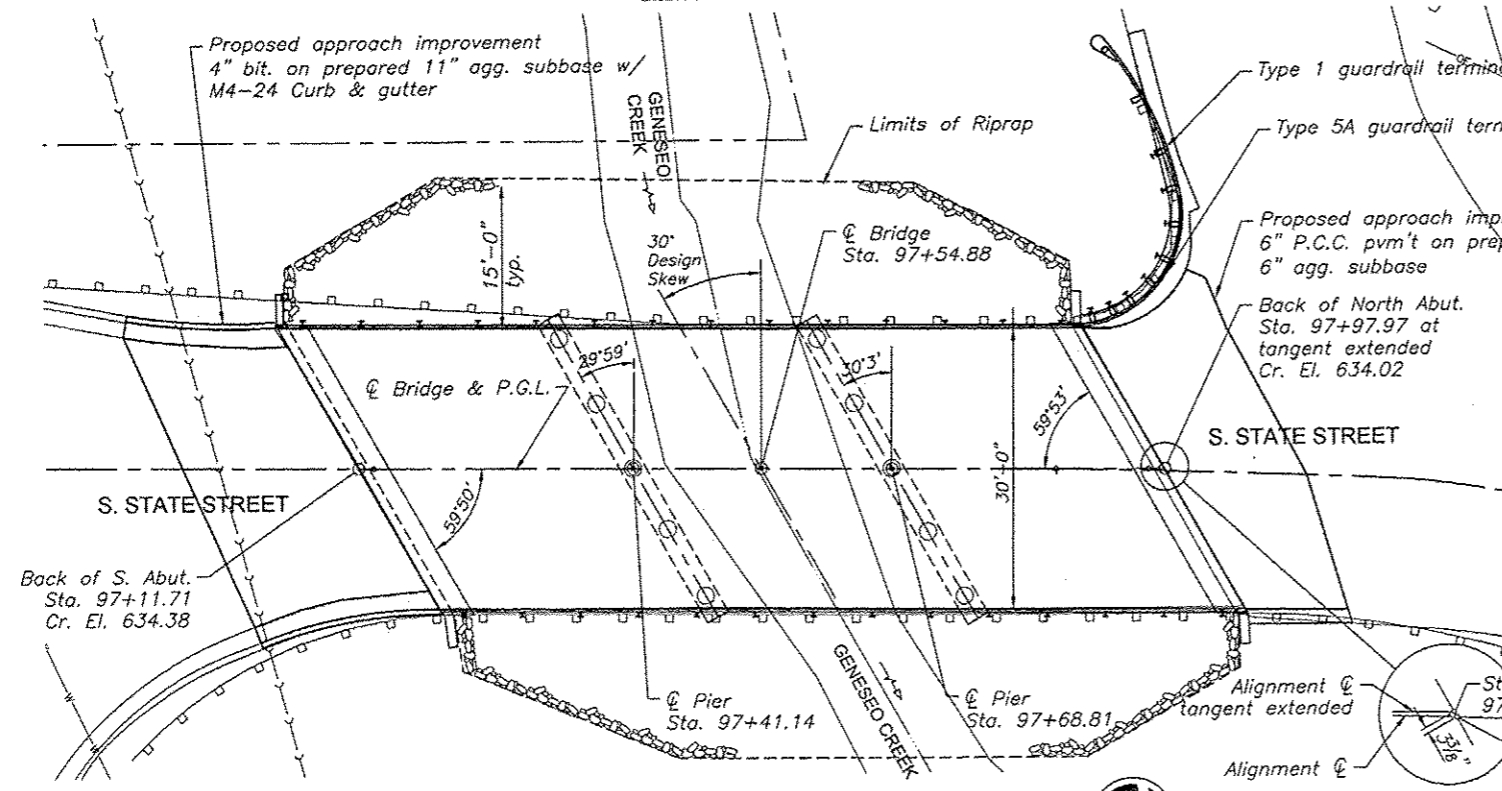
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Ton	---	20.0	20.0
Stone Riprap, Class A4	Sq Yd	---	557	557
Filter Fabric	Sq Yd	---	557	557
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	42.1	---	42.1
Removal Of Existing Superstructures	Each	1	---	1
Structure Excavation	Cu Yd	---	9.6	9.6
Concrete Structures	Cu Yd	5.4	---	5.4
Rubbed Finish	Sq Ft	1,008.0	---	1,008.0
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	2,503	---	2,503
Reinforcement Bars	Pound	---	320	320
Steel Railing, Type SM	Foot	167.00	---	167.00
Name Plates	Each	1	---	1
Waterproofing Membrane System	Sq Yd	279.0	---	279.0
Portland Cement Mortar Fairing Course	Foot	751.0	---	751.0
Concrete Sealer	Sq Ft	---	856.0	856.0
Epoxy Crack Injection	Foot	---	45.0	45.0
Channel Excavation (Special)	Cu Yd	---	325	325
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	---	139.0	139.0

**DESIGN SPECIFICATIONS**  
 Superstructure:  
 2012 AASHTO LRFD Bridge Design Specification  
 Substructure:  
 1977 AAHTO Spec's.  
 1978 Thru 1983 Interim Specification

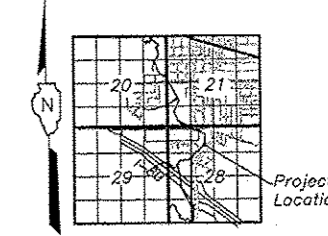
**LOADING**  
 Superstructure:  
 Loading HL-93  
 Allow 50#/Sq.Ft. for Future wearing surface  
 Substructure:  
 Loading HS20-44

**DESIGN STRESSES**  
 Field Units  
 f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)  
 Precast Unit  
 f'c = 6,000 psi  
 f'ci = 5,000 psi  
 fpu = 27,000 psi (1/2" dia. strand)  
 fpbt = 201,960 psi (1/2" dia. strand)

**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.09g  
 Design Spectral Acceleration at 0.2 sec. (Sds) = 0.120g  
 Soil Site Class = D



GENESEO CREEK  
 BUILT 2014 BY  
 HENRY COUNTY  
 SEC. 12-00155-00-BR  
 FAU 5665, STA. 97+54.88  
 STR. NO. 037-6004 LOADING HL-93



**NAME PLATE**  
 See Std. 515001  
 Existing Name Plate to be salvaged and mounted next to the new plate (incidental).

Drainage Area = 21.8 sq. mi. Existing overtopping elev. = 631.5  
 Proposed overtopping elev. = 631.5 @ Sta. 99+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	3,810	530	574	632.24	0.09	0.09	632.33	632.33
Scour Design Check	100	5,120	530	574	633.38	0.45	0.33	633.83	633.71
Max. Calc.	500	6,910	530	574	634.34	1.39	0.99	635.73	635.33

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 style of structure and complies with requirements of the 2012 AASHTO LRFD Bridge Design Specifications.

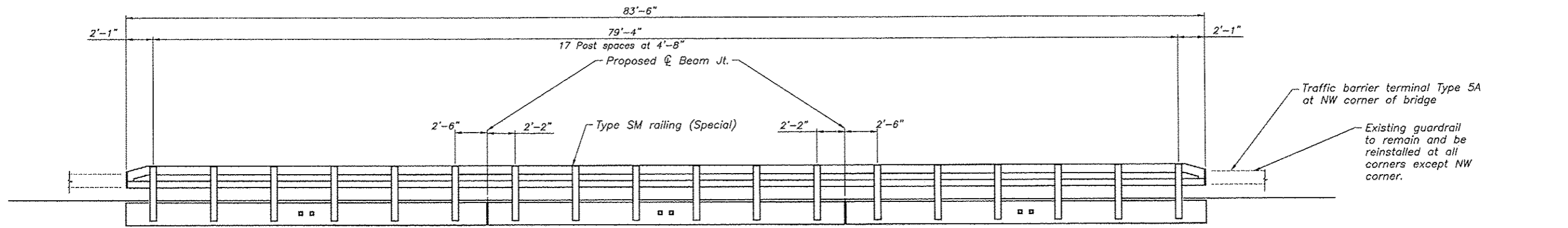
John B. Fellman  
 John B. Fellman, S.E.  
 License expires 11-30-2014

4-8-2014  
 Date

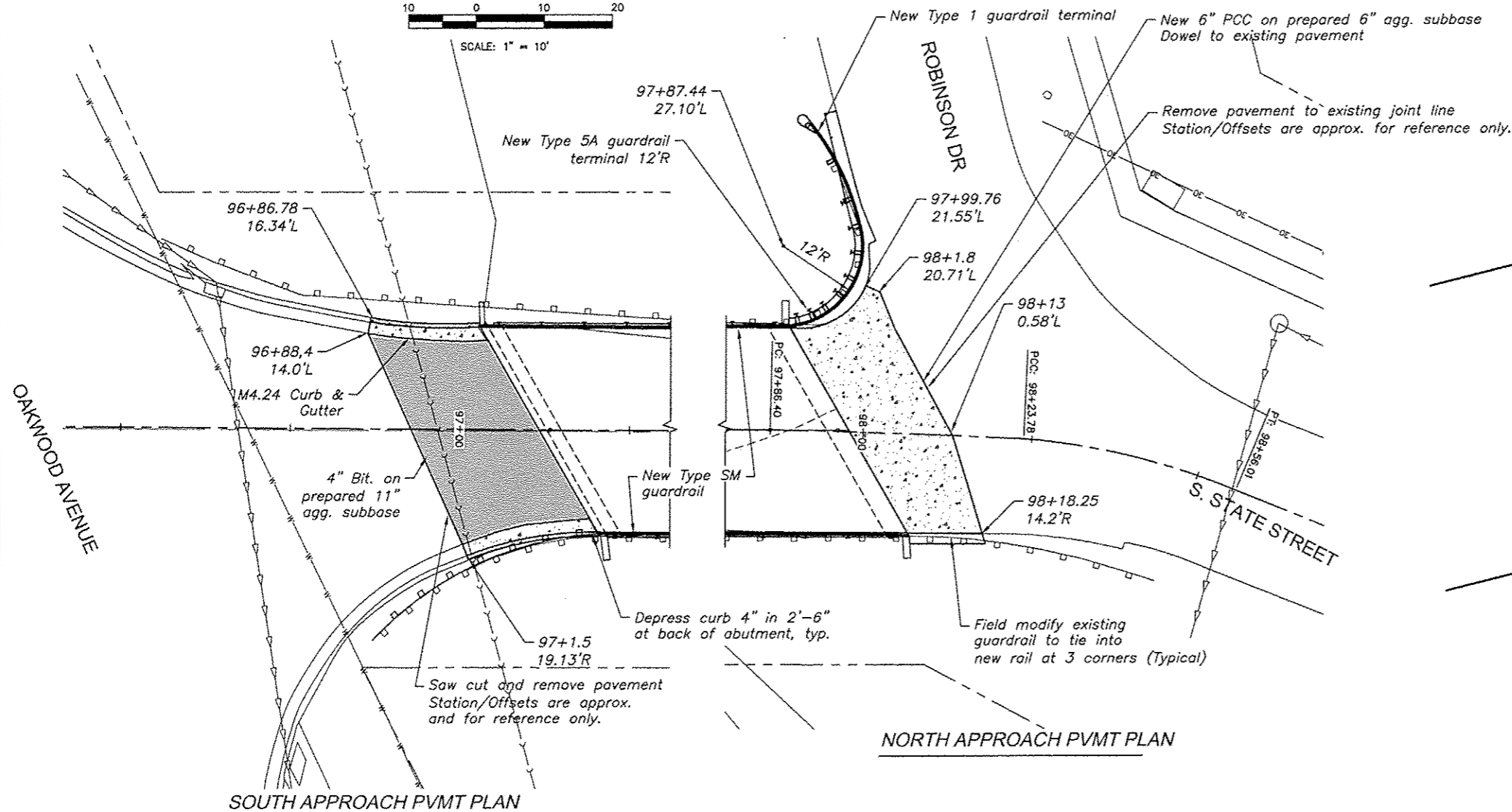
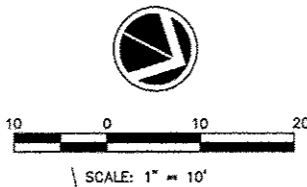


**GENERAL PLAN & ELEVATION**  
 S. STATE STREET OVER GENESEO CREEK  
 SEC. 12-00155-00-BR  
 HENRY COUNTY  
 STA. 97+54.88  
 SN 037-6004

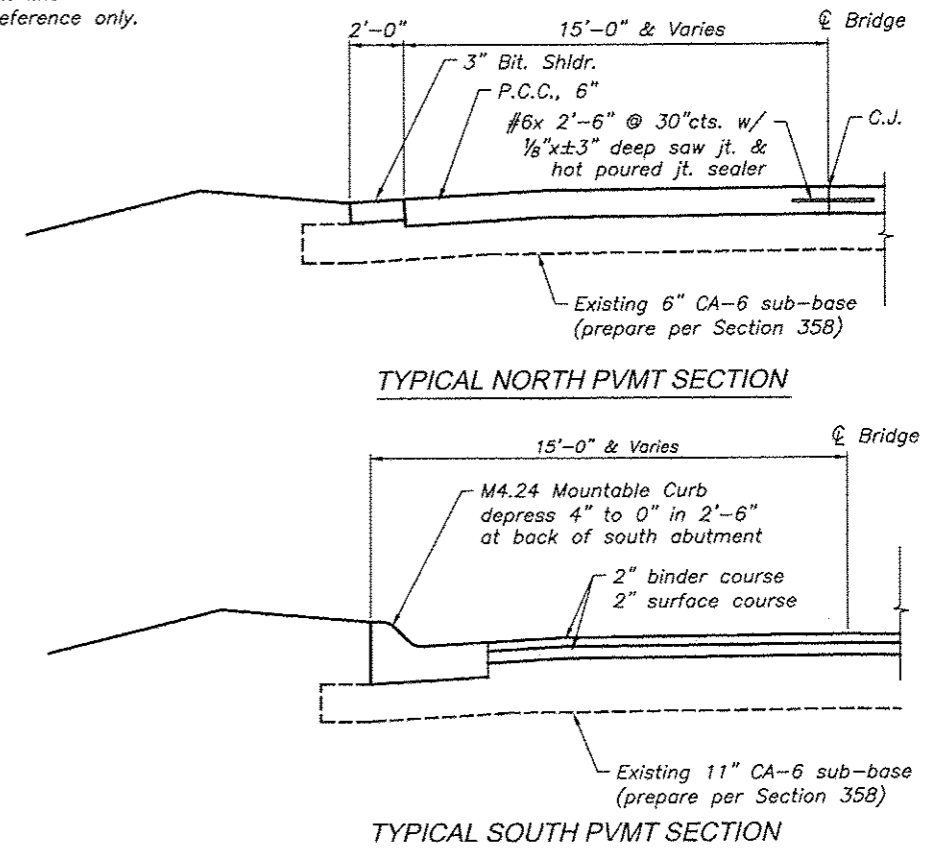
DESIGNED -- MHM	REVISED --		GENERAL PLAN & ELEVATION		F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -- RAP	REVISED --		5665	12-00155-00-BR	HENRY	21	6		
CHECKED -- JBF	REVISED --		CONTRACT NO. 85611						
PLOT DATE = 4/10/2014	DATE -- 4-8-14		REVISED --	ILLINOIS					



BRIDGE GUARD RAIL ELEVATION



NORTH APPROACH PVMT PLAN



TYPICAL NORTH PVMT SECTION

TYPICAL SOUTH PVMT SECTION

DESIGNED -- MHM	REVISIONS
DRAWN -- RAP	REVISIONS
CHECKED -- JBF	REVISIONS
DATE -- 4-8-14	REVISIONS
PLOT DATE -- 4/10/2014	REVISIONS

**Missman, Inc.**  
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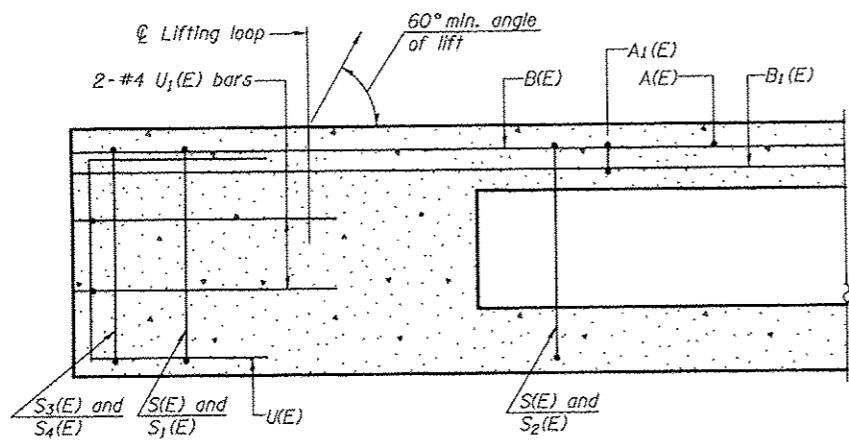
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APPROACH SLAB DETAILS & ELEVATIONS

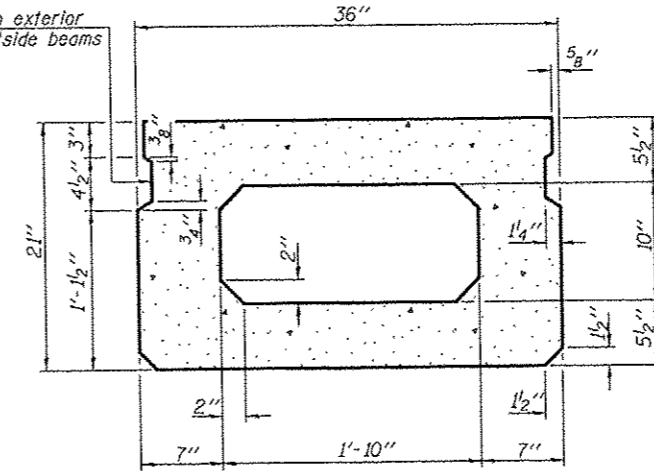
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	7
CONTRACT NO. 85611				

ILLINOIS

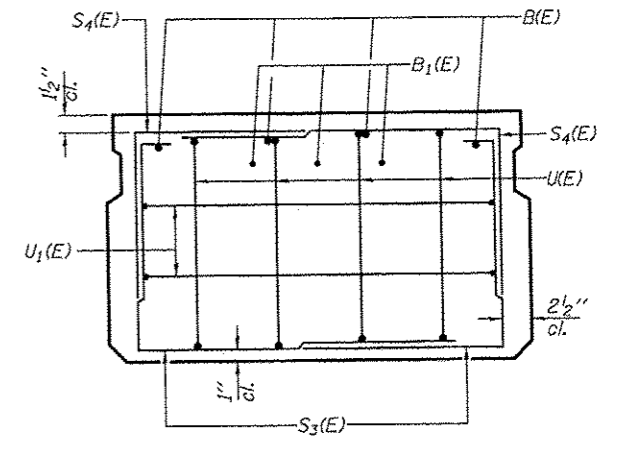


**SECTION A-A**

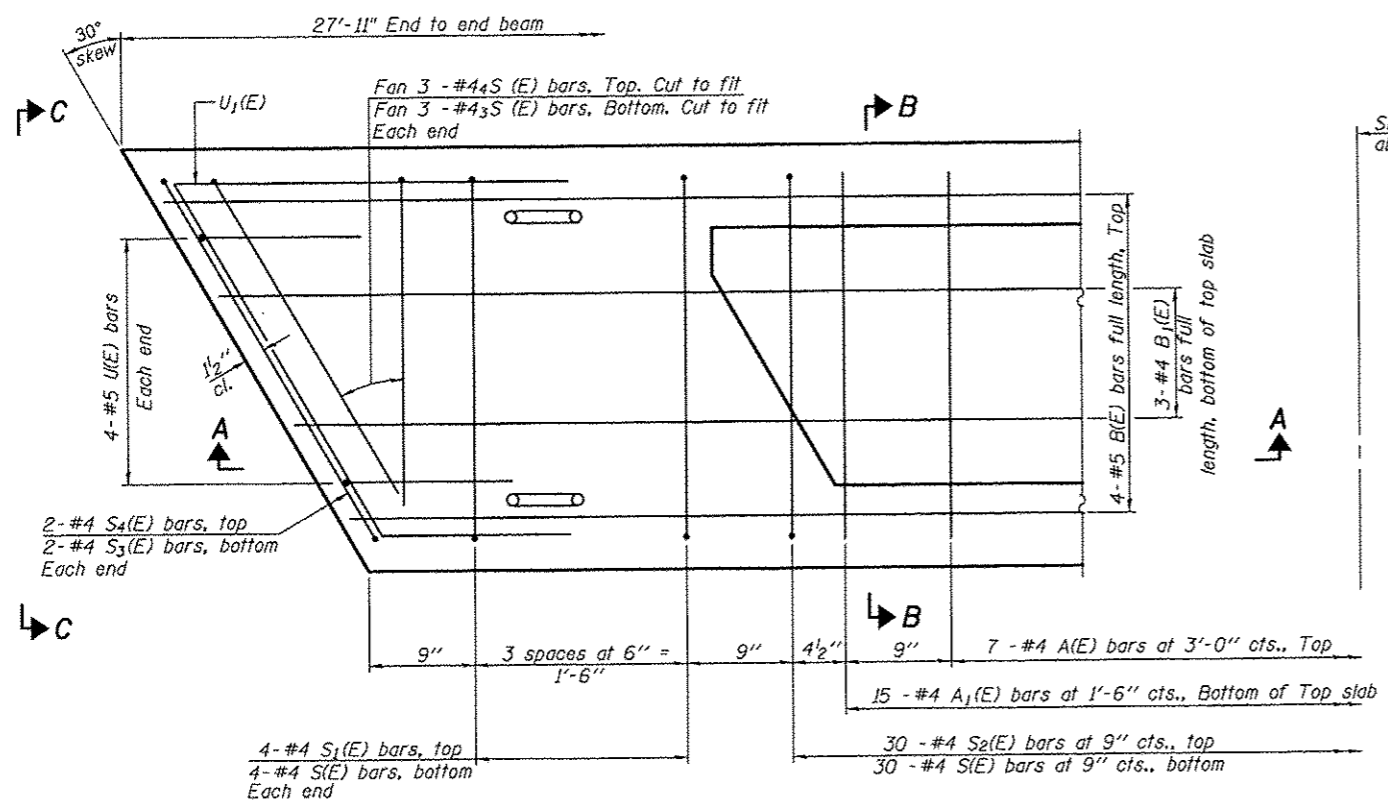
Omit key on exterior face of outside beams



**SECTION B-B**  
(Showing dimensions)

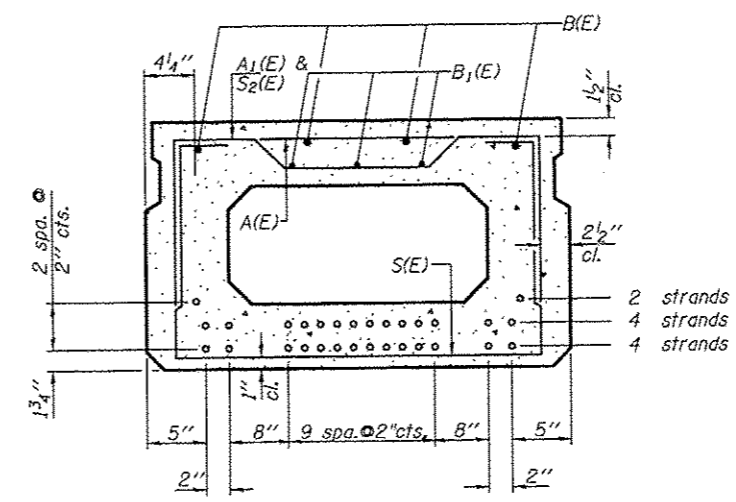


**VIEW C-C**



**PLAN VIEW**

Note: 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.



**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)	7	#4	2'-7"	—
A1(E)	15	#4	2'-10"	—
B(E)	4	#5	27'-8"	—
B1(E)	3	#4	27'-8"	—
S(E)	38	#4	6'-5"	□
S1(E)	8	#4	4'-11"	□
S2(E)	30	#4	5'-2"	□
S3(E)	10	#4	4'-2 1/2"	□
S4(E)	10	#4	3'-5 1/2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	6'-10"	□

Note: See sheet 9 of 21 for additional details and Bill of Material.

**MINIMUM BAR LAP**

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

DESIGNED -- MHM	REVISED --
DRAWN -- RAP	REVISED --
CHECKED -- JBF	REVISED --
DATE -- 4-8-14	REVISED --

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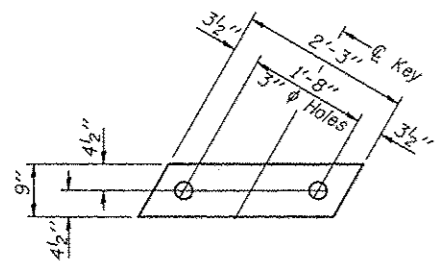
Rock Island, IL (309) 785-7644    Bettendorf, IA (563) 344-0269    Rockford, IL (815) 965-6400    Sycamore, IL (815) 965-3035

**APPROACH SPAN BEAM DETAILS**

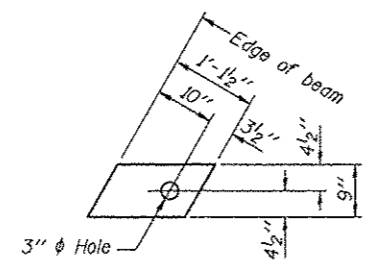
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	8
CONTRACT NO. 85611				

PLOT DATE = 4/10/2014





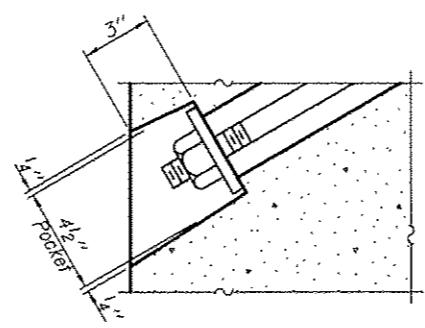
**FABRIC BEARING PAD**  
(Interior)



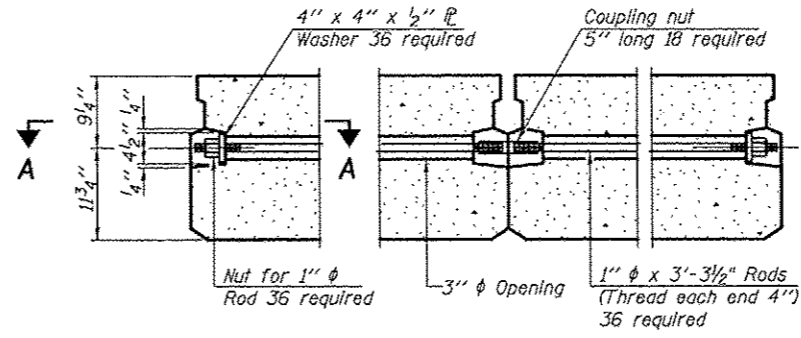
**FABRIC BEARING PAD**  
(Exterior)

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

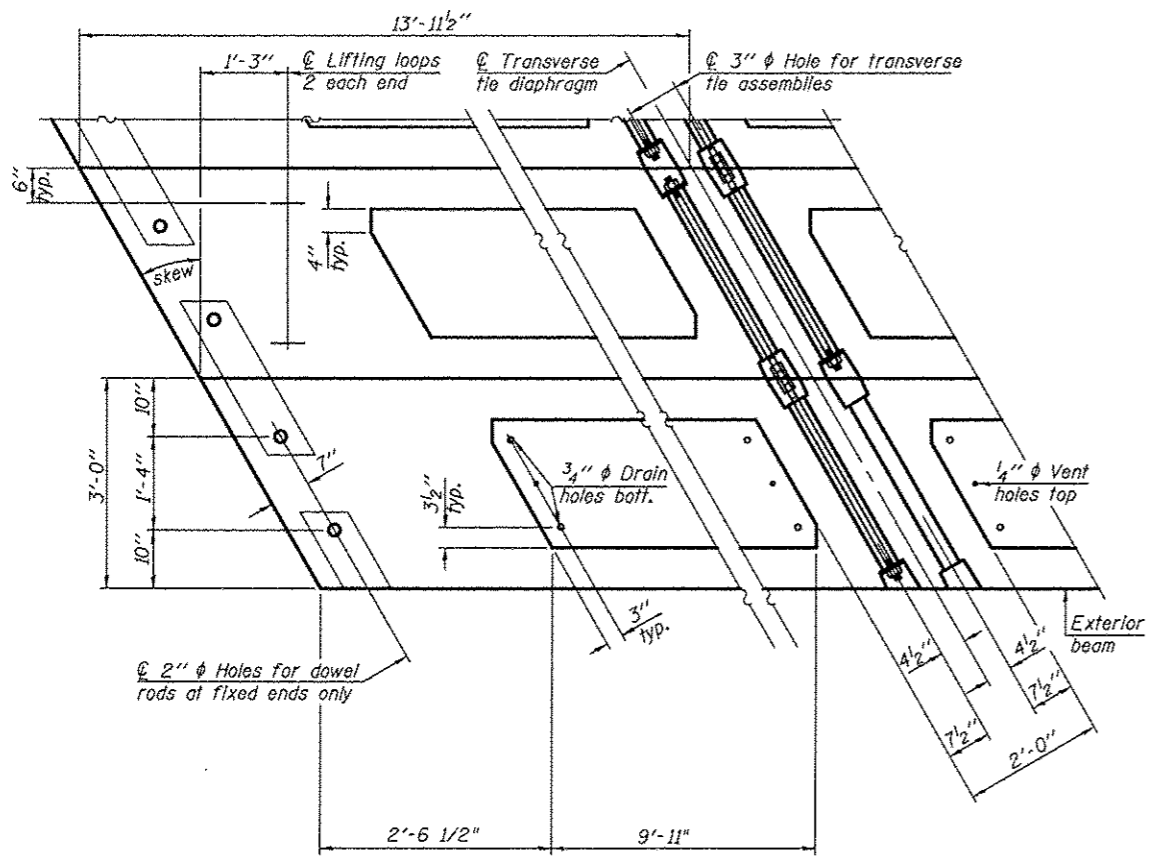
**FIXED**



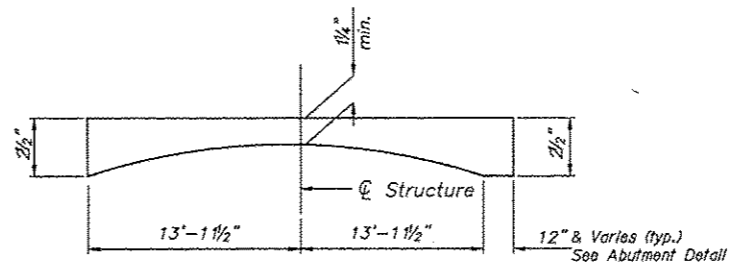
**SECTION A-A**



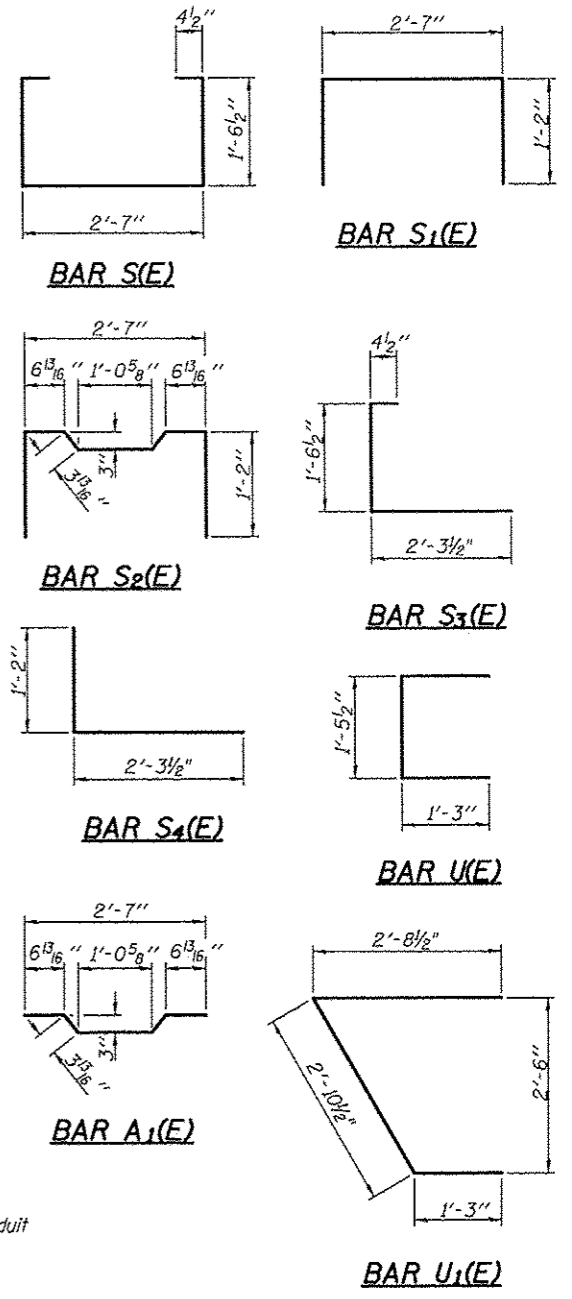
**TYPICAL TRANSVERSE TIE ASSEMBLY**



**PLAN VIEW**

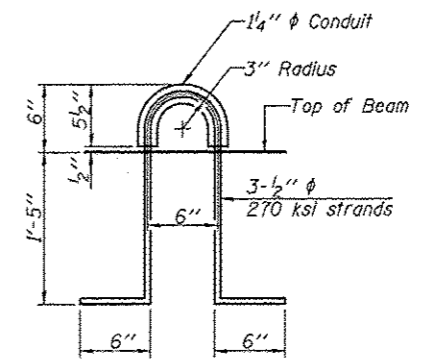


**BIT. SURFACE PROFILE**



**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,675
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**LIFTING LOOP DETAIL**

**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" phi 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 ASTM A 706, Grade 60. (See Special Provisions).  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2" phi 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'cl, shall be 5000 psi.

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

PD-2136-RD 7-1-10

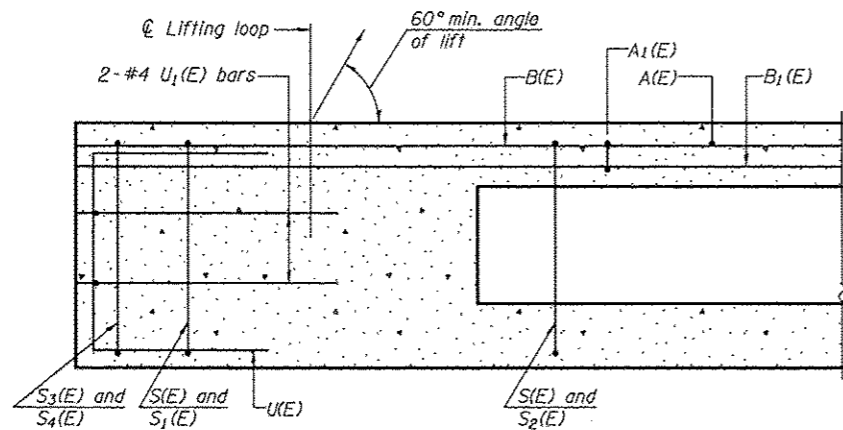
DESIGNED - MHM	REVISIONS -
DRAWN - RAP	REVISIONS -
CHECKED - JBF	REVISIONS -
DATE - 4-8-14	REVISIONS -
PLOT DATE - 4/9/2014	REVISIONS -



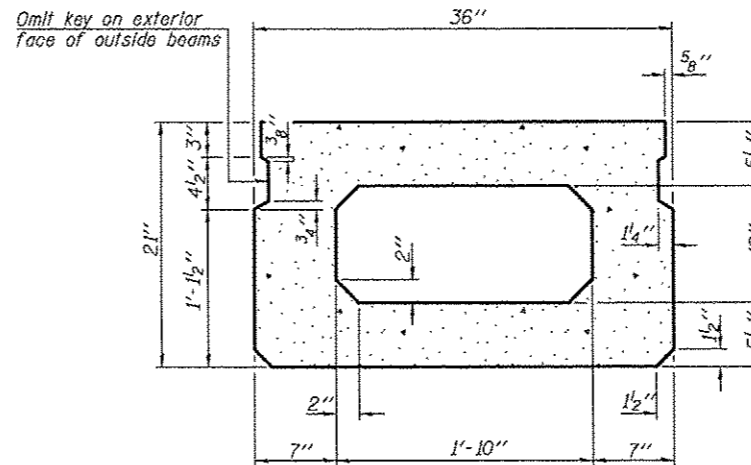
Rock Island, IL (309) 768-7644 Bettendorf, IA (563) 344-0292 Rockford, IL (815) 965-6400 Sycamore, IL (815) 895-3825 www.missman.com

**APPROACH SPAN BEAM DETAILS**

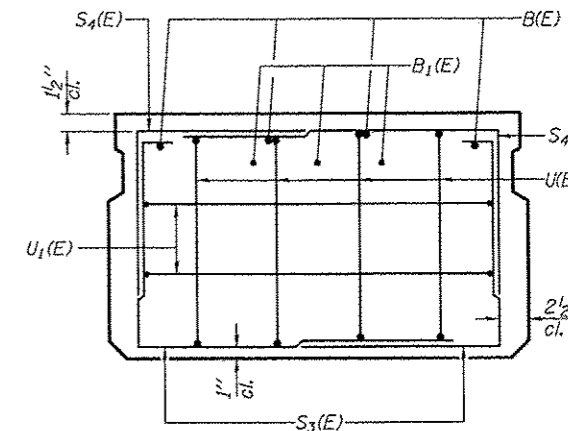
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	9
CONTRACT NO. 85611			ILLINOIS	



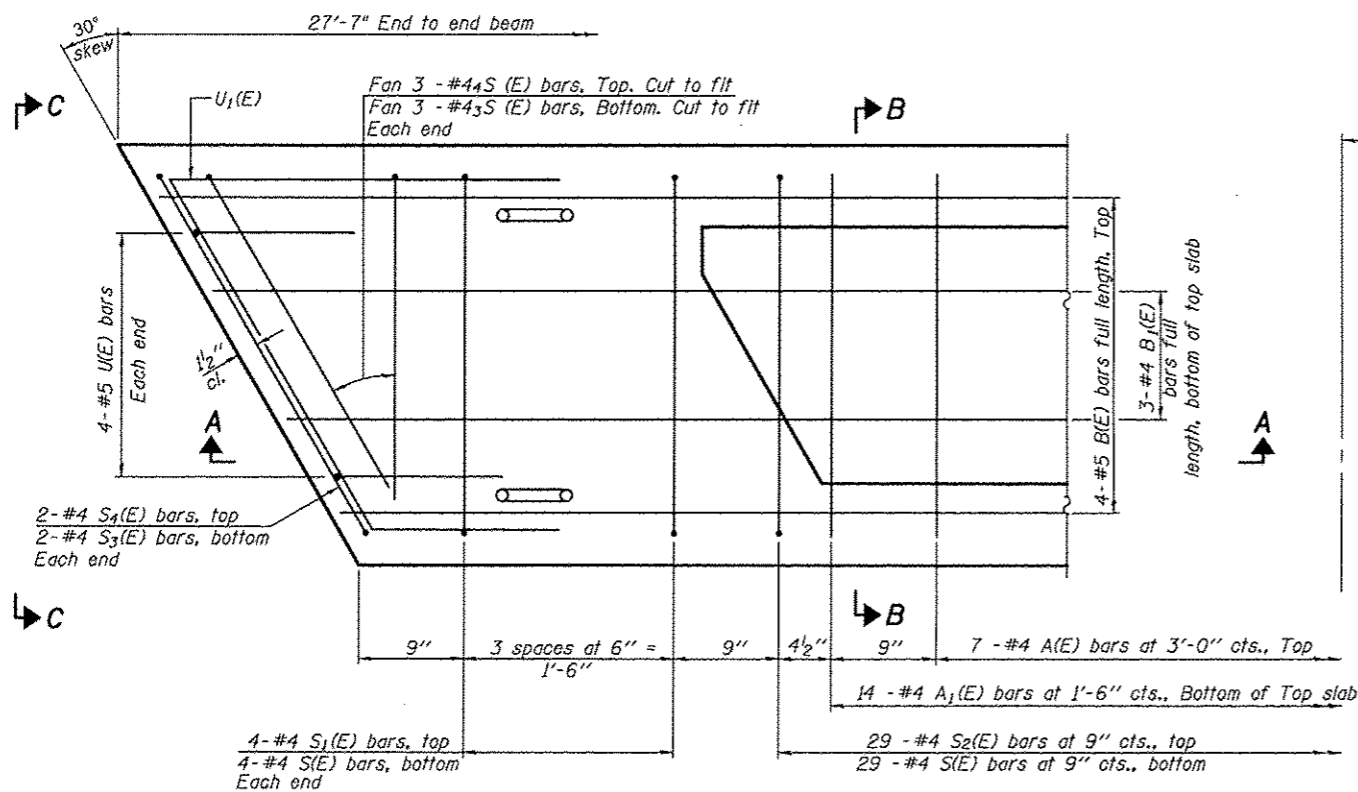
**SECTION A-A**



**SECTION B-B**  
(Showing dimensions)



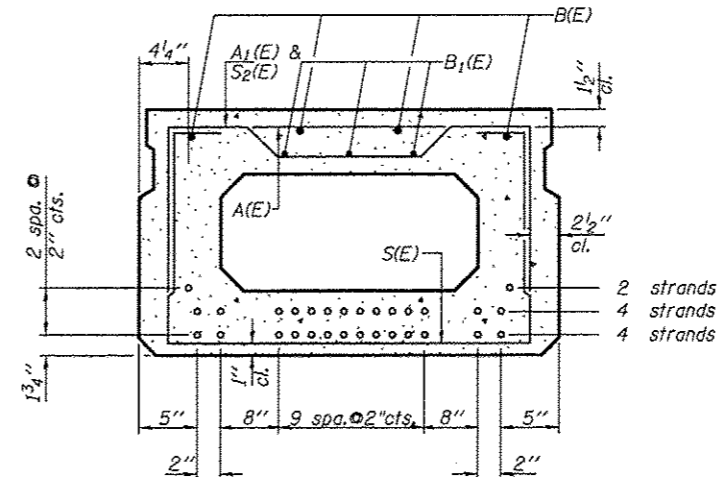
**VIEW C-C**



**PLAN VIEW**

Note: 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.

Similar about  $\bar{C}$



**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)	7	#4	2'-7"	—
A1(E)	14	#4	2'-10"	—
B(E)	4	#5	27'-4"	—
B1(E)	3	#4	27'-4"	—
S(E)	37	#4	6'-5"	□
S1(E)	8	#4	4'-11"	□
S2(E)	29	#4	5'-2"	□
S3(E)	10	#4	4'-2 1/2"	□
S4(E)	10	#4	3'-5 1/2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	6'-10"	□

Note: See sheet 11 of 21 for additional details and Bill of Material.

**MINIMUM BAR LAP**

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

PD-2136-R

7-1-10

DESIGNED —	MHM	REVISED —	
DRAWN —	RAP	REVISED —	
CHECKED —	JBF	REVISED —	
PLOT DATE =	4/10/2014	DATE =	4-8-14

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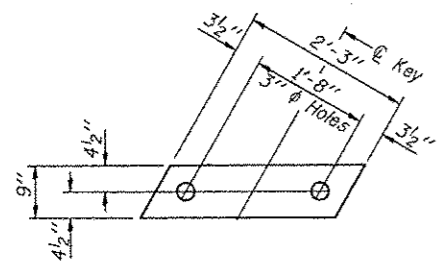
Rock Island, IL (309) 768-7844    Bettendorf, IA (563) 344-0300    Rockford, IL (815) 965-6400    Sycamore, IL (815) 595-3825

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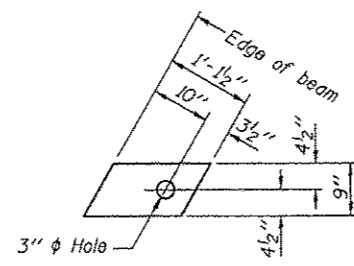
**CENTER SPAN BEAM DETAILS**

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5685	12-00155-00-BR	HENRY	21	10
CONTRACT NO. 85611				

ILLINOIS



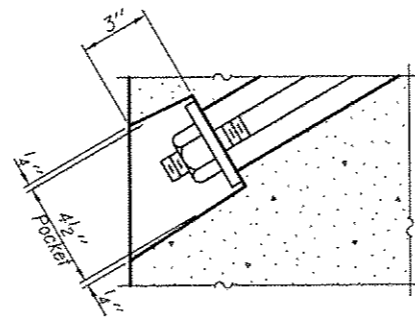
**FABRIC BEARING PAD**  
(Interior)



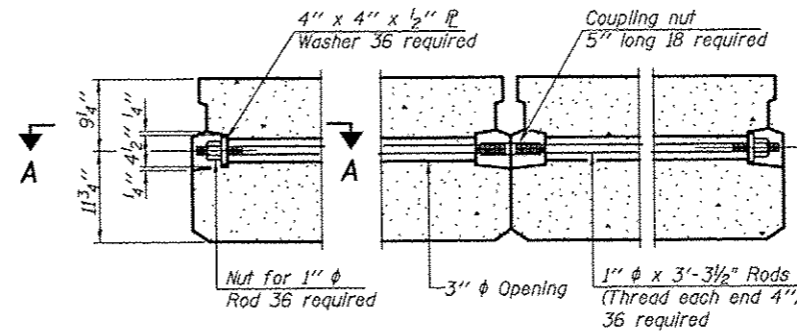
**FABRIC BEARING PAD**  
(Exterior)

**FIXED**

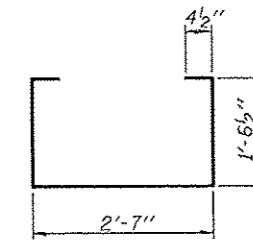
Notes:  
All bearing pads shall be 1" thick.  
Omit holes when using expansion bearings.  
Expansion bearing pad shall be bonded to the substructure.



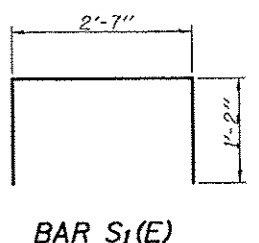
**SECTION A-A**



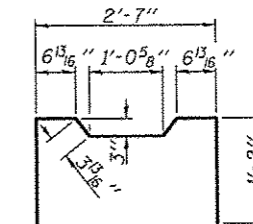
**TYPICAL TRANSVERSE TIE ASSEMBLY**



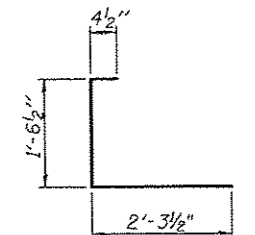
**BAR S1(E)**



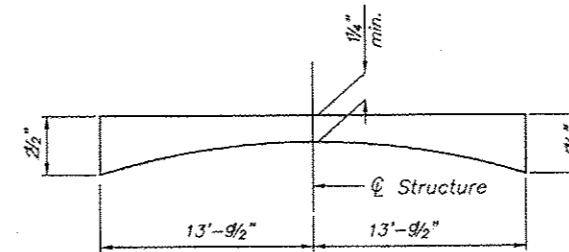
**BAR S2(E)**



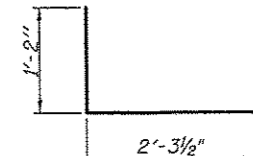
**BAR S3(E)**



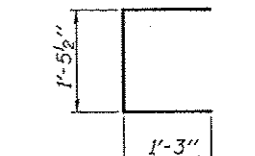
**BAR S4(E)**



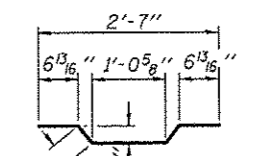
**BIT. SURFACE PROFILE**



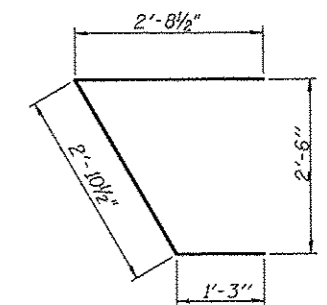
**BAR U1(E)**



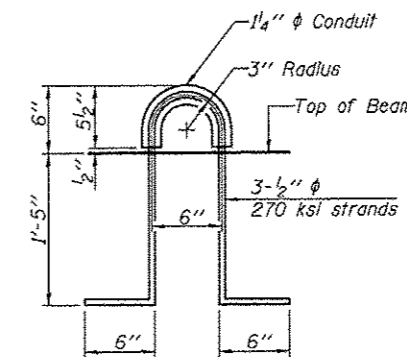
**BAR U2(E)**



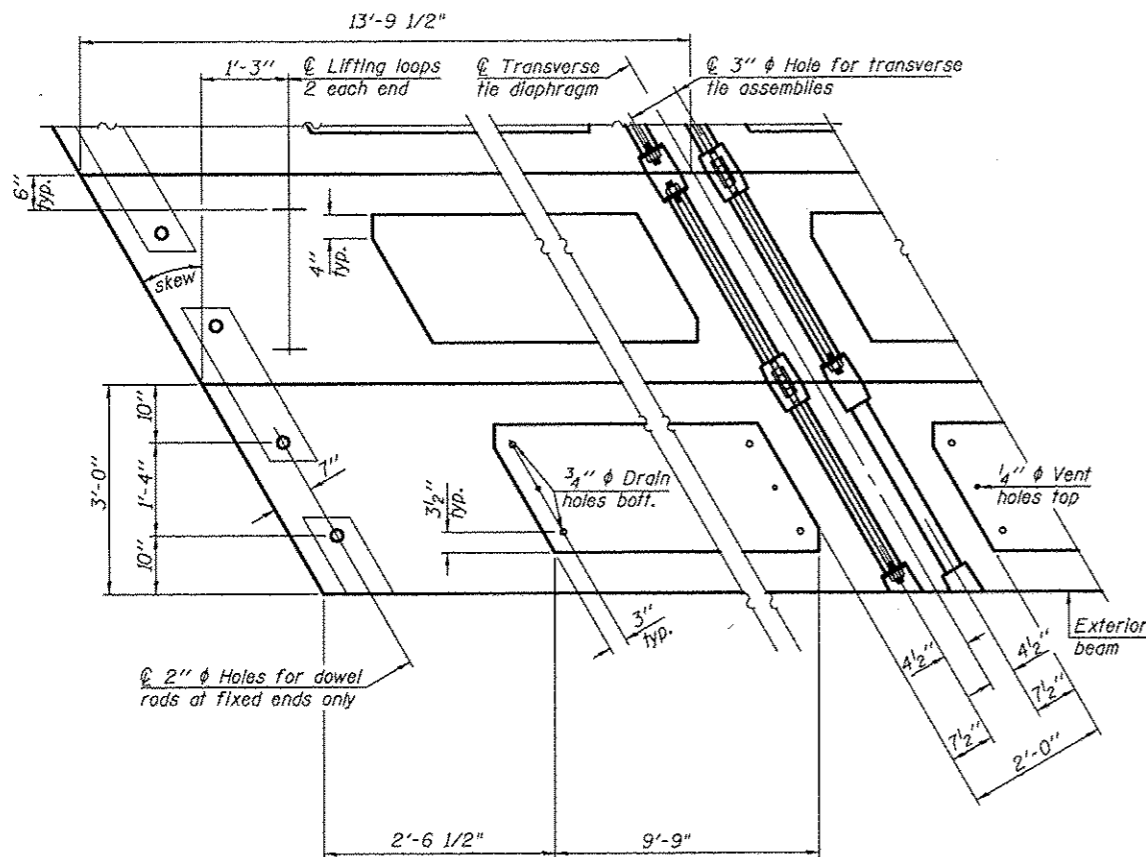
**BAR A1(E)**



**BAR U3(E)**



**LIFTING LOOP DETAIL**



**PLAN VIEW**

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" phi 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 ASTM A 706, Grade 60. (See Special Provisions).  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2" phi 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.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (21' depth)	Sq. Ft.	828
---	---------	-----

PD-2136-RD

7-1-10

DESIGNED -- MHM	REVISED --
DRAWN -- RAP	REVISED --
CHECKED -- JBF	REVISED --
PLOT DATE -- 4/9/2014	DATE -- 4-8-14

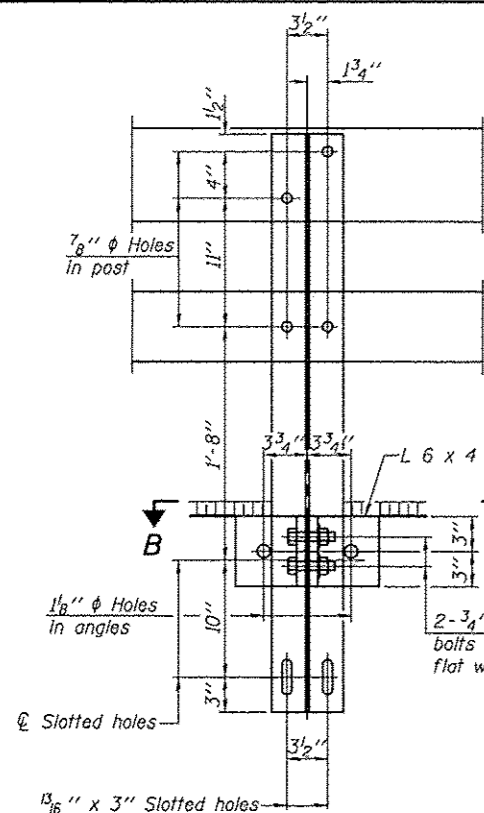
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Rock Island, IL (309) 788-7844    Bettendorf, IA (563) 344-0260    Rockford, IL (815) 965-6400    Sycamore, IL (815) 895-3825

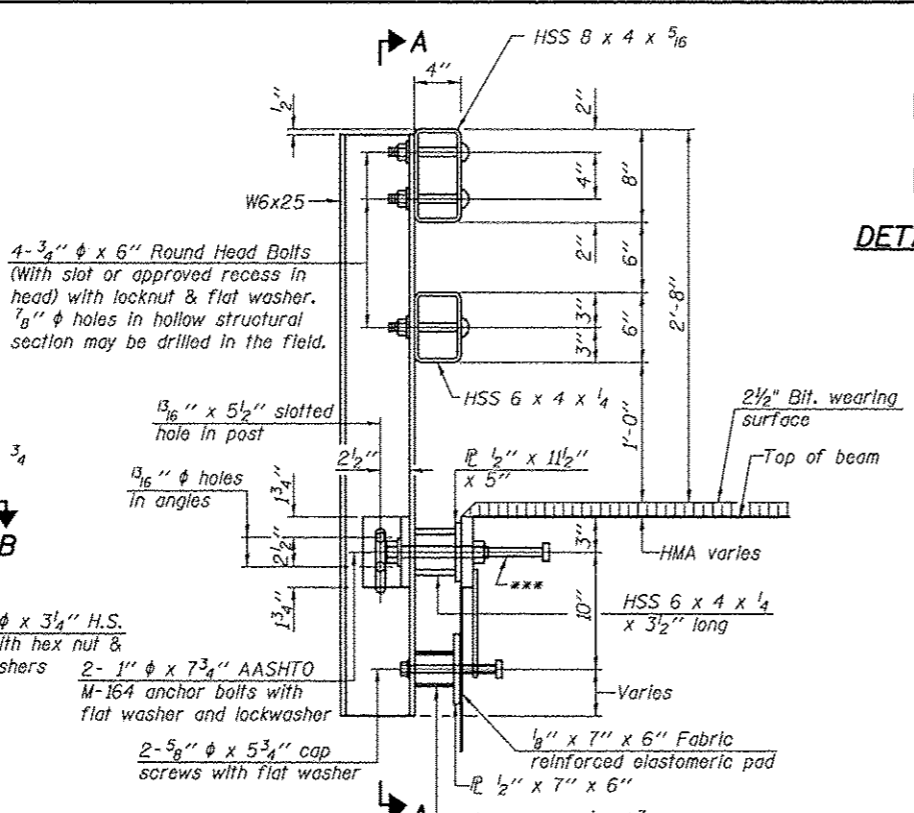
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**CENTER SPAN BEAM DETAILS**

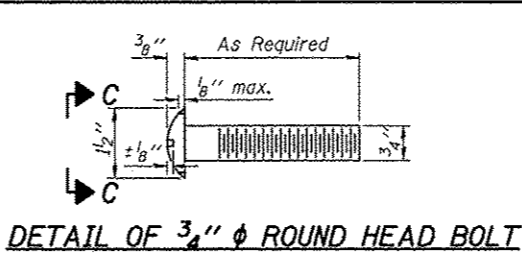
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	11
CONTRACT NO. 85611				
ILLINOIS				



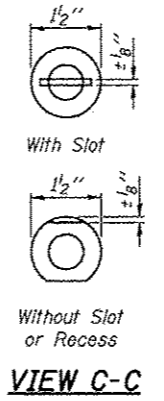
**SECTION A-A**



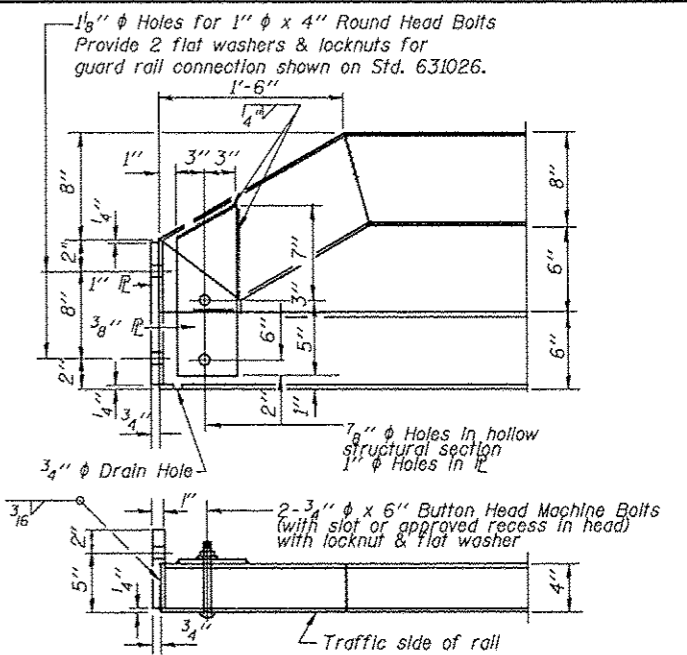
**SECTION AT RAIL POST**



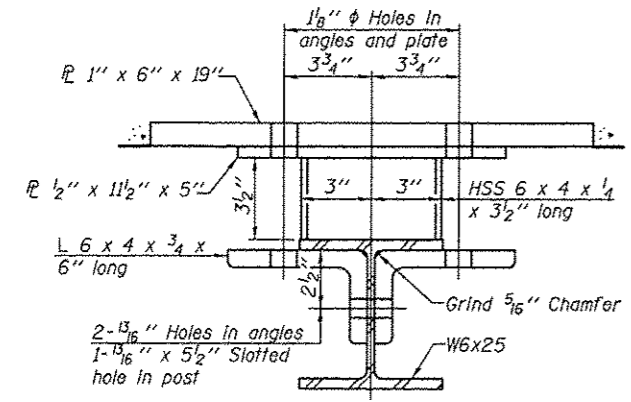
**DETAIL OF 3/4" ROUND HEAD BOLT**



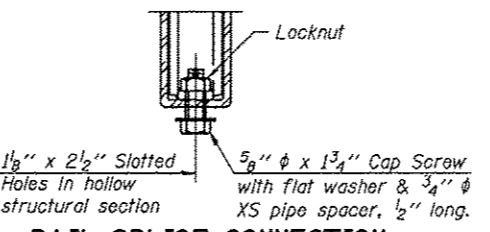
**VIEW C-C**



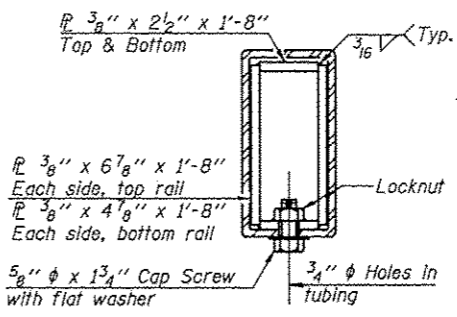
**END OF RAIL DETAILS**



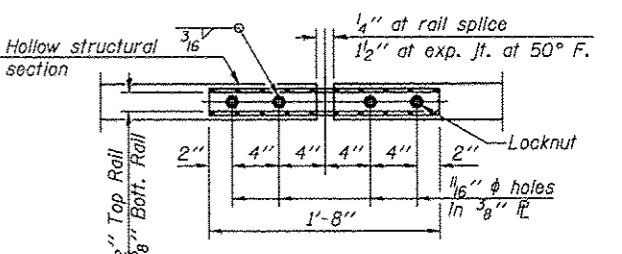
**SECTION B-B**



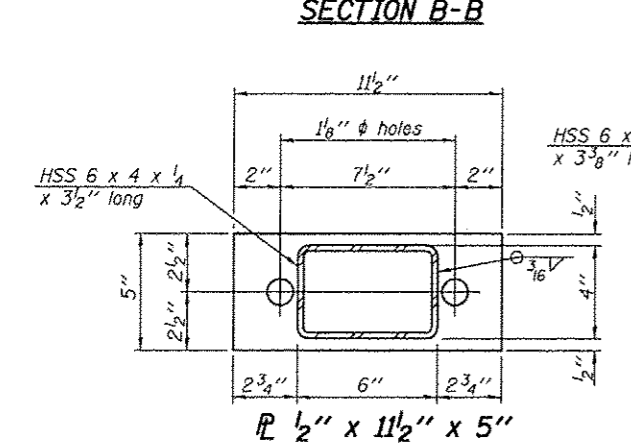
**RAIL SPLICE CONNECTION AT EXPANSION JT.**



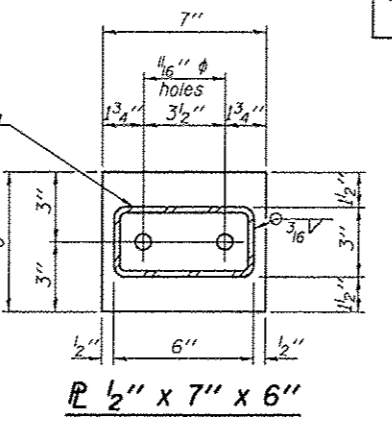
**SECTION AT RAIL SPLICE**



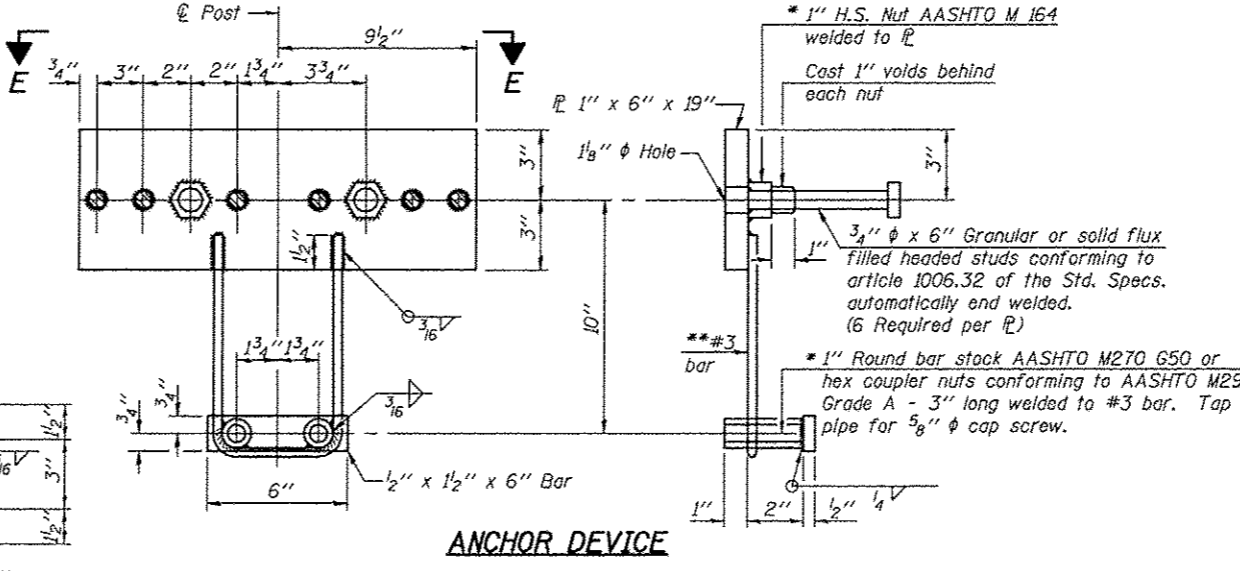
**PLAN-BOTT. SPLICE P TYPICAL**



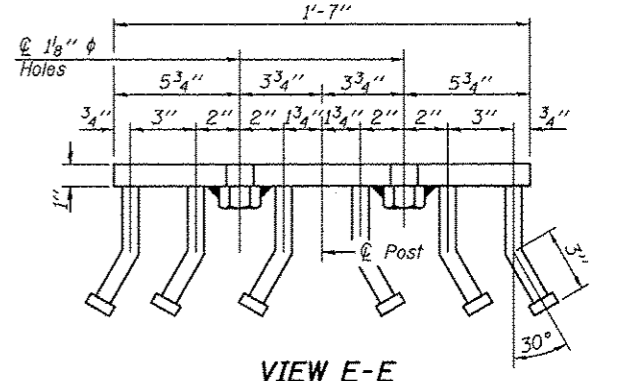
**SECTION B-B**



**SECTION B-B**



**ANCHOR DEVICE**



**VIEW E-E**

**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 SM.  
 All steel rail members 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**

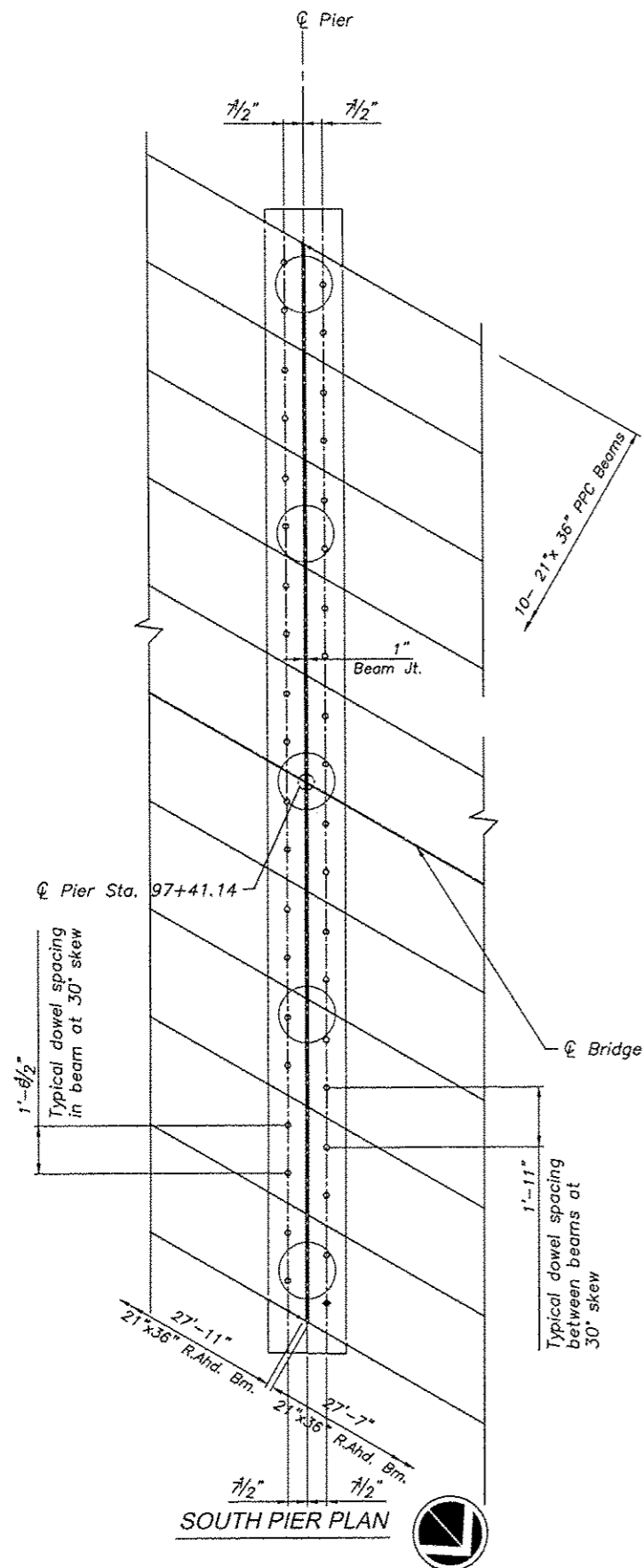
Item	Unit	Quantity
Steel Railing, Type SM	Foot	167

(6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

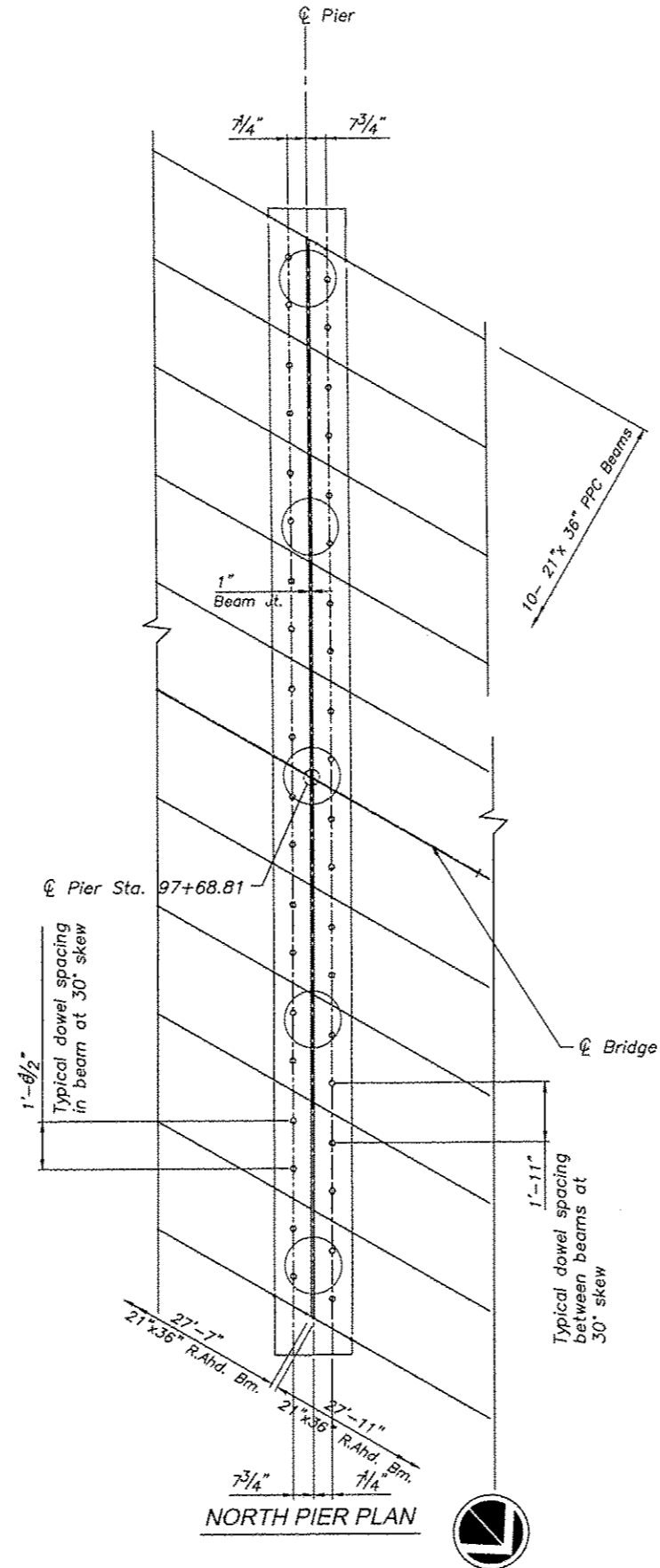
\*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

\*\* 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".

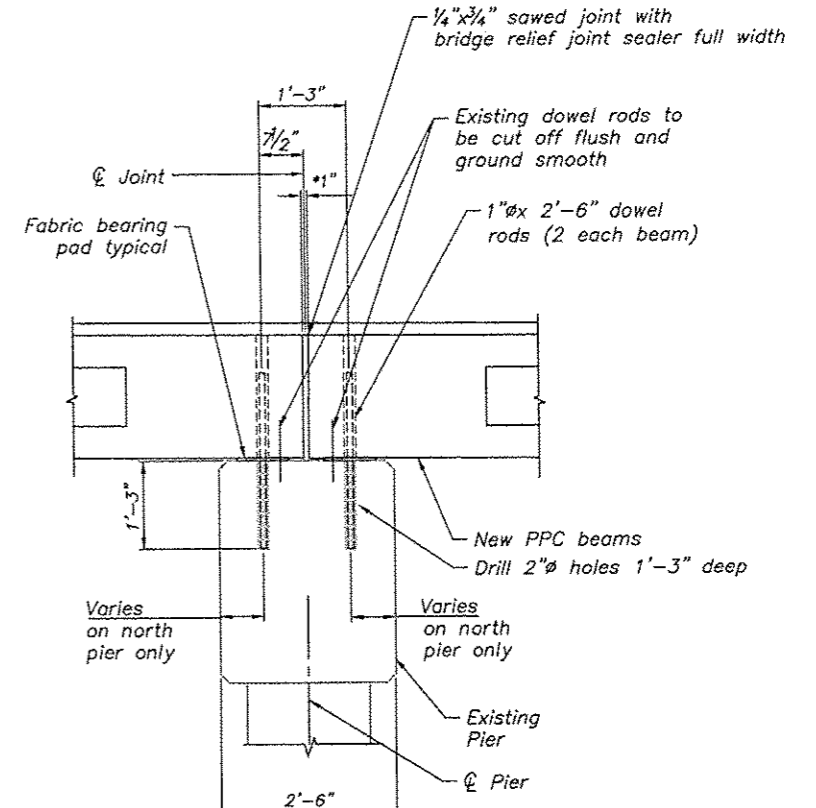
DESIGNED - MHM	REVISIONS -		STEEL RAILING, TYPE SM						
DRAWN - RAP	REVISIONS -		F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
CHECKED - JBF	REVISIONS -		5665	12-00155-00-BR	HENRY	21	12		
DATE - 4-8-14	REVISIONS -		CONTRACT NO. 85611						
PLOT DATE = 4/9/2014		Rock Island, IL (309) 786-7844		Bettendorf, IA (563) 344-6260		Rockford, IL (815) 965-6400		Sycamore, IL (815) 895-3373	



SOUTH PIER PLAN



NORTH PIER PLAN



TYPICAL PIER SECTION

\* 1" Joint shall be filled w/ non-shrink grout. 1" dimension may vary to accommodate tolerance in beam length.

DESIGNED	MHM	REVISIONS	
DRAWN	RAP	REVISIONS	
CHECKED	JBF	REVISIONS	
DATE	4-8-14	REVISIONS	
PLOT DATE	4/10/2014		

DESIGNED	MHM	REVISIONS	
DRAWN	RAP	REVISIONS	
CHECKED	JBF	REVISIONS	
DATE	4-8-14	REVISIONS	

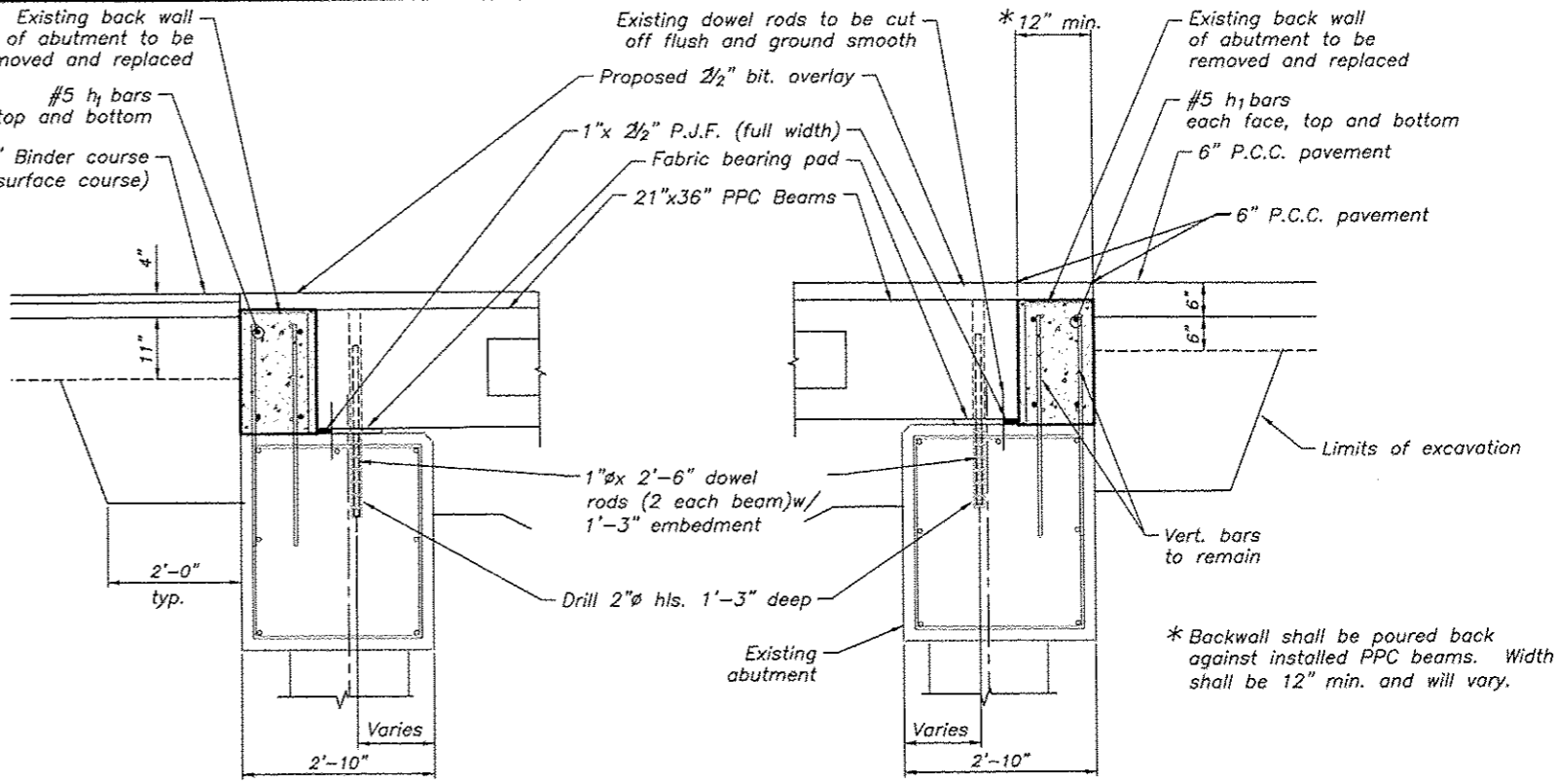
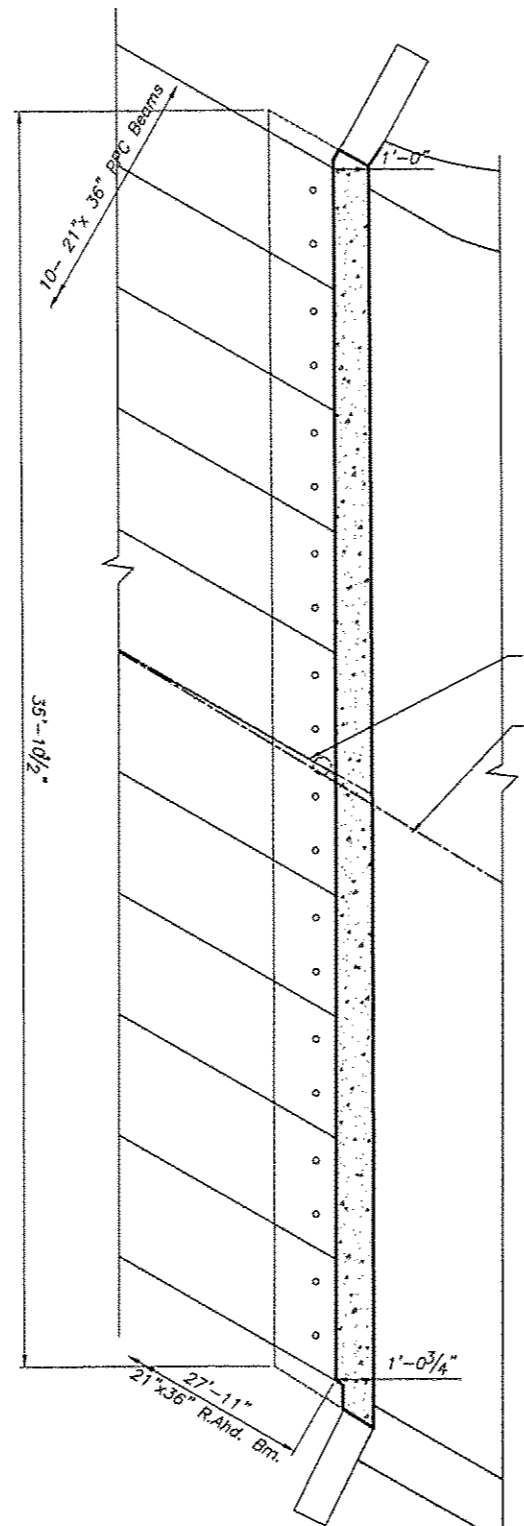
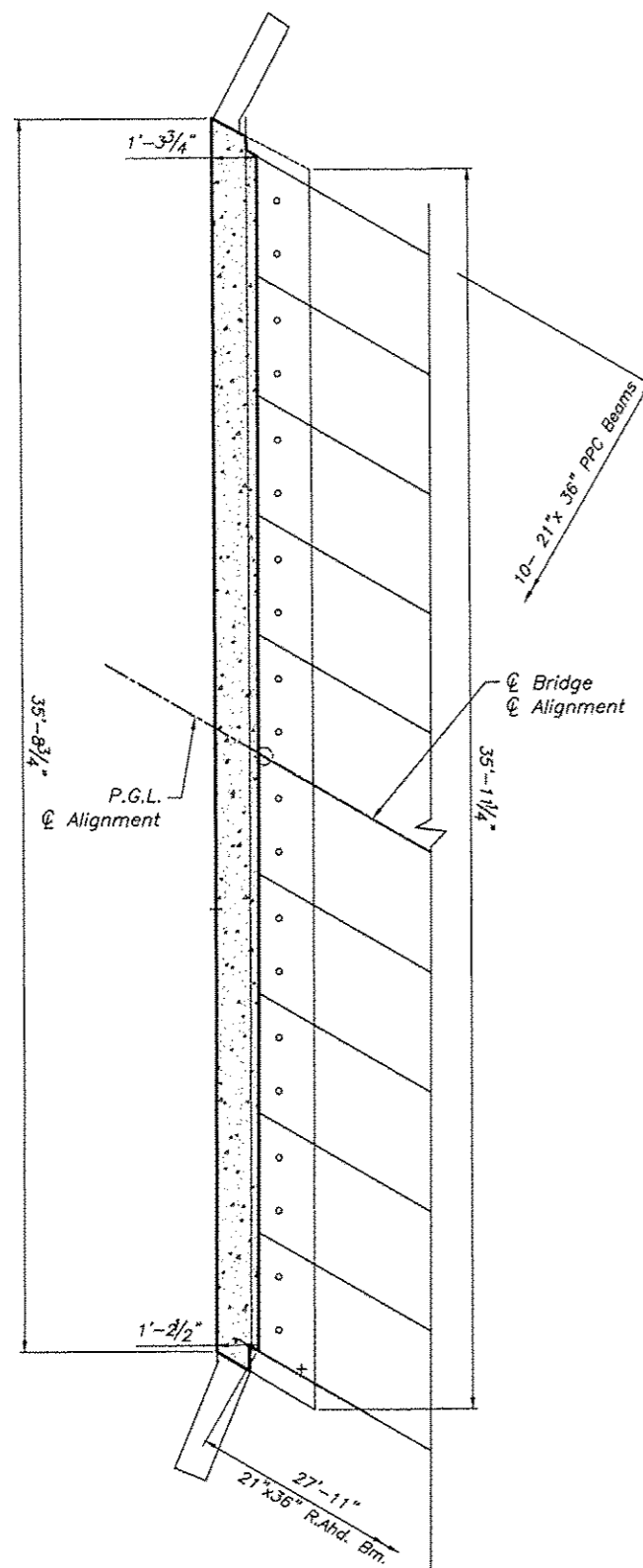
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PIER DETAILS

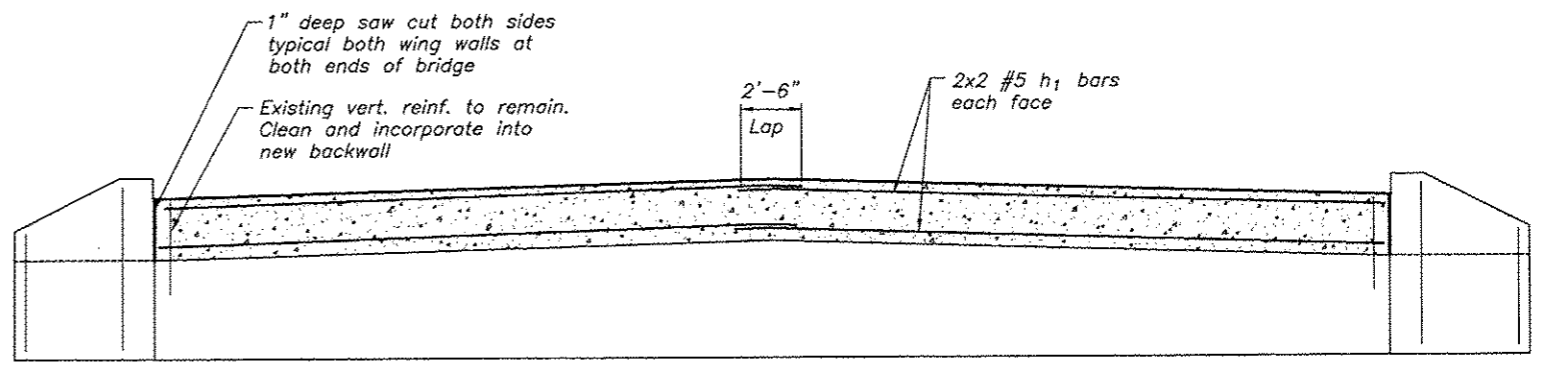
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	13
CONTRACT NO. 85611				
ILLINOIS				



SOUTH ABUT. SECTION

NORTH ABUT. SECTION

ABUTMENT BILL OF MATERIAL				
Both Abutments				
Bar	No.	Size	Length	Shape
<b>Reinforcement Bars</b>				
h1	16	#5	19'-1"	—
<b>Concrete Structures</b>			Cu. Yd.	5.4
<b>Reinforcement Bars</b>			Pound	320



TYPICAL ABUT. ELEVATION

SOUTH ABUT. PLAN

NORTH ABUT. PLAN

ABUTMENT DETAILS

DESIGNED — MHM	REVISED —
DRAWN — RAP	REVISED —
CHECKED — JBF	REVISED —
DATE — 4-8-14	REVISED —

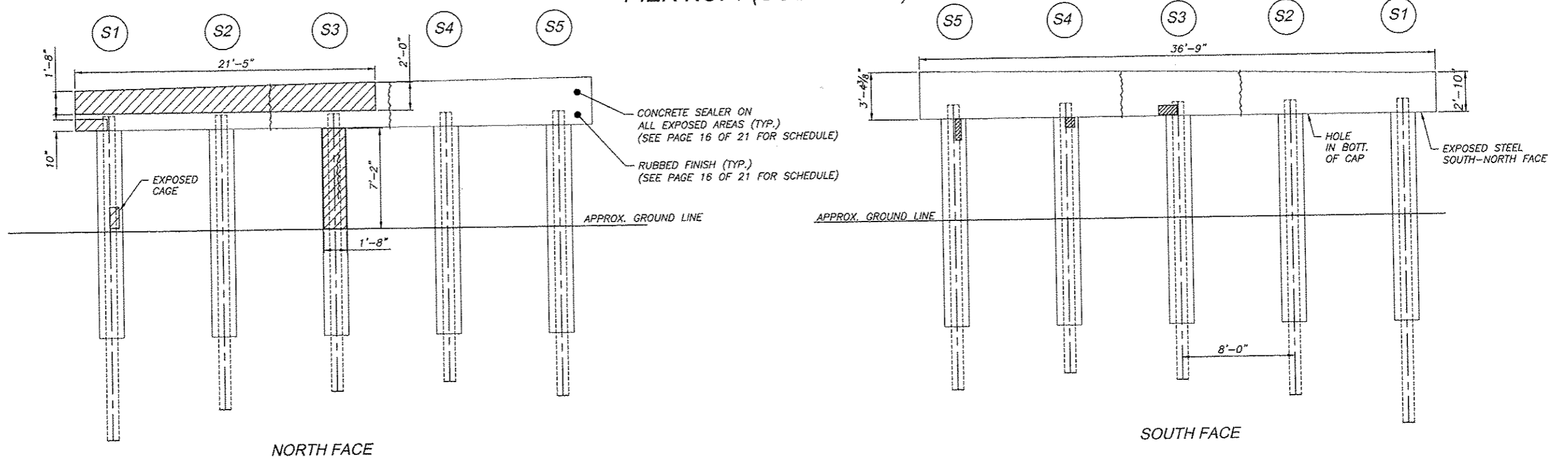
PLOT DATE = 4/10/2014

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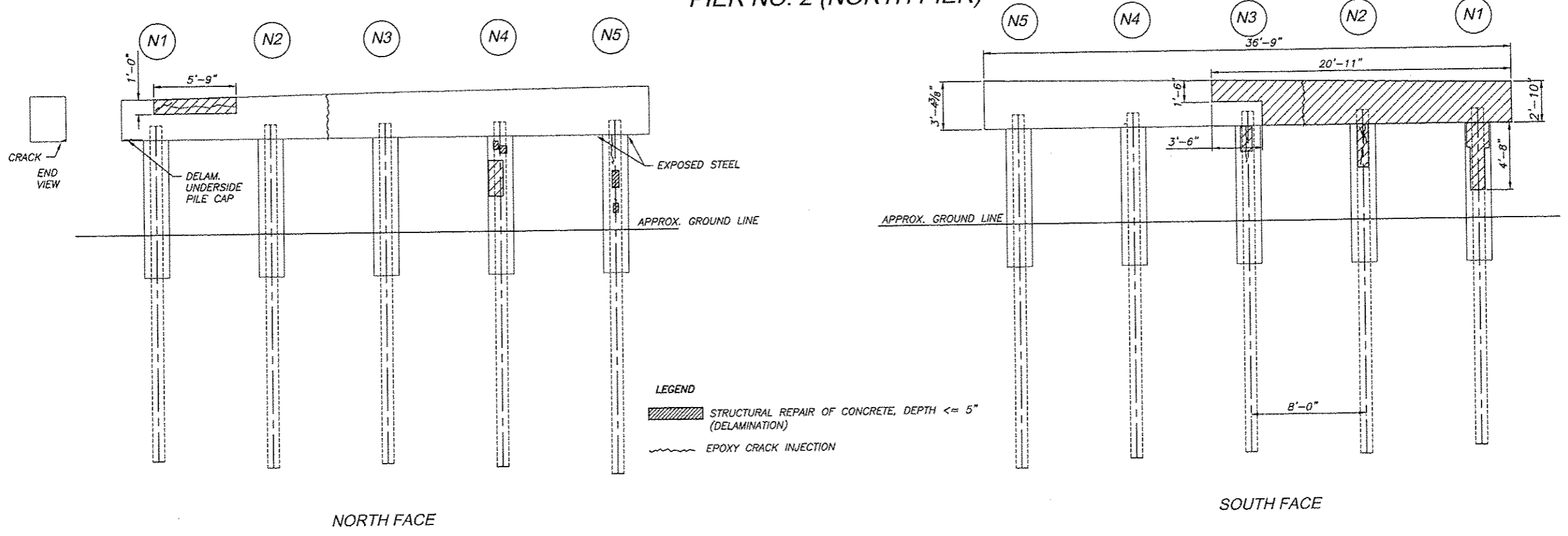
Rock Island, IL (309) 766-7644  
Bettendorf, IA (563) 344-0266  
Rockford, IL (815) 965-6100  
Sycamore, IL (815) 895-3825  
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F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	14
CONTRACT NO. B5611				
ILLINOIS				

PIER NO. 1 (SOUTH PIER)



PIER NO. 2 (NORTH PIER)



**LEGEND**  
 STRUCTURAL REPAIR OF CONCRETE, DEPTH <= 5" (DELAMINATION)  
 EPOXY CRACK INJECTION

PIER REPAIR ELEVATIONS

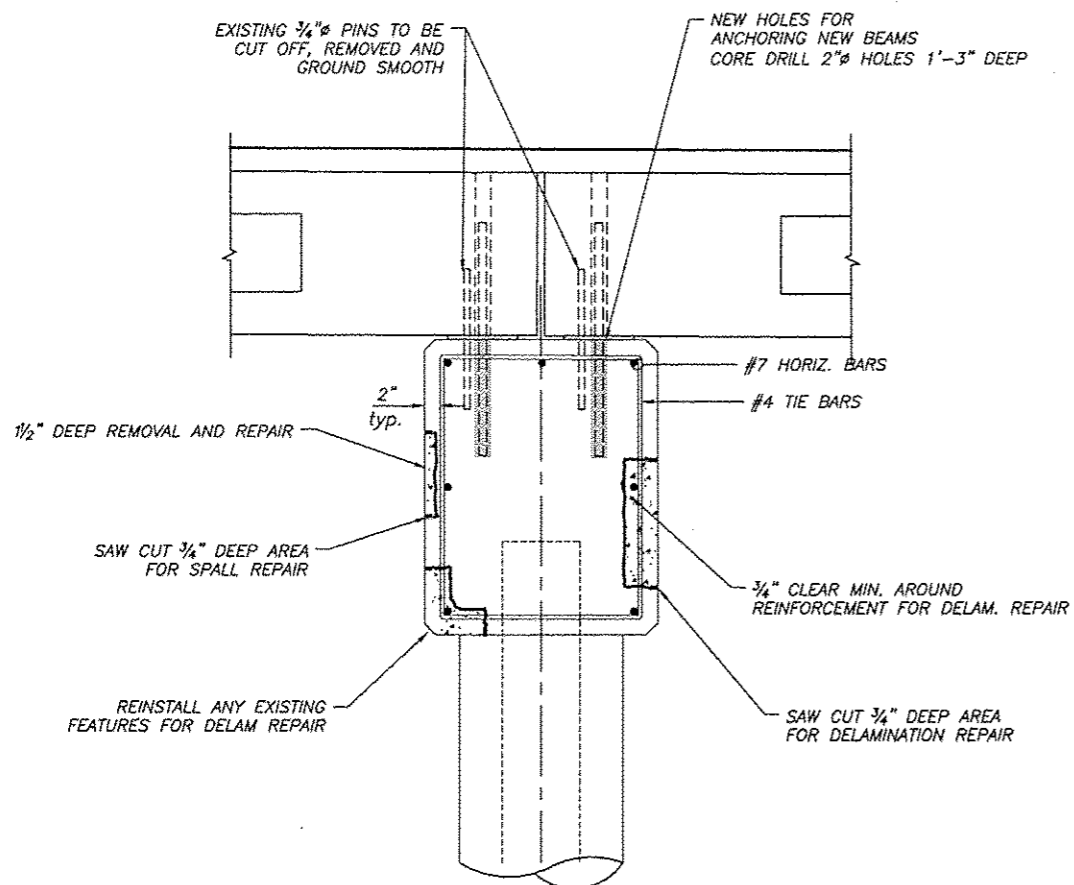
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DRAWN	— RAP	REVISED	—
CHECKED	— JBF	REVISED	—
DATE	— 4-8-14	REVISED	—
PLOT DATE = 4/9/2014			

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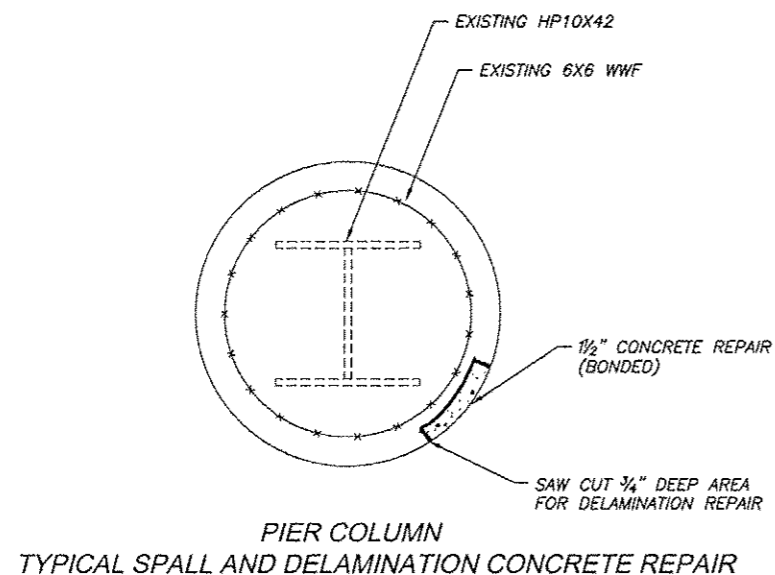
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F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	15
CONTRACT NO. 85611				
ILLINOIS				

C:\PROJECTS\12-00155-00-BR\12-00155-00-BR-15.dwg, 11:51:00 AM, 4/9/2014, 11:51:00 AM, 11



PIER TYPICAL SPALL AND DELAMINATION CONCRETE REPAIR



PIER COLUMN  
TYPICAL SPALL AND DELAMINATION CONCRETE REPAIR

LOCATION	RUBBED FINISH (NOTE 1)	CONCRETE SEALER (NOTE 2)	EPOXY CRACK INJECTION	STR REP CON DP = < 5
	SQ FT	SQ FT	FOOT	SQ FT
ABUTMENT NO. 1 [SOUTH]		116.0		0.0
PIER NO. 1 [SOUTH FACE]	110.0	110.0	10.0	1.0
PIER NO. 1 [NORTH FACE]	110.0	110.0	10.0	44.0
PIER NO. 1 [TOP]		92.0		
PIER NO. 1 [BOTTOM]	84.0			5.0
PIER NO. 1 [ENCASEMENTS]	259.0			16.0
PIER NO. 2 [SOUTH FACE]	110.0	110.0	5.0	63.0
PIER NO. 2 [NORTH FACE]	110.0	110.0	5.0	7.0
PIER NO. 2 [TOP]		92.0		
PIER NO. 2 [BOTTOM]	84.0		4.0	3.8
PIER NO. 2 [ENCASEMENTS]	141.0		11.0	15.0
ABUTMENT NO. 2 [NORTH]		116.0		

- NOTES:
1. INCLUDES EXPOSED PIER CAP FACES AND ENCASEMENTS.
  2. INCLUDES ABUTMENT AND PIER VERTICAL FACES AND TOP SEAT FACES.

DESIGNED -- MHM	REVISED --
DRAWN -- RAP	REVISED --
CHECKED -- JBF	REVISED --
DATE -- 4-8-14	REVISED --

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REPAIR DETAILS

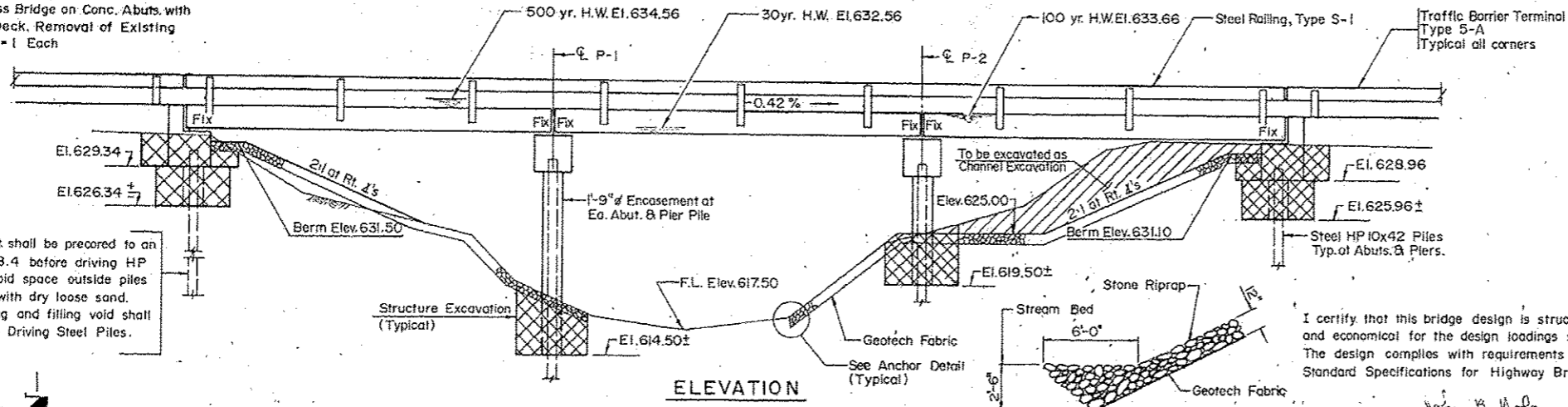
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	16
CONTRACT NO. 85611			ILLINOIS	



B.M. #2 - Nut on Fire Hydrant 30' Lt.  
98-1/16 Nut Between "E" & "L"  
in Mueller U.S.C. & G.S.  
El. 634.30.

Exist. Structure - No. 037-6000; One span  
Pony Truss Bridge on Conc. Abuts. with  
Timber Deck. Removal of Existing  
Structure = 1 Each

Holes at S. Abut. shall be precored to an  
Elevation of 618.4 before driving HP  
10x42 piles. Void space outside piles  
shall be filled with dry loose sand.  
Cost of precoring and filling void shall  
be incidental to Driving Steel Piles.

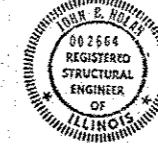


ELEVATION

STONE RIPRAP ANCHOR DETAIL

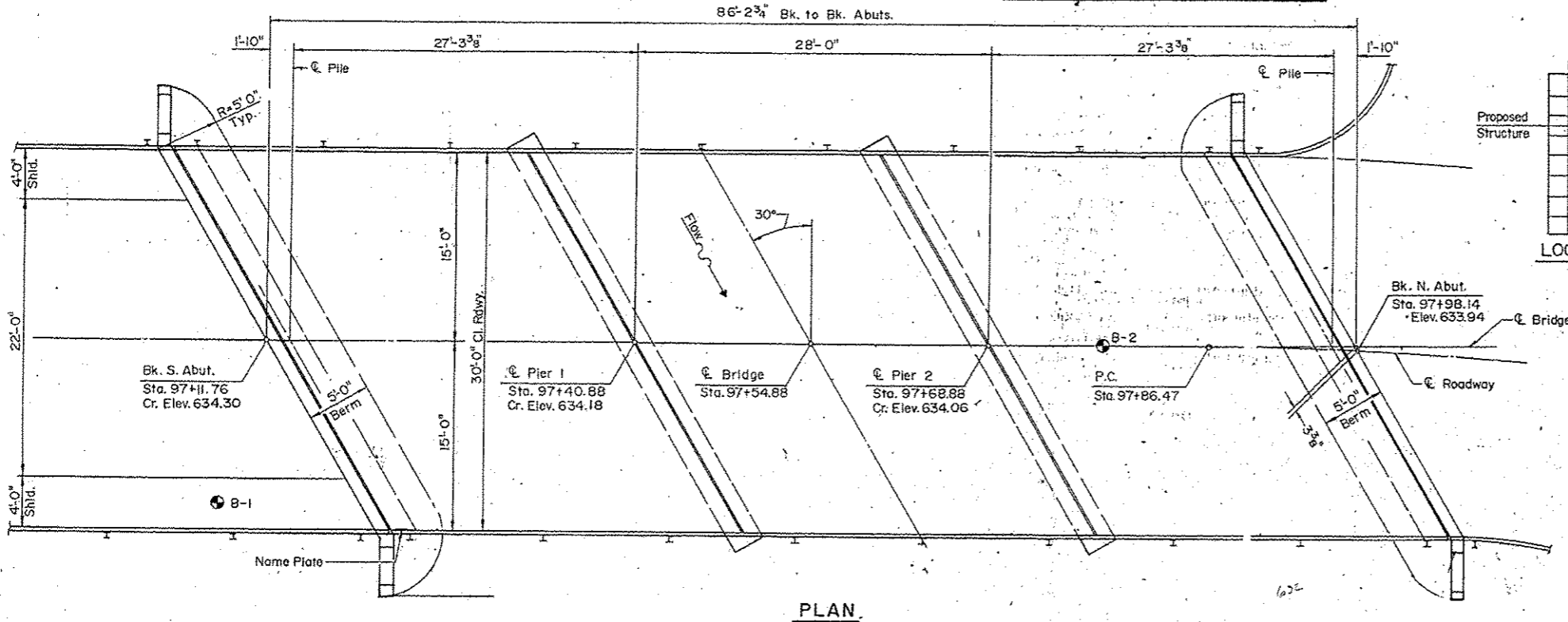
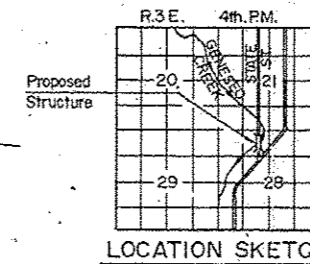
I certify that this bridge design is structurally adequate  
and economical for the design loadings shown on the plans.  
The design complies with requirements of the current AASHTO  
Standard Specifications for Highway Bridges.

Illinois Structural No. 2664



GENESEO CREEK  
BUILT 198 BY  
HENRY COUNTY  
SEC. 83-00090-00- BR  
STATE STREET STA. 97+54.88  
F.A. PROJECT BR-OS-D2 (18)  
LOADING HS 20-  
STR. NO. 037-6004

NAME PLATE  
(See Std. 2113)



PLAN

TOTAL BILL OF MATERIALS

Item	Unit	Super	Sub.	Total
Structure Excavation	Cu. Yds.		137	137
Removal of Existing Structures	Each		1	1
Class X Concrete	Cu. Yds.		91.8	91.8
Class X Concrete Encasement	Cu. Yds.		13.5	13.5
Precast Concrete Bridge Slab	Sq. Ft.	2513		2513
Steel Railing, Type S-1	Lin. Ft.	167		167
Reinforcement Bars	Lbs.		4710	4710
Furnishing Steel Piles HP10x42	Lin. Ft.		630	630
Driving Steel Piles	Lin. Ft.		630	630
Test Piles Steel HP10x42	Each		2	2
Name Plates	Each		1	1

WATERWAY DATA

Drainage Area	21.9 Sq. Mi.
Existing Opening	503 Sq. Ft.
Required Opening (30yr.)	530 Sq. Ft.
Proposed Opening (30 yr.)	530 Sq. Ft.
Design Discharge (30 yr.)	3,261 c.f.s.
Created Head (20 yr.)	30 Ft
Computed Discharge (100 yr.)	4,161 c.f.s.
Created Head (100 yr.)	0.5 Ft

PROPOSED PROFILE GRADE

(Profile Grade given to top of 2" Modified B-5 W.S. (By Others)  
For top of Concrete Deck subtract 2")



DESIGN STRESSES

Precast Unit Cast-in-place Unit  
f'c = 4500 p.s.i. f'c = 3500 p.s.i.  
f'c = 1800 p.s.i. f'y = 60,000 p.s.i. (Re-bars)  
f's = 20,000 p.s.i. n = 9.0  
n = 8

LOADING HS20-44  
DESIGN SPECIFICATIONS: 1977 AASHTO Spec's.  
1978 Thru 1983 Interim Specifications.

Dennis A. Chudaska 12/15/84  
Illinois Professional Engineer No. 39612

F.A. PROJ. BR-OS-073(24)  
STATE STREET OVER GENESEO CREEK  
GENERAL PLAN AND ELEVATION  
STATE STREET SEC. 83-00090-00-BR  
HENRY COUNTY  
STA. 97+54.88

MTA, INCORPORATED

DESIGNED D.R.B. CHECKED J.N.  
DRAWN G.S. & R.H.H. DATE 12/14/84 NO. 03703

DESIGNED - MHM	REVISED -
DRAWN - RAP	REVISED -
CHECKED - JBF	REVISED -
DATE - 4-8-14	REVISED -



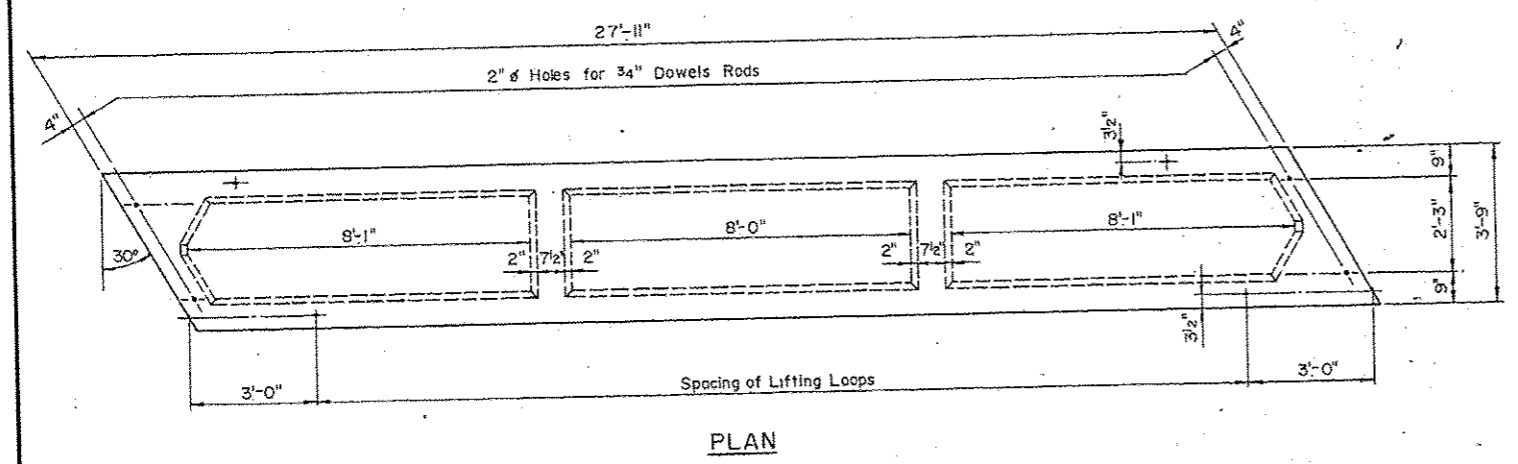
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ORIGINAL GENERAL PLAN & ELEVATION

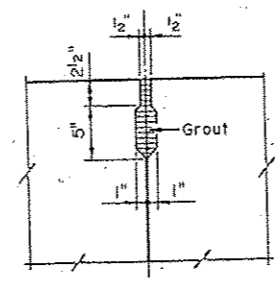
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	17
				CONTRACT NO. 85611

ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE STREET	83-00090-00-BR	HENRY	12	9
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT BR-OS-DZ-(19)		SHEET 2 OF 5	

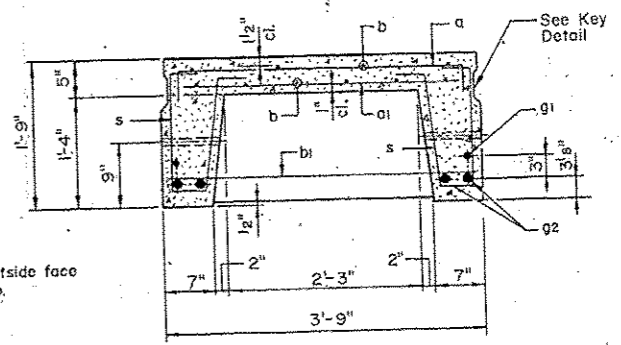


PLAN

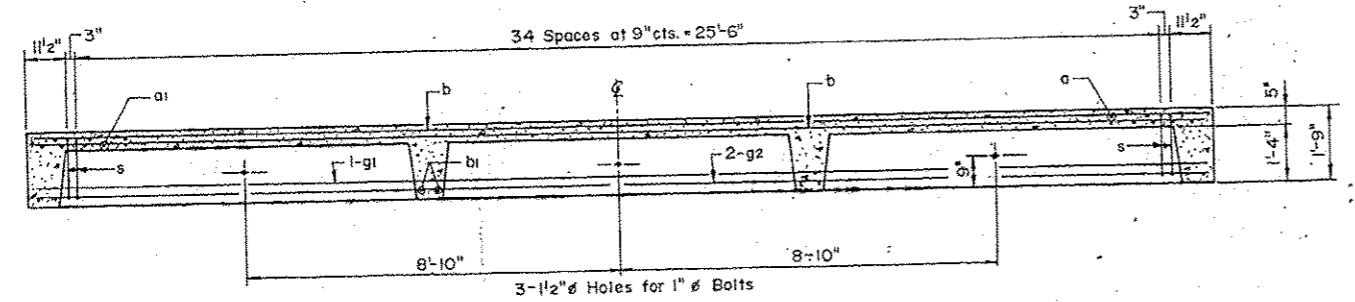


KEY DETAIL

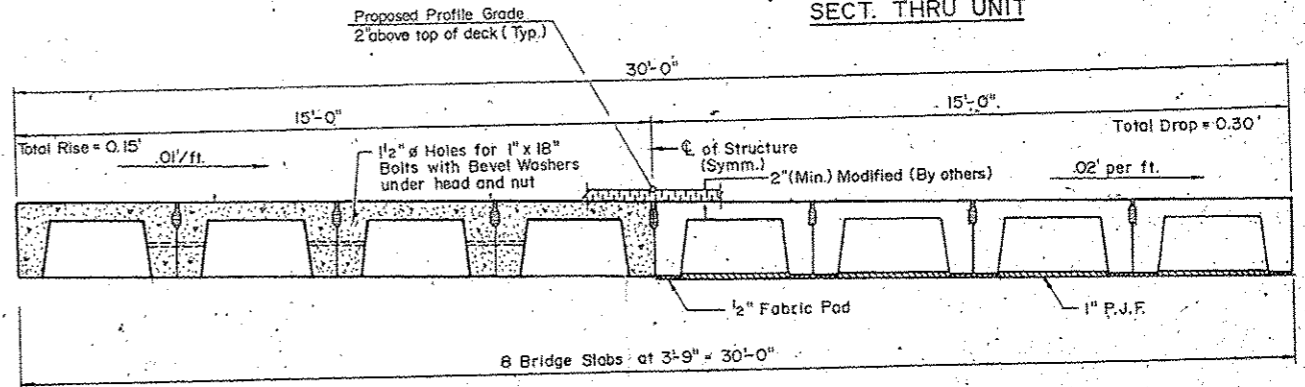
Omit key on outside face of exterior Slab.



SECT. THRU UNIT



LONGITUDINAL SECTION

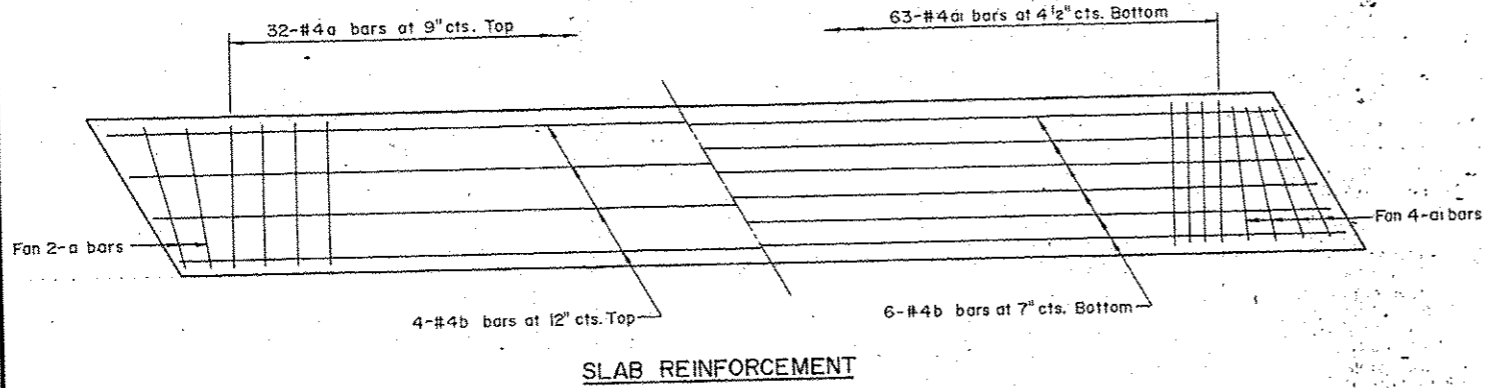


HALF SECTION (Looking Upstation)

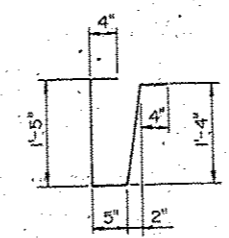
HALF END VIEW (Looking Upstation)

THREE SPANS BILL OF MATERIALS

Item	Unit	Total
Precast Concrete Bridge Slab	Sq. Ft.	2513

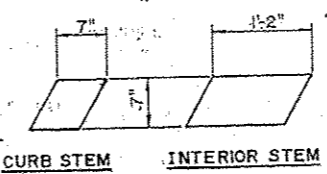


SLAB REINFORCEMENT



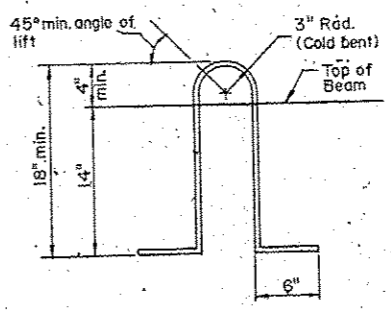
BAR s

BAR a



CURB STEM INTERIOR STEM

FABRIC BRG. PADS 1/2" Thick



DETAIL OF LIFTING LOOP

PRECAST NOTES

This work shall be done and paid for in accordance with Section 505 of the Standard Specifications effective October 1, 1983. In case of conflict these notes shall take precedence. All transverse tie assemblies (nuts, bolts and washers) shall be hot dipped galvanized in accordance with A.S.T.M. Designation A-153. Unless otherwise approved by the Engineer, lifting loops shall be 7/16" non-galvanized high strength stress relieved wire strands. Loops shall be burned off after slab/cap have been erected. Cost of reinforcement and accessories cast into slab unit, of bearing pads, furnishing, drilling for placing and grouting anchor dowels, of furnishing and assembling of 1" diameter bolts and of grouting longitudinal shear key is included in unit bid price for "Precast Concrete Bridge Slab". Tack welding of stirrups to the bottom longitudinal reinforcement bars will not be permitted except as otherwise authorized in writing by the Engineer.

DESIGN STRESSES

$f'_c = 4,500$  p.s.i.  
 $f_c = 1,800$  p.s.i.  
 $f_s = 20,000$  p.s.i.  
 $n = 8$

LOADING HS20-44

SLAB DETAIL  
 STATE STREET SEC.83-00090-00-BR  
 HENRY COUNTY  
 STA. 97+54.88

MTA, INCORPORATED  
 DESIGNED D.R.B. CHECKED J.N.  
 DRAWN C.S. R.H.H. DATE 12/14/84 NO.03703

ORIGINAL BEAM DETAILS

DESIGNED	MHM	REVISED	
DRAWN	RAP	REVISED	
CHECKED	JBF	REVISED	
DATE	4/9/2014	REVISED	

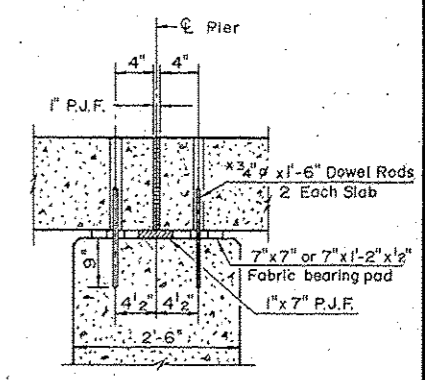
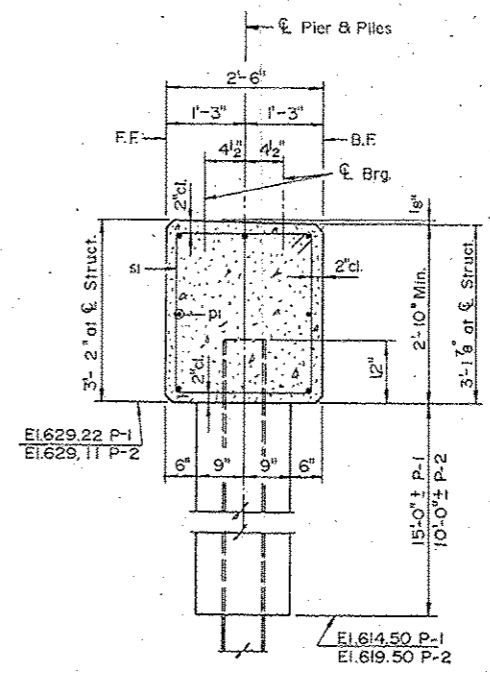
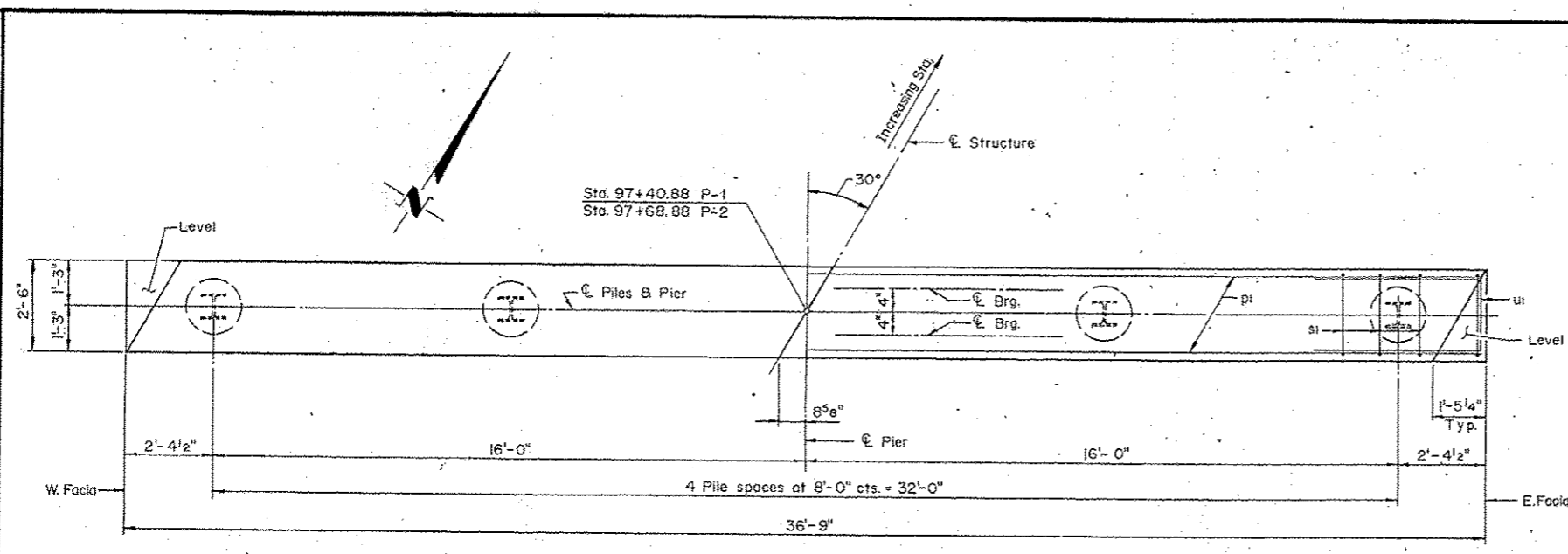
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F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	18
ILLINOIS			CONTRACT NO. 85611	



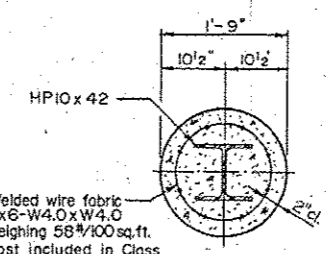
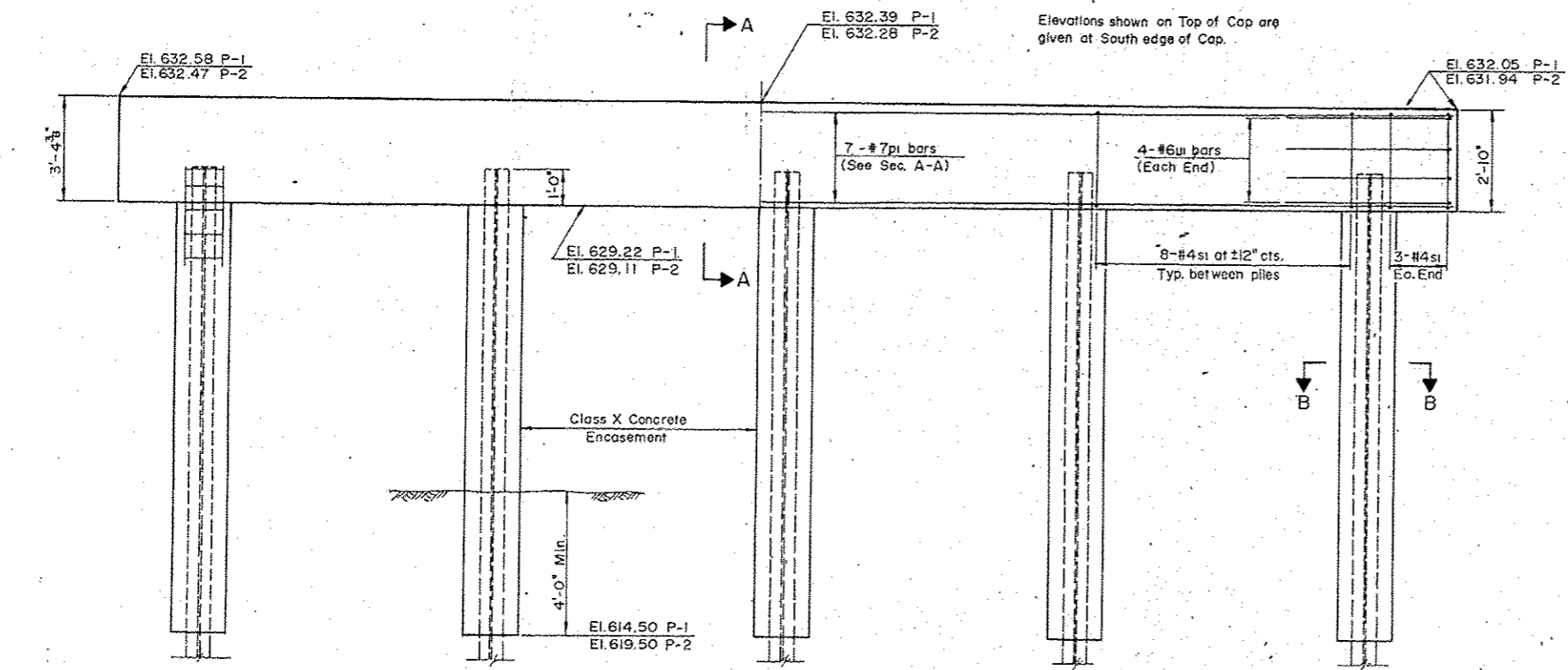


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE	STREET	HENRY	12	12
FED ROAD DIST NO 7	ILLINOIS PROJECT	BR-OS-D2 (12)	SHEET 5 OF 5	



\* Dowel rods to be grouted after Slabs are in place and allowed to cure prior to grouting the shear keys.

SEC. THRU. PIERS



**PILE DATA**

Type Steel HPI0x42

Capacity 33 Ton

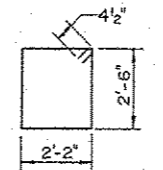
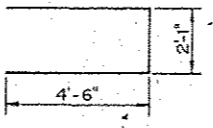
Est'd. Length 35 ft.

No. Req'd. 10 Piles (Including 1 test pile at Pier 1)

**BILL OF MATERIALS - 2 PIERS**

Bar	No.	Size	Length	Shape
pi	14	#7	36'-6"	
si	76	#4	10'-1"	
ui	16	#6	11'-1"	
Class X Concrete			Cu. Yds.	21.3
Reinforcement Bars			Lbs.	1820
Furnishing Steel Piles HPI0x42			Lin. Ft.	315
Test Pile Steel HPI0x42			Each	1
Driving Steel Piles			Lin. Ft.	315
Class X Conc. Encasement			Cu. Yds.	10.8

\*\* Including encasement for Test Pile.



**PIERS**

STATE STREET SEC.83-00090-00 BR

HENRY COUNTY

STA. 97+54.88

**MTA, INCORPORATED**

DESIGNED D.R.B. CHECKED J.N.

DRAWN R.H.H. & G.S. DATE 12/19/84 NO. 03703

DESIGNED	MHM	REVISED	
DRAWN	RAP	REVISED	
CHECKED	JBF	REVISED	
PLOT DATE	4/9/2014	DATE	4-8-14

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ORIGINAL PIER DETAILS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5665	12-00155-00-BR	HENRY	21	21
CONTRACT NO. 85611			ILLINOIS	