ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 212 HAHN ROAD	10-10117-00-BR	CLINTON	16	1

FEDERAL AID PROJECT: BROS-027 (039)
CONTRACT NO. 97464

06-17-11 LETTING ITEM 267

HIGHWAY BRIDGE REPLACEMENT & REHABILITATION PROGRAM
DETAIL PLANS FOR
PROPOSED BRIDGE

T.R. 212 (HAHN ROAD) OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY - MERIDIAN ROAD DISTRICT
PROJECT: BROS-027(039)
JOB NO: C-98-349-10

INDEX OF SHEETS

HIGHWAY STANDARDS

280001-05
515001-03
701901-01
BLR 21-8

PROJECT LOCATION

PROPOSED STRUCTURE NO. 014-4057 @ STATION 20+00
TRIPLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAMS, (21" DEPTH) ON SPILL THRU PILE BENT ABUTMENTS AND PILE BENT PIERS MEASURING 116'-10 5/8" BACK TO BACK OF ABUTMENTS WITH 27'-0" CLEAR ROADWAY WIDTH.

BEGIN CONSTRUCTION STA. 16+50
END CONSTRUCTION STA. 23+00

DESIGN CLASSIFICATION

LOCAL ROAD
CURRENT A.D.T. = 50
DESIGN SPEED = 30 MPH
DESIGN A.D.T. = 50 (2010)

UTILITIES:

CALL J.U.L.I.E. BEFORE YOU DIG
800-892-0123

ELECTRIC:

CLINTON COUNTY ELEC. COOP.
475 N. MAIN ST.
BREESE, IL. 62230
PHONE: (618) 526-7282

TELEPHONE:

FRONTIER COMMUNICATIONS
801 W. JACKSON ST.
ALTAMONT, IL. 62411
PHONE: (618)483-6205

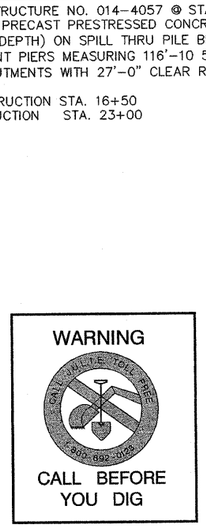
WATER:

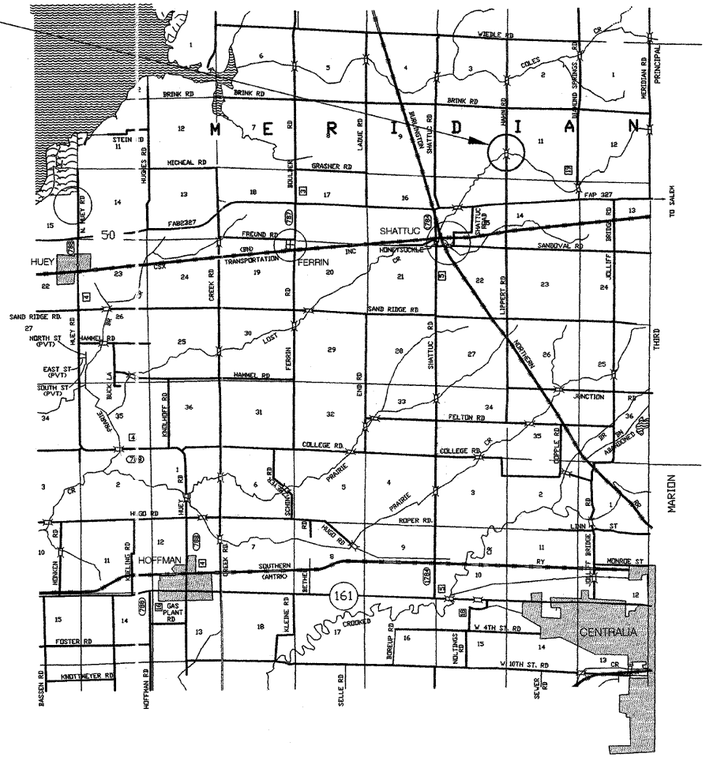
CLINTON COUNTY EAST
PUBLIC WATER
891 Fairfax, Carlyle, IL. 62231
Phone: (618)594-3367

GAS

EXXON MOBILE PIPELINE
8328 US HWY 51
PATOKA, IL. 62875
PHONE: (6180 432-7372

NATURAL GAS PIPELINE CO.
OF AMERICA
7501 HUEY ROAD
HOFFMAN, IL. 62801
PHONE: 800-733-2490





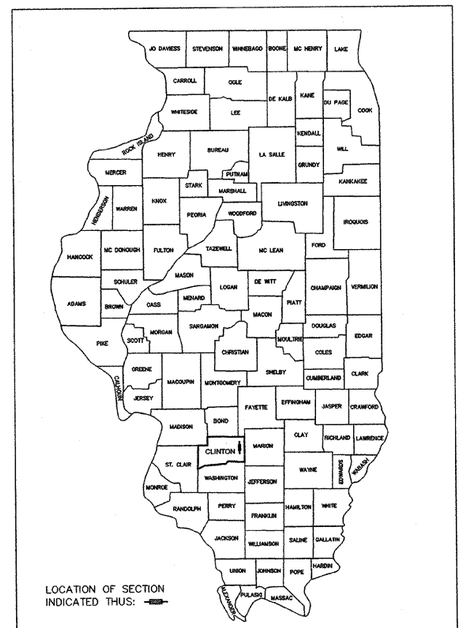
LOCATION MAP

NET LENGTH OF PROJECT = 650 FEET OR 0.123 MILES

GRAPHIC SCALE

0 1 2 4

1 INCH = 1 MILE



LOCATION OF SECTION
INDICATED THUS: -8-

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED April 4 2011
Daniel L Behrens
CLINTON COUNTY, COUNTY ENGINEER

APPROVED March 31 2011
Robert Kownacki
MERIDIAN ROAD DISTRICT HIGHWAY COMMISSIONER

PASSED April 5, 2011
DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW April 5, 2011
Mary A. Bomkamp
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

DANIEL L. BEHRENS
050860
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Daniel L Behrens DATE 4-4-11
COUNTY ENGINEER
ILLINOIS P.E. # 62-050860 EXPIRES 11/30/2011

Printed by the Authority of the State of Illinois

WRK
3/25/2011
10TR1121C0.dwg

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 212 HAHN ROAD	10-10117-00-BR	CLINTON	16	2

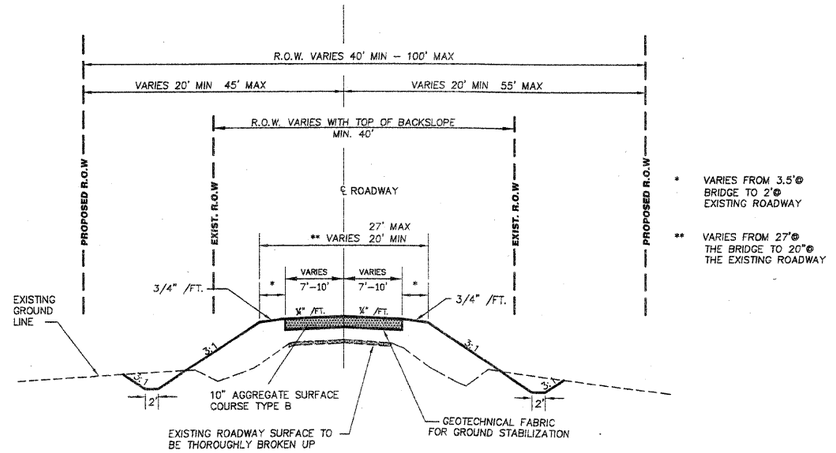
CONTRACT NO. 97464

LOCATION OF WORK

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.76
20200100	EARTH EXCAVATION	CU. YD.	476
20300100	CHANNEL EXCAVATION	CU. YD.	928
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	S.Y.	1185
28000315	AGGREGATE DITCH CHECKS	TON	24
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	198
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	800
50100100	REMOVAL OF EXISTING STRUCTURE	EACH	1
50300225	CONCRETE STRUCTURES	CU. YD.	60.4
50300280	CONCRETE ENCASEMENT	CU. YD.	19.8
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ. FT.	3115
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7040
*50900205	STEEL RAILING, TYPE S1	FOOT	234
51201400	FURNISHING STEEL PILES, HP 10X42	FOOT	252
51201610	FURNISHING STEEL PILES, HP 12X63	FOOT	252
51202305	DRIVING STEEL PILES	FOOT	504
51203400	TEST PILE STEEL HP 10X42	EACH	2
51203610	TEST PILE STEEL HP 12X63	EACH	2
51500100	NAME PLATES	EACH	1
67100100	MOBILIZATION	L. SUM	1

* SPECIALTY ITEMS



* VARIES FROM 3.5'@ BRIDGE TO 2'@ EXISTING ROADWAY

** VARIES FROM 27'@ THE BRIDGE TO 20'@ THE EXISTING ROADWAY

STATION 16+50 TO STATION 23+00
PROPOSED ROADWAY TYPICAL SECTION

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (–)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA.16+50 TO STA. 23+00	476	357	1016	–659
ALLOWANCE FOR CHANNEL EXCAVATION	928	696	0	+696
TOTAL	1404	1053	1016	+37

PAY ITEMS

EARTH EXCAVATION = 476 C.Y.
CHANNEL EXCAVATION = 928 C.Y.

EARTHWORK TABLE IS INCLUDED FOR INFORMATION ONLY:

CONTRACTOR SHALL PLACE SUITABLE CHANNEL EXCAVATION MATERIAL ON SLOPES AS DIRECTED BY ENGINEER. ALL OTHER UNSUITABLE CHANNEL EXCAVATION MATERIAL SHALL BE DISPOSED OF AS PER ARTICLE 202.03 AT NO ADDITIONAL COST. THIS EARTHWORK TABLE INFORMATION IS BASED ON A 25% SHRINKAGE FACTOR OF MATERIAL. THERE WILL BE NO ADDITIONAL COMPENSATION ALLOWED TO THE CONTRACTOR IF THE ACTUAL SHRINKAGE FACTOR IS LESS THAN THE ASSUMED 25% AND IS REQUIRED TO PLACE SUITABLE EXCAVATED MATERIAL TO OTHER EMBANKMENT LOCATIONS THROUGHOUT THE LIMITS OF THE PROJECT OR IS REQUIRED TO REMOVE AND DISPOSE OF THE MATERIAL OFF OF THE PROJECT SITE.

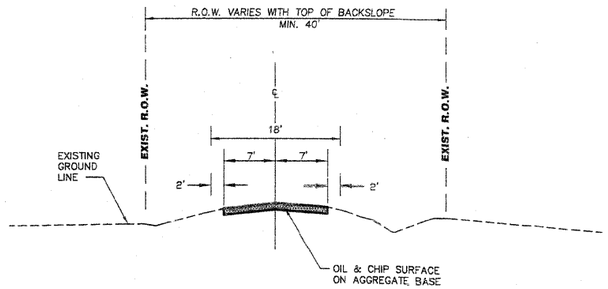
EXTRA BARS FOR TEST SAMPLES

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
h (E)	1	#4	7'-11"	———
u (E)	1	#6	11'-1"	⊏—⊐
p (E)	1	#7	32'-8"	———
p1 (E)	1	#8	33'-3"	———

GENERAL NOTES

1. ALL ELEVATION REFER TO U.S.G.S. MEAN SEA LEVEL
2. UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY ON HIS OPERATIONS ACCORDINGLY.
3. ALL FENCE REMOVAL, TEMPORARY SEEDING AND FINAL SEEDING OF DISTURBED AREAS WILL BE DONE BY OTHERS.
4. 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 BORDER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.



EXISTING ROADWAY TYPICAL SECTION

TREE REMOVAL, ACRES

LOCATION	ACRES
STA. 16+50 TO STA 20+50 LT	0.36
STA. 18+30 TO STA 21+85 LT	0.40
TOTAL	0.76

GENERAL NOTES
SUMMARY OF QUANTITIES
TYPICAL ROADWAY CROSS SECTIONS

T.R.212 (HAHN ROAD)
OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY

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5/3/2016
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 212 HAHN ROAD	10-10117-00-BR	CLINTON	16	3

CONTRACT NO. 97464

GRAPHIC SCALE

0 30 60

(IN FEET)

1 inch = 30 ft.

BENCHMARK 1: STA. 19+62.16, 16.64' RT. CHISELED SQUARE IN TOP OF WINGWALL ELEV. = 474.44

BENCHMARK 2: STA. 21+30.12, 18.96' LT. CHISELED SQUARE IN TOP OF HEADWALL ELEV. = 470.87

AGGREGATE DITCH CHECK ALL 4 CORNERS OF BRIDGE

JAMES P. & JOYCE JENSEN MID. PT. S.E. 1/4, SEC. 11O T.2N., R.1W.

LOST CREEK

Pipe Culvert TYPE 1 RCCP & End Sections (By Others)
30" ø X 32 LIN. FT. @ 1.6%
U.S. F.L. ELEV. 468.44 @ Sta. 21+56, 26.2' LT.
D.S. F.L. ELEV. 467.93 @ Sta. 21+24, 29.3' LT.

PROPOSED R.O.W. & CONSTRUCTION LIMITS

BEGIN CONSTRUCTION STA. 16+50

STA. 16+50 20' LT.

STA. 18+50 45' LT.

30° SKEW

STA. 21+00 45' LT.

Existing 24"ø RCP To Be Removed

℄ HAHN ROAD

STA. 23+00 25' LT.

STA. 23+00 20' LT.

END CONSTRUCTION STA. 23+00

120' TRANS.

EXISTING R.O.W.

15+26.70 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

30:1

EXIST. 24"ø RCP

PROP. 30"ø RCP

12'

LEGEND

- = POWER POLE
- = PROPOSED R.O.W. & CONSTRUCTION LIMITS
- = EXISTING ROW LINE
- = PHONE LINE
- = SHOULDER
- = TREE LINE
- = FLOWLINE DITCH
- = TEMPORARY DITCH CHECK

STA. 16+90.33 20' RT.

STA. 16+90.17 25' RT.

PHONE LINE

ROY SCHLICHTMAN PT. W.1/2, S.W. 1/4, SEC. 11 T.2N., R.1W.

ROSEMARY TOMLJENOVIC & JOAN LICKLIDER PT. W.1/2, S.W. 1/4, SEC. 11 T.2N., R.1W.

STA. 19+50 55' RT.

OUTLINE OF EXISTING STRUCTURE

STA. 21+50 45' RT.

STA. 23+00 20' RT.

PLAN
DATE
BY
SURVEYED
PLOTTED
QUANTITY CHECKED
R/T. OF WAY CHECKED
NOTE BOOK
NO.

PROFILE
DATE
BY
SURVEYED
PLOTTED
QUANTITY CHECKED
B.M.'s NOTED
NOTE BOOK
NO.
STRUCTURE NO(S).(S) CHKD

490 485 480 475 470 465 460

180.00' VC
K = 40.26

100.00' VC
K = 65.73

116'-10 5/8" BK/BK ABUTS.

90.00' VC
K = 39.59

115.00' VC
K = 38.64

BVCS: 16+50
BVCE: 474.77

PI STA. 17+40
ELEV. 472.12

EVCS: 18+30
EVCE: 473.49

PI STA. 18+80
ELEV. 474.25

EVCS: 19+30
EVCE: 474.25

BVCS: 20+70
BVCE: 474.25

PI STA. 20+70
ELEV. 474.25

EVCS: 21+80
EVCE: 473.33

PI STA. 22+17.50
ELEV. 471.92

EVCS: 22+75
EVCE: 472.32

-2.95%

+1.52%

0.00%

-2.27%

0.70%

PROPOSED PROFILE GRADE

EXISTING PROFILE GRADE

LT. DITCH

S.P. DITCH LT. @ 4.0%

S.P. DITCH RT. @ 5.1%

RT. DITCH

S.P. DITCH LT @ 1.0%

S.P. DITCH RT. @ 1.6%

15 YR DHW EL. 471.3

100 YR HWE EL. 472.5

S.P. DITCH LT. @ 1.0%

S.P. DITCH RT. @ 1.6%

S.P. DITCH LT. @ 1.6%

STREAMBED EL. 459.8

	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00
	476.2	473.3	472.2	471.6	471.7	472.6	474.3	460.5	474.8	473.3	472.0	471.8	472.1	472.5	472.9
	LT 473.20	LT 471.20	LT 469.20	LT 467.20	LT 466.70	LT 466.20	LT 465.70	LT 467.10	LT 467.60	LT 468.40	LT 469.20	LT 470.00	LT 470.80
	474.7 474.77	473.61 RT 472.60	473.07 RT 470.05	473.14 RT 467.50	473.76 RT 466.70	474.18 RT 465.90	474.25 RT 465.10	474.25 RT 466.50	474.25 RT 467.40	474.14 RT 468.20	473.44 RT 469.00	472.52 RT 469.80	472.3 RT 470.60	472.50	474.25

PLAN & PROFILE
EXISTING AND PROPOSED ROADWAY
T.R. 212 OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY

WRK
3/23/2011
10tr1121PP.dwc

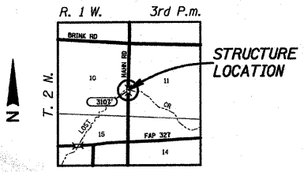
BENCHMARK: Chiseled Square in Top of Wingwall
Sta. 19+62.16, 16.64' Rt.
El. 474.44

EXISTING STRUCTURE S.N. 014-3107

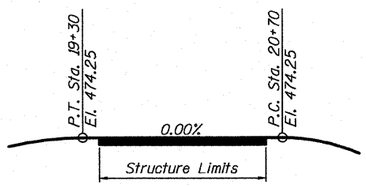
The existing structure consists of a single span bridge with 6" concrete deck and overlay supported on steel beams on closed concrete abutments.
The structure measures 62.0' back to back of abutments and 18.0' out to out of bridge deck.

The Contractor shall remove and dispose of the existing structure in accordance with Section 501 of the Standard Specifications.

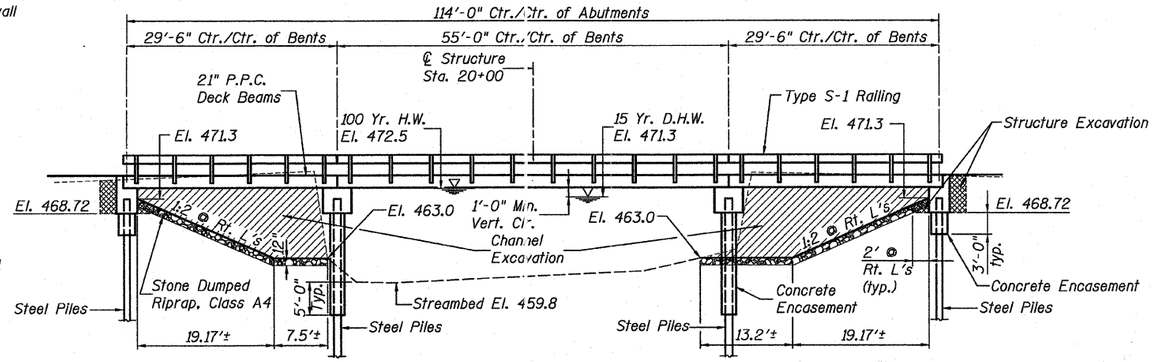
SALVAGE: No Salvage



LOCATION SKETCH

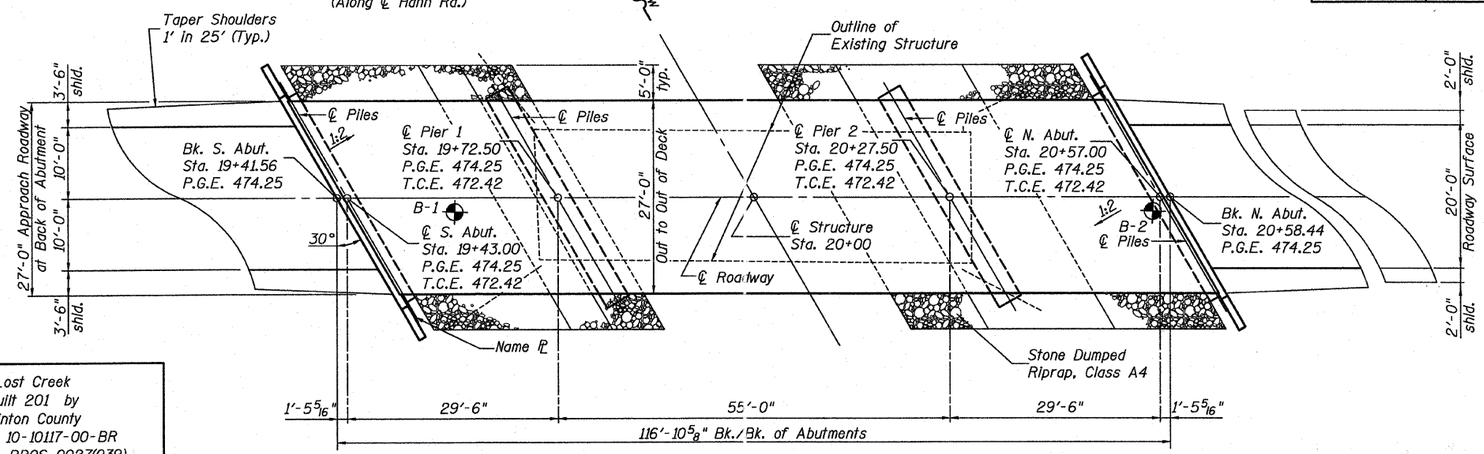


PROFILE GRADE
(Along ℄ Hahn Rd.)



ELEVATION

Note:
Channel excavation shall be transitioned from the edge of the proposed deck to match the existing channel at the R.O.W. line.



PLAN N

T.C.E. = Top of Cap Elevation

Lost Creek
Built 201 by
Clinton County
Section 10-10117-00-BR
Proj. No. BROS-0027(039)
Station 20+00
S.N. 014-4057 Loading HL-93

NAME PLATE
(See Std. 515001)
Locate Name Plate as shown in Plan View.

"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 current 'AASHTO LRFD Bridge Design Specifications' including seismic design."

Bradley G. Hummert Date: 3/29/2011
Bradley G. Hummert
Licensed Structural Engineer
in Illinois No. 081-005428 Expires: November 30, 2012

BRADLEY G. HUMMERT 081-005428 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS CARLYLE, IL

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2009 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

PRECAST UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f'c = 270,000 psi (½"ϕ Strands)
f'ci = 201,960 psi (½"ϕ Strands)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.262 g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.612 g
Soil Site Class = D

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
5. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production location at substructures specified or approved by the Engineer before ordering remaining piles.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation	S. Abut.	Pier 1	Pier 2	N. Abut.
(Feet)	465.72	454.8	454.8	465.72

WATERWAY INFORMATION

Drainage Area = 13.3 Sq. Mi. Low Grade El. = 472.23 ℄ Sta. 22+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	15	2,370	572	748	471.3	0.2	0.1	471.5	471.4
Base	100	3,790	600	860	472.5	0.4	0.4	472.9	472.9
Overtopping	50	3,250	600	823	472.1	0.4	0.2	472.5	472.3
Max. Calc.	500	N/A							

INDEX OF BRIDGE SHEETS

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER.	SUB.	Total
Channel Excavation	Cu. Yd.	———	———	928
Stone Dumped Riprap, Class A4	Ton	———	———	198
Removal of Existing Structures	Each	———	———	1
Concrete Structures	Cu. Yd.	———	60.4	60.4
Concrete Encasement	Cu. Yd.	———	19.8	19.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3,115	———	3,115
Reinforcement Bars, Epoxy Coated	Pound	———	6,860	6,860
Steel Railing, Type S-1	Foot	234	———	234
Furnishing Steel Piles HP 10x42	Foot	———	252	252
Furnishing Steel Piles HP 12x63	Foot	———	268	268
Driving Steel Piles	Foot	———	520	520
Test Piles Steel HP 10x42	Each	———	2	2
Test Piles Steel HP 12x63	Each	———	2	2
Name Plates	Each	———	———	1

GENERAL PLAN & ELEVATION
T.R. 212 (HAHN ROAD) OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY
STATION 20+00
STRUCTURE NO. 014-4057

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		CHECKED - L.D.G.	REVISED -	
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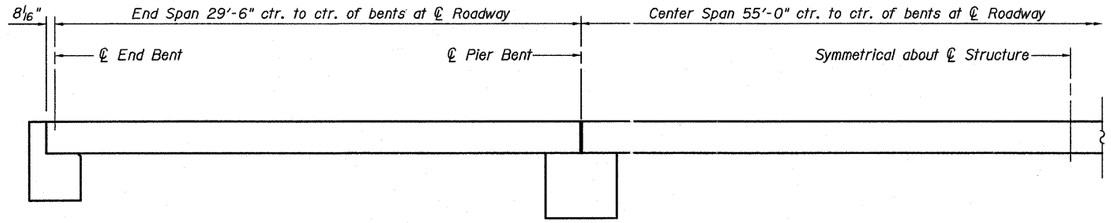
	PLOT DATE = 3/30/2011	CHECKED - B.G.H.	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

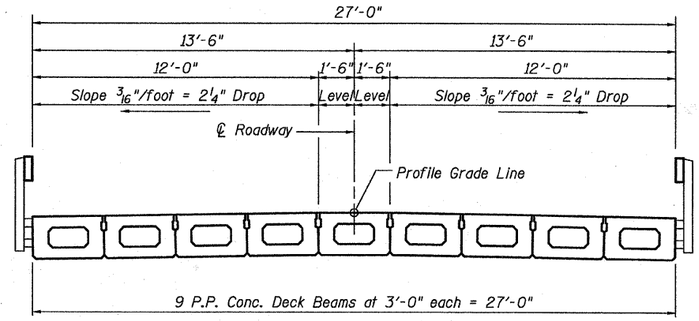
GENERAL PLAN & ELEVATION
SHEET NO. 1 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	4
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

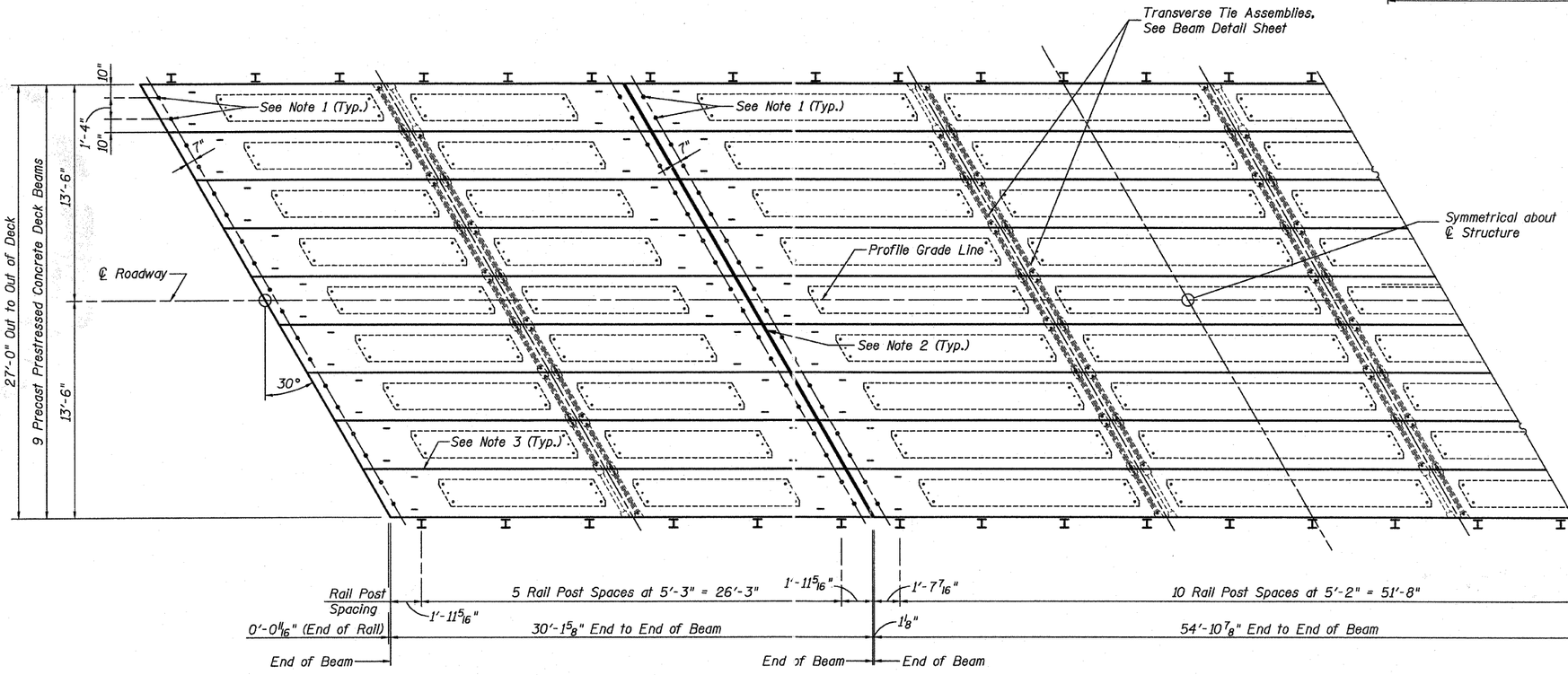
H.M.G. NO. 6466



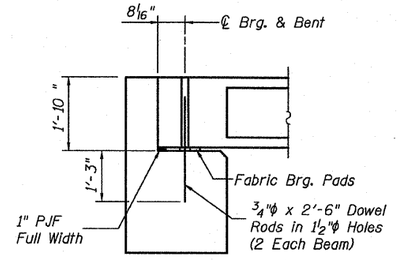
TYPICAL ELEVATION



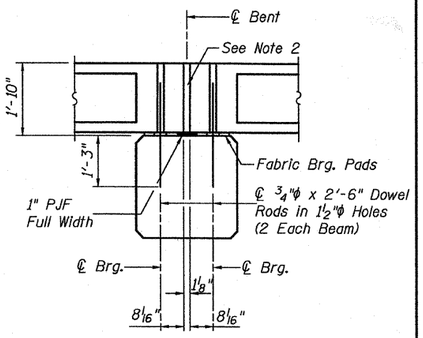
CROSS SECTION



PLAN N



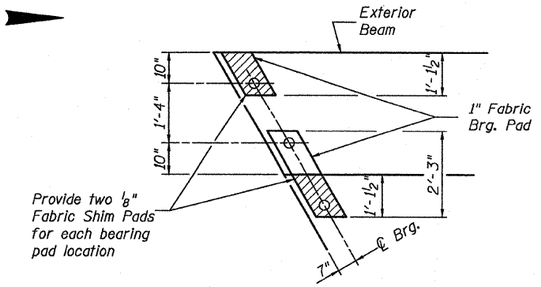
SECTION AT ABUTS.
(Along ℄ Beams)



SECTION AT PIERS
(Along ℄ Beams)

NOTES

1. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
2. Nominal 1" joint at ℄ Pier shall be filled with non-shrink grout.
3. Longitudinal keys shall be grouted.



1" FABRIC BRG. PAD DETAILS

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		CHECKED - L.D.G.	REVISED -
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	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

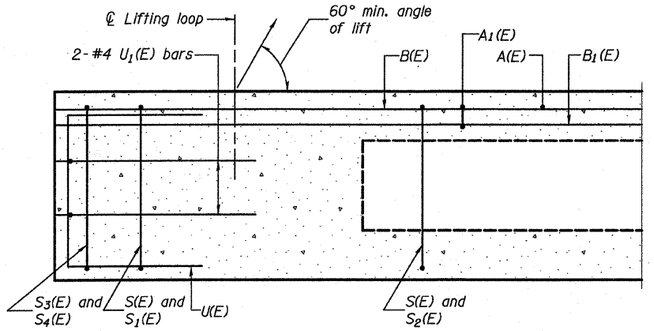
P.P.C. DECK BEAM SUPERSTRUCTURE

SHEET NO. 2 OF 10 SHEETS

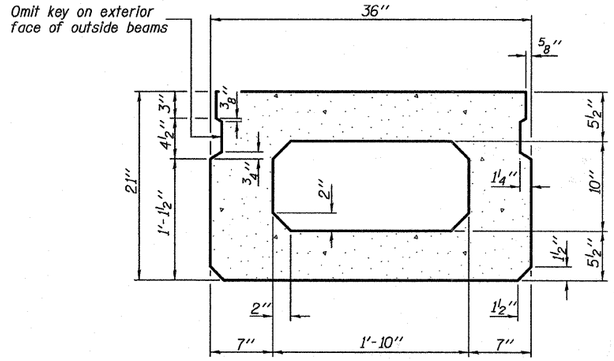
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	5
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

H.M.G. NO. 6466

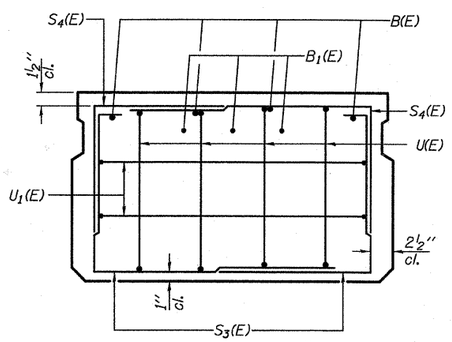
HENRY MEYER HUEMER & GENDE, INC. LAKE ROAD, P.O. BOX 70 CARLYLE, ILL. 62231 (618) 594-3711 WWW.HMGENGINEERS.COM



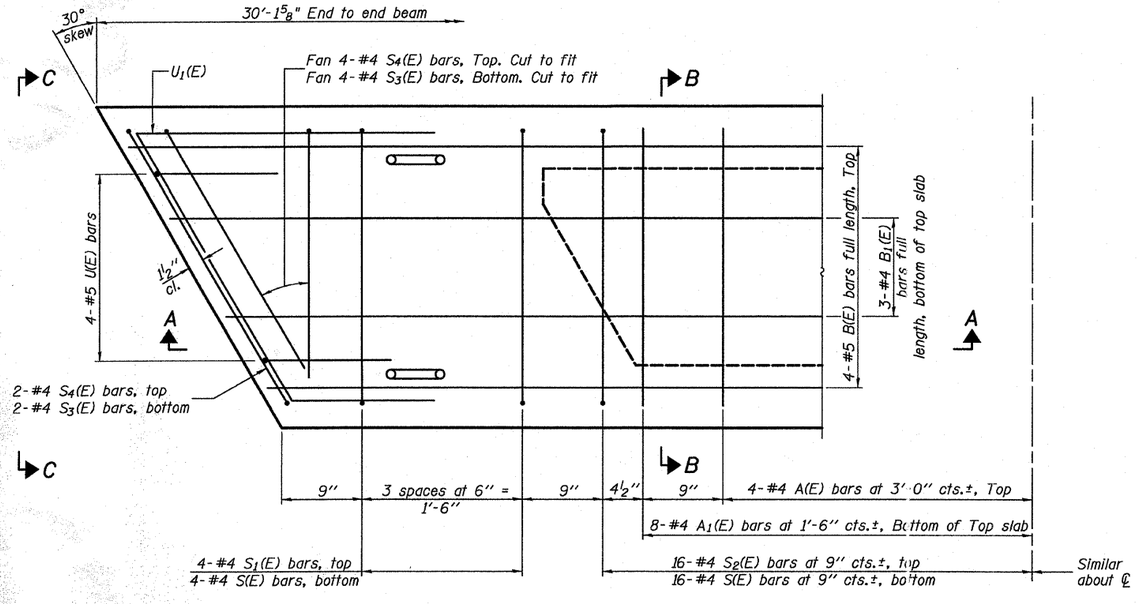
SECTION A-A



SECTION B-B
(Showing dimensions)

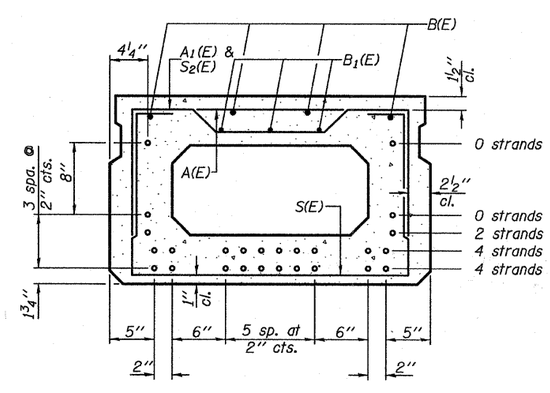


VIEW C-C



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 cuts for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)
10-½"ϕ Strands
(4 Strands 1¾" Up, 4 Strands 3¾" Up, 2 Strands 5¾" Up)

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)	8	#4	2'-7"	—
$A_1(E)$	16	#4	2'-10"	⌒
B(E)	4	#5	29'-10"	—
$B_1(E)$	3	#4	29'-10"	—
S(E)	40	#4	6'-5"	⊔
$S_1(E)$	8	#4	4'-11"	⊓
$S_2(E)$	32	#4	5'-2"	⊓
$S_3(E)$	12	#4	4'-11"	⊔
$S_4(E)$	12	#4	4'-2"	⊔
U(E)	8	#5	4'-0"	⊏
$U_1(E)$	4	#4	7'-2"	⊏

Note: See sheet 5 of 10 for additional details and Bill of Material.

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

PD-2136-R 7-1-10

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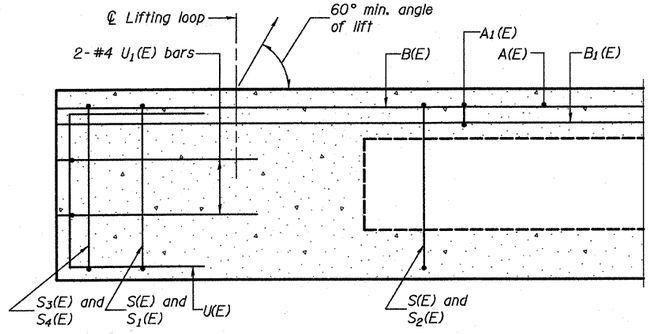
	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

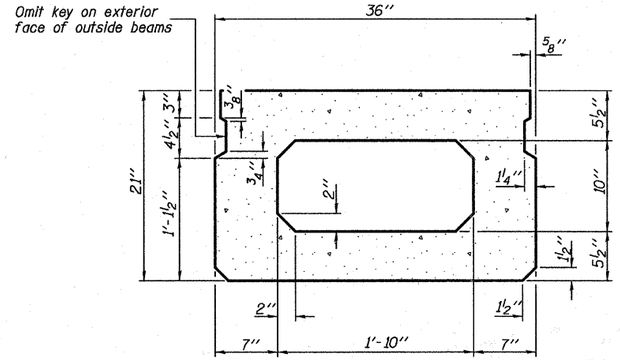
21" X 36" PPC DECK BEAM
SPANS 1 & 3
SHEET NO. 3 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	6
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

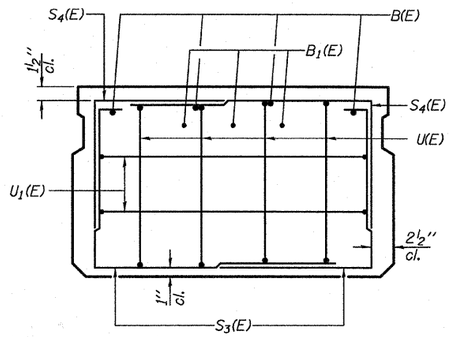
H.M.G. NO. 6466



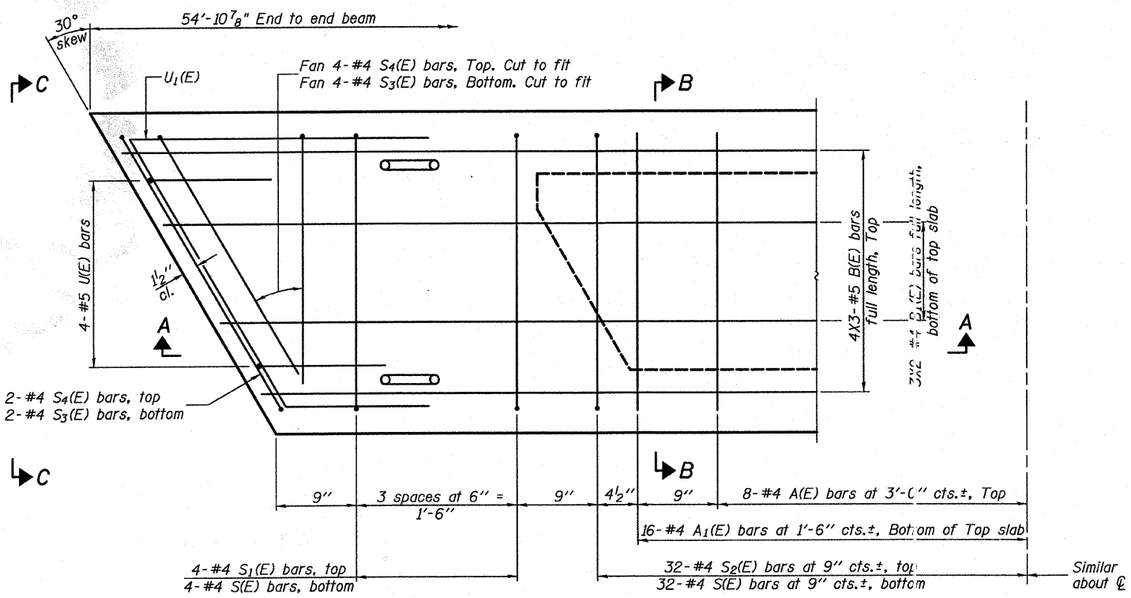
SECTION A-A



SECTION B-B
(Showing dimensions)

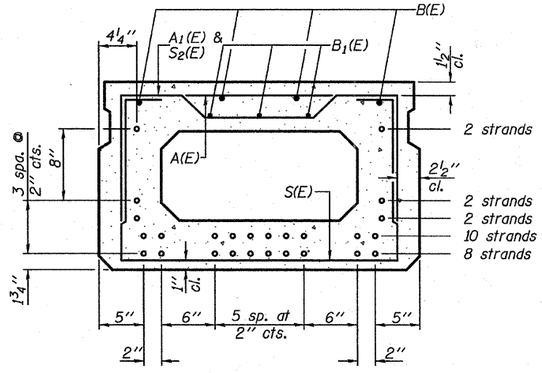


VIEW C-C



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.



SECTION B-B

(Showing reinforcement and permissible strand locations)
24-½"ϕ Strands
(8 Strands 1¾" Up, 10 Strands 3¾" Up,
2 Strands 5¾" Up, 2 Strands 7¾" Up,
2 Strands 15¾" Up)

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

MINIMUM BAR LAP

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	2'-7"	—
A1(E)	32	#4	2'-10"	⌐¬
B(E)	12	#5	19'-11"	—
B1(E)	6	#4	28'-4"	—
S(E)	72	#4	6'-5"	⊔
S1(E)	8	#4	4'-11"	⊓
S2(E)	64	#4	5'-2"	⊓
S3(E)	12	#4	4'-11"	⊔
S4(E)	12	#4	4'-2"	⊔
U(E)	8	#5	4'-0"	⊏
U1(E)	4	#4	7'-2"	⊏

Note: See sheet 5 of 10 for additional details and Bill of Material.

PD-2136-R 7-1-10

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	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

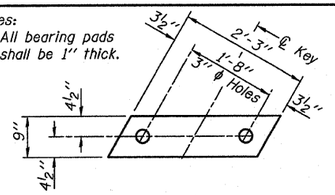
21" X 36" PPC DECK BEAM
SPAN 2
SHEET NO. 4 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	7
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

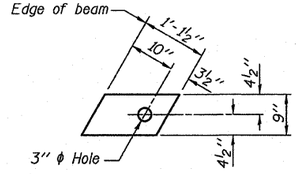
H.M.G. NO. 6466

HENRY, MEISENHEIMER & GENDE, INC. LAKE ROAD, P.O. BOX 70 CARLYLE IL 62231 (618) 594-3711 WWW.HMGENGINEERS.COM

Notes:
All bearing pads shall be 1" thick.

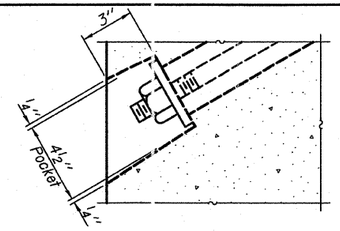


FABRIC BEARING PAD
(Interior)

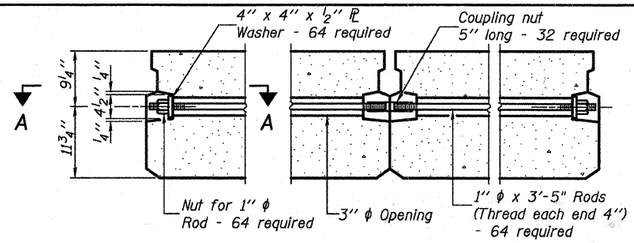


FABRIC BEARING PAD
(Exterior)

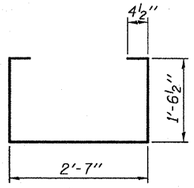
FIXED



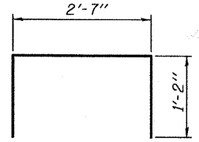
SECTION A-A



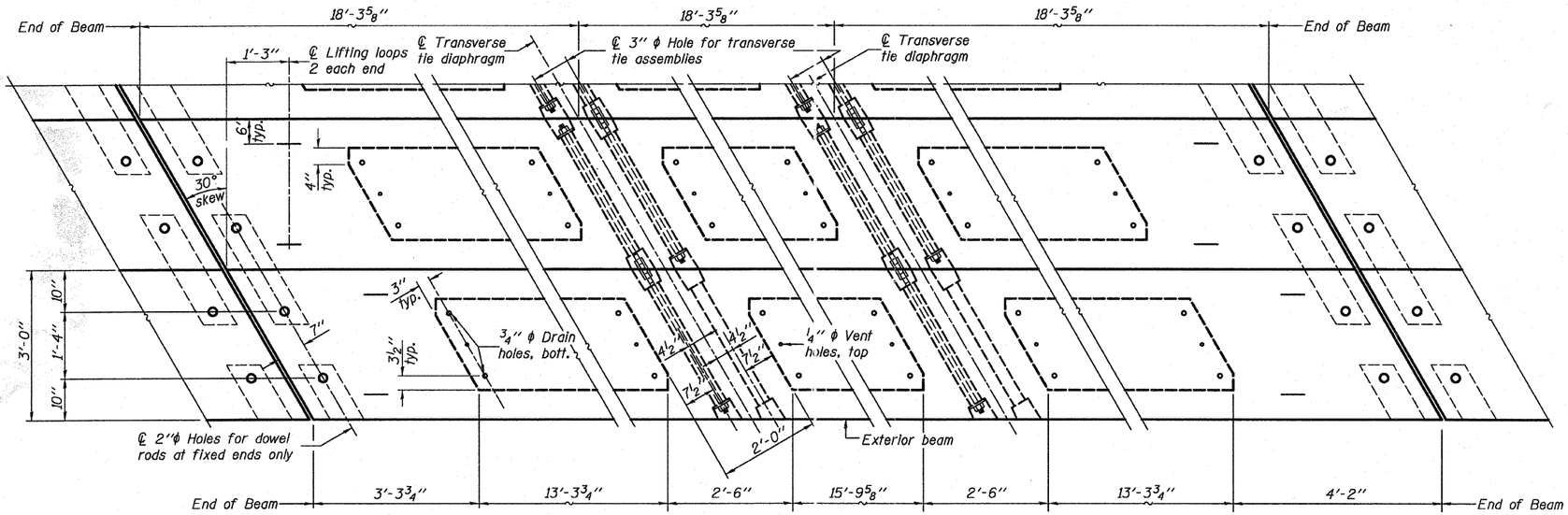
TYPICAL TRANSVERSE TIE ASSEMBLY



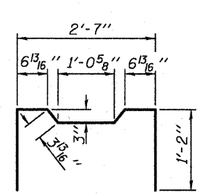
BAR S(E)



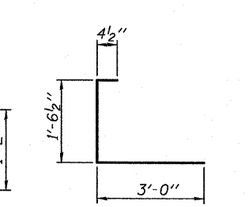
BAR S1(E)



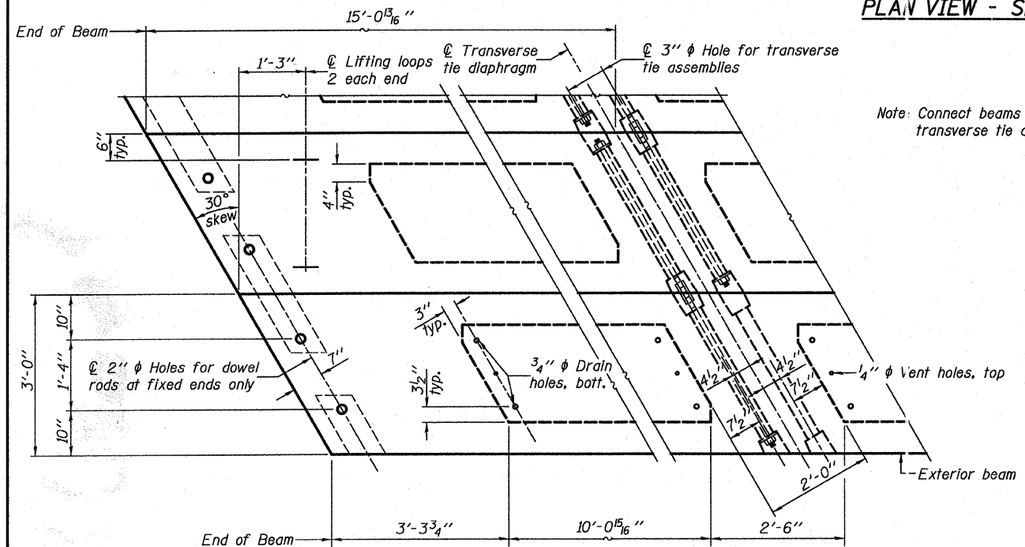
PLAN VIEW - SPAN 2



BAR A1(E)

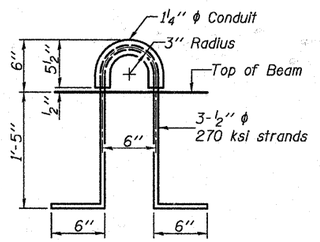


BAR U1(E)



PLAN VIEW - SPANS 1 & 3

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



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

A minimum 2½" ϕ 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.	3,115

PD-2136-RD 7-1-10

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		CHECKED - L.D.G.	REVISED -
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	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 36" PPC DECK BEAM DETAILS

SHEET NO. 5 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	8
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

H.M.G. NO. 6466

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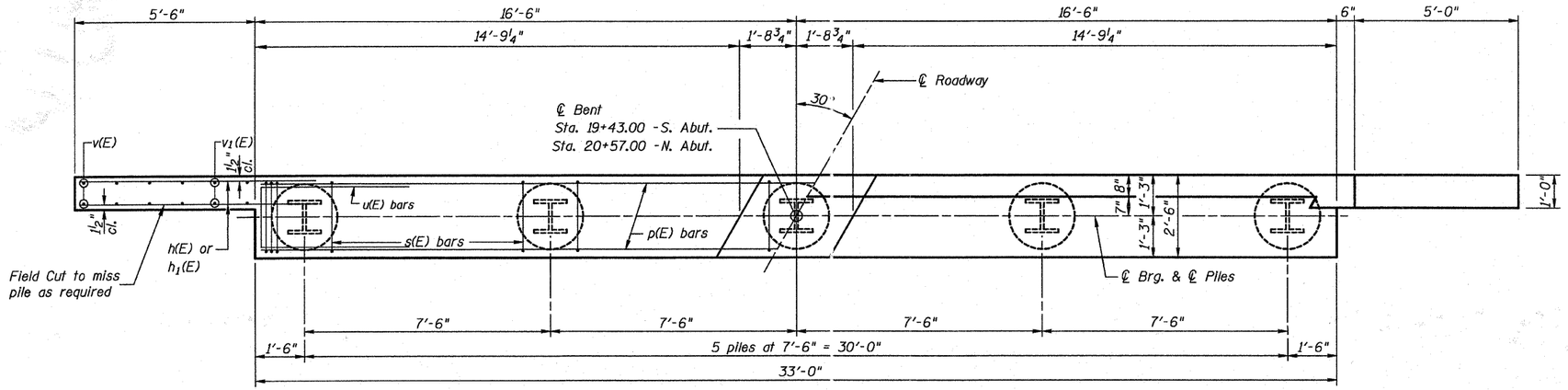
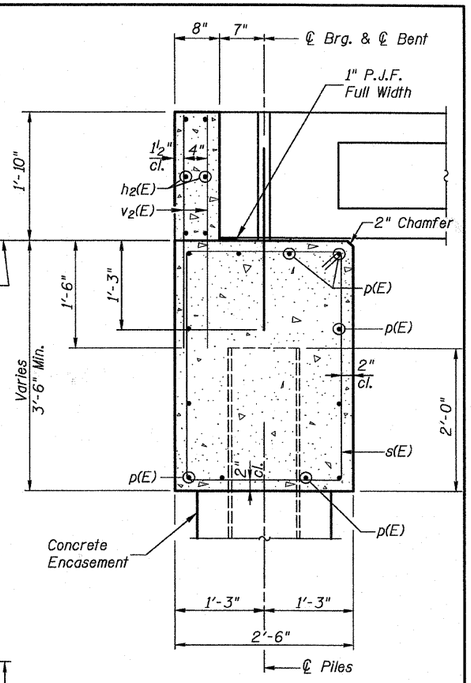
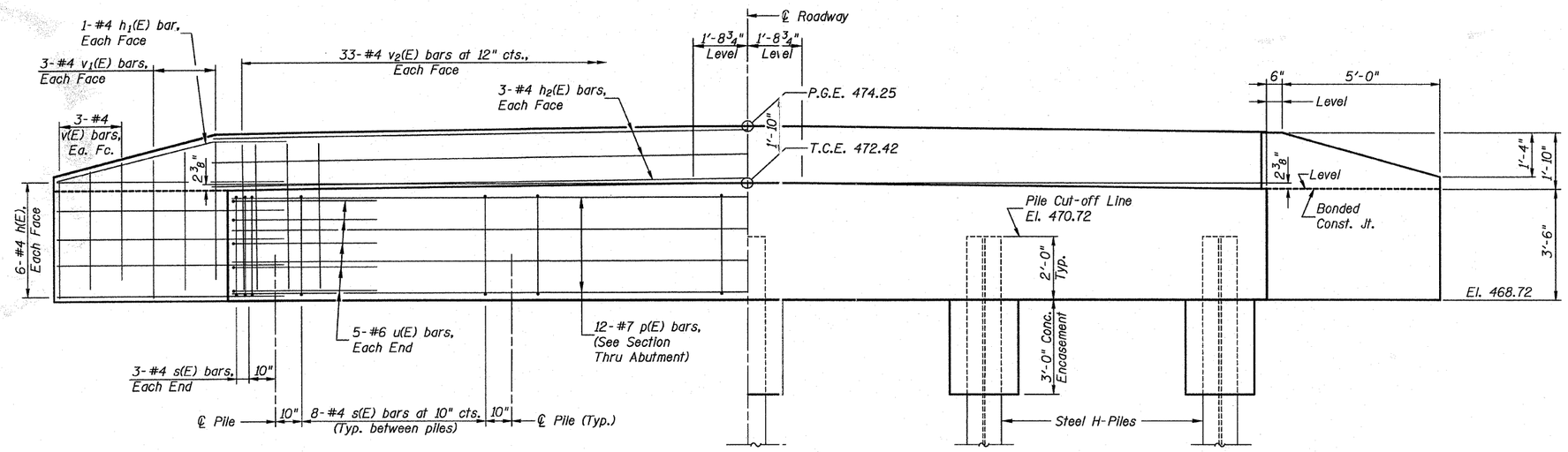


PLAN



SECTION THRU ABUTMENT

(at Right Angles)



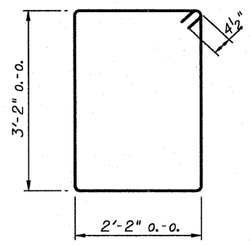
ELEVATION

NOTES

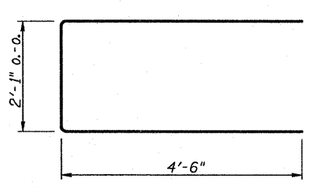
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Space reinforcement in pile cap to miss dowel rods.

PILE DATA

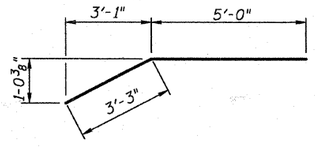
	S. ABUT.	N. ABUT.
Type:	Steel HP 10X42	Steel HP 10X42
Nominal Required Bearing:	335 k	335 k
Factored Resistance Available:	168 k	168 k
Est. Length:	32 ft.	31 ft.
No. Production Piles:	4	4
No. Test Piles:	1	1



BAR s(E)



BAR u(E)



BAR h1(E)

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	24	#4	7'-11"	—
h1(E)	4	#4	8'-3"	◹
h2(E)	6	#4	32'-8"	—
p(E)	12	#7	32'-8"	—
s(E)	38	#4	11'-5"	□
u(E)	10	#6	11'-1"	⊏
v(E)	12	#4	3'-0"	—
v1(E)	12	#4	4'-0"	—
v2(E)	66	#4	3'-2"	—
Concrete Structures			Cu. Yd.	14.4
Reinforcement Bars, Epoxy Coated			Pound	1,740
Concrete Encasement			Cu. Yd.	1.8

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		CHECKED - L.D.G.	REVISED -
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	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

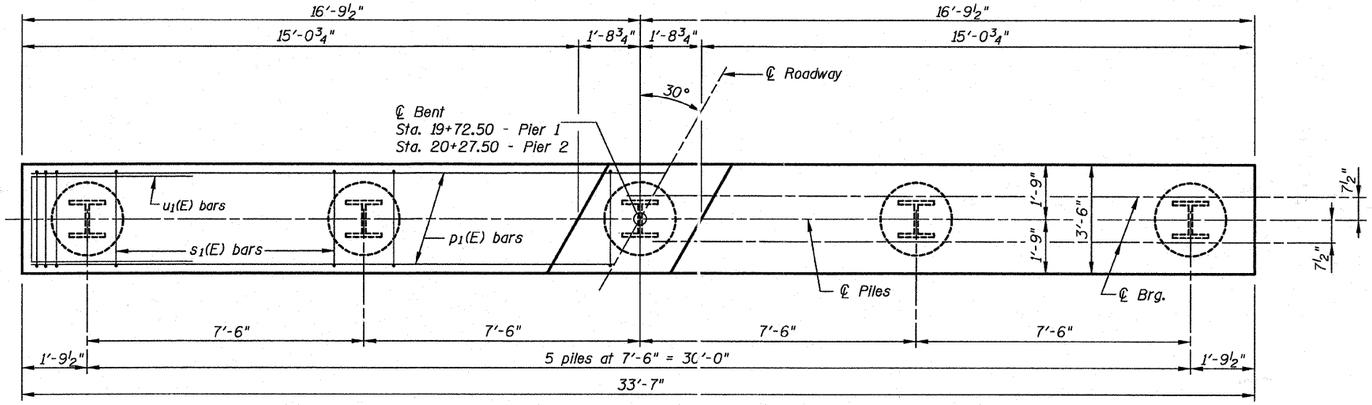
ABUTMENTS

SHEET NO. 6 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	9
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

H.M.G. NO. 6466

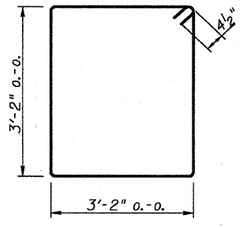
HENRY, MEISENHEIMER & GENDE, INC. LAKE ROAD, P.O. BOX 70 CARLYLE, ILL. 62231 (618) 594-3711 WWW.HMGENGINEERS.COM



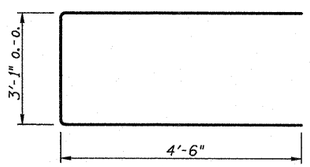
PLAN

PILE DATA

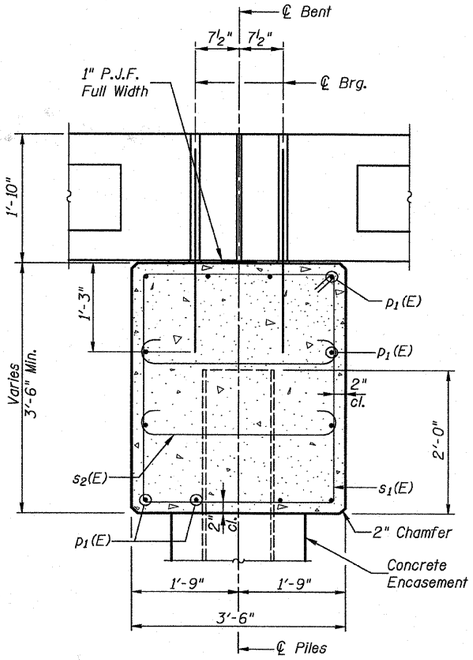
	PIER 1	PIER 2
Type:	Steel HP 12X63	Steel HP 12X63
Nominal Required Bearing:	497 k	497 k
Factored Resistance Available:	248 k	248 k
Est. Length:	34 ft.	33 ft.
No. Production Piles:	4	4
No. Test Piles:	1	1



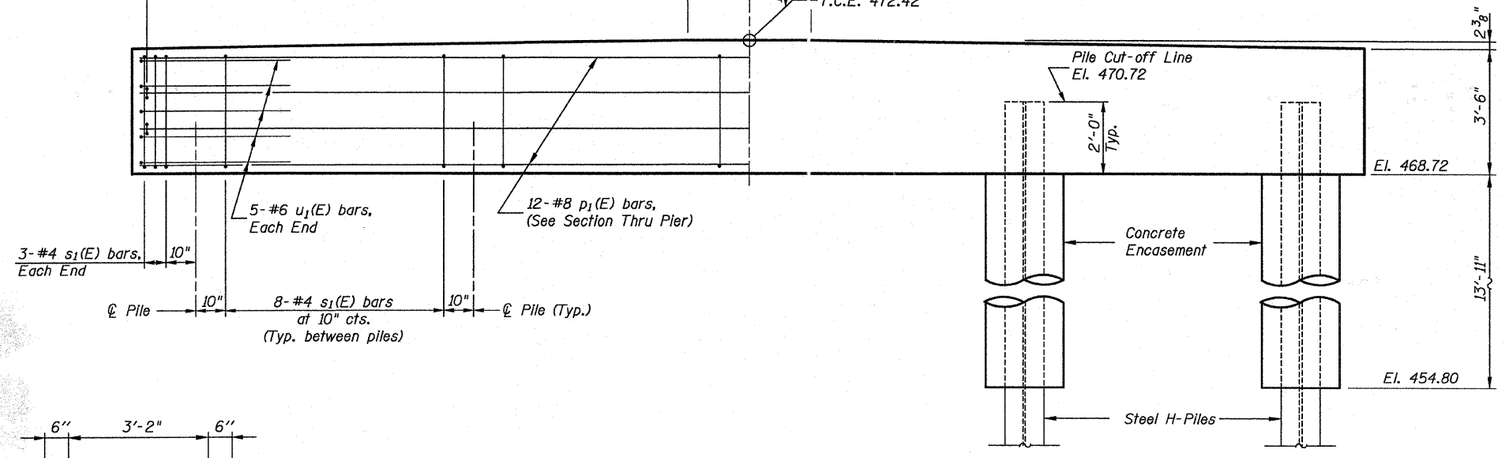
BAR $s_1(E)$



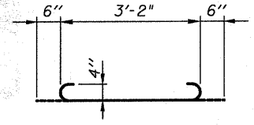
BAR $u_1(E)$



SECTION THRU PIER
(at Right Angles)



ELEVATION



BAR $s_2(E)$

BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
$p_1(E)$	12	#8	33'-3"	
$s_1(E)$	38	#4	13'-5"	
$s_2(E)$	36	#4	4'-2"	
$u_1(E)$	10	#6	12'-1"	
Concrete Structures			Cu. Yd.	15.8
Reinforcement Bars, Epoxy Coated			Pound	1,690
Concrete Encasement			Cu. Yd.	8.1

NOTES

1. Space reinforcement in pile cap to miss dowel rods.

FILE NAME = h:\6466\0144057-07-pier.dgn	USER NAME = _USERDESCR_	DESIGNED - K.M.M.	REVISED -
		CHECKED - L.D.G.	REVISED -
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	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

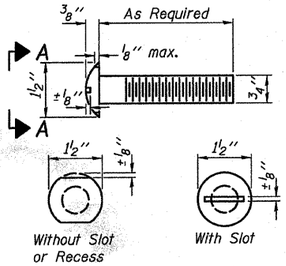
PILE BENT PIER

SHEET NO. 7 OF 10 SHEETS

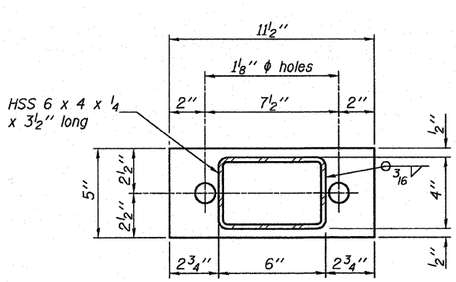
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	10
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

H.M.G. NO. 6466

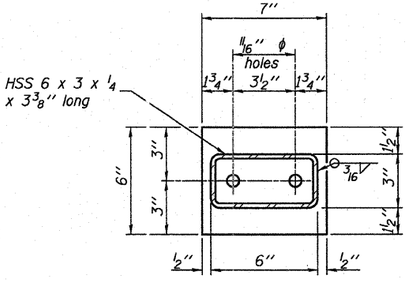
HENRY MEISENHEIMER & GENDE, INC. LAKE ROAD, P.O. BOX 70 CARLYLE, ILL. 62231 (618) 594-3711 WWW.HMGENGINEERS.COM



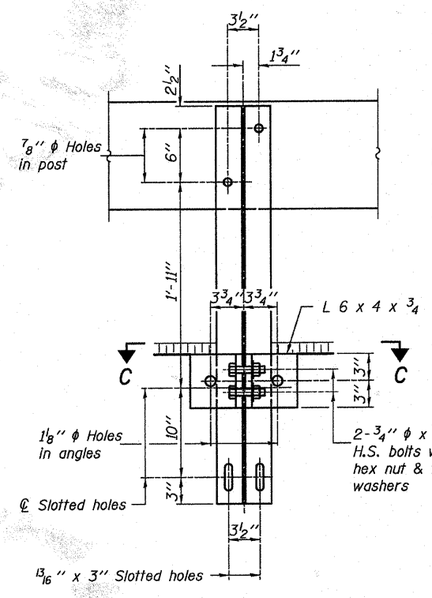
VIEW A-A
ROUND HEAD BOLT



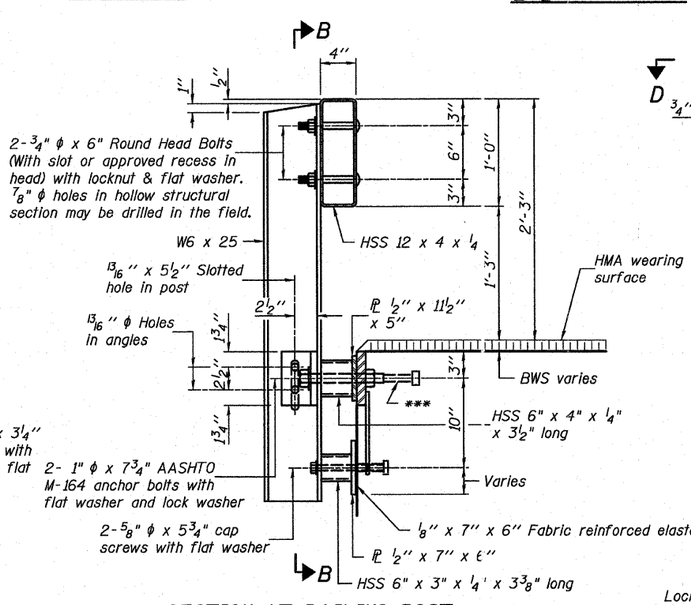
PL 1/2" x 11 1/2" x 5"



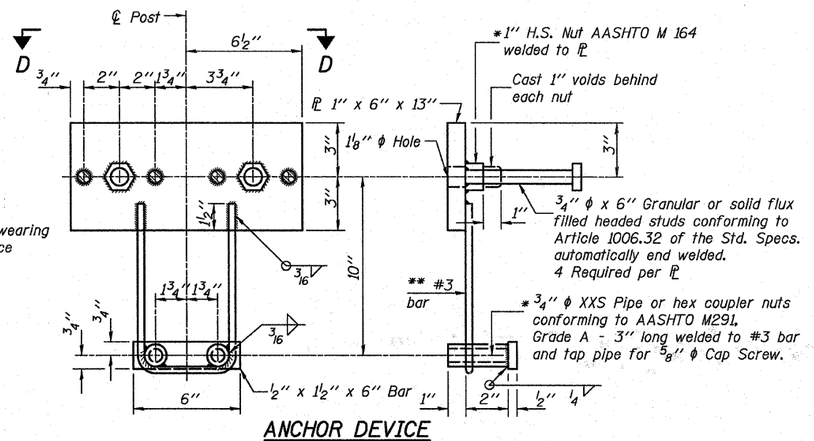
PL 1/2" x 7" x 6"



SECTION B-B



SECTION AT RAILING POST



ANCHOR DEVICE

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

Notes:

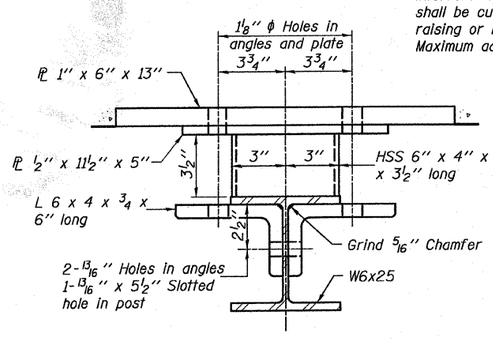
All field drilled holes shall be coated with an approved zinc rich paint before erection.

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 S-1.

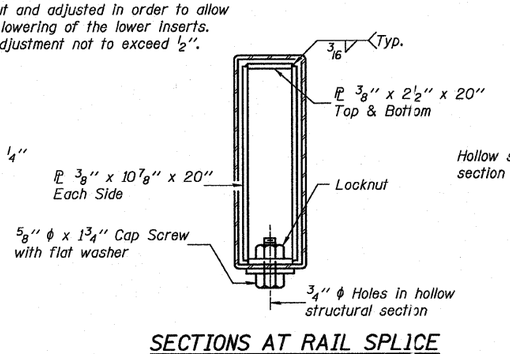
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

*** 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.

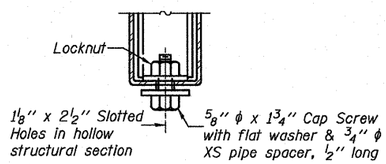
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



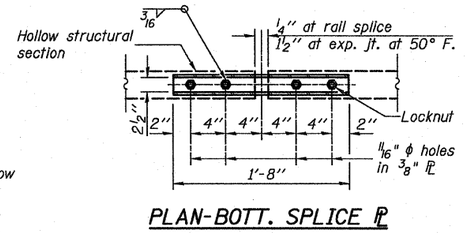
SECTION C-C



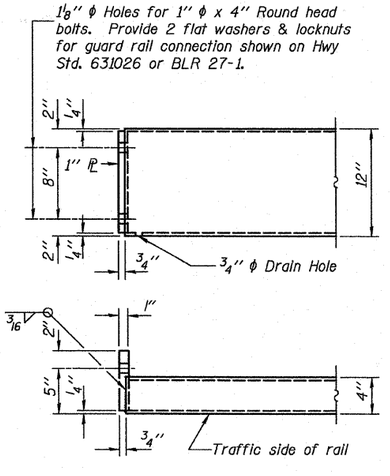
SECTIONS AT RAIL SPLICE



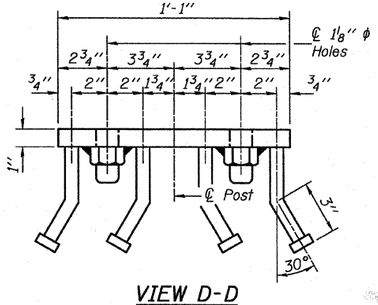
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE PL TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	234

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

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		CHECKED - L.D.G.	REVISED -
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	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

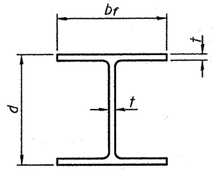
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE S-1

SHEET NO. 8 OF 10 SHEETS

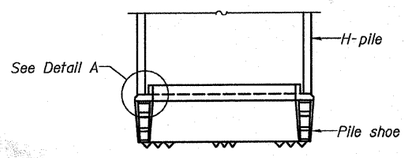
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	11
	S.N. 014-4057	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

H.M.G. NO. 6466

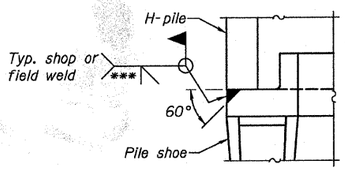


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	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"

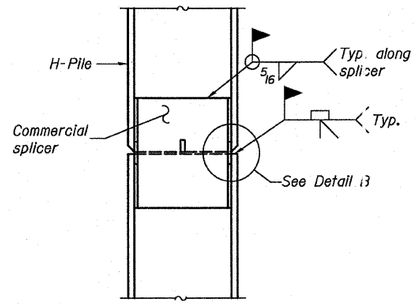


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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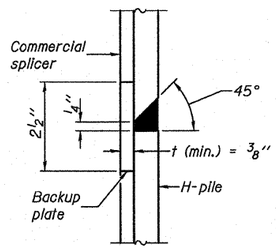
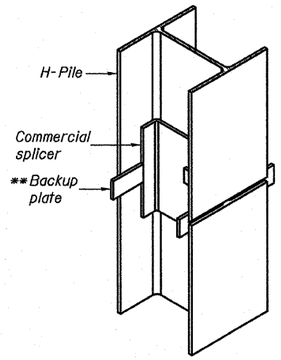
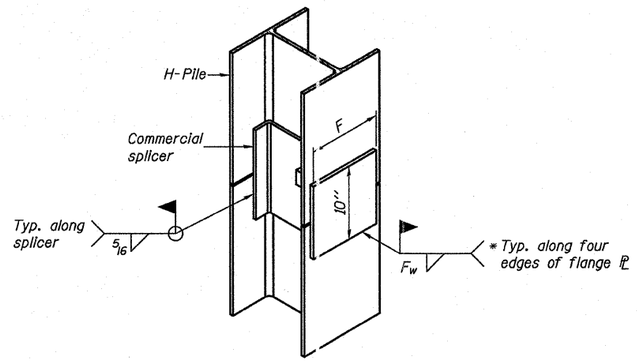


DETAIL "B"



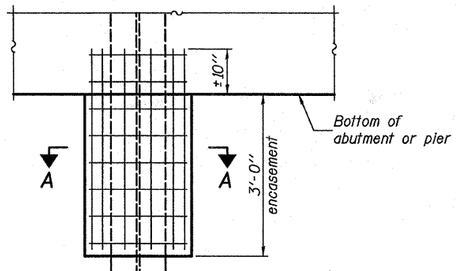
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE



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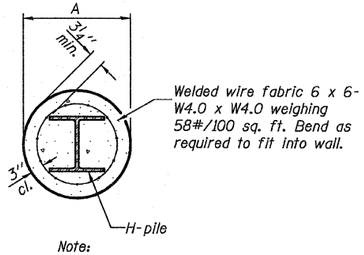
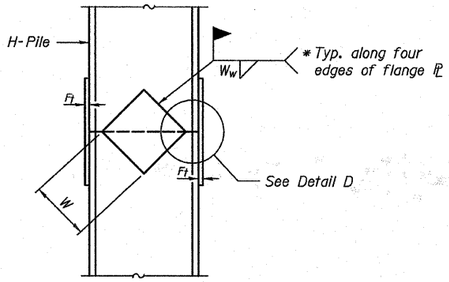


SECTION A-A

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

PILE ENCASEMENT



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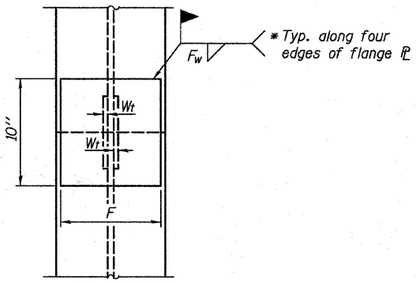
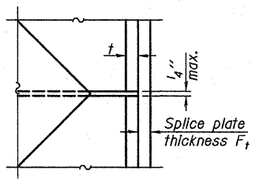


END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_f	W_w
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"	11/16"	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"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	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"

WELDED PLATE FIELD SPLICE

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plate that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

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

F-HP 7-1-10

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		CHECKED - L.D.G.	REVISED -
	PLOT SCALE = 10.0000 '' / IN.	DRAWN - K.H.L.	REVISED -
	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS

SHEET NO. 9 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	12
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 03/18/2010

ROUTE T.R. 212 DESCRIPTION Hahn Road over Lost Creek LOGGED BY CK

SECTION 08-10117-00-BR LOCATION SEC. 11 TWP. 2N RNG. 1W PM

COUNTY Clinton STRUCTURE NO. (Exist.) (Prop.)

BORING NO. B-1 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 19+58
Offset 2' Rt
Ground Surface Elev. 474.85 (ft.)

Surface Water Elev. ____ (ft.)
Groundwater Elev.
First Encounter 13 (ft.)
Upon Completion ____ (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Chip & Oil 1/2"					
FILL - Crushed rock, cinders 2.5"					
FILL - Brown low plastic SILTY CLAY, trace sand			4		
			4	1.5 P	11
			4		
			3		
			6	2.5 P	17
		-5	7		
FILL- Gray low plastic SILTY CLAY					
			2		
			3	1.0 P	25
			3		
Brown low plastic SILT A-4					
			3		
			4	2.0 P	21
		-10	5		
Brown low plastic SILTY CLAY A-6					
			2		
			3	1.0 P	27
			4		
Brown fine SAND, trace gravel A-2					
			3		
			4	1.0 P	18
		-15	6		
			4		
			5	--	19
			5		
Gray high plastic CLAY, trace gravel A-7					
			6		
			8	2.2 B	13
		-20	10		

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
			7		
			11	1.7 B	19
			13		
			12		
			19	5.6 B	13
		-25	29		
			16		
			21	7.8 B	11
			37		
			19		
Brown SHALEY CLAY			39	7.8 B	16
		-30	50/5"		
Brown SHALE					
			50/4"	4.5	15
			50/5"	4.5	13
		-35			
			50/3"	4.5	13
Boring terminated at 37.5 feet					
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 03/25/2010

ROUTE T.R. 212 DESCRIPTION Hahn Road over Lost Creek LOGGED BY CK

SECTION 08-10117-00-BR LOCATION SEC. 11 TWP. 2N RNG. 1W PM

COUNTY Clinton STRUCTURE NO. (Exist.) (Prop.)

BORING NO. B-2 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 20+56
Offset 2' Rt
Ground Surface Elev. 474.86 (ft.)

Surface Water Elev. ____ (ft.)
Groundwater Elev.
First Encounter 16.5 (ft.)
Upon Completion ____ (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Chip & Oil 3/4"					
FILL - Cinders, slag, crushed rock			5		
FILL - Gray low plastic SILTY CLAY			6	2.5 P	20
			4		
			5		
			9	3.0 P	16
		-5	3		
Brown low plastic SILT A-4			1		
			2	2.0 P	17
			2		
			2		
			2	2.5 P	12
		-10	2		
Dark brown low plastic SILTY CLAY A-6			1		
			2	1.5 P	34
			3		
Brown and gray low plastic SILTY CLAY A-6			2		
			3	0.5 P	21
		-15	4		
			2		
Brown fine SAND A-2			2	1.0 P	17
			4		
Gray high plastic CLAY A-7					
			2		
			3	0.5 P	16
		-20	7		

SOIL DESCRIPTION	ELEV. (ft.)	DEPTH (ft.)	SPT N (blows)	UCS Qu (tsf)	MOIST. (%)
Gray high plastic CLAY, trace gravel A-7			4		
			10	1.5 P	12
			16		
			16		
			23	4.0 P	15
		-25	40		
			10		
			31	4.0 P	17
			46		
			13		
Brown SHALEY CLAY			14	4.0 P	14
		-30	50/4"		
Brown SHALE					
			50/4"	4.5 P	14
			50/4"	--	13
		-35			
			50/2"	--	11
Boring terminated at 37.5 feet					
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

FILE NAME = h:\6466\0144057-10-borg.dgn	USER NAME = _USERDESCR_	DESIGNED - K.M.M.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS
		CHECKED - L.D.G.	REVISED -		
	PLOT SCALE = 1:2.0000 '' / IN.	DRAWN - K.H.L.	REVISED -		SHEET NO. 10 OF 10 SHEETS
	PLOT DATE = 3/29/2011	CHECKED - B.G.H.	REVISED -		

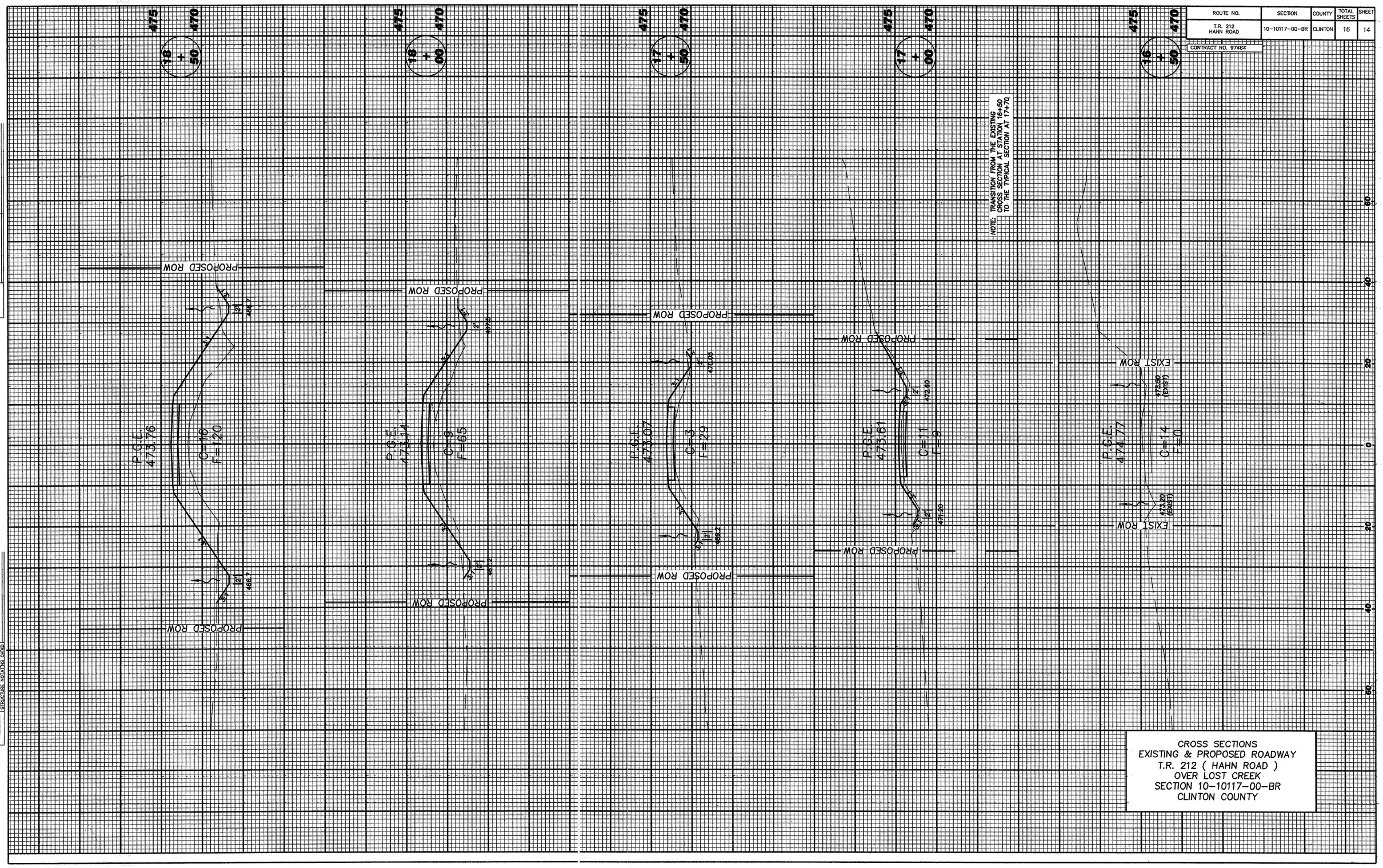
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
212	10-10117-00-BR	CLINTON	16	13
	S.N. 014-4057	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

H.M.G. NO. 6466

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
T.R. 212 HAHN ROAD	10-10117-00-BR	CLINTON	16	14

CONTRACT NO. 97464

NOTE: TRANSITION FROM THE EXISTING CROSS SECTION AT STATION 16+50 TO THE TYPICAL SECTION AT 17+70



CROSS SECTIONS
EXISTING & PROPOSED ROADWAY
T.R. 212 (HAHN ROAD)
OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY

PLAN
SURVEYED BY
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED

PROFILE
SURVEYED BY
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
B.M.'s NOTED
STRUCTURE LOCATIONS CHKD

WRK
4/2/10
10tr1121PP.dwg

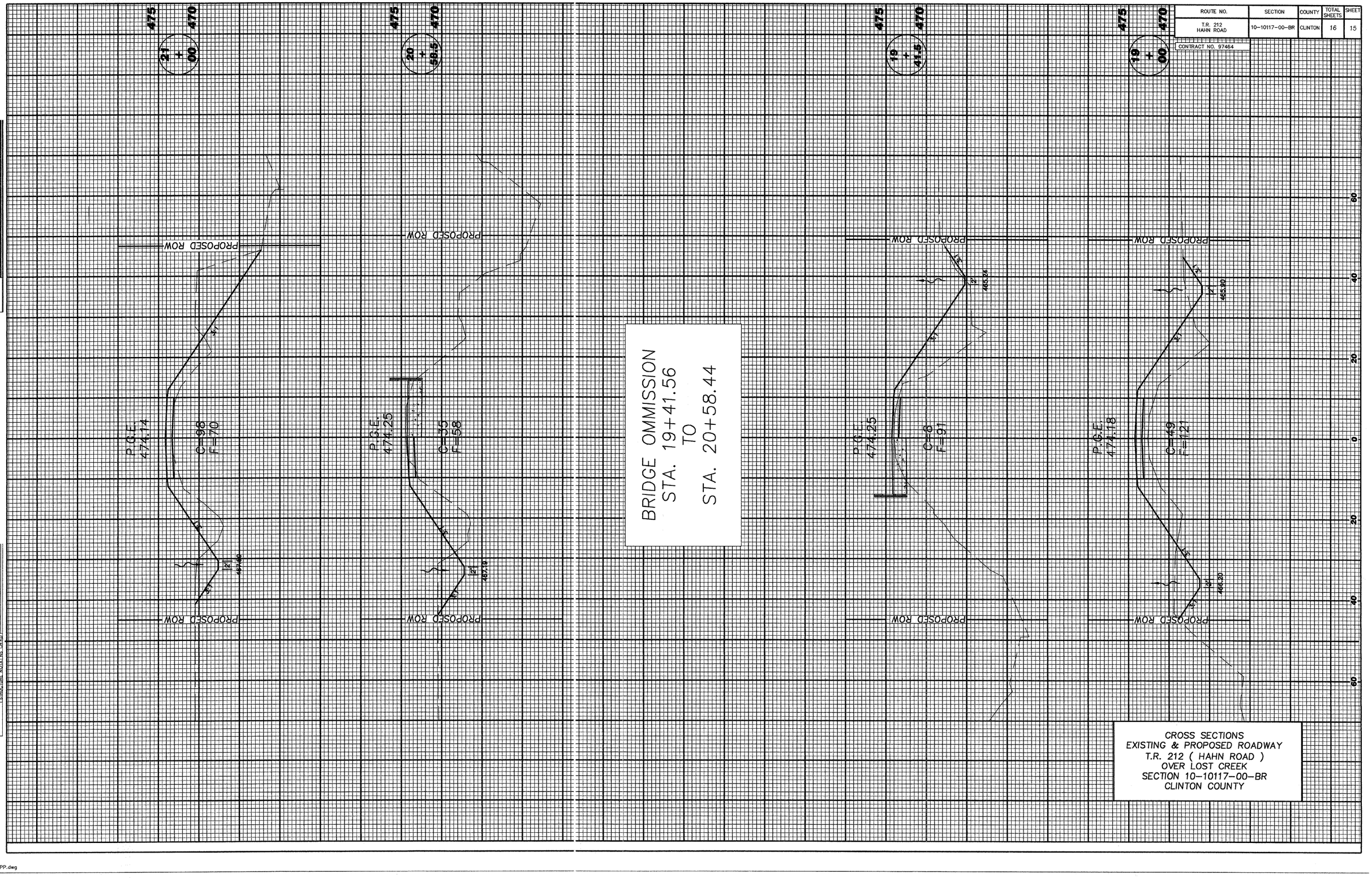
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
T.R. 212 HAHN ROAD	10-10117-00-BR	CLINTON	16	15

CONTRACT NO. 97464

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/W & R/W CHECKED
BY

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
PROFILE CHECKED
R/W'S NOTED
STRUCTURE NOTATIONS CHKD
BY

BRIDGE OMMISSION
STA. 19+41.56
TO
STA. 20+58.44



CROSS SECTIONS
EXISTING & PROPOSED ROADWAY
T.R. 212 (HAHN ROAD)
OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY

WRK
4/2/10
10tr1121PP.dwg

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
T.R. 212 HAHN ROAD	10-10117-00-BR	CLINTON	16	16

CONTRACT NO. 97464

PLAN
SURVEYED BY
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED

PROFILE
SURVEYED BY
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
BM.'s NOTED
STRUCTURE LAYOUTS DRAWN

NOTE: TRANSITION FROM THE EXISTING CROSS SECTION AT STATION 23+00 TO THE TYPICAL SECTION AT 24+80

PROPOSED ROW

(EXIST) 470.80

P.G.E. 472.50
C=1.4
F=0

P.G.E. 472.23
C=1.9
F=1.7

PI 470.00

P.G.E. 472.52
C=1.2
F=1.8

PI 469.00

P.G.T. 473.44
C=.34
F=1.64

PI 468.24

P.G.E. 473.69
C=2.4
F=2.78

PI 467.99

PROPOSED 30" RCCP

E.T. 15° 0' 0"

468.19

CROSS SECTIONS
EXISTING & PROPOSED ROADWAY
T.R. 212 (HAHN ROAD)
OVER LOST CREEK
SECTION 10-10117-00-BR
CLINTON COUNTY

WRK
4/2/10
10tr1121PP.dwg