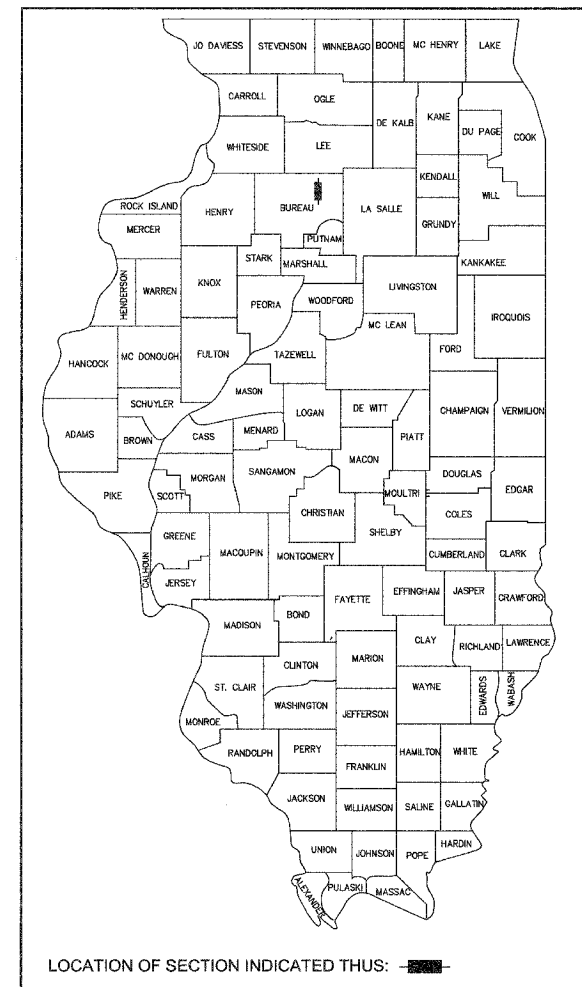


RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
E. 3150	*	BUREAU	15	1

\* 04-04113-00-BR

EXISTING STRUCTURE NO. 006-4050  
PROPOSED STRUCTURE NO. 006-4051  
THE PROPOSED STRUCTURE IS A SINGLE SPAN  
PRESTRESSED CONCRETE DECK BEAM BRIDGE



LOCATION OF SECTION INDICATED THUS: [Black Box]

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

E. 3150 TH ROAD  
OVER PIKE CREEK  
SECTION 04-04113-00-BR  
PROJECT NO. BROS-011 (67)  
BUREAU COUNTY  
HBP  
C-93-083-06

INDEX OF SHEETS

- COVER SHEET
- SUMMARY OF QUANTITIES, NOTES AND DETAILS
- PLAN AND PROFILE SHEET
- 7. BRIDGE PLANS
- 11. SOIL BORINGS
- PILE DETAILS
- 15. CROSS SECTIONS

HIGHWAY STANDARDS

- 515001-02 NAME PLATE FOR BRIDGES
- 702001-06 TRAFFIC CONTROL DEVICES
- B.L.R.21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

SCALES: (FOR FULL SIZE PLAN SHEETS)

- PLAN & PROFILE - HORIZ. 1" = 50'
- VERT. 1" = 5'
- CROSS SECTIONS - HORIZ. 1" = 5'
- VERT. 1" = 2'

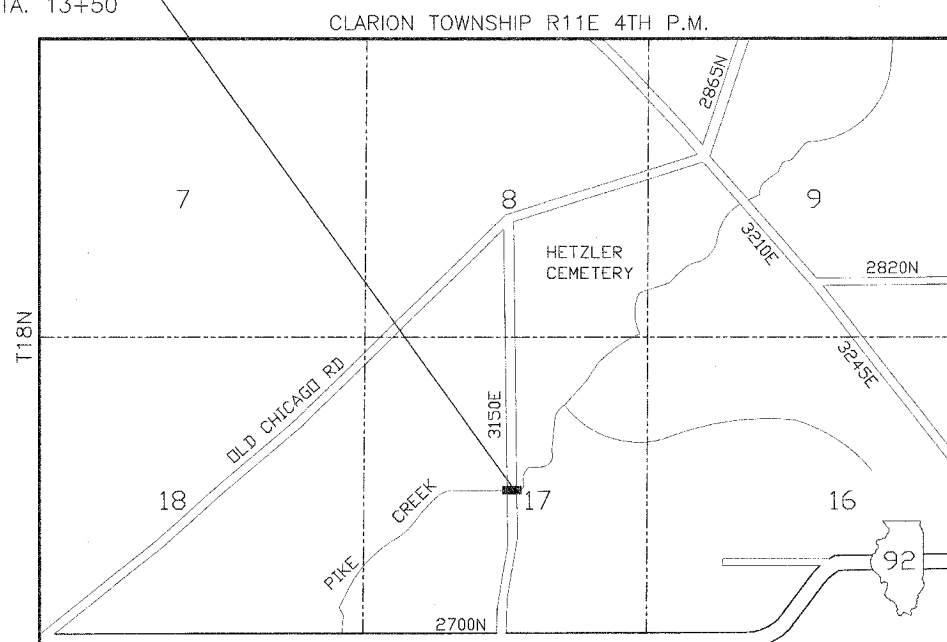
STRUCTURAL DESIGN DATA

LOCAL ROAD CLASS IV  
ADT <100 (EST.) YEAR 2025  
PV 100%  
SU 0%  
MU 0%

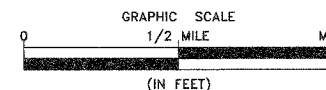
DESIGN SPEED: 30 MPH

PROJECT LOCATION

BEGIN IMPROVEMENTS STA. 6+50  
END IMPROVEMENTS STA. 13+50



NET LENGTH OF SECTION 700' (0.133 MILES)  
GROSS LENGTH OF SECTION 700' (0.133 MILES)



PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-001717



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 7/5 20 06  
[Signature] LOCAL AGENCY

PASSED July 18 20 06  
[Signature] BUREAU CHIEF OF LOCAL ROADS AND STREETS

APPROVED July 18 20 06  
[Signature] DEPUTY DIRECTOR, REGION 2 ENGINEER

PROPOSED IMPROVEMENT  
THE CONSTRUCTION OF A PRECAST PRESTRESSED  
DECK BEAM BRIDGE ON PILE BENT SPILL THROUGH  
ABUTMENTS. 1 SPAN AT 68'-7 3/4" SKEWED 30° RT.  
FWD. 71'-11" BK TO BK OF ABUTMENT 18' ROADWAY

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 87328

JAMES K. CLINARD  
CHAMLIN & ASSOCIATES  
815.223.3344

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
E. 3150	*	BUREAU	15	2
FED. ROAD DIST. NO. 7		BLANK	FED. AID PROJECT	

\* 04-04113-00-BR  
X081-2A

**GENERAL NOTES**

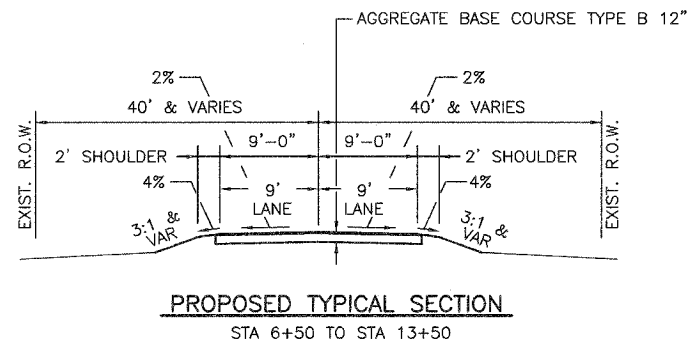
- ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON LOCAL DATUM.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SAND BAGS PER BARRICADE.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEY OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 

GRANULAR MATERIALS	2.05	TONS / CU YD
RIP RAP	1.50	TONS / CU YD
- UTILITIES WHO MAY BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
 TELEPHONE  
 VERIZON NORTH INC.  
 1312 E. EMPIRE STREET  
 BLOOMINGTON, IL 61701  
 (309)663-3422
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATIVE SUSTAINING SOIL COVERING THE TOP 4 INCHES IN AREA TO BE SEEDED. THE VEGETATIVE SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

**SUMMARY OF QUANTITIES**

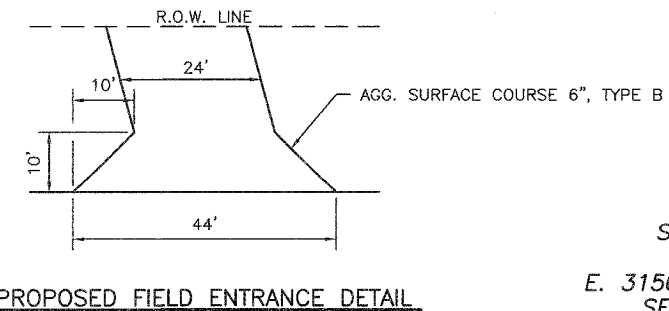
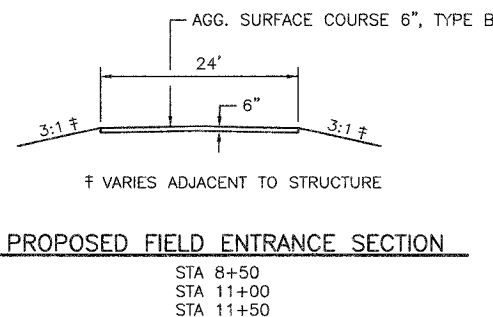
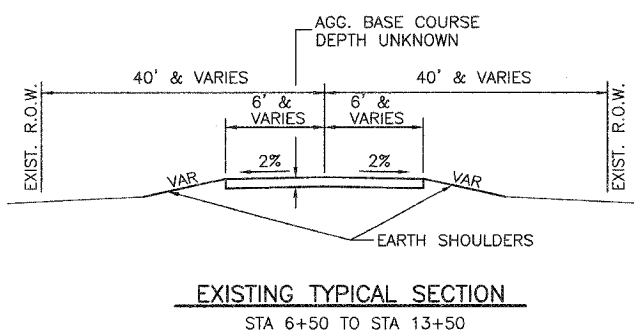
NO.	DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	207
20400800	FURNISHED EXCAVATION	CU YD	799
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
28101300	DUMPED RIP RAP, SPECIAL	TON	358
35101400	AGGREGATE BASE COURSE, TYPE B	TON	826
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	95
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105200	REMOVE EXISTING CULVERTS	EACH	3
50300225	CONCRETE STRUCTURES	CU. YD.	21.6
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ. FT.	1,680
50800105	REINFORCEMENT BARS	POUND	2,680
50900205	STEEL RAILING, TYPE S-1	FOOT	140
51202200	FURNISHING CONCRETE PILES	FOOT	362
51202800	DRIVING CONCRETE PILES	FOOT	362
51204200	TEST PILE CONCRETE	EACH	1
51500100	NAME PLATES	EACH	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15'	FOOT	80
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18'	FOOT	42
54213450	END SECTIONS 15'	EACH	4
54213453	END SECTIONS 18'	EACH	2
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	545
67100100	MOBILIZATION	L. SUM	1
Z0013798	CONSTRUCTION LAYOUT	L. SUM	1

**ATTENTION CONTRACTORS:**  
 THE ILLINOIS DEPARTMENT OF TRANSPORTATION - BUREAU OF MATERIALS AND PHYSICAL RESEARCH, "PROJECT PROCEDURES GUIDE" IS APPLICABLE TO THIS PROJECT.



LOCATION	THEORETICAL		SHORTAGE (-) OR EXCESS (+)	REMARKS
	CUT	FILL		
	CU. YD.	CU. YD.	CU. YD.	
	(A)	(B)	(C)	
STA. 6+50 TO STA. 13+50	207	954	-799	
<b>TOTAL</b>	<b>207</b>	<b>954</b>	<b>-799</b>	
	PAY ITEM	INFO ONLY	PAY ITEM	

LOCATION (STA. TO STA.)	AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE BASE COURSE, TYPE B
	TON	TON
RT STA 8+50	29	---
LT STA 11+00	33	---
RT STA 11+50	33	---
STA 6+50 TO STA 9+64.04	---	408
STA 10+35.96 TO STA 13+50	---	418
<b>TOTAL</b>	<b>95</b>	<b>826</b>

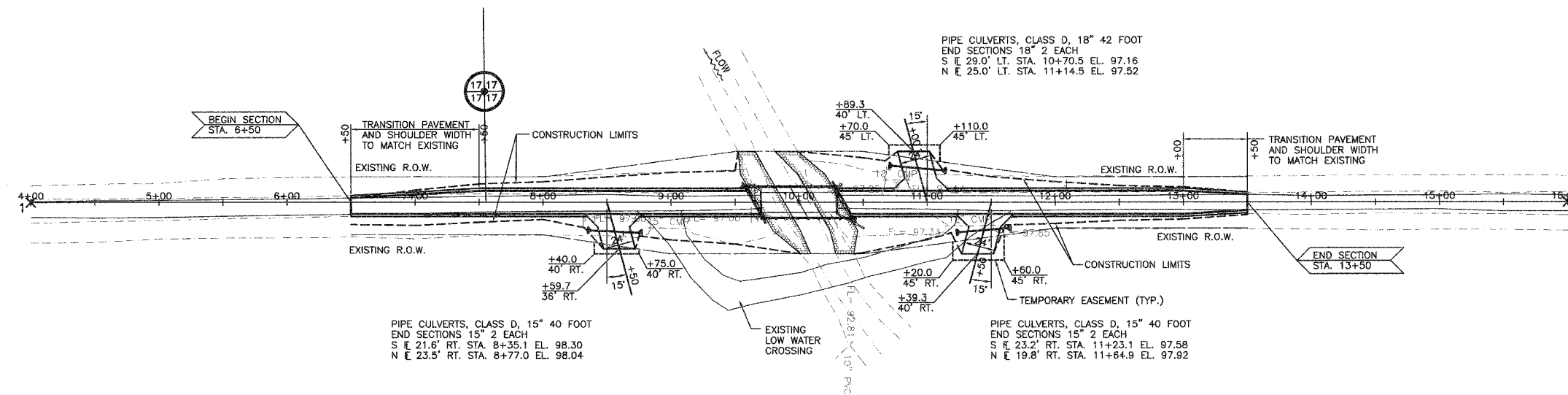
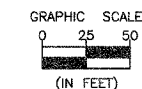


SUMMARY OF QUANTITIES,  
 NOTES AND DETAILS  
 E. 3150 TH ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY  
 STA. 10+00  
 SN 006-4051

DATE	BY	CHECKED	SCALE	SHEET
E. 3150	*	BUREAU	15	3

\* 04-04113-00-BR  
CONTRACT NO. 87328

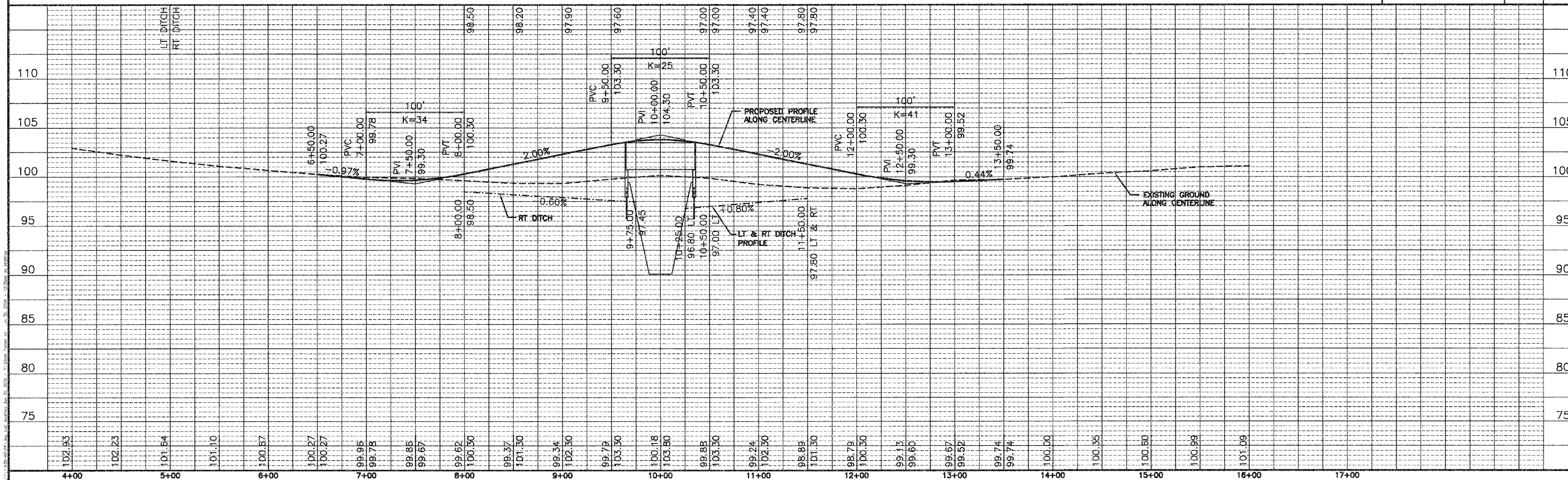
POINT #	NORTHING	EASTING	DESC.
1	5000.00	5000.00	STA. 4+00
2	6200.00	5000.00	STA. 16+00



EXISTING STRUCTURE NO: 006-4050  
EXISTING STRUCTURE: THE STRUCTURE IS A SINGLE SPAN STEEL THROUGH TRUSS BRIDGE ON OPEN ABUTMENTS. LENGTH 59.9' B. TO B. OF ABUTMENT. CLEAR SPAN 58.3' WIDTH 15.9' O. TO O. OF DECK  
PROPOSED STRUCTURE NO: 006-4051  
PROPOSED STRUCTURE: THE STRUCTURE IS A SINGLE SPAN PRECAST PRESTRESSED DECK BEAM BRIDGE ON OPEN ABUTMENTS. LENGTH 71.9' B. TO B. OF ABUTMENTS CLEAR SPAN 66.2' WIDTH 24' O. TO O. OF DECK

BECHMARK:  
CHISELED "□" ON S.W. WINGWALL  
OF EXISTING STRUCTURE.  
ELEV. - 100.00

LOCATION	EARTHWORK QUANTITIES	
	CUT	FILL
STA. 6+50 TO STA. 13+50	207	954



DRAWN BY: NQ  
CHECKED BY: JKC

CAD/DWG: PP1  
DATE: 03/06

REVISIONS	
DATE	BY



PERU MORRIS  
ILLINOIS

EAST 3150 ROAD OVER PIKE CREEK  
SECTION 04-04113-00-BR  
BUREAU COUNTY

PLAN AND PROFILE

SCALE: AS NOTED  
SHEET 3  
FILE NO.: 11638.00Y-1 OF 15

Bench Mark:  
Chiseled "□" on S.W. Wingwall  
of existing structure.  
Elev. = 100.00

Existing Structure: The structure is a single span  
steel through truss bridge on open abutments.  
Length 59.9' B. to B. of abutments. Clear Span of 58.3'.  
Width 15.9' O. to O. of deck.

Road will be closed to traffic during construction.

No salvage.

**WATERWAY INFORMATION**

Drainage Area= 19.1 sq. mi. Low Grade Elev.= 98.79 @ Sta. 12+00 Exist./99.49 @ Sta. 12+81 Prop.

Flood	Freq. Yr.	Q C.F.S.	Opening sq. ft.		Nat. H.W.E.	Head - ft.		Headwater el.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1525	323	350	99.4	0.3	0.1	99.8	99.5
Design	15	1659	348	356	99.5	0.4	0.2	99.9	99.7
Base	100	2552	594	486	100.1	0.3	0.3	100.4	100.4
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3247	789	603	100.4	0.3	0.5	100.6	100.9

DISTRICT	SECTION	COUNTY	DATE	HEET
E. 3150	*	BUREAU	15	4

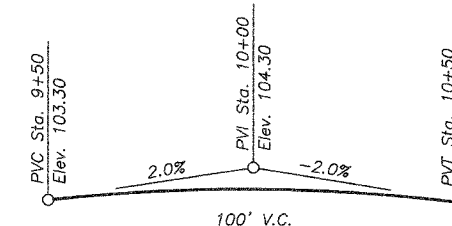
Sheet 1  
of 9 Sheets

\* 04-04113-00-BR

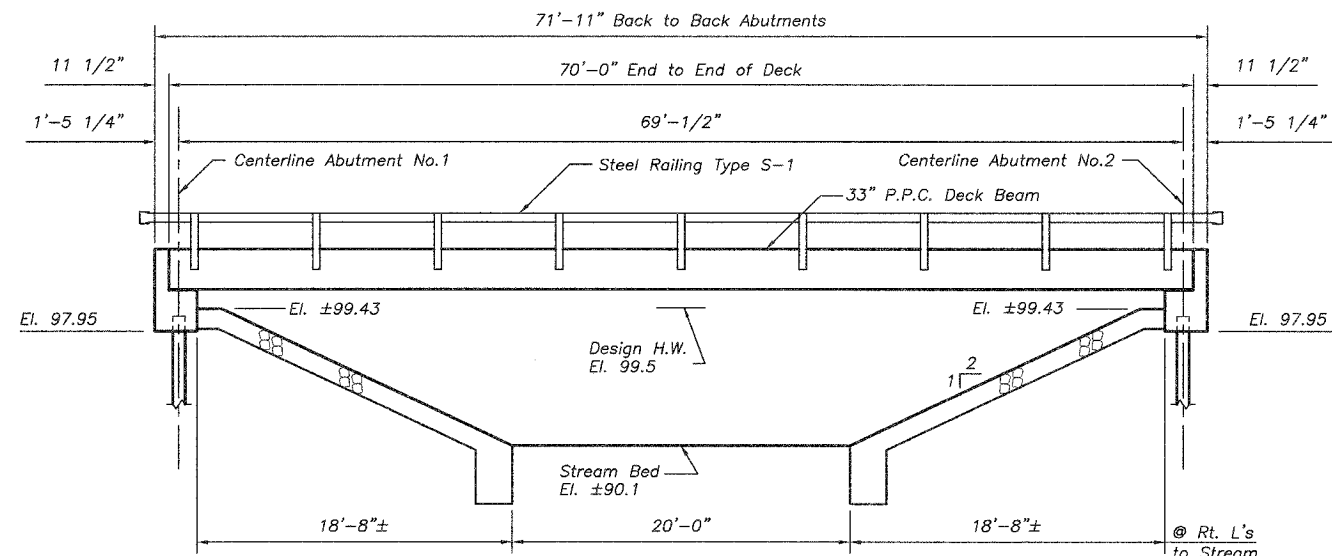
BUILT 200 BY  
CLARION TOWNSHIP  
BUREAU COUNTY  
SEC. 04-04113-00-BR  
STA. 10+00  
STR. NO. 006-4051 LOADING HS20

**NAME PLATE**

Std. 515001

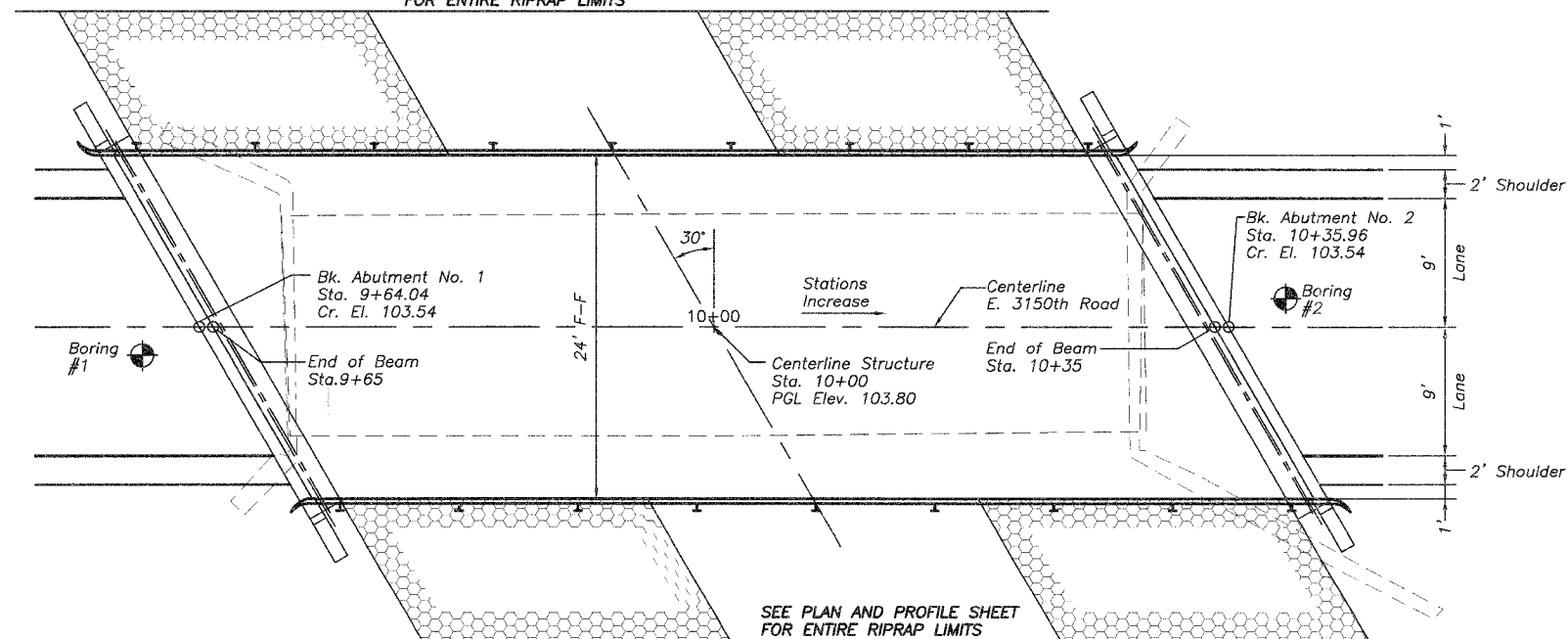


**PROFILE GRADE**  
(Along Centerline Roadway)



**ELEVATION**

SEE PLAN AND PROFILE SHEET  
FOR ENTIRE RIPRAP LIMITS



**PLAN**

SEE PLAN AND PROFILE SHEET  
FOR ENTIRE RIPRAP LIMITS

**General Notes**

- The Contractor shall drive 1 test pile, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
- For backfilling and embankment, see Standard Specifications.
- Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- In accordance with Article 502.15 of the Standard Specifications the cost for Structure Excavation shall be considered as included in the contract unit price for Concrete Structures.

**LOADING**

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

**DESIGN SPECIFICATIONS**

2002 AASHTO

**DESIGN LOADING**

HS 20-44

**DESIGN STRESSES**

Precast units:

- f'c= 5,000 PSI
- f'ci= 4,000 PSI
- fs'= 270,000 PSI (1/2 Dia. Strand)
- fs'i= 201,960 PSI (1/2 Dia. Strand)
- fy= 65,000 PSI (Welded wire fabric)
- fy= 60,000 PSI (Reinf.)

Field units:

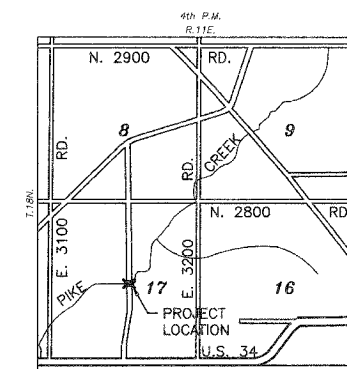
- f'c= 3,500 PSI
- fy= 60,000 PSI (Reinf.)

**SEISMIC DATA**

- S.P.C. = A
- A = 0.4
- S = 1.5

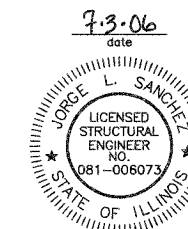
**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
Removal of Existing Structures	Each	1
Name Plates	Each	1
Concrete Structures	Cu Yd	21.6
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1680
Steel Railing, Type S-1	Foot	140
Furnishing Concrete Piles	Foot	362
Driving Concrete Piles	Foot	362
Test Pile Concrete	Each	1
Dumped Rip Rap, Special	Ton	358
Reinforcement Bars	Pound	2680
Portland Cement Fairing Course	Foot	545



**LOCATION SKETCH**

GENERAL PLAN  
E. 3150 TH ROAD OVER PIKE CREEK  
SECTION 04-04113-00-BR  
BUREAU COUNTY  
STA. 10+00  
SN 006-4051



7-3-06  
date  
Jorge L. Sanchez  
signature  
PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-001717

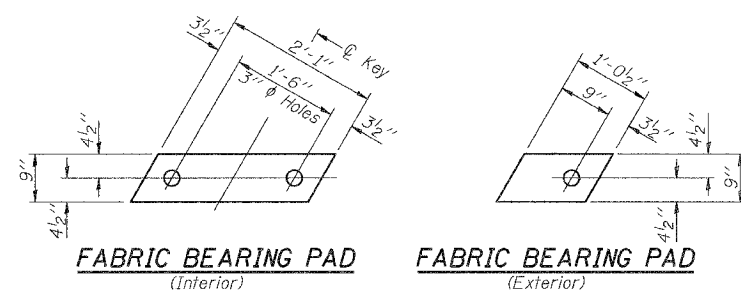
I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN. LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

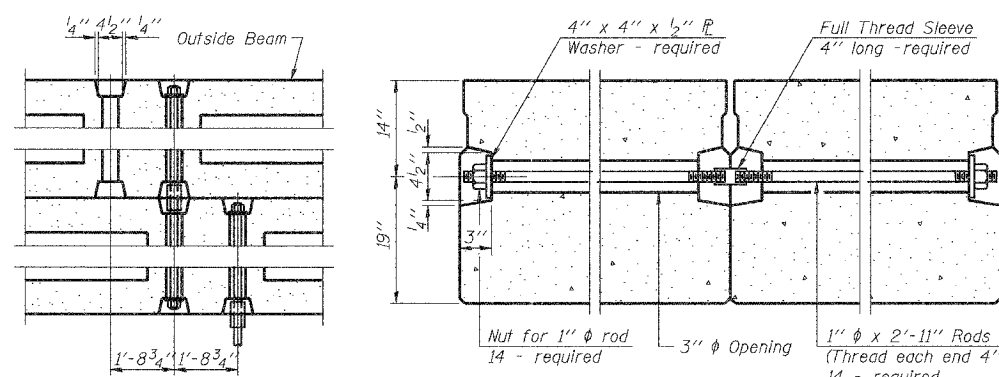
PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
E. 3150	BUREAU	15	5

Sheet 2  
of 9 Sheets

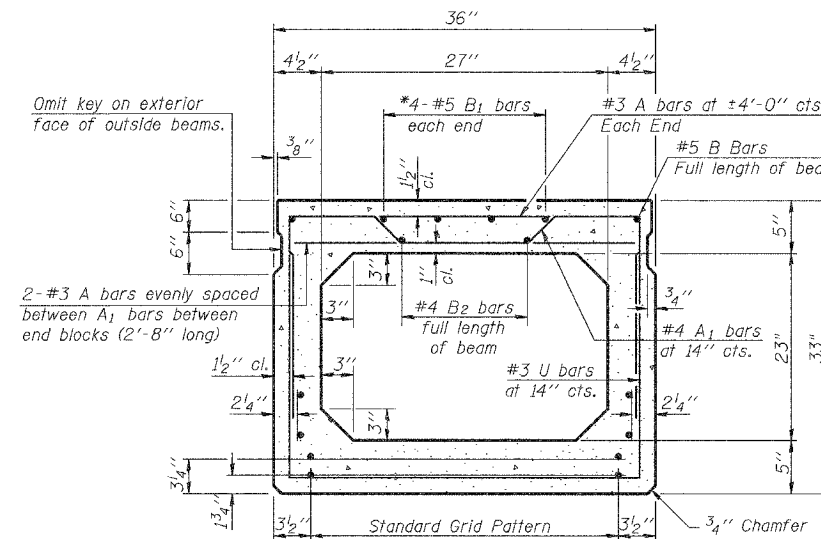
\*0.2 x Length of beam  
• 04-04113-00-BR



**FIXED**



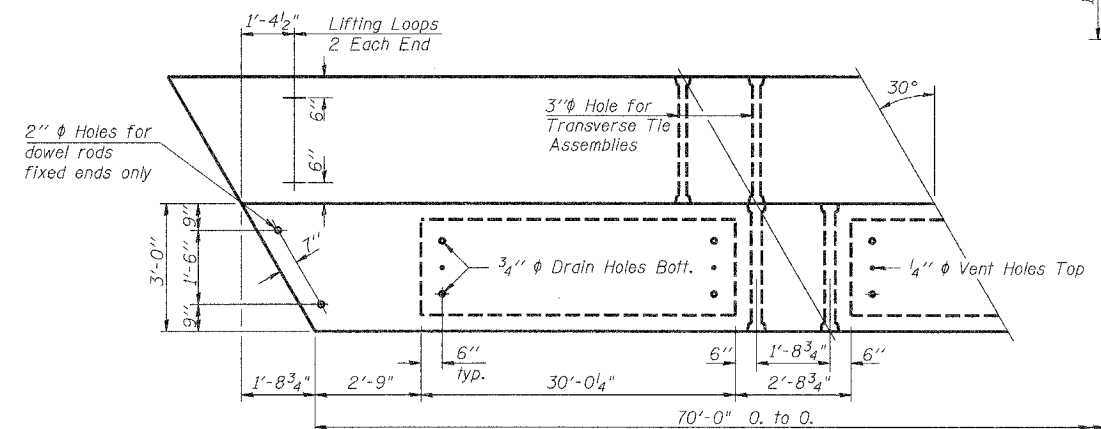
**TYPICAL TRANSVERSE TIE ASSEMBLY**



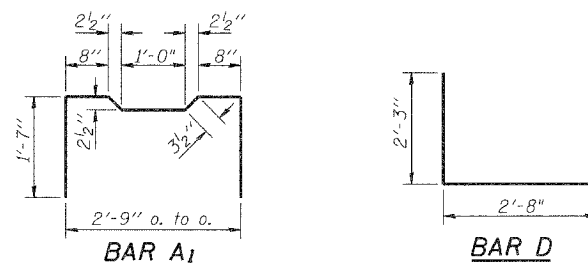
**TYPICAL SECTION**

1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
8-Strands 1 3/4" up, 5-Strands 3/4" up  
2-Strands 6" up, 2-Strands 9" up

Note:  
Place strands symmetrically  
about  $\phi$  of beam.

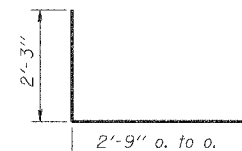


**PLAN**

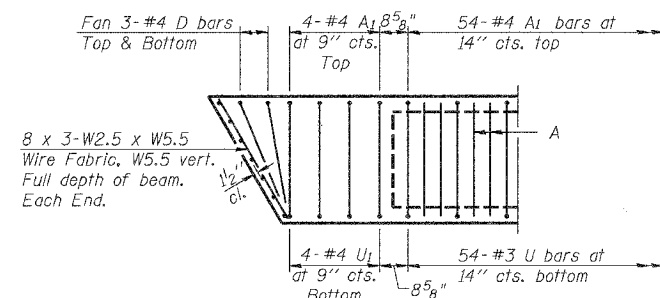


**BAR A1**

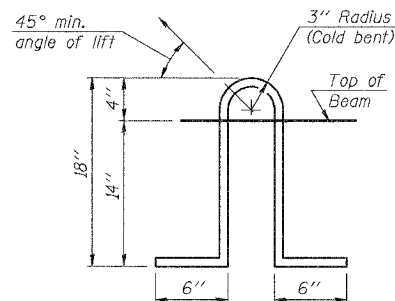
**BAR D**



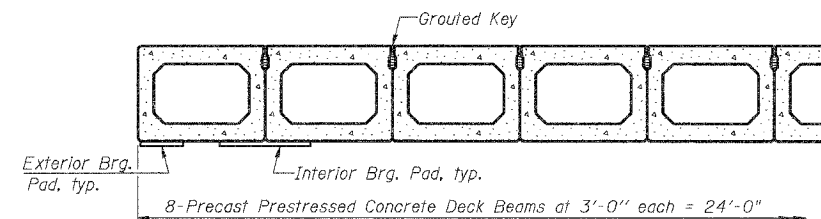
**BARS U & U1**



**END PLAN**



**LIFTING LOOP DETAIL**



**HALF CROSS SECTION**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
A	114	#3	2'-8"	—
A1	62	#4	6'-1"	┌
B	2	#5	69'-9"	—
B1	8	#5	14'-0"	—
B2	2	#4	69'-9"	—
U	54	#3	7'-3"	┌
U1	8	#4	7'-3"	┌
D	12	#4	4'-11"	┌
Precast Prestressed Conc. Deck Bms.		Sq. Ft.	1680	

**BEAM DETAILS**  
E. 3150 TH ROAD OVER PIKE CREEK  
SECTION 04-04113-00-BR  
BUREAU COUNTY  
STA. 10+00  
SN 006-4051

**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. Lifting loops shall be 3-1/2"  $\phi$  270 ksi strands, as shown. The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Non prestressing steel shall conform to AASHTO M-31 or M-322 Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength,  $f'_{ci}$ , shall be 5000 p.s.i.

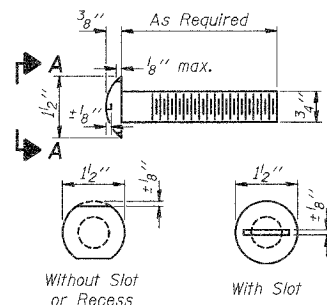
DESIGNED	JLS
CHECKED	JDA
DRAWN	NQ
CHECKED	JKC

PD-5-R 1-16-04

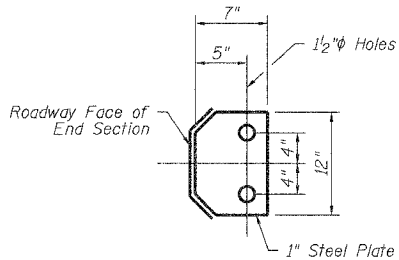
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POSTS	SHEET NO. 3
E. 3150	#	BUREAU	15	9 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

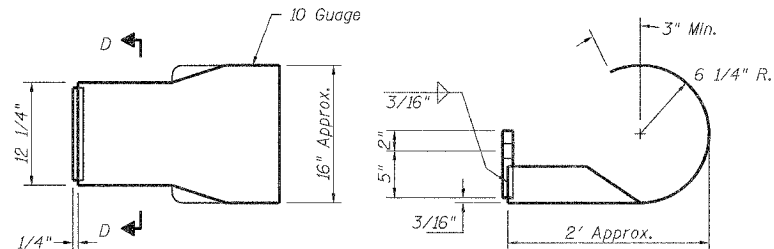
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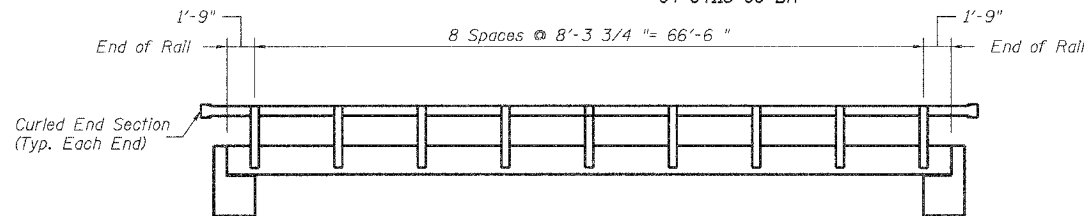
VIEW A-A  
ROUND HEAD BOLT



SECTION D-D



DETAILS OF CURLED END SECTION



RAIL POST SPACING

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.

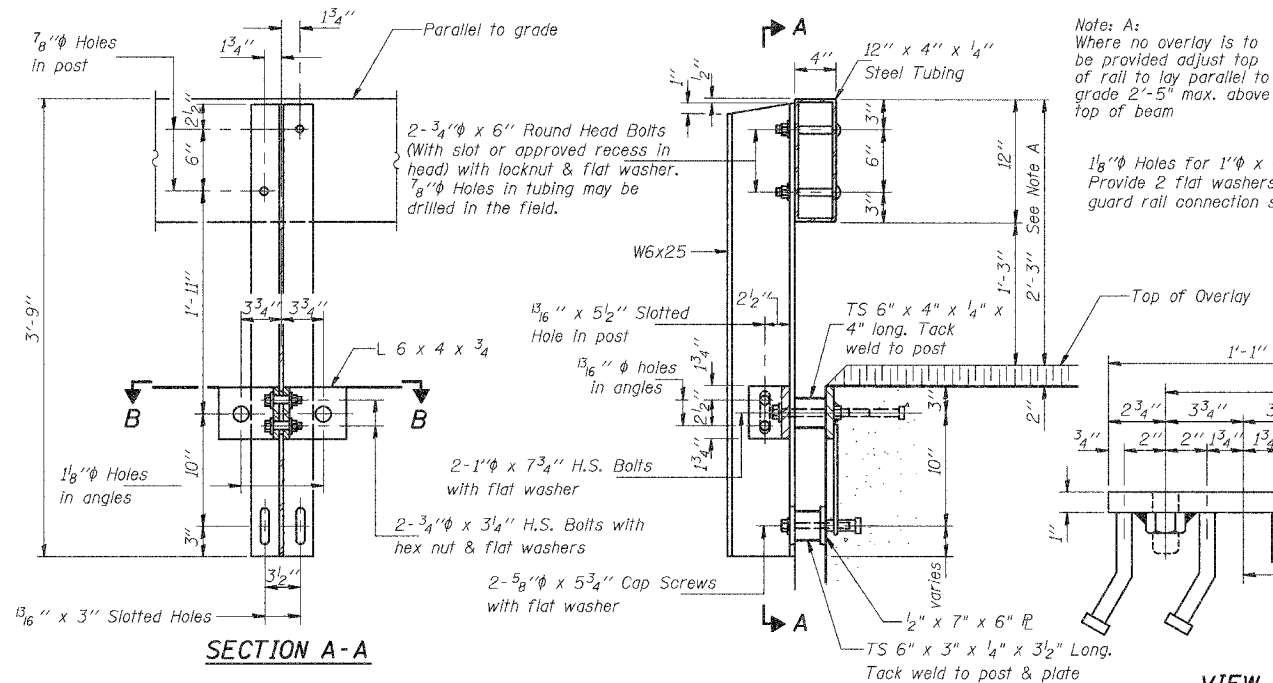
All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/2" fabric bearing pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(1)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

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.

The cost for curled end sections shall be included in the contract unit price for STEEL RAILING, TYPE S-1.

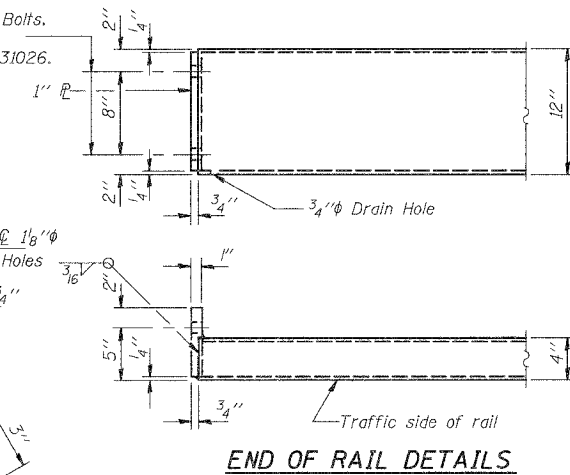


SECTION A-A

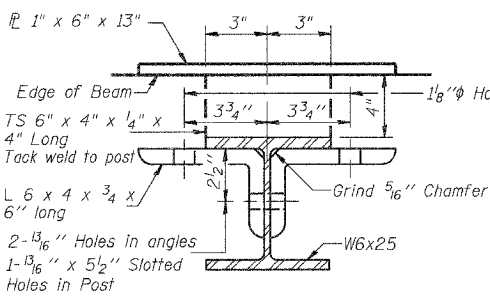
Note: A: Where no overlay is to be provided adjust top of rail to lay parallel to grade 2'-5" max. above top of beam

1/8" diameter Holes for 1" diameter x 4" Round Head Bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Std. 631026.

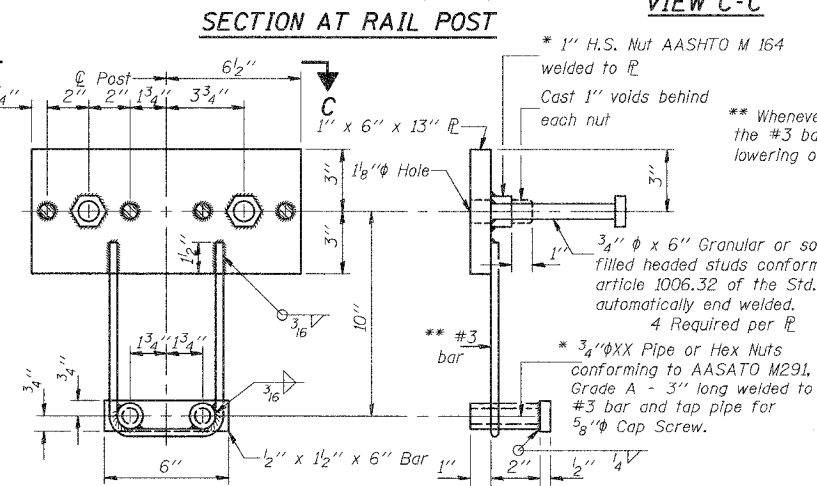
VIEW C-C



END OF RAIL DETAILS

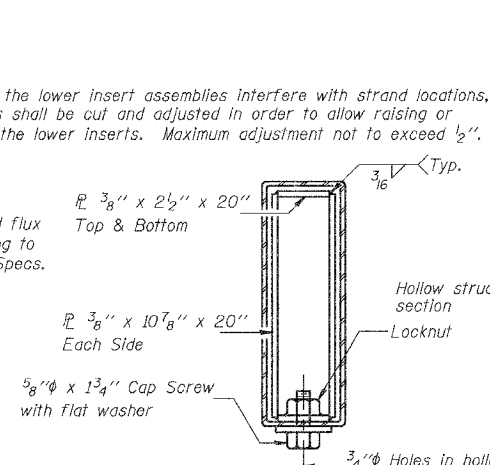


SECTION B-B

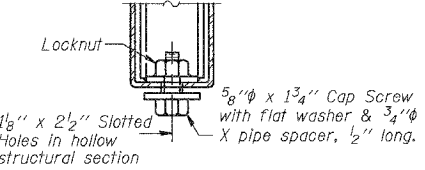


ANCHOR DEVICE

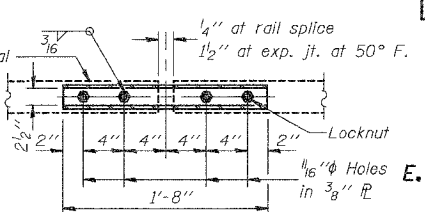
\* Threaded areas shall be plugged or blocked off during casting of beam.



SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE AT TYPICAL

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing Type S-1	Foot	140

TYPE S-1  
STEEL RAILING  
E. 3150 TH ROAD OVER PIKE CREEK  
SECTION 04-04113-00-BR  
BUREAU COUNTY  
STA. 10+00  
SN 006-4051

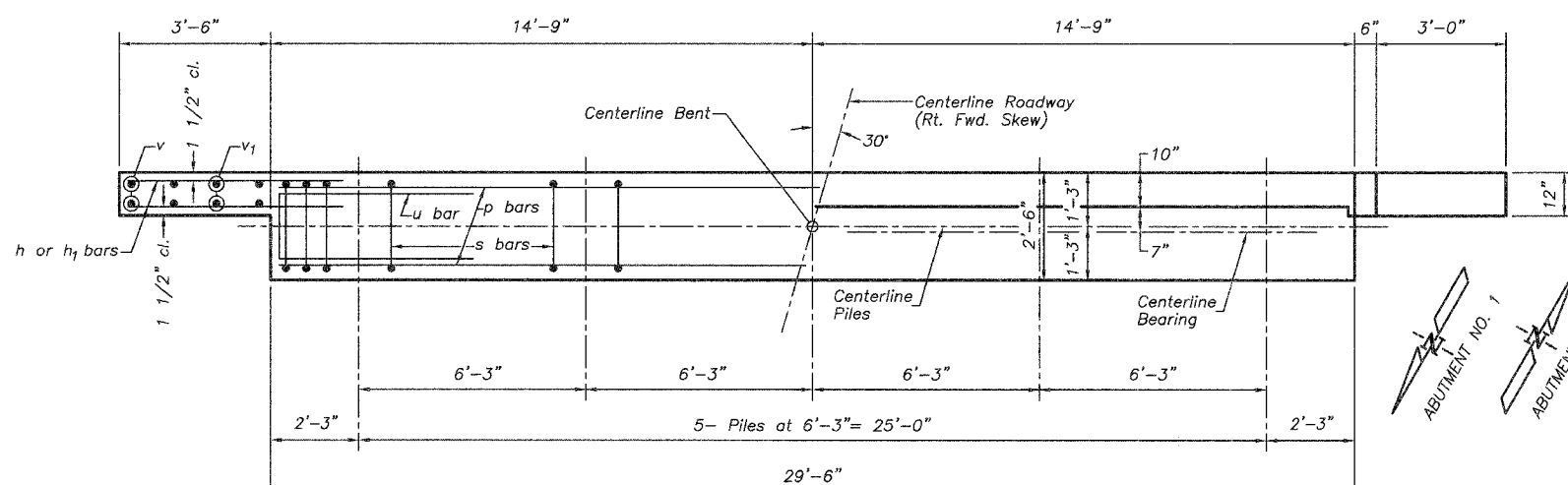
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DRAWN	
CHECKED	



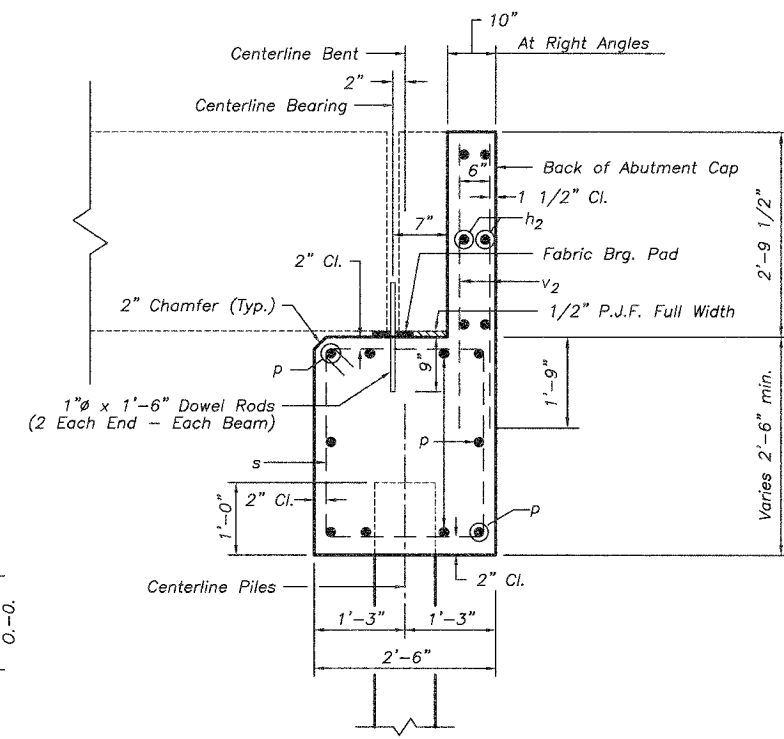
PROJECT NO.	EDITION	COUNTY	DATE	SHEET
E. 3150	*	BUREAU	15	7
FED. ROAD DIST. NO. 7	ALIGNED	FED. AID PROJECT		

Sheet 4 of 9 Sheets

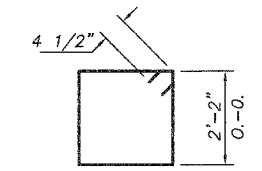
\* 04-04113-00-BR



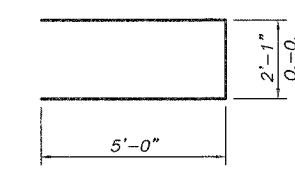
PLAN



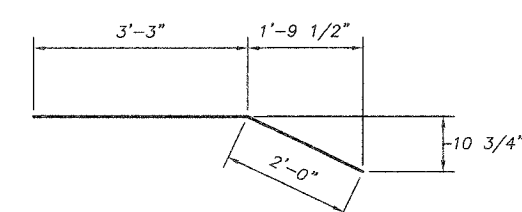
SECTION THRU ABUTMENT



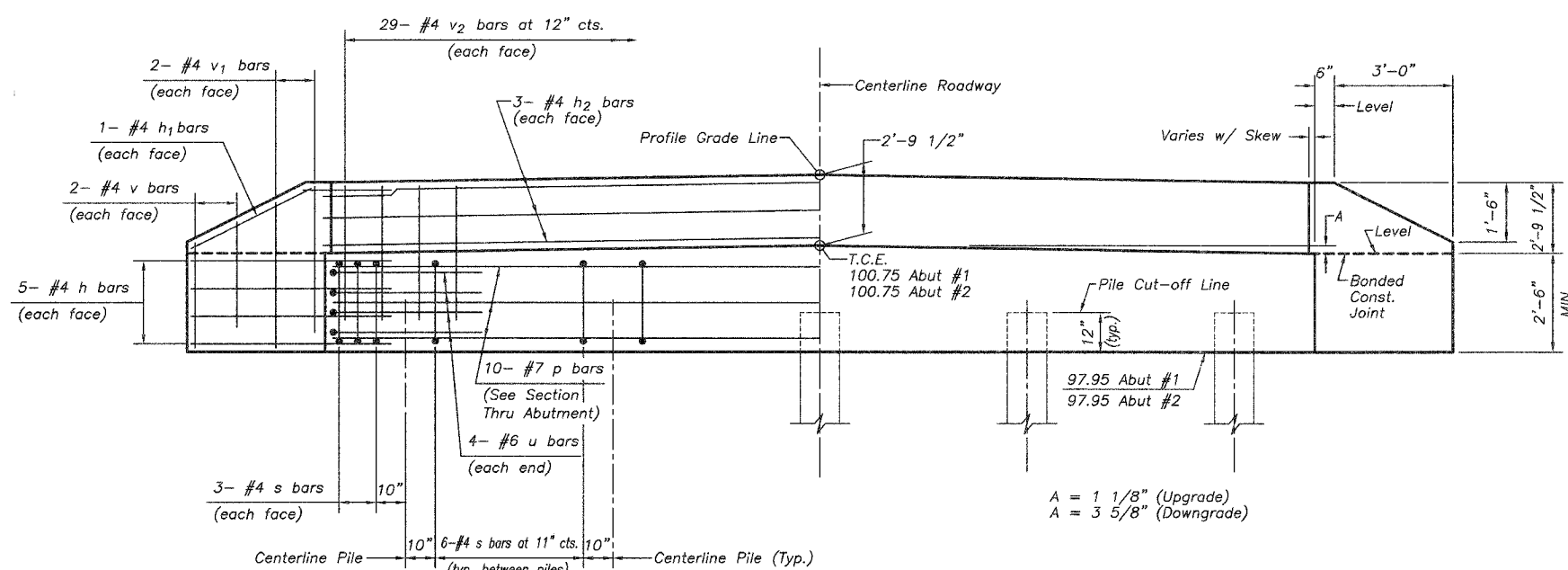
BAR s



BAR u



BAR h1



ELEVATION

**PILE DATA**

**Abutment No. 1** Type: Concrete  
Capacity: 39 Ton  
Est. Length: 43'  
No. Required: 4 Plus 1 Test Pile

**Abutment No. 2** Type: Concrete  
Capacity: 39 Ton  
Est. Length: 38'  
No. Required: 5

**NOTES**

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- 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.
- Space reinforcement in cap to miss anchor bolts.


BILL OF MATERIAL FOR ONE ABUTMENT				
Bar	No.	Size	Length	Shape
h	20	#4	5'-0"	
h <sub>1</sub>	4	#4	5'-3"	
h <sub>2</sub>	6	#4	29'-2"	
p	10	#7	29'-2"	
s	30	#4	9'-5"	□
u	8	#6	12'-1"	
v	8	#4	3'-8"	
v <sub>1</sub>	8	#4	4'-8"	
v <sub>2</sub>	58	#4	4'-5"	
Concrete Structures			Cu. Yd.	10.8
Reinforcement Bars			Pound	1340


ABUTMENT PLANS  
E. 3150 TH ROAD OVER PIKE CREEK  
SECTION 04-04113-00-BR  
BUREAU COUNTY  
STA. 10+00  
SN 006-4051

PROJECT NO.	SECTION	COUNTY	SECTION	SHEET NO.
E. 3150	*	BUREAU	15	8
FED. ROAD DIST. NO. 7	ALIGNED	FED. AID PROJECT		

Sheet 5  
of 9 Sheets

\* 04-04113-00-BR

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Sheet 1 of 4 Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Bureau County Highway Department Project Name: Section 04-04113-00-BR Project Site: Clarion Township		Boring No. B-1 Surface Elev. 99.80 Auger Depth 66' Rotary Depth NA Start Date 02/05/05 Finish Date 02/05/05	
Location: 2' Rt Station 19+60			
(DEPTH) ELEV. 99.80 98.80 97.80 96.80 95.80 94.80 93.80 92.80 91.80 90.80 89.80 88.80 87.80 86.80 85.80 84.80 83.80 82.80 81.80 80.80 79.80	DESCRIPTION OF MATERIALS Stiff Brown Gravelly Loam To Silty Clay (Fill) Stiff Brownish Gray Silty Clay Medium Brown Fine Sand And Coarse Gravel Medium Gray Fine Silty Clay	Graphical Log Depth in feet 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	SAMPLES Sample No. Sample Type Qu (TSF) N Value (Blows) Bulge / Shear Moisture (%) Dry Density (PCF)
			DRILLED BY Randy Sfranski Diedrich D-120
REMARKS Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:			

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Sheet 2 of 4 Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Bureau County Highway Department Project Name: Section 04-04113-00-BR Project Site: Clarion Township		Boring No. B-1 Surface Elev. 99.80 Auger Depth 66' Rotary Depth NA Start Date 02/05/05 Finish Date 02/05/05	
Location: 2' Rt Station 19+60			
(DEPTH) ELEV. 78.80 77.80 76.80 75.80 74.80 73.80 72.80 71.80 70.80 69.80 68.80 67.80 66.80 65.80 64.80 63.80 62.80 61.80 60.80 59.80 58.80	DESCRIPTION OF MATERIALS Very Stiff Gray Silty Clay Till Medium Gray Fine Sand	Graphical Log Depth in feet 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	SAMPLES Sample No. Sample Type Qu (TSF) N Value (Blows) Bulge / Shear Moisture (%) Dry Density (PCF)
			DRILLED BY Randy Sfranski Diedrich D-120
REMARKS Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:			


ELEVATION 100.00 = 100.3  
 STATION 20+00 = 10+00


SOIL BORINGS  
 E. 3150 TH ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY  
 STA. 10+00  
 SN 006-4051



ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
E. 3150	*	BUREAU	15	9
FED. ROAD DIST. NO. 7		ALWAYS	FILL IN PROJECT	

\* 04-04113-00-BR

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Bureau County Highway Department Project Name: Section 04-04113-00-BR Project Site: Clarion Township		Boring No. B-1 Surface Elev. 99.80 Auger Depth 66' Rotary Depth NA Start Date 02/05/05 Finish Date 02/05/05	
Location: 2' Rt Station 19+60		DRILLED BY Randy Safranski Diedrich D-120	
(DEPTH) ELEV. 57.80 56.80 55.80 54.80 53.80 52.80 51.80 50.80 49.80 48.80 47.80 46.80 45.80 44.80 43.80 42.80 41.80 40.80 39.80 38.80 37.80	GRAPHIC LOG Depth in feet 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	SAMPLES Sample No. Sample Type Qu (TSF) N Value (Blows) Builge / Shear Moisture (%) Dry Density (PCF)	
		DESCRIPTION OF MATERIALS Medium Gray Fine Sand With Occasional Coarse Gravel Hard Pink To Gray Silty Clay Loam Till	
Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:		25 SS 4.5 22 B 11	

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: Bureau County Highway Department Project Name: Section 04-04113-00-BR Project Site: Clarion Township		Boring No. B-1 Surface Elev. 99.80 Auger Depth 66' Rotary Depth NA Start Date 02/05/05 Finish Date 02/05/05	
Location: 2' Rt Station 19+60		DRILLED BY Randy Safranski Diedrich D-120	
(DEPTH) ELEV. 36.80 35.80 34.80 33.80 32.80 31.80 30.80 29.80 28.80 27.80 26.80 25.80 24.80 23.80 22.80 21.80 20.80 19.80 18.80 17.80 16.80	GRAPHIC LOG Depth in feet 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36	SAMPLES Sample No. Sample Type Qu (TSF) N Value (Blows) Builge / Shear Moisture (%) Dry Density (PCF)	
		DESCRIPTION OF MATERIALS Hard Pink To Gray Silty Clay Loam Till Bottom of Boring	
Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:		25 SS 4.5 22 B 11	


ELEVATION 100.00 = 100.3  
 STATION 20+00 = 10+00

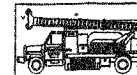
SOIL BORINGS  
 E. 3150 TH ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY  
 STA. 10+00  
 SN 006-4051

ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO.
E. 3150	*	BUREAU	15	10
FED. ROAD DIST. NO. 7		LANE	FED. AID PROJECT	

Sheet 7  
of 9 Sheets

\* 04-04113-00-BR

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Sheet 1 of 4		Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net					
Client: Bureau County Highway Department Project Name: Section 04-04113-00-BR Project Site: Clarion Township		Boring No. B-2 Surface Elev. 99.80 Auger Depth 66' Rotary Depth NA Start Date 02/05/05 Finish Date 02/05/05							
Location: 2' Lt Station 20+40									
		DRILLED BY Randy Szafranski Didrich D-120							
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
99.80									
98.80	Stiff Brown Silty Clay (Fill)	1	SS	1.4	7	B	20		
97.80		2	SS	1.1	6	B	22		
96.80		3	SS	1.9	8	B	19		
95.80	Stiff Black To Brownish Gray Silty Clay	4	SS	--	23	--	--		
94.80		5	SS	--	19	--	--		
93.80	Medium Brown Fine Sand And Coarse Gravel	6	SS	--	21	--	--		
92.80		7	SS	--	25	--	--		
91.80		8	SS	--	29	--	--		
90.80									
89.80									
88.80									
87.80									
86.80									
85.80									
84.80									
83.80									
82.80									
81.80									
80.80									
79.80									
Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:									

 <b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Sheet 2 of 4		Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net						
Client: Bureau County Highway Department Project Name: Section 04-04113-00-BR Project Site: Clarion Township		Boring No. B-2 Surface Elev. 99.80 Auger Depth 66' Rotary Depth NA Start Date 02/05/05 Finish Date 02/05/05								
Location: 2' Lt Station 20+40										
		DRILLED BY Randy Szafranski Didrich D-120								
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS	
78.80										
77.80	Very Stiff Gray Silty Clay Till	9	SS	2.3	14	B	17			
76.80		10	SS	2.5	16	B	16			
75.80		11	SS	3.3	18	B	15			
74.80		12	SS	3.0	15	B	16			
73.80		13	SS	2.2	14	B	17			
72.80		14	SS	2.6	14	B	16			
71.80		15	SS	--	14	--	--			
70.80		Medium Gray Fine Sand	16	SS	--	14	--	--		
69.80										
68.80										
67.80										
66.80										
65.80										
64.80										
63.80										
62.80										
61.80										
60.80										
59.80										
58.80										
Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:										

ELEVATION 100.00 = 100.3  
 STATION 20+00 = 10+00

SOIL BORINGS  
 E. 3150 TH ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY  
 STA. 10+00  
 SN 006-4051

ASR#	SECTION	COUNTY	POST	SHEET
E. 3150	*	BUREAU	15	11
FED. ROAD DIST. NO. 7		ALWAYS	FED. AID PROJECT	

Sheet 8  
of 9 Sheets

\* 04-04113-00-BR

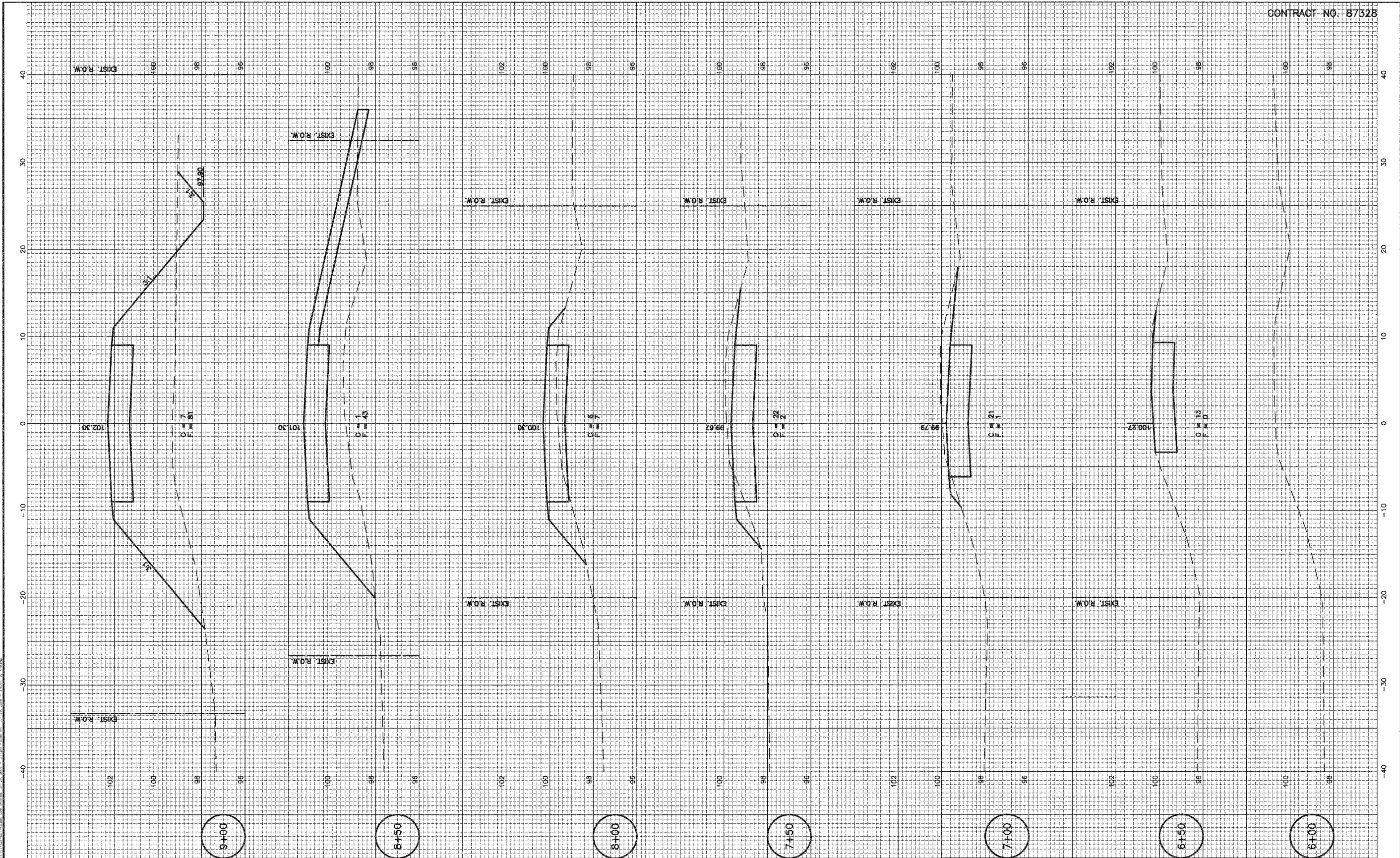
<b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Sheet <u>3</u> of <u>4</u>		Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: <u>Bureau County Highway Department</u> Project Name: <u>Section 04-04113-00-BR</u> Project Site: <u>Clarion Township</u>		Boring No. <u>B-2</u> Surface Elev. <u>99.80</u> Auger Depth <u>66'</u> Rotary Depth <u>NA</u> Start Date <u>02/05/05</u> Finish Date <u>02/05/05</u>			
Location: <u>2' Lt Station 20+40</u>					
DRILLED BY Randy Sfranski Diedrich D-120					
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Caplin Log	Depth in feet	Sample No. Sample Type Qu (TSF) N Value (Blows) Bulge / Shear Moisture (%) Dry Density (PCF)	REMARKS
57.80					
56.80			43	17 SS -- 14 -- --	
55.80			44		
54.80			45	18 SS -- 17 -- --	
53.80			46		
52.80			47		
51.80			48	19 SS -- 17 -- --	
50.80	Medium Gray Fine Sand With Occasional Coarse Gravel		49		
49.80			50	20 SS -- 18 -- --	
48.80			51		
47.80			52		
46.80			53	21 SS -- 16 -- --	
45.80			54		
44.80			55		
43.80			56	22 SS -- 15 -- --	
42.80			57		
41.80			58	23 SS -- 19 -- --	
40.80			59		
39.80	Hard Pink To Gray Silty Clay Loam Till		60	24 SS 5.5 32 S 10	
38.80			61		
37.80			62	25 SS 4.9 25 S 11	
Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:					

<b>Midwest Testing Services, Inc.</b> 3705 Progress Blvd. Peru, IL 61354		<b>BORING LOG</b> Sheet <u>4</u> of <u>4</u>		Phone: 815-223-6696 Fax: 815-223-6659 E-Mail: Midwest@TheRamp.net	
Client: <u>Bureau County Highway Department</u> Project Name: <u>Section 04-04113-00-BR</u> Project Site: <u>Clarion Township</u>		Boring No. <u>B-2</u> Surface Elev. <u>99.80</u> Auger Depth <u>66'</u> Rotary Depth <u>NA</u> Start Date <u>02/05/05</u> Finish Date <u>02/05/05</u>			
Location: <u>2' Lt Station 20+40</u>					
DRILLED BY Randy Sfranski Diedrich D-120					
(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Caplin Log	Depth in feet	Sample No. Sample Type Qu (TSF) N Value (Blows) Bulge / Shear Moisture (%) Dry Density (PCF)	REMARKS
36.80					
35.80	Hard Pink To Gray Silty Clay Loam Till		64		
34.80			65		
33.80			66	26 SS 5.4 33 S 10	
32.80	Bottom of Boring		67		
31.80			68		
30.80			69		
29.80			70		
28.80			71		
27.80			72		
26.80			73		
25.80			74		
24.80			75		
23.80			76		
22.80			77		
21.80			78		
20.80			79		
19.80			80		
18.80			81		
17.80			82		
16.80			83		
Groundwater Data: Static water level after auger removal - elevation 91.5 Comments:					

ELEVATION 100.00 = 100.3  
 STATION 20+00 = 10+00

SOIL BORINGS  
 E. 3150 TH ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY  
 STA. 10+00  
 SN 006-4051





DRAWN BY: NQ  
 CHECKED BY: JKC

CAD/DWG: PXS  
 DATE: 03/06

REVISIONS	
DATE	BY



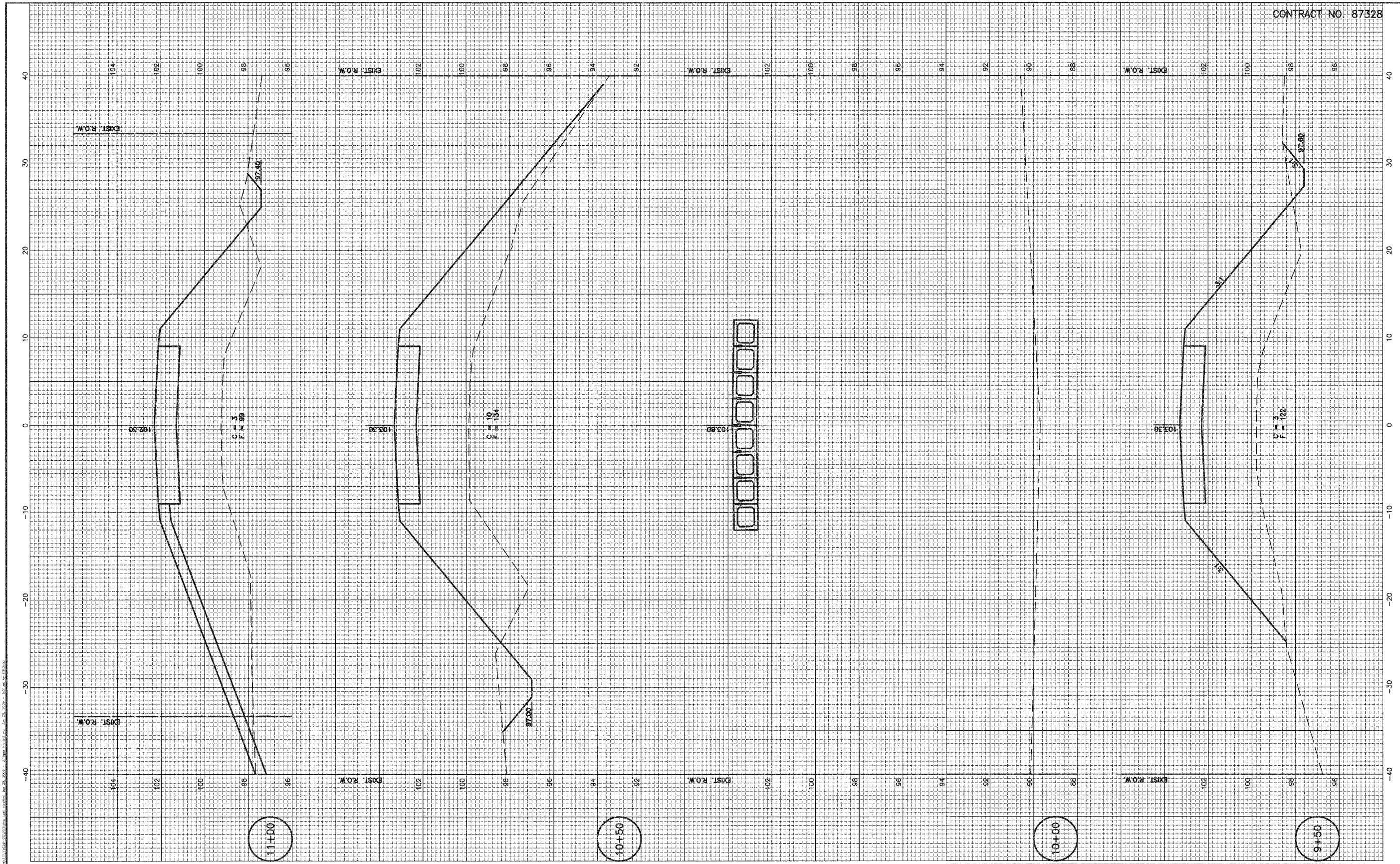
PERU MORRIS  
 ILLINOIS

EAST 3150 ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY

CROSS SECTIONS

SCALE: AS NOTED  
 FILE NO.: 11638.00Y-1  
 SHEET 13 OF 15





DRAWN BY: NQ  
 CHECKED BY: JKC

CAD/DWG: PXS  
 DATE: 03/06

REVISIONS	
DATE	BY

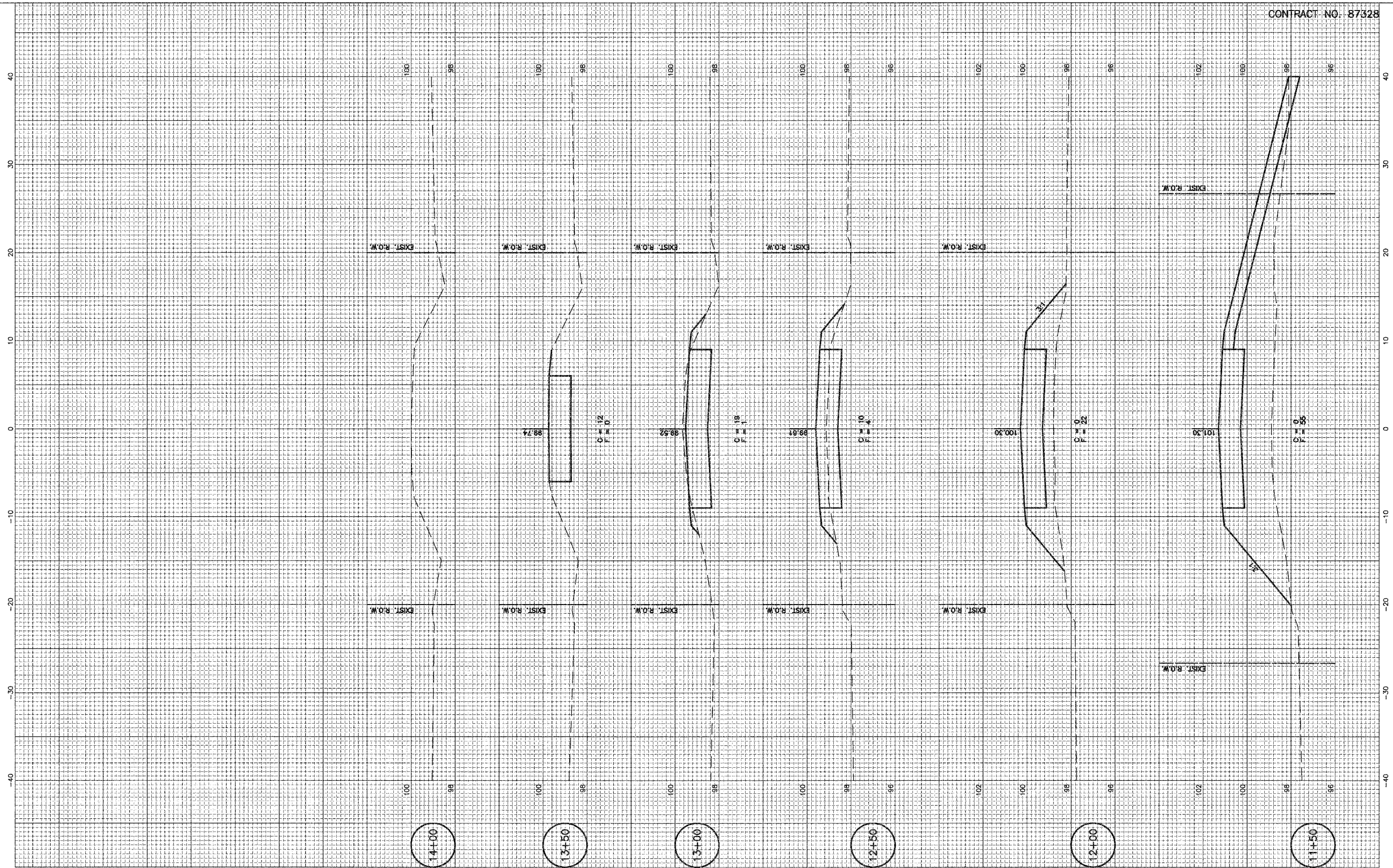


PERU MORRIS  
 ILLINOIS

EAST 3150 ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY

CROSS SECTIONS

SCALE: AS NOTED  
 SHEET 14  
 FILE NO.: 11638.00-1 OF 15



DRAWN BY: NQ  
 CHECKED BY: JKC

CAD./DWG: PXS  
 DATE: 03/06

REVISIONS	
DATE	BY



PERU MORRIS  
 ILLINOIS

EAST 3150 ROAD OVER PIKE CREEK  
 SECTION 04-04113-00-BR  
 BUREAU COUNTY

CROSS SECTIONS

SCALE: AS NOTED  
 SHEET 15  
 FILE NO.: 11638.00Y-1  
 OF 15