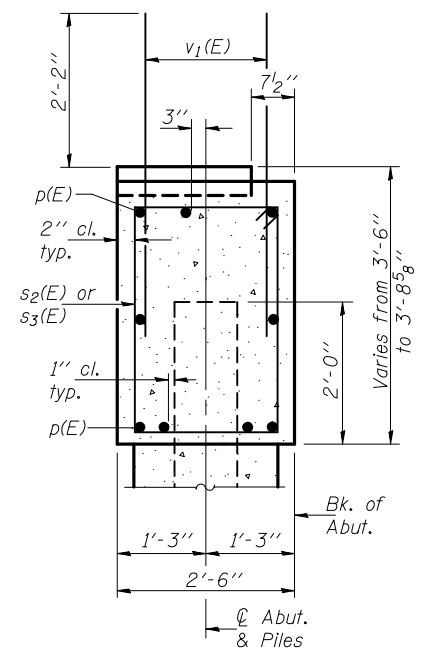
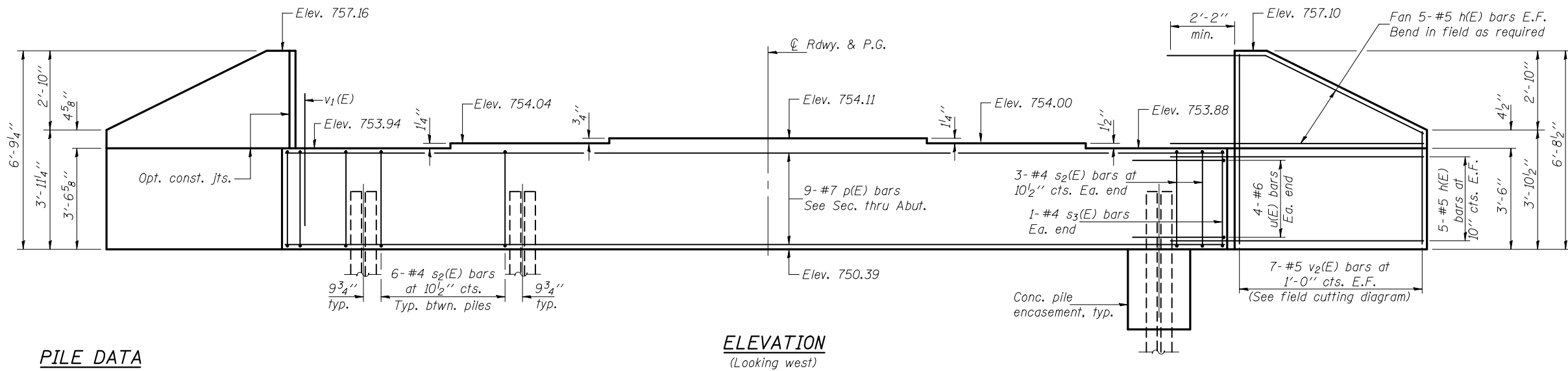


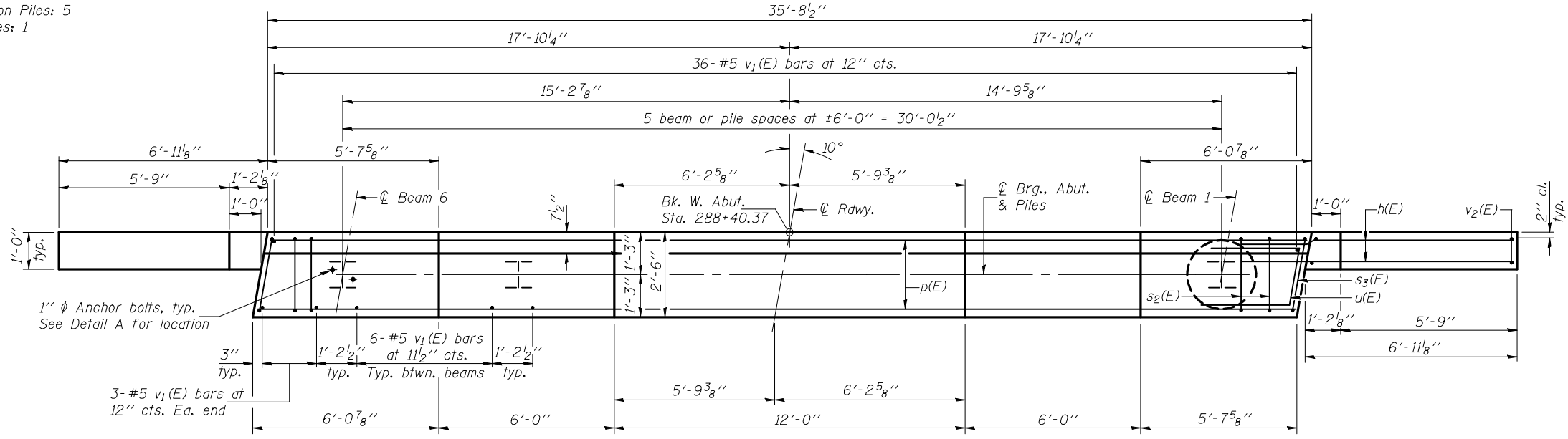
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SEC. THRU ABUT.

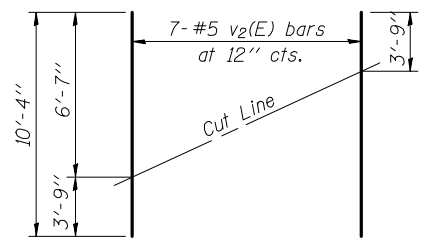
PILE DATA
 Type: Steel HP12x53
 Nominal Required Bearing: 280 Kips
 Factored Resistance Available: 140 Kips
 Est. Length: 71'
 No. Production Piles: 5
 No. Test Piles: 1

ELEVATION
(Looking west)

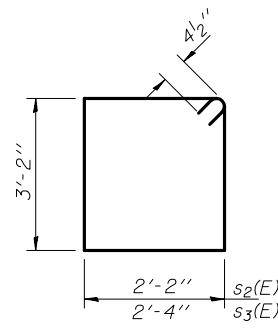


PLAN

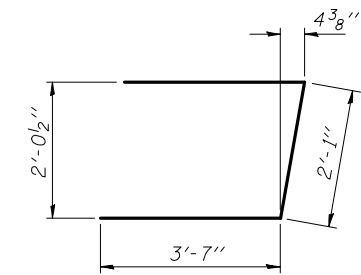
Notes: Pour steps monolithically with cap.
 Pile shall be driven through 18" diameter pre-cored holes extending to Elev. 716.0 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.



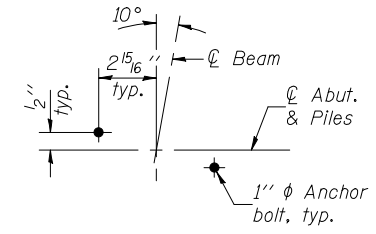
FIELD CUTTING DIAGRAM
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)



DETAIL A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	9'-6"	—
p(E)	9	#7	35'-4"	—
s2(E)	36	#4	11'-5"	□
s3(E)	2	#4	11'-9"	□
u(E)	8	#6	9'-3"	┌
v1(E)	72	#5	4'-4"	—
v2(E)	14	#5	10'-4"	—
Structure Excavation		Cu. Yd.	69	
Concrete Structures		Cu. Yd.	14.8	
Reinforcement Bars, Epoxy Coated		Pound	1920	
Furnishing Steel Piles HP12x53		Foot	355	
Driving Piles		Foot	355	
Test Pile Steel HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	
Anchor Bolts 1"		Each	12	

For details of piles and concrete encasement, see sheet 22 of 25.

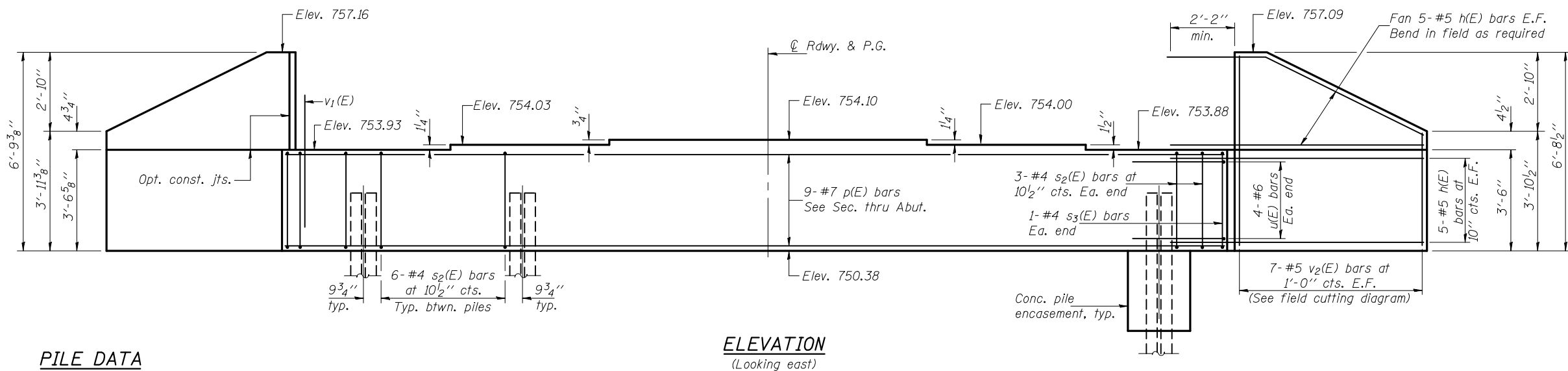
DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
 EXAMINED *Thomas J. Domagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

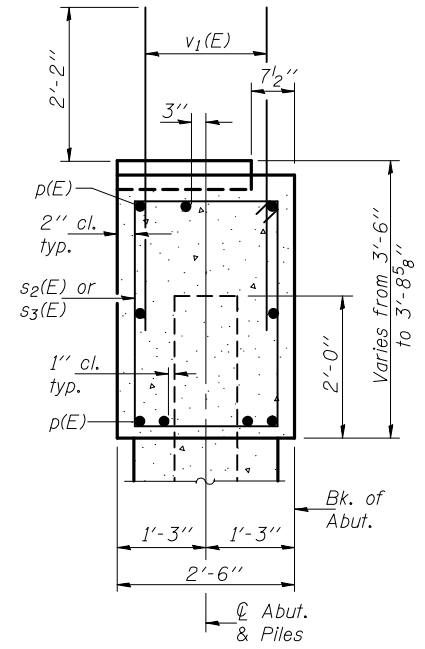
**WEST ABUTMENT
STRUCTURE NO. 074-0086**

SHEET NO. 16 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	101
			CONTRACT NO. 70388		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



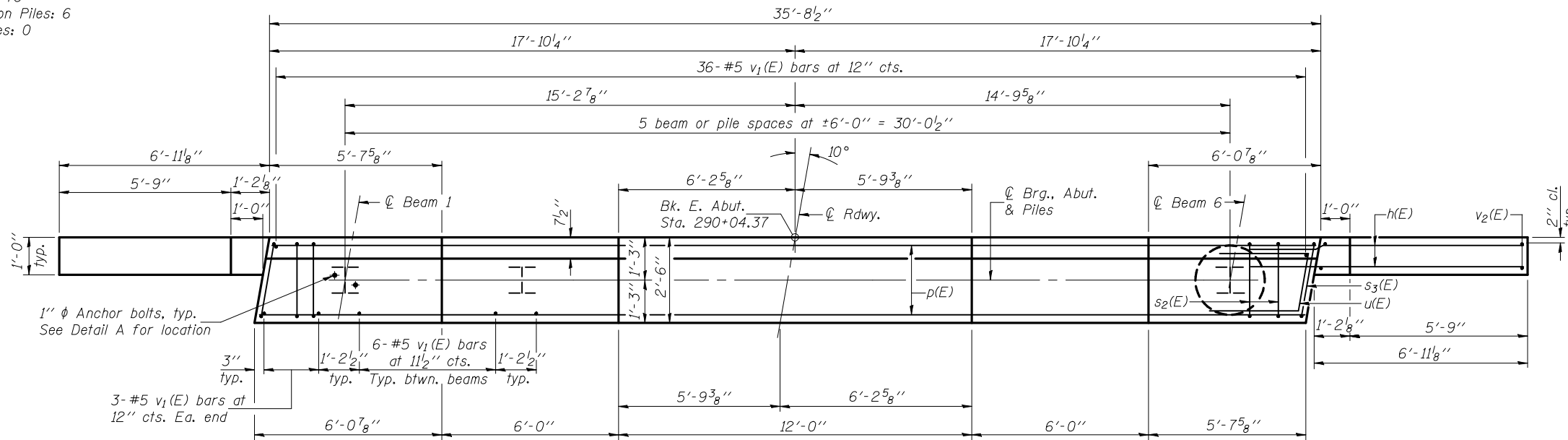
ELEVATION
(Looking east)



SEC. THRU ABUT.

PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 280 Kips
Factored Resistance Available: 140 Kips
Est. Length: 76'
No. Production Piles: 6
No. Test Piles: 0



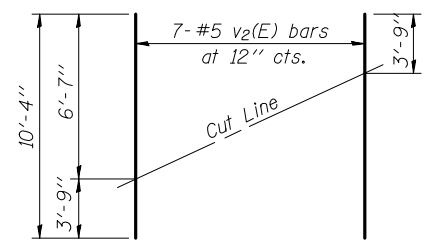
PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	9'-6"	
p(E)	9	#7	35'-4"	
s2(E)	36	#4	11'-5"	□
s3(E)	2	#4	11'-9"	□
u(E)	8	#6	9'-3"	⌋
v1(E)	72	#5	4'-4"	
v2(E)	14	#5	10'-4"	
Structure Excavation		Cu. Yd.	69	
Concrete Structures		Cu. Yd.	14.8	
Reinforcement Bars, Epoxy Coated		Pound	1920	
Furnishing Steel Piles HP12x53		Foot	456	
Driving Piles		Foot	456	
Concrete Encasement		Cu. Yd.	2.1	
Anchor Bolts 1"		Each	12	

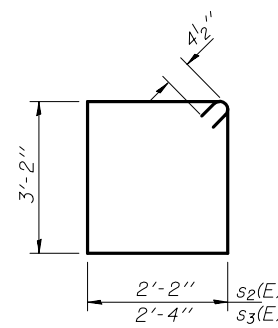
For details of piles and concrete encasement, see sheet 22 of 25.

Notes: Pour steps monolithically with cap.
Pile shall be driven through 18" diameter pre-cored holes extending to Elev. 716.0 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

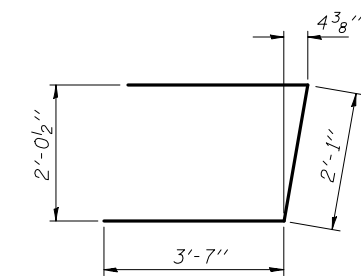


FIELD CUTTING DIAGRAM

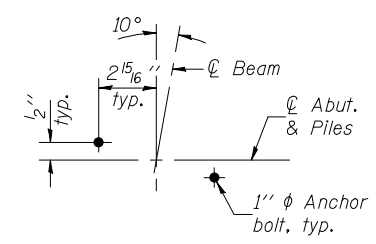
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)



DETAIL A

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

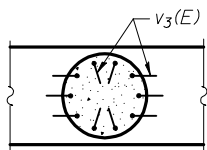
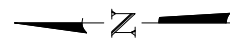
November 25, 2009
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*

**EAST ABUTMENT
STRUCTURE NO. 074-0086**

SHEET NO. 17 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	102
CONTRACT NO. 70388					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

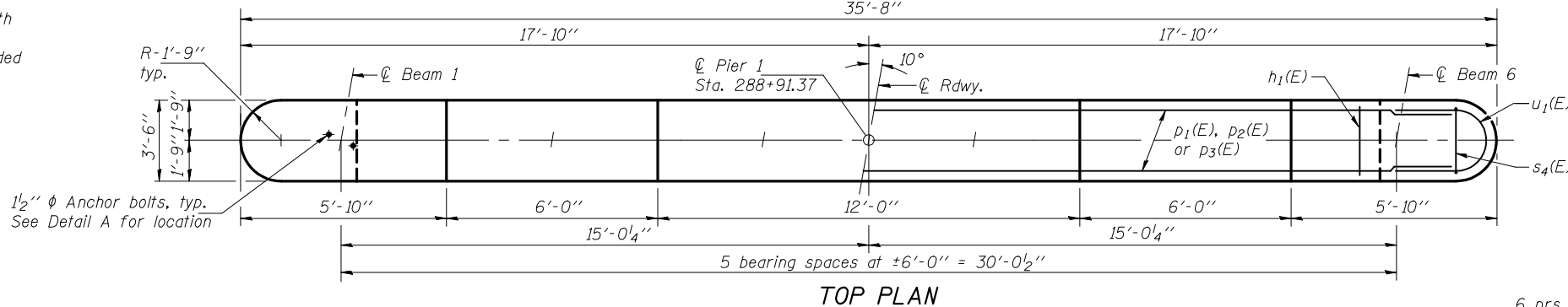
Notes: Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 When splicing of spiral reinforcement is necessary, the spiral shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

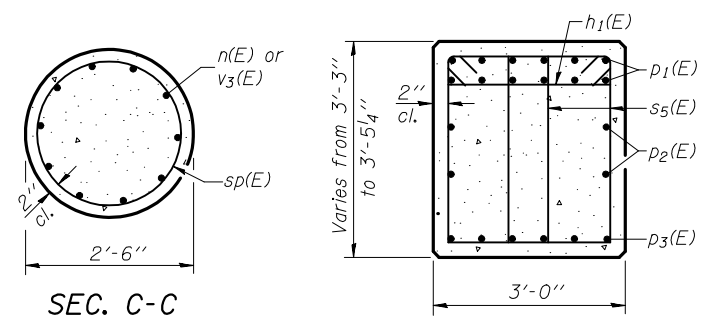


DETAIL B

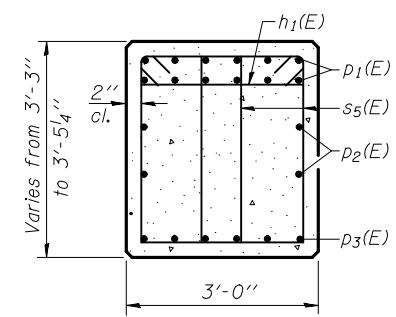
Plan view of partial cap showing hook orientation of v3(E) bars.



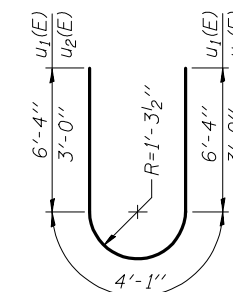
TOP PLAN



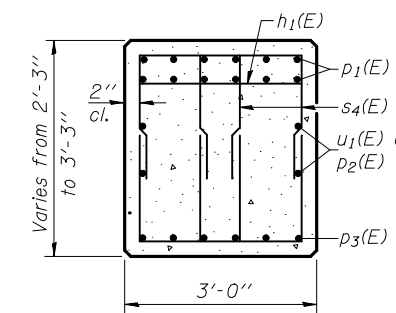
SEC. C-C



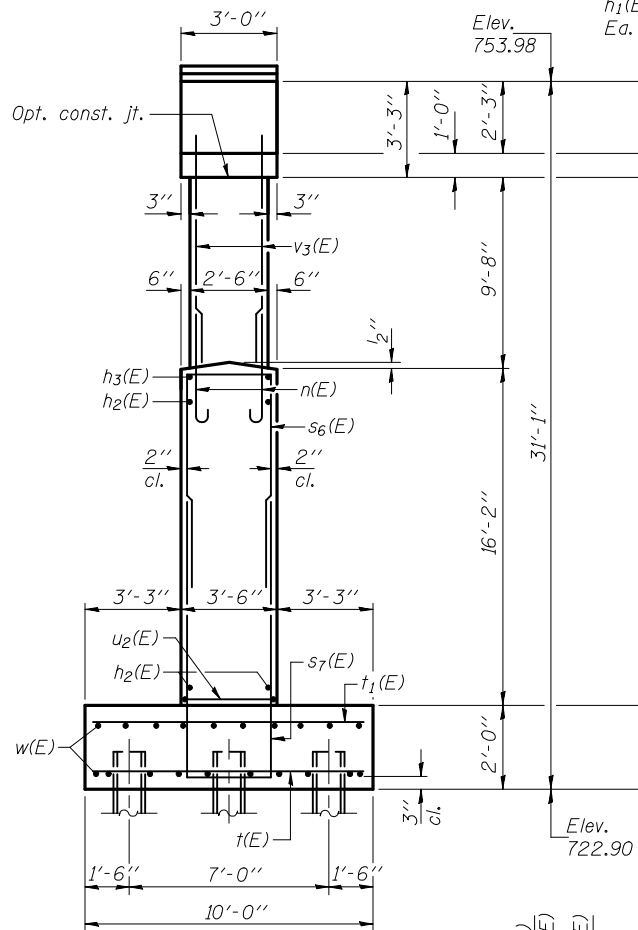
SEC. A-A



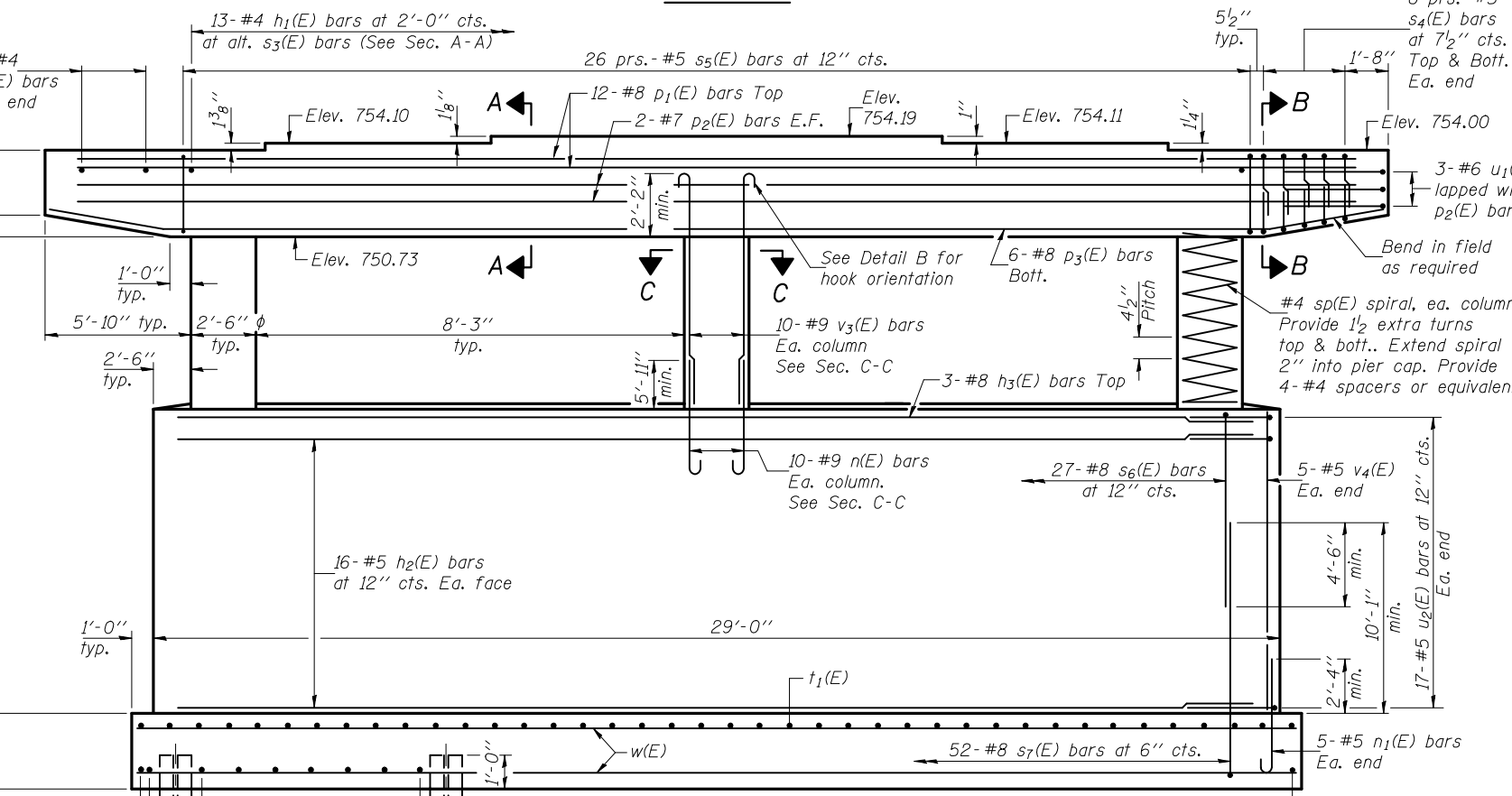
BARS u1(E)
& u2(E)



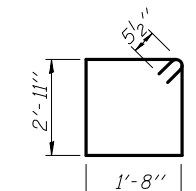
SEC. B-B



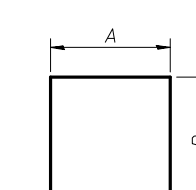
END VIEW



ELEVATION
(Looking east)



BAR s5(E)



BARS s4(E),
s6(E) & s7(E)

A & B DIMENSIONS

Bar	A	B
s4(E)	1'-8"	2'-7"
s6(E)	3'-2"	10'-5"
s7(E)	3'-2"	11'-11"

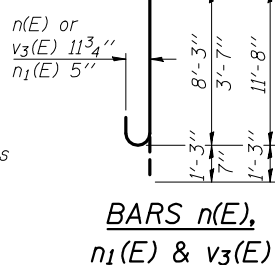
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	17	#4	2'-8"	—
h2(E)	32	#5	25'-6"	—
h3(E)	3	#8	25'-6"	—
n(E)	30	#9	9'-6"	U
n1(E)	10	#5	4'-2"	U
p1(E)	12	#8	32'-2"	—
p2(E)	4	#7	32'-2"	—
p3(E)	6	#8	35'-2"	—
s4(E)	48	#5	6'-10"	L
s5(E)	52	#5	10'-1"	□
s6(E)	27	#8	24'-0"	L
s7(E)	52	#8	27'-0"	L
sp(E)	3	#4	10'-0"	W
t(E)	48	#7	9'-6"	—
t1(E)	32	#7	9'-6"	—
u1(E)	6	#6	16'-9"	U
u2(E)	34	#5	10'-1"	U
v3(E)	30	#9	12'-11"	U
v4(E)	10	#5	13'-8"	—
w(E)	20	#5	30'-6"	—
Structure Excavation			Cu. Yd.	112
Concrete Structures			Cu. Yd.	103.7
Reinforcement Bars, Epoxy Coated			Pound	14880
Furnishing Steel Piles HP12x53			Foot	795
Driving Piles			Foot	795
Anchor Bolts 1 1/2"			Each	12

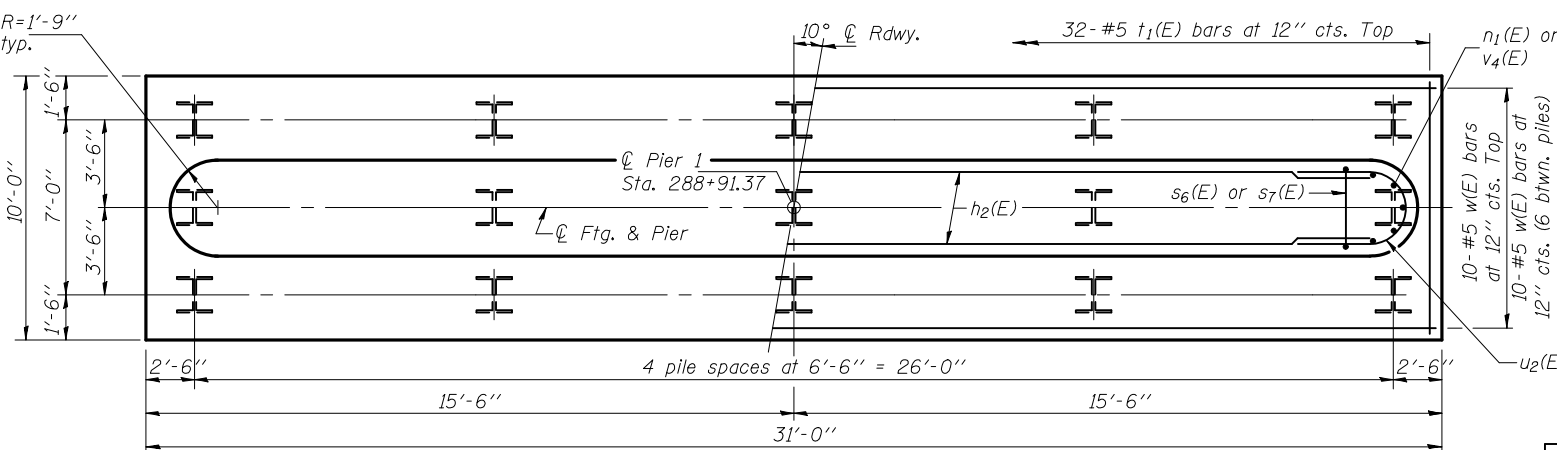
*Weight includes spacers for spirals.
 **Length is height of spiral.

PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 360 Kips
 Factored Resistance Available: 180 Kips
 Est. Length: 53'
 No. Production Piles: 15
 No. Test Piles: 0



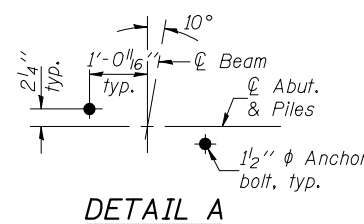
BARS n(E),
n1(E) & v3(E)



FOOTING PLAN

MIN. BAR LAPS

#5 bar = 2'-2"
 #8 bar (lapped with #6 bar) = 6'-4"



DETAIL A

PIER 1

STRUCTURE NO. 074-0086

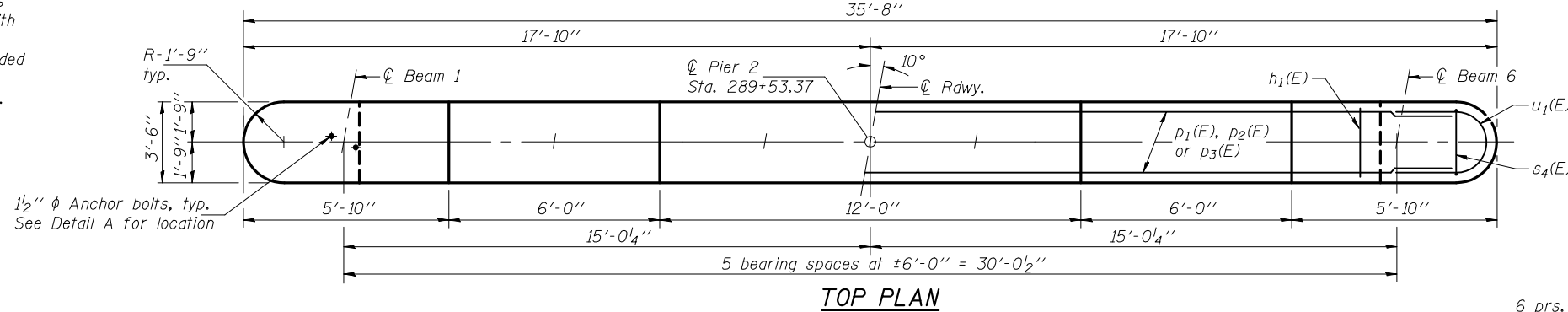
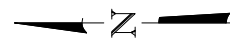
DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

EXAMINED	November 25, 2009
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

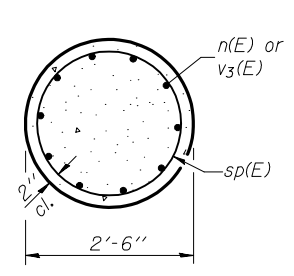
SHEET NO. 18 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	103
CONTRACT NO. 70388					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

Notes: Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 When splicing of spiral reinforcement is necessary, the spiral shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
 For limits of braced excavation, see sheet 2 of 25.

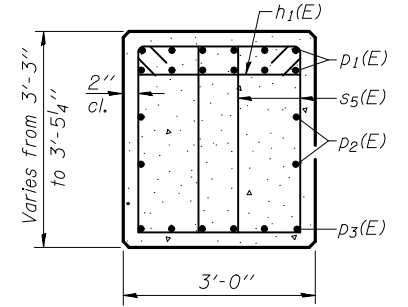
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



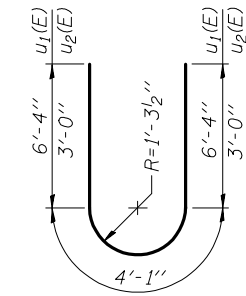
TOP PLAN



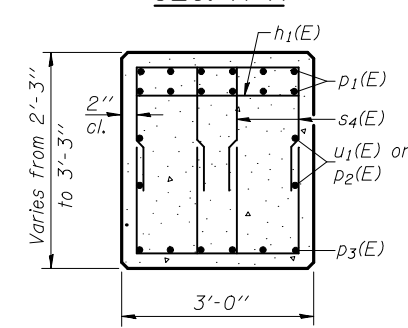
SEC. C-C



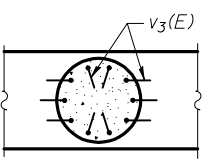
SEC. A-A



BARS u1(E) & u2(E)

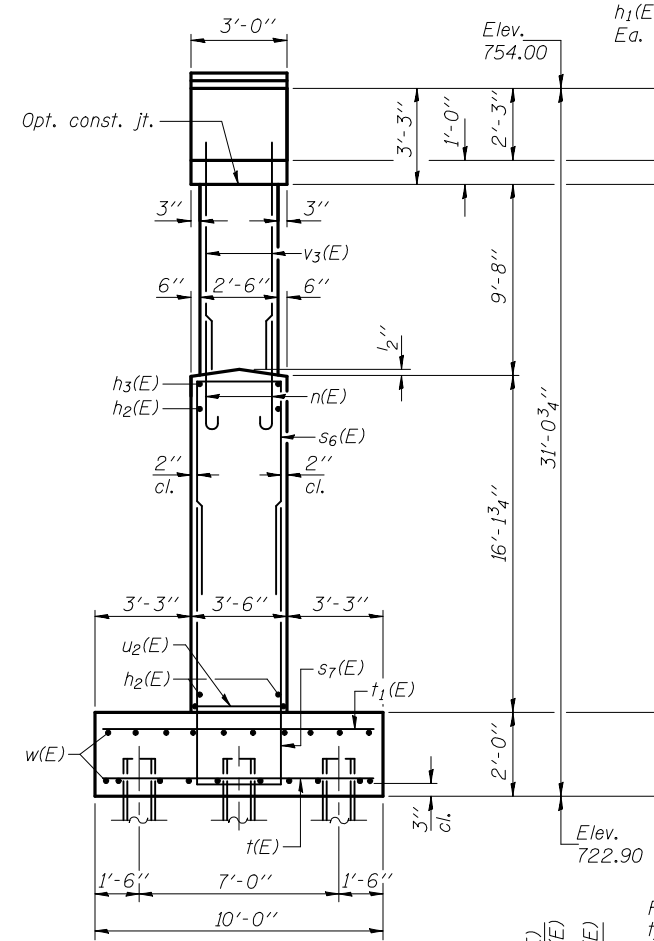


SEC. B-B



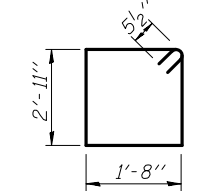
DETAIL B

Plan view of partial cap showing hook orientation of v3(E) bars.

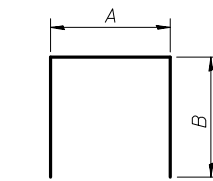


ELEVATION

(Looking east)



BAR s5(E)



BARS s4(E), s6(E) & s7(E)

A & B DIMENSIONS

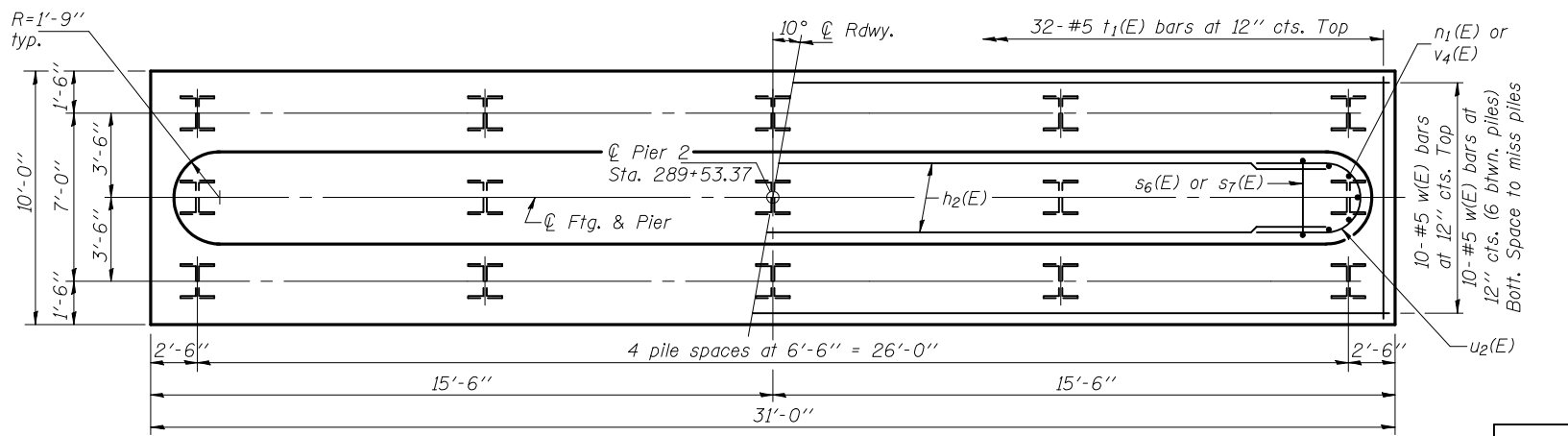
Bar	A	B
s4(E)	1'-8"	2'-7"
s6(E)	3'-2"	10'-5"
s7(E)	3'-2"	11'-11"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	17	#4	2'-8"	—
h2(E)	32	#5	25'-6"	—
h3(E)	3	#8	25'-6"	—
n(E)	30	#9	9'-6"	U
n1(E)	10	#5	4'-2"	U
p1(E)	12	#8	32'-2"	—
p2(E)	4	#7	32'-2"	—
p3(E)	6	#8	35'-2"	—
s4(E)	48	#5	6'-10"	L
s5(E)	52	#5	10'-1"	□
s6(E)	27	#8	24'-0"	L
s7(E)	52	#8	27'-0"	L
sp(E)	3	#4	10'-0"	W
t(E)	48	#7	9'-6"	—
t1(E)	32	#7	9'-6"	—
u1(E)	6	#6	16'-9"	U
u2(E)	34	#5	10'-1"	U
v3(E)	30	#9	12'-11"	U
v4(E)	10	#5	13'-8"	—
w(E)	20	#5	30'-6"	—
Braced Excavation			Cu. Yd.	112
Concrete Structures			Cu. Yd.	103.7
Reinforcement Bars, Epoxy Coated			Pound	14880
Furnishing Steel Piles HP12x53			Foot	742
Driving Piles			Foot	742
Test Pile Steel HP12x53			Each	1
Anchor Bolts 1/2"			Each	12

*Weight includes spacers for spirals.
 **Length is height of spiral.

PIER 2
 STRUCTURE NO. 074-0086



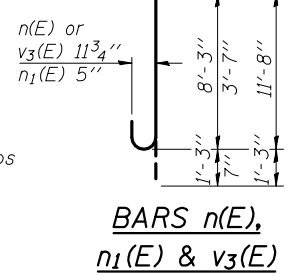
FOOTING PLAN

MIN. BAR LAPS

#5 bar = 2'-2"
 #8 bar (lapped with #6 bar) = 6'-4"

PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 360 Kips
 Factored Resistance Available: 180 Kips
 Est. Length: 53'
 No. Production Piles: 14
 No. Test Piles: 1



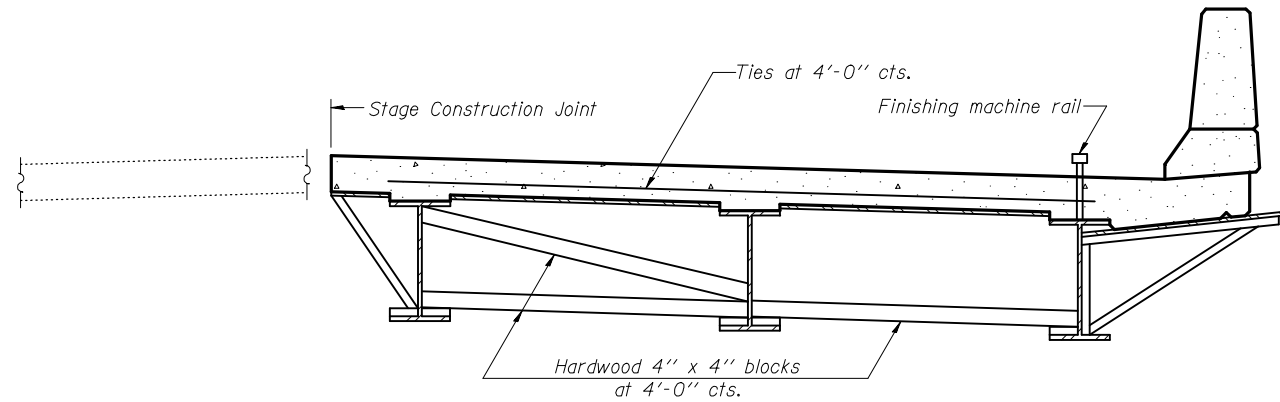
BARS n(E), n1(E) & v3(E)

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

EXAMINED	November 25, 2009
PASSED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

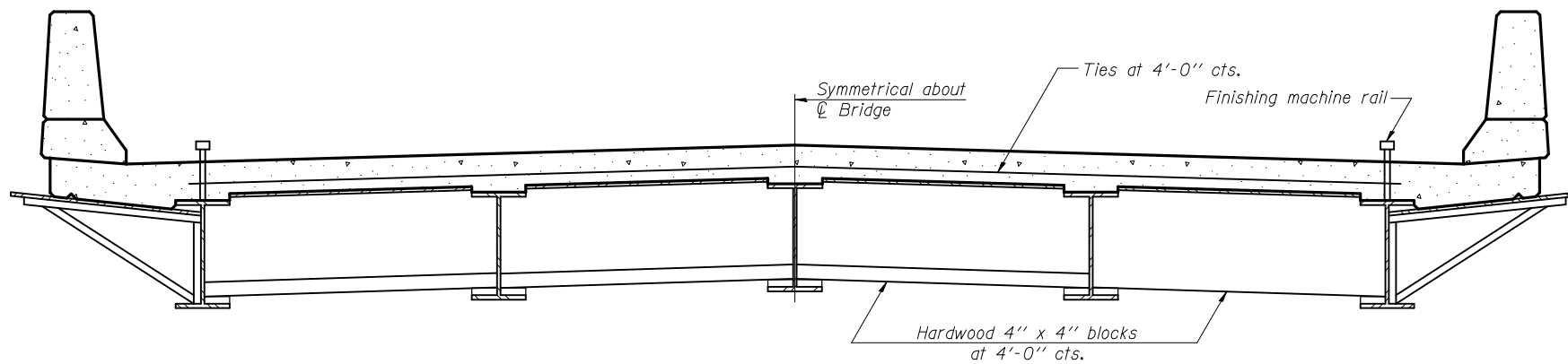
SHEET NO. 19 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	104
SN 074-0086			CONTRACT NO. 70388		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FORM BRACES FOR STAGE CONSTRUCTION

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.
The finishing machine rails shall be placed on the top flange of the exterior beams.
The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.
For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



FORM BRACES FOR STANDARD CONSTRUCTION

CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES
WITH W27 BEAMS AND SMALLER
STRUCTURE NO. 074-0086

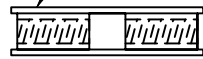
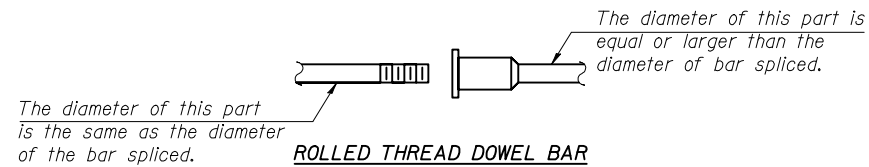
DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SB-1 5-16-08

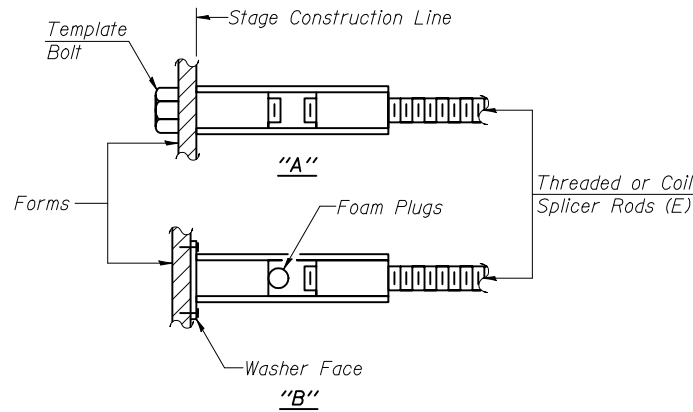
SHEET NO. 20 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	105
			CONTRACT NO. 70388		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

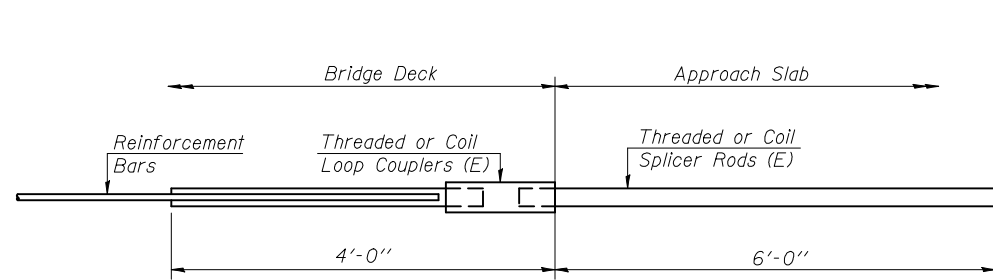
NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

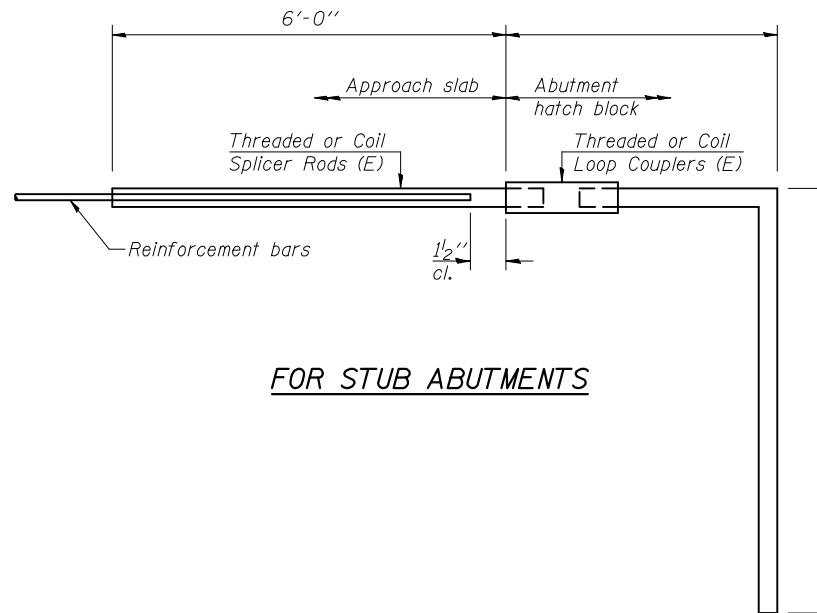
- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

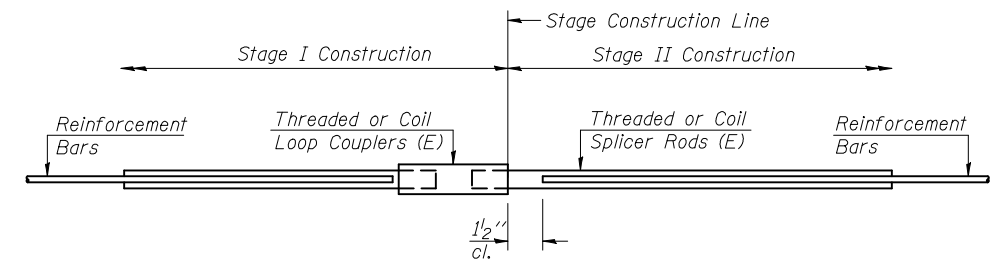
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



FOR STUB ABUTMENTS



STANDARD

Bar Size	No. Assemblies Required	Location

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 64

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =

BAR SPLICER ASSEMBLY DETAILS

STRUCTURE NO. 074-0086

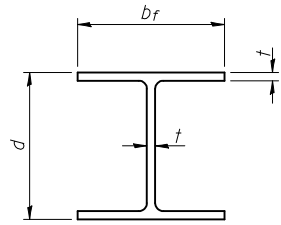
DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

EXAMINED	November 25, 2009	Thomas J. Domagala
PASSED		Ralph E. Anderson

BSD-1 5-16-08

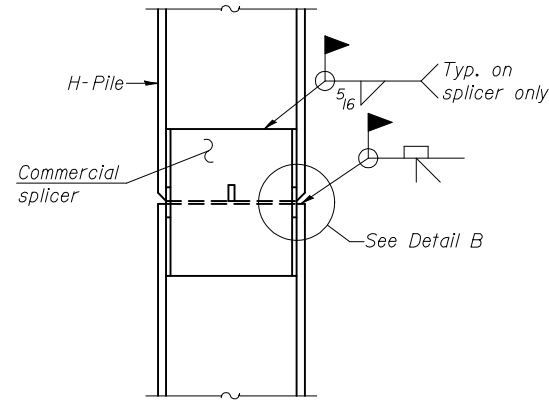
SHEET NO. 21	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	106
25 SHEETS	CONTRACT NO. 70388				
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

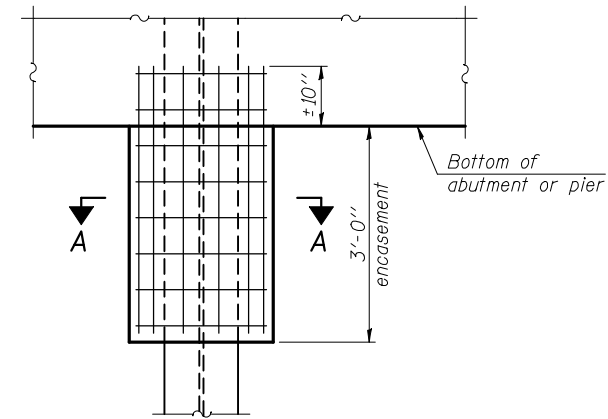


STEEL PILE TABLE

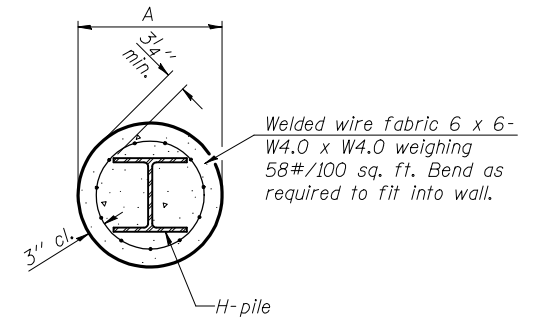
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION



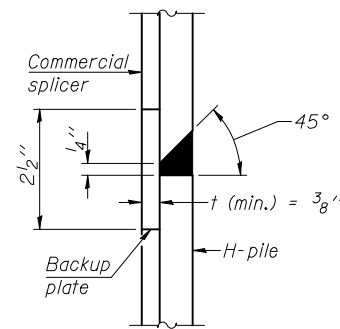
ELEVATION



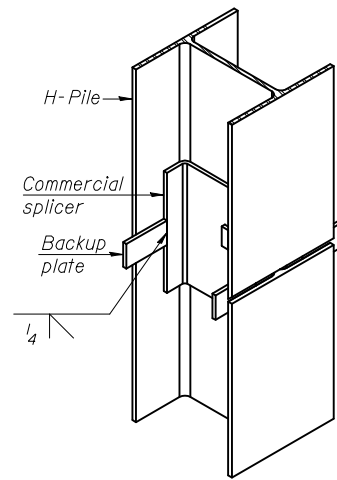
SECTION A-A

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

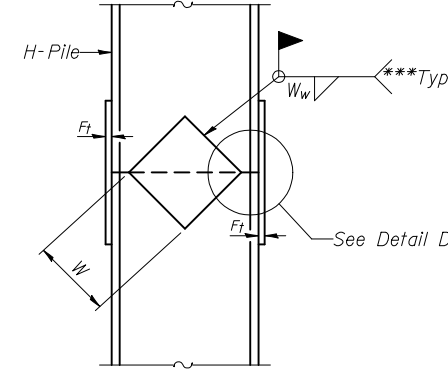
PILE ENCASEMENT



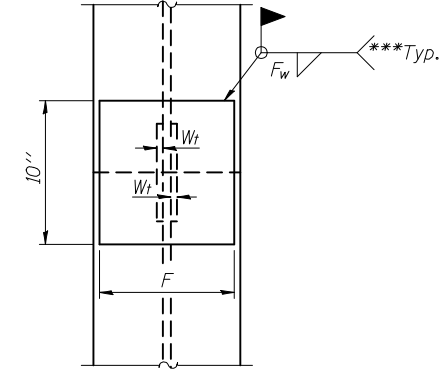
DETAIL "B"



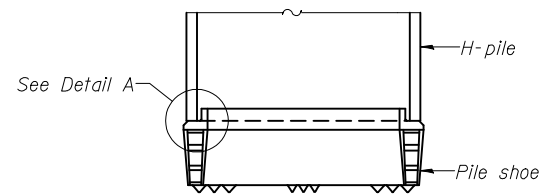
ISOMETRIC VIEW



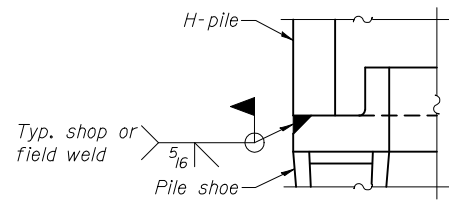
ELEVATION



END VIEW

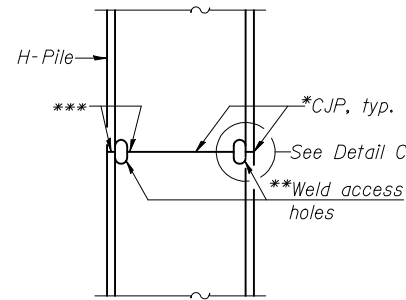


ELEVATION

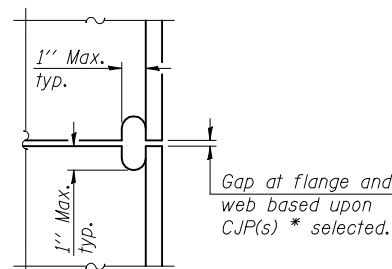


DETAIL A

H-PILE SHOE ATTACHMENT

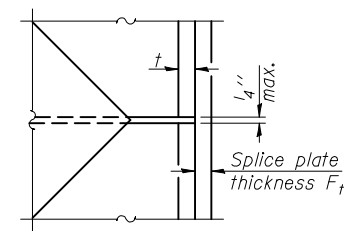


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

WELDED PLATE FIELD SPLICE

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

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

November 25, 2009
EXAMINED <i>Thomas J. Domagala</i>
PASSED <i>Ralph E. Anderson</i>

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

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


F-HP 10-1-08

SHEET NO. 22 25 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	107
CONTRACT NO. 70388					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

HP PILE DETAILS
STRUCTURE NO. 074-0086

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Page 1 of 2



Illinois Department of Transportation
Division of Highways
1807 - North 3rd Dist. S

SOIL BORING LOG

ROUTE FAS 1517 (US 150) DESCRIPTION FAS 1517 (US 150) over the Norfolk & Southern R.R. LOGGED BY CNA

SECTION 12VBR-1 LOCATION SE, SEC. 10, TWP. 20N, RNG. 6E, 3rd PM GPS: _____

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0086 Prop. Station 289+15.28 Prop.

BORING NO. 8 West Pier - Settlement Station 288+79 Offset 0.0 ft CL Ground Surface Elev. 728.7 ft (ft) (ft) (ft) (%)


Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.: _____ ft
First Encounter _____ ft
Upon Completion Wash Bored _____ ft
After Hra. Plugged _____ ft (ft) (ft) (ft) (%)

DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION	TEST TYPE	TEST VALUE	TEST TYPE	TEST VALUE
728.7		Black/Gray Silty Clay (Topsoil)				
727.7		Gray/Brown Mottled Silty Clay				
724.7	2					
	3	Brown Mottled Silt to Dirty Sand (Mixed)		10	4.1	11
	2			25	11	
	1					
	1			0.2	23	
	2					
719.7	2	Brown Silty Clay Loam Till		5		
	2			7	3.5	11
	3			13	8	
717.7	2	Brown Sandy Clay Loam Till				
	3					
	7					
	3			5		
	6			6	2.8	11
	8			7	8	
712.2		Gray Sandy Clay Loam Till				
	3			3		
	6			10	3.3	11
	9			7	8	

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

Date 7/208

Page 2 of 2



Illinois Department of Transportation
Division of Highways
1807 - North 3rd Dist. S

SOIL BORING LOG

ROUTE FAS 1517 (US 150) DESCRIPTION FAS 1517 (US 150) over the Norfolk & Southern R.R. LOGGED BY CNA

SECTION 12VBR-1 LOCATION SE, SEC. 10, TWP. 20N, RNG. 6E, 3rd PM GPS: _____

COUNTY Piatt DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 074-0086 Prop. Station 289+15.28 Prop.

BORING NO. 8 West Pier - Settlement Station 288+79 Offset 0.0 ft CL Ground Surface Elev. 728.7 ft (ft) (ft) (ft) (%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft
Groundwater Elev.: _____ ft
First Encounter _____ ft
Upon Completion Wash Bored _____ ft
After Hra. Plugged _____ ft (ft) (ft) (ft) (%)

DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION	TEST TYPE	TEST VALUE	TEST TYPE	TEST VALUE
		Gray Sandy Clay Loam Till (continued)				
	5					
	7	Gray Dirty Sand to Silt (Mixed)		0		
	2.1			0		
	7			12		
	45					
	10			20		
	8			39		
	7			39		
	50					
		End of Boring				
	10					
	12			3.0		
	17	(No Sample Obtained)				
	66					
	10					
	12			3.1	10	
	16			7		
	80					

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

Date 7/208

BORING LOGS
STRUCTURE NO. 074-0086

SHEET NO. 25	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1517	12VBR-1	PIATT	168	110
25 SHEETS	CONTRACT NO. 70388				
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

5547001

NORFOLK SOUTHERN RAILWAY COMPANY

- ROW AREA REQUIRED = 2.295 AC±
- PERMANENT EASEMENT AREA = 0.419 AC±
- TEMPORARY EASEMENT AREA = 0.569 AC±

PART OF THE NORFOLK SOUTHERN RAILWAY COMPANY PROPERTY LYING IN THE SOUTHWEST QUARTER OF SECTION 3 AND THE NORTHWEST QUARTER AND THE NORTHEAST QUARTER OF SECTION 10 ALL IN TOWNSHIP 20 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, SITUATED IN OR ADJOINING THE VILLAGE OF MANSFIELD, COUNTY OF PIATT, STATE OF ILLINOIS.

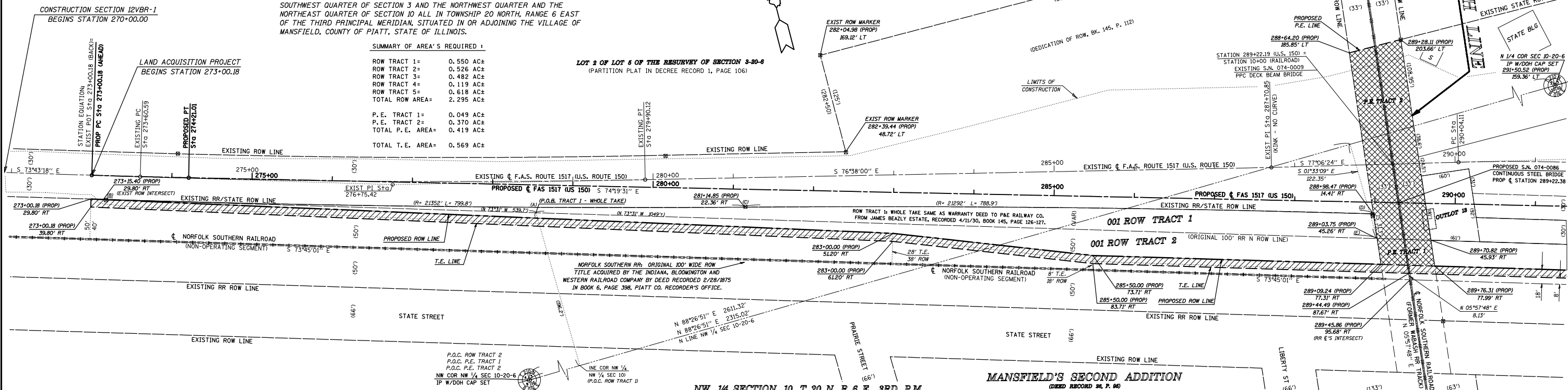
SUMMARY OF AREA'S REQUIRED :

ROW TRACT 1 =	0.550 AC±
ROW TRACT 2 =	0.526 AC±
ROW TRACT 3 =	0.482 AC±
ROW TRACT 4 =	0.119 AC±
ROW TRACT 5 =	0.618 AC±
TOTAL ROW AREA =	2.295 AC±
P. E. TRACT 1 =	0.049 AC±
P. E. TRACT 2 =	0.370 AC±
TOTAL P. E. AREA =	0.419 AC±
TOTAL T. E. AREA =	0.569 AC±

LOT 2 OF LOT 5 OF THE RESURVEY OF SECTION 3-20-6
(PARTITION PLAT IN DECREE RECORD 1, PAGE 106)

US 150 PROP. & CURVE DATA
PI STA. = 273+60.59
Δ = 0° 36' 13" (LT)
D = 0° 29' 58"
R = 11,470.00'
T = 60.41'
L = 120.83'
E = 0.16'
P.C. STA. = 273+00.18
P.T. STA. = 274+01.01

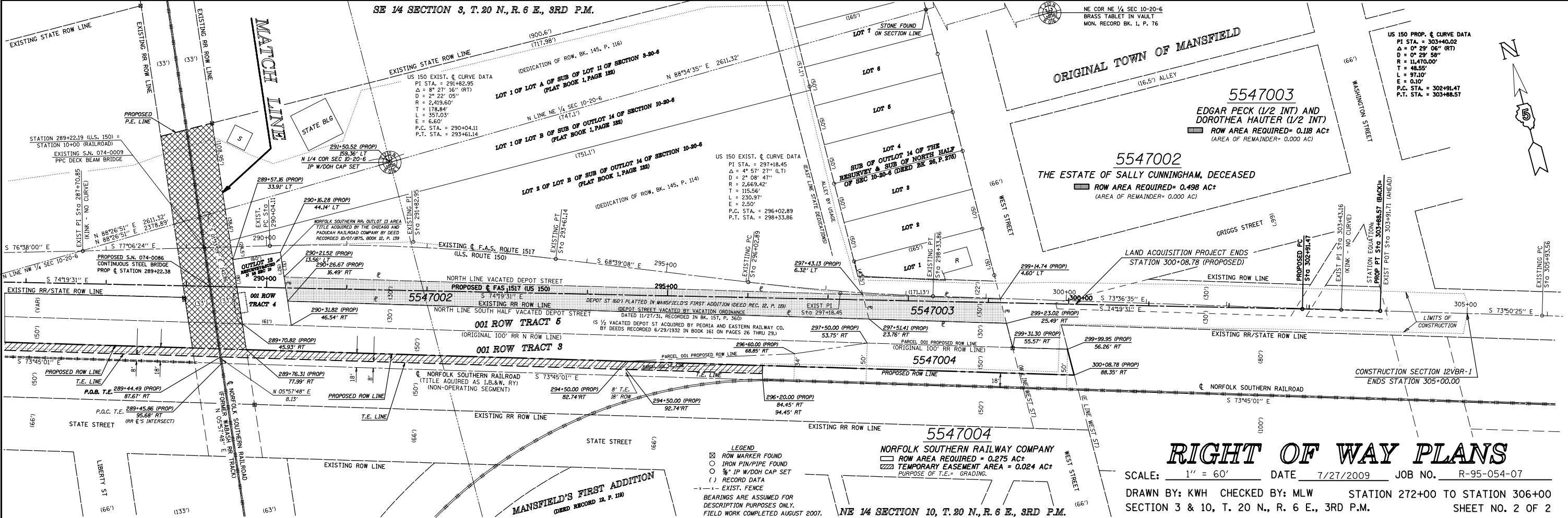
US 150 EXIST. & CURVE DATA
PI STA. = 276+75.42
Δ = 2° 54' 42" (LT)
D = 0° 27' 45"
R = 12,387.92'
T = 314.83'
L = 629.53'
E = 4.00'
P.C. STA. = 273+60.59
P.T. STA. = 279+90.12



SE 14 SECTION 3, T. 20 N., R. 6 E., 3RD P.M.

NW 14 SECTION 10, T. 20 N., R. 6 E., 3RD P.M.

MANSFIELD'S SECOND ADDITION



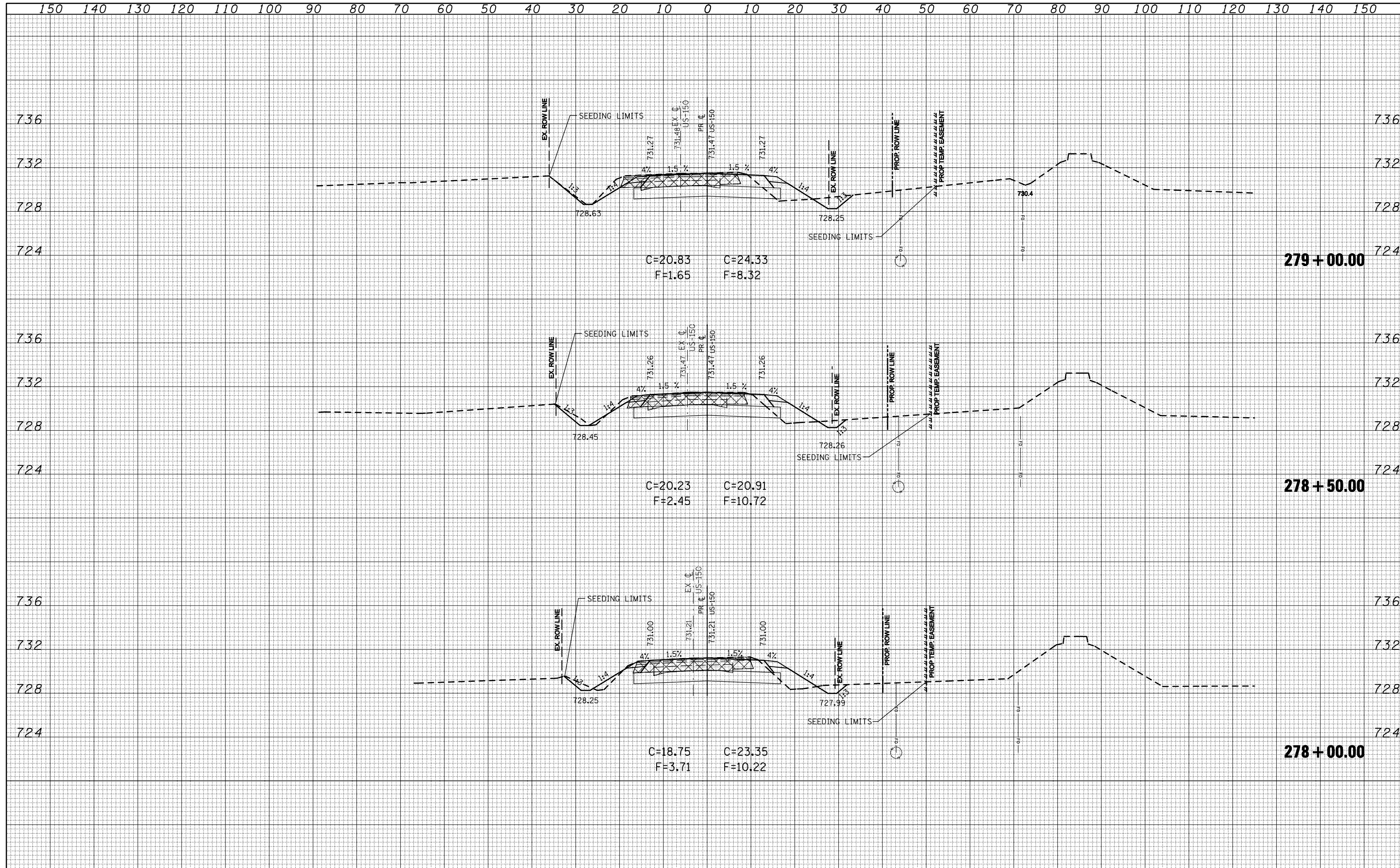
RIGHT OF WAY PLANS

SCALE: 1" = 60' DATE 7/27/2009 JOB NO. R-95-054-07

DRAWN BY: KWH CHECKED BY: MLW STATION 272+00 TO STATION 306+00
SECTION 3 & 10, T. 20 N., R. 6 E., 3RD P.M. SHEET NO. 2 OF 2

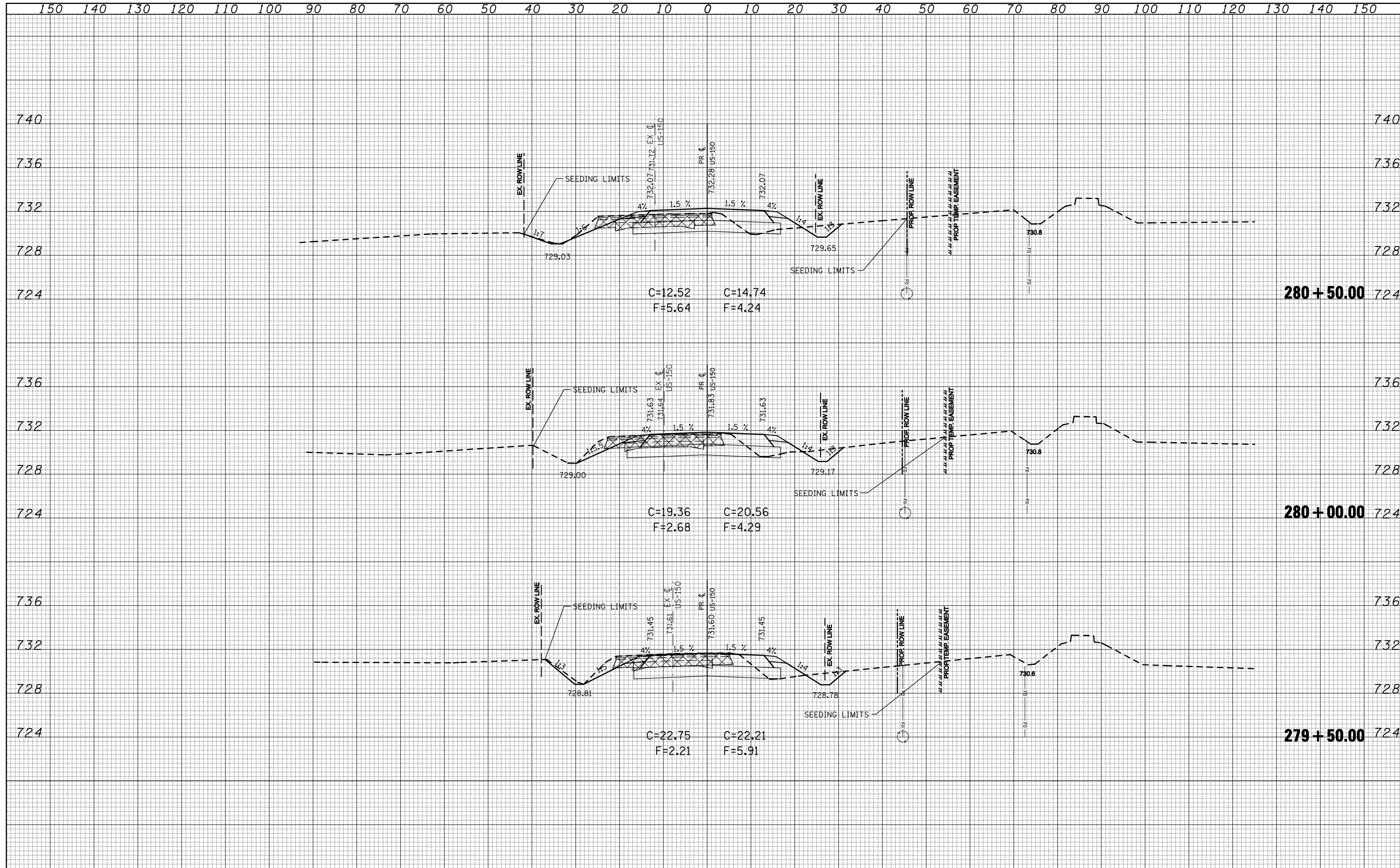
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



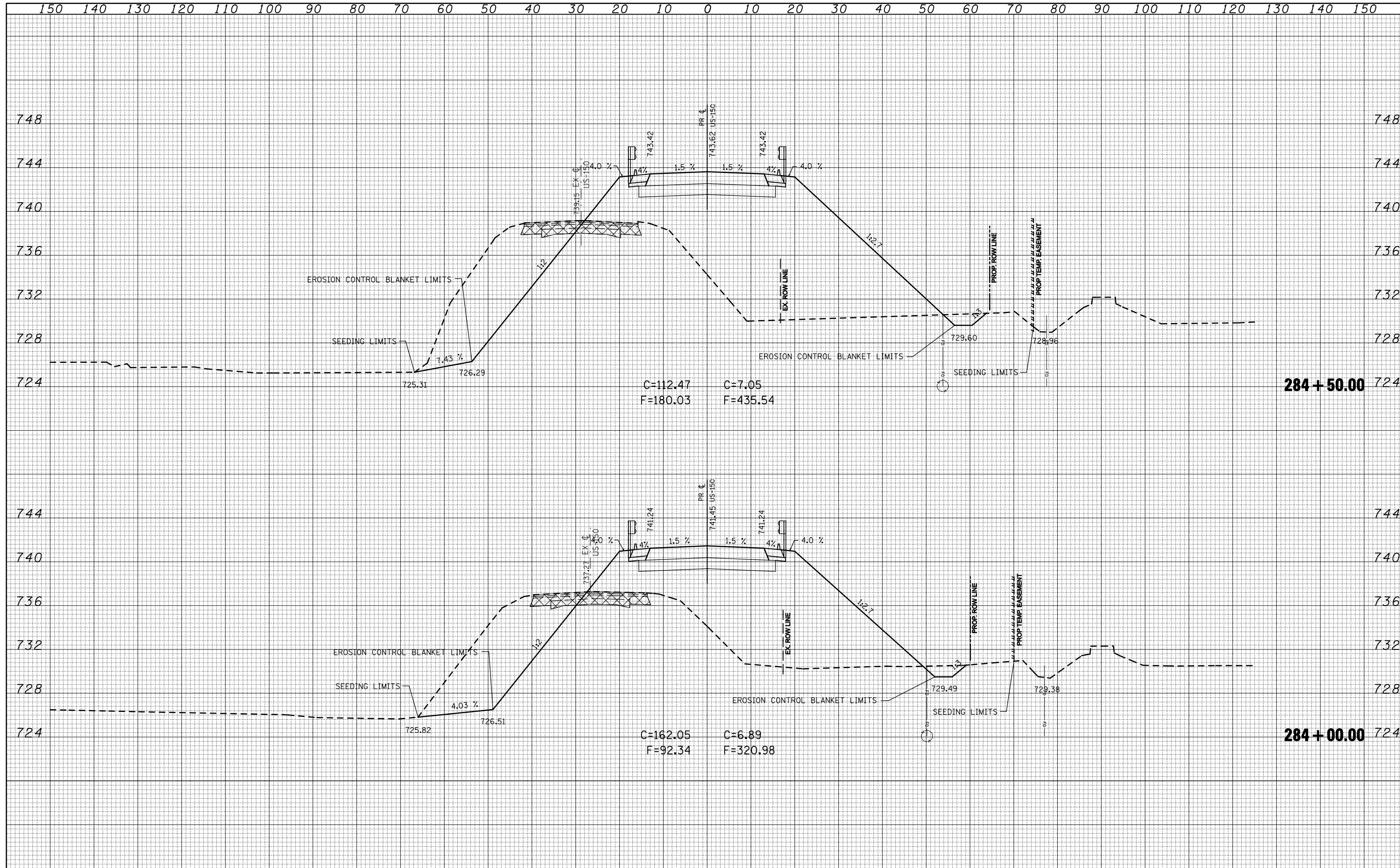
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

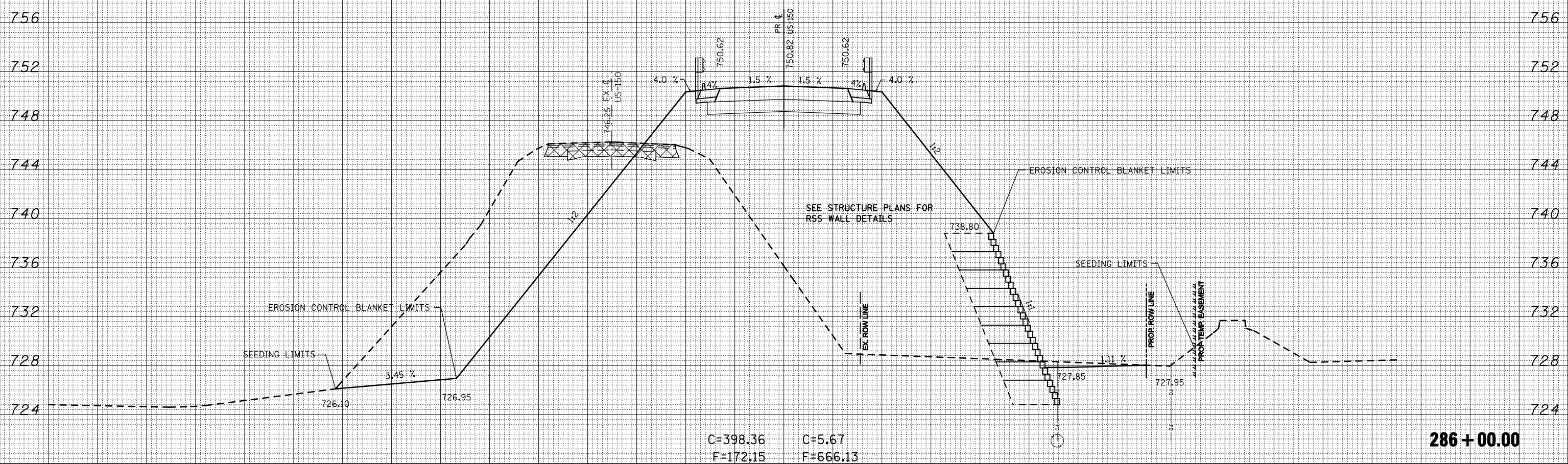


FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 CROSS-SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\PIWIDOT\SHERERJM\dms86674\70388_x.s	sheets.dgn	DRAWN -	REVISED -					1517	12VBR-1	PIATT	168	119
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	REVISED -					CONTRACT NO. 70388				
PLOT DATE = 10/13/2009	DATE -	REVISED -	REVISED -					ILLINOIS FED. AID PROJECT				
SCALE:		SHEET NO. 8 OF 36 SHEETS		STA. 284+00.00 TO STA. 284+50.00								

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



C=398.36 C=5.67
F=172.15 F=666.13

286+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME =
c:\pwork\PWIDOT\SHERERJM\dms86674\70388_x.s

USER NAME = shererjm
PLOT SCALE = 20.0000' / IN.
PLOT DATE = 10/13/2009

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

US 150 CROSS-SECTIONS

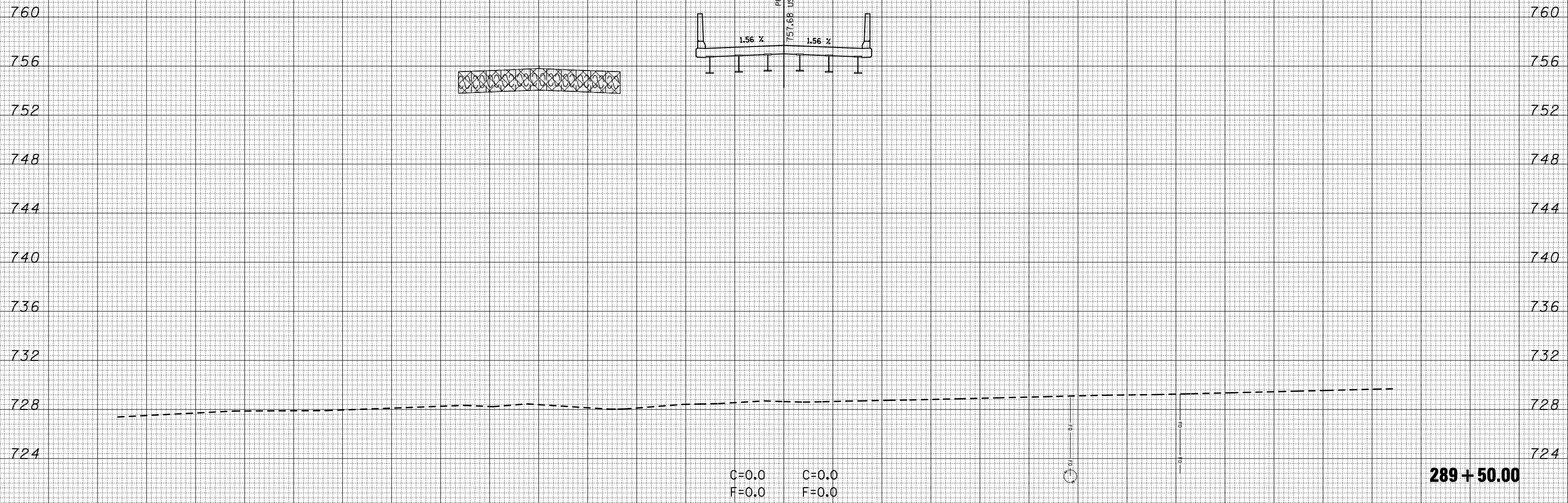
SCALE: SHEET NO. 11 OF 36 SHEETS STA. 286+00.00 TO STA. 286+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	122
CONTRACT NO. 70388				
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

BY	DATE
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

BY	DATE
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

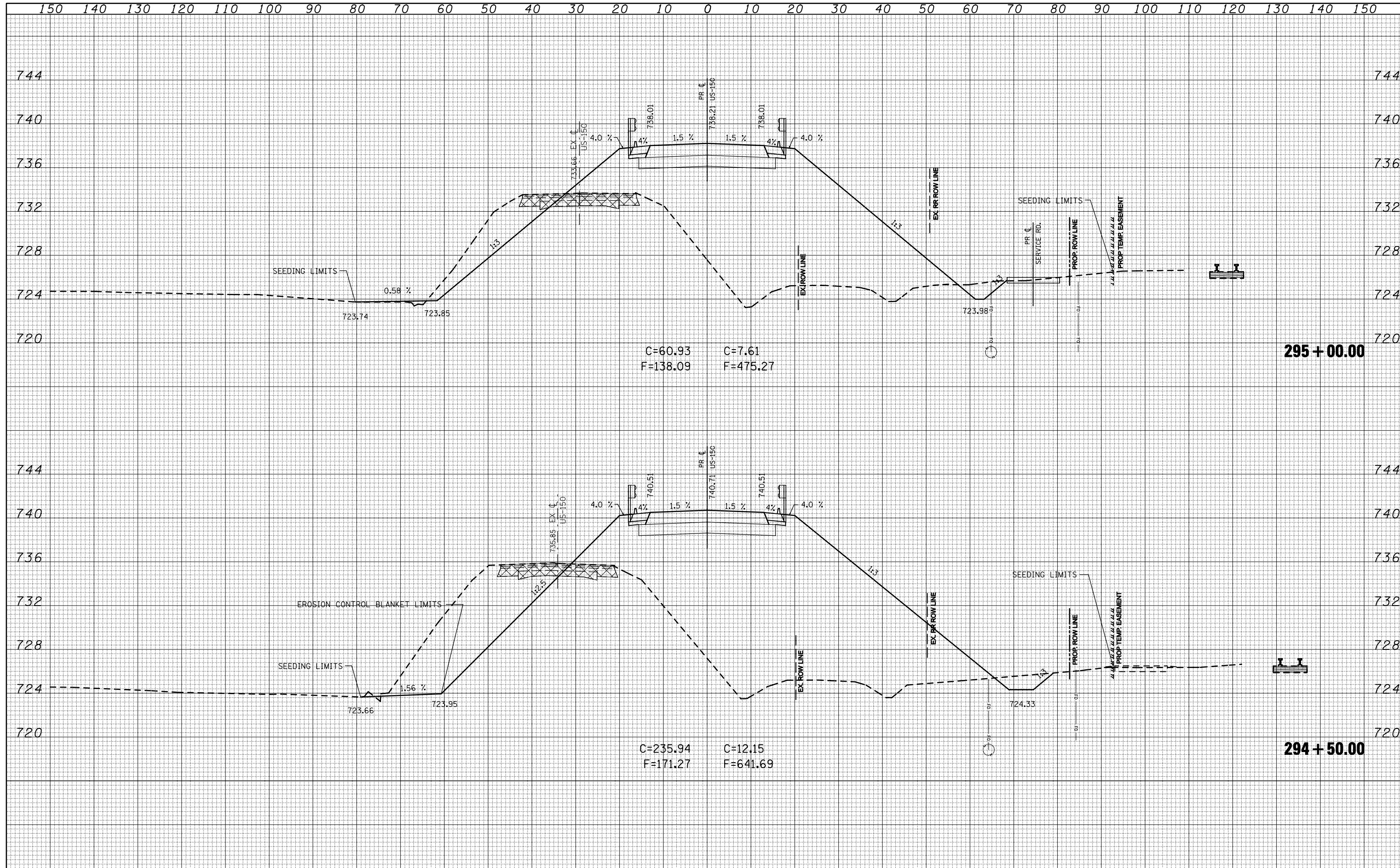


C=0.0 C=0.0
F=0.0 F=0.0

289+50.00

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -
ca:\pw\work\PIWIDOT\SHERERJM\dms86674\70388_xs_sheets.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 20.0000' / IN.		PLOT DATE = 10/13/2009	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

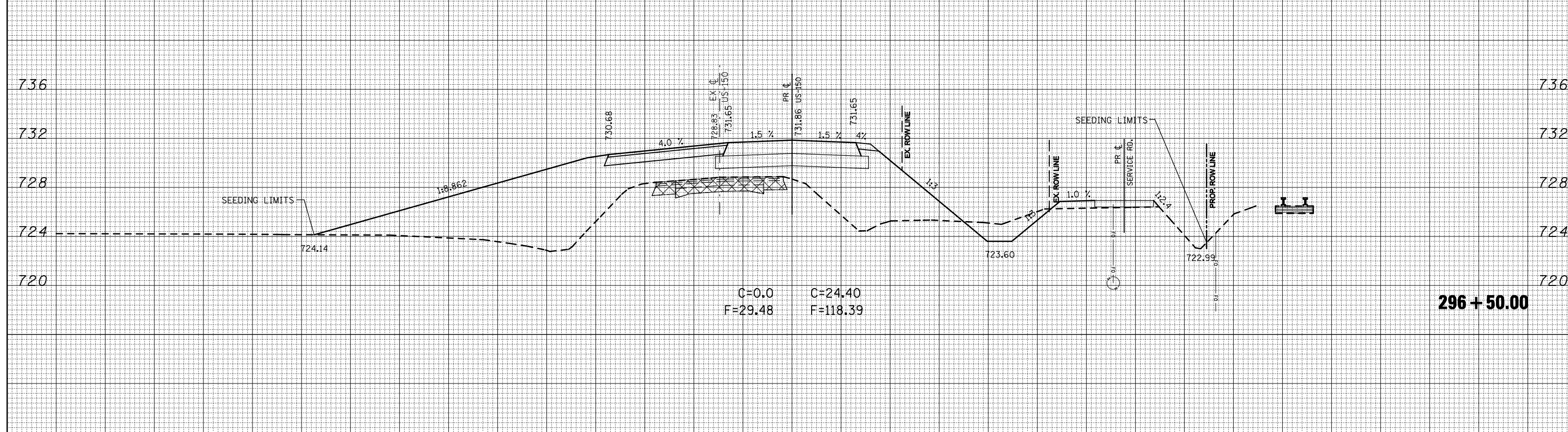
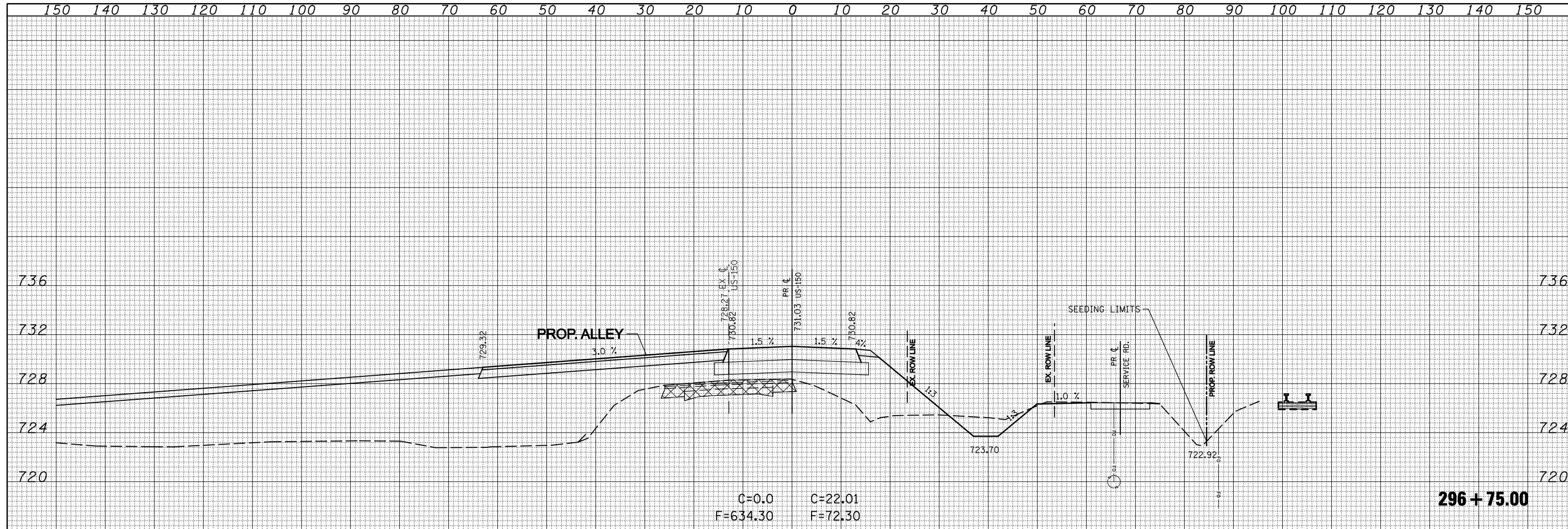
US 150 CROSS-SECTIONS

SCALE: SHEET NO. 28 OF 36 SHEETS STA. 294+50.00 TO STA. 295+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	139
CONTRACT NO. 70388				
ILLINOIS FED. AID PROJECT				

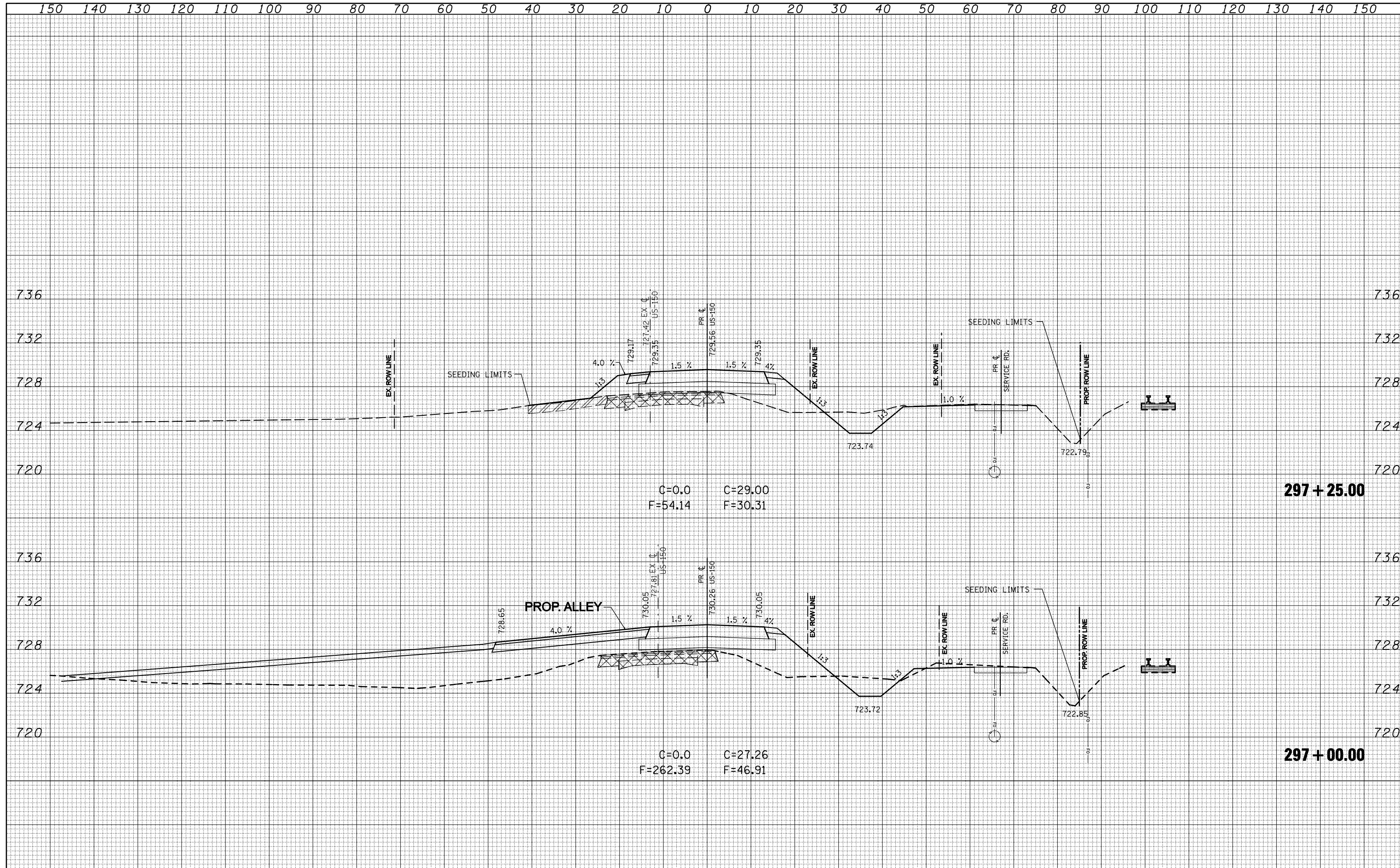
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



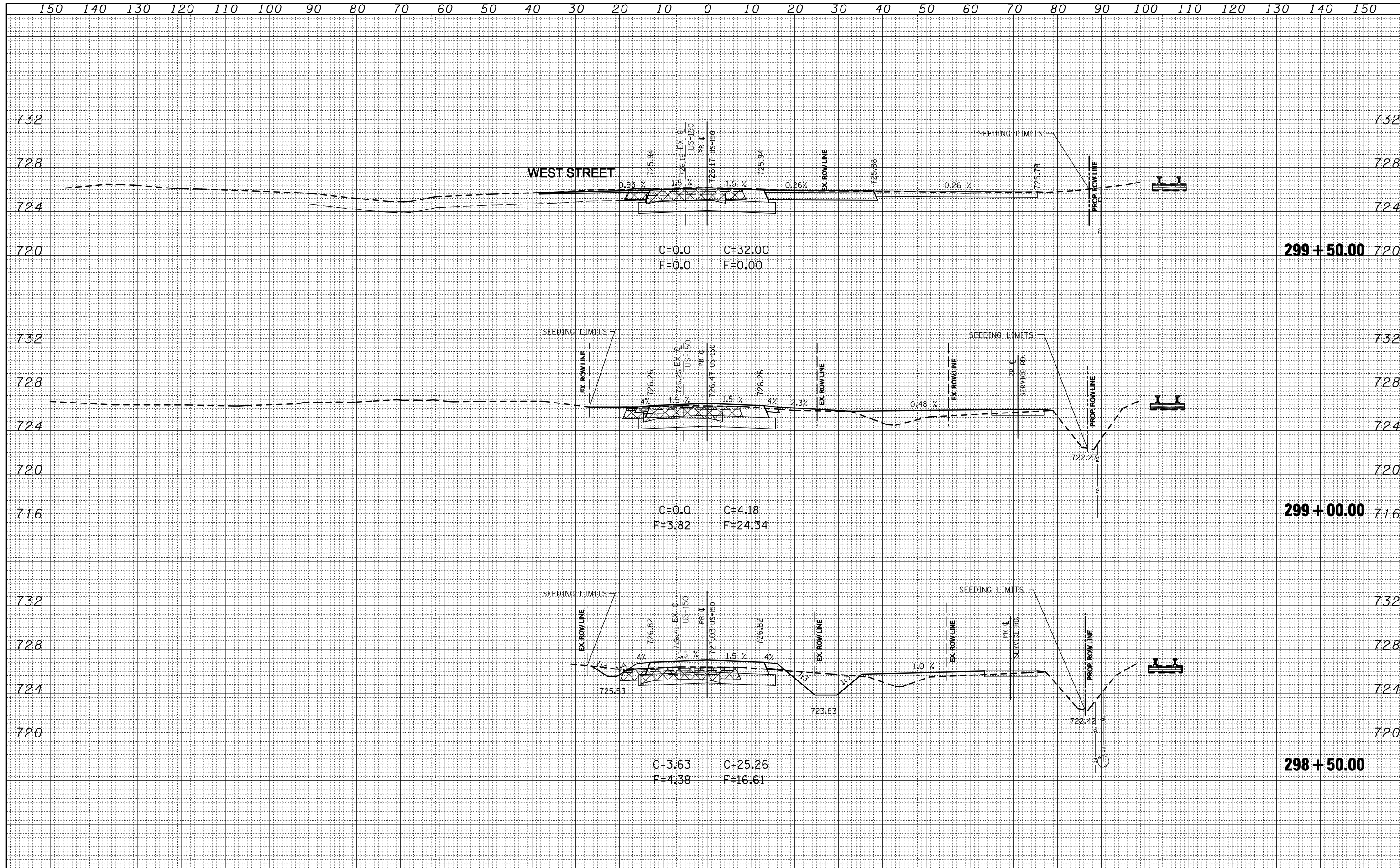
DATE	
BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK NO.	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK NO.	



DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED TEMPLATE AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	



FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -
ca:\pwork\PWIDOT\SHERERJM\dms86674\70388_xs_sheets.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 20.0000' / IN.		PLOT DATE = 10/13/2009	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

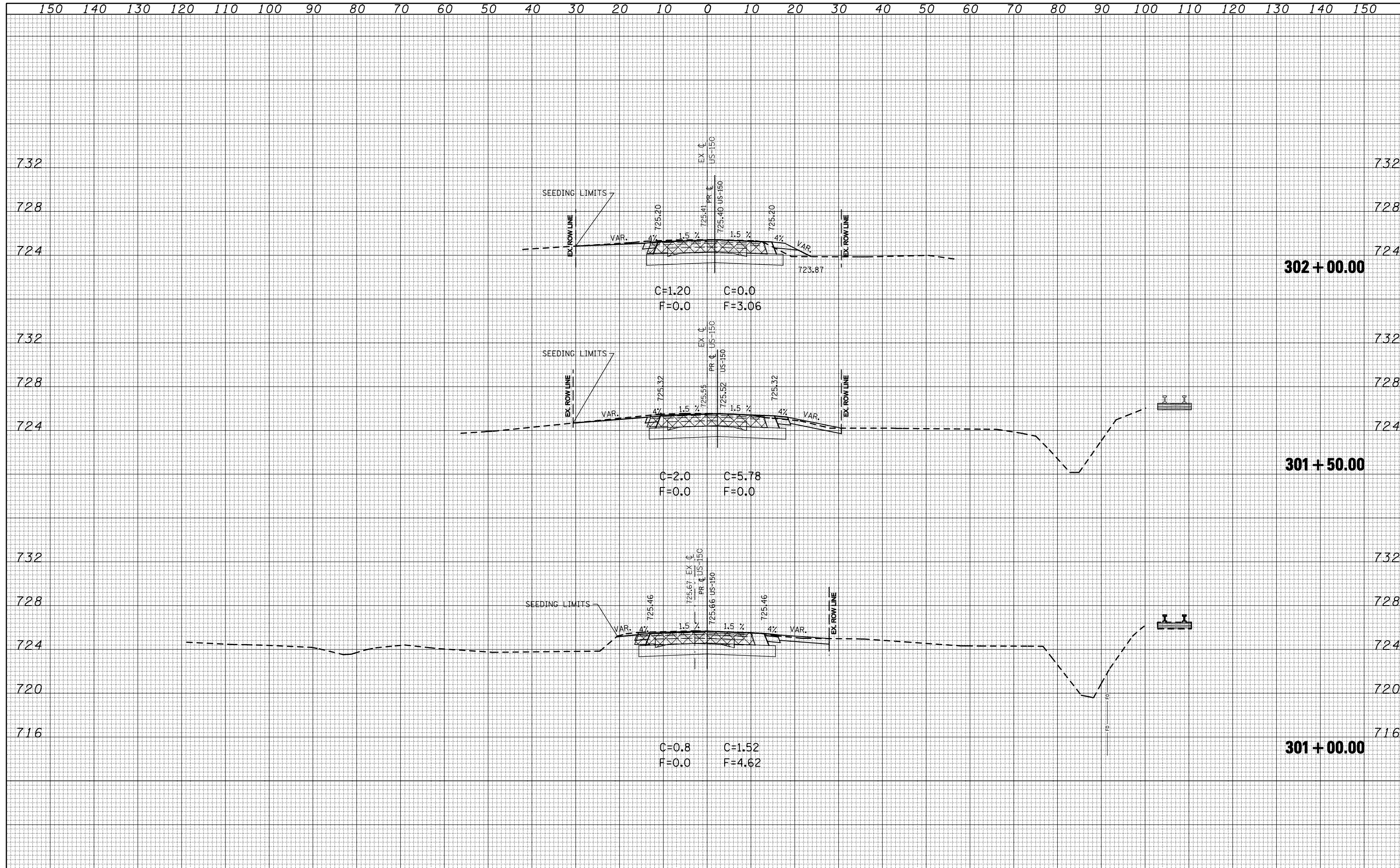
US 150 CROSS-SECTIONS

SCALE: SHEET NO. 33 OF 36 SHEETS STA. 298+50.00 TO STA. 299+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	144
CONTRACT NO. 70388				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

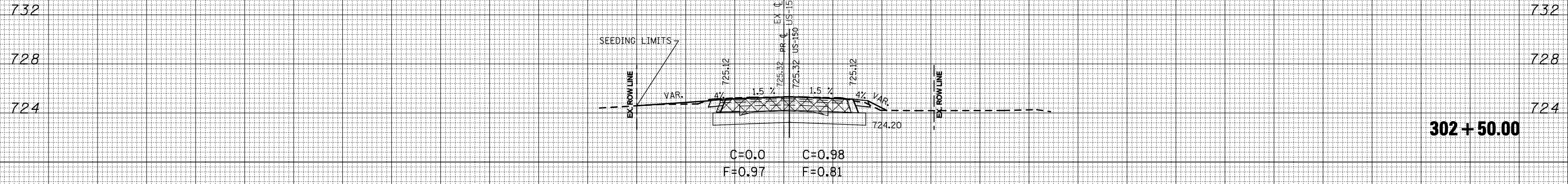
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED
		NO.	

DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED
		NO.	



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = c:\pwork\pwidot\shererjm\dms86674\70388_xs_sheets.dgn

USER NAME = shererjm
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 10/13/2009

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US 150 CROSS-SECTIONS

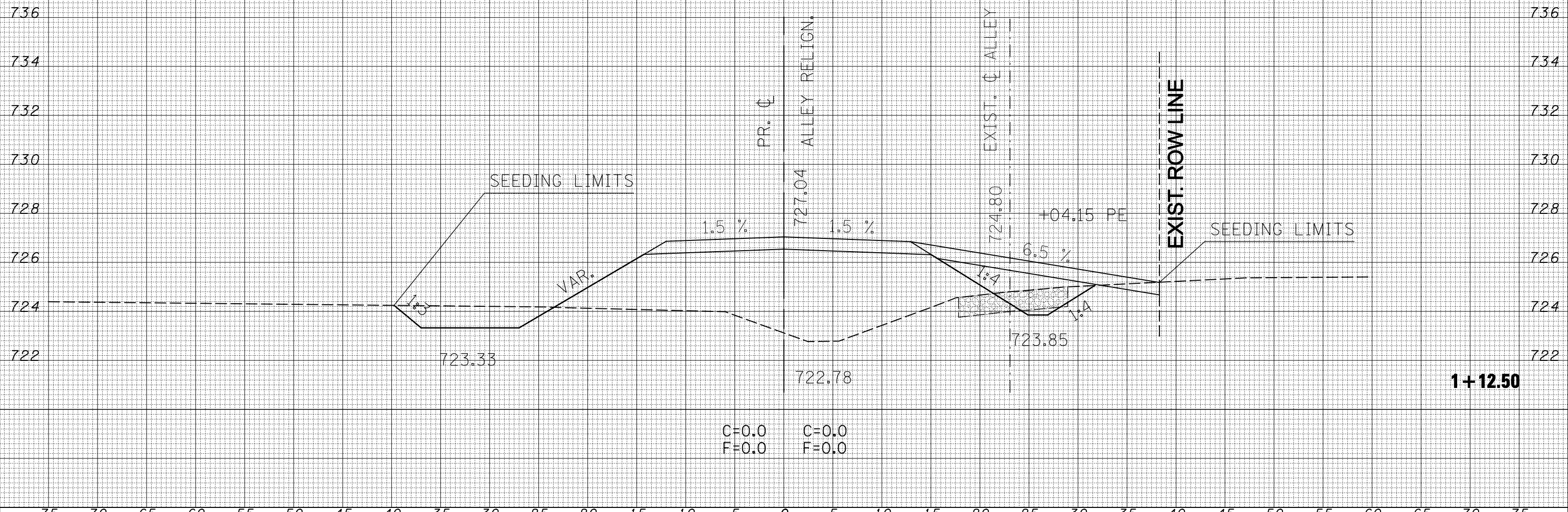
SCALE: SHEET NO. 36 OF 36 SHEETS STA. 302+50.00 TO STA. 302+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	147
CONTRACT NO. 70388				
ILLINOIS FED. AID PROJECT				

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

BY	DATE
FINL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

BY	DATE
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

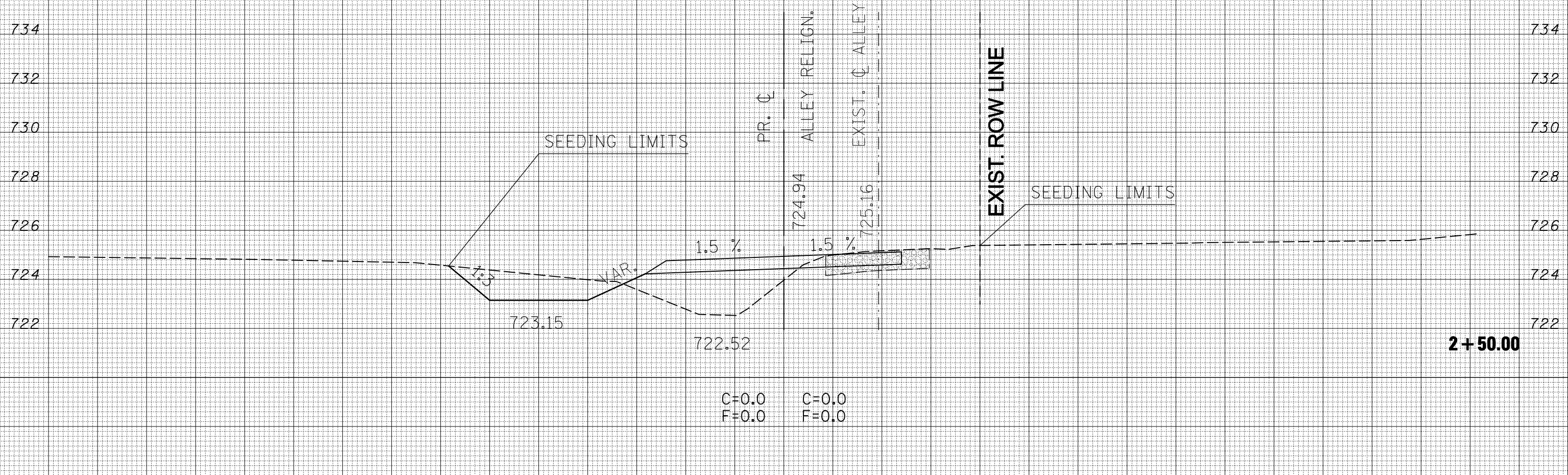


FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">PROPOSED ALLEY RE-ALIGNMENT CROSS-SECTIONS</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\PWIDOT\SHERERJM\dms86674\0570388-sherer\pralley_xs.dgn		DRAWN -	REVISED -		1517	12VBR-1	PIATT	168	152	
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 70388					
PLOT DATE = 10/13/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. 5 OF 15 SHEETS	STA. 1+12.50	TO STA. 1+12.50			

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

BY	DATE
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

BY	DATE
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

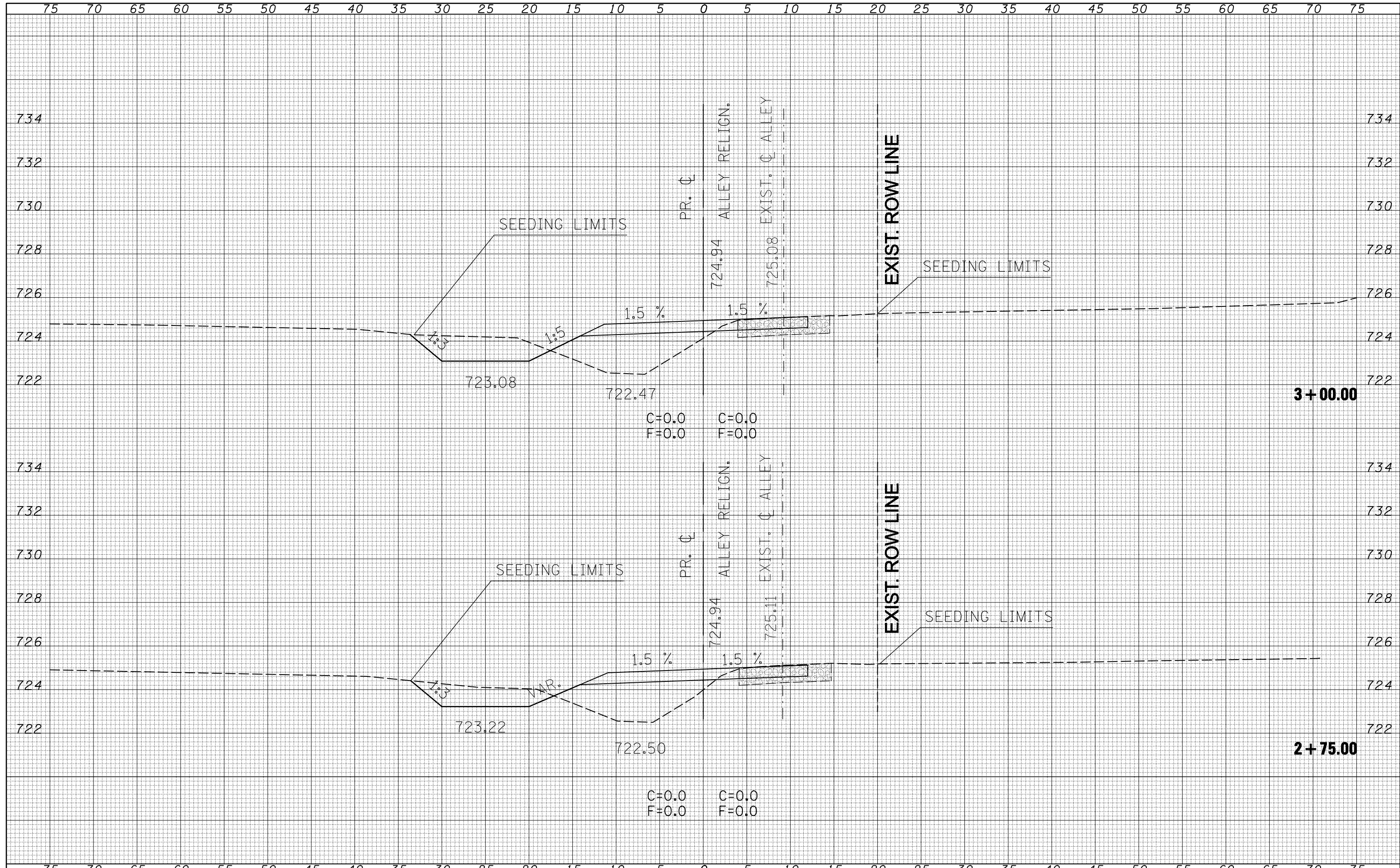


FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">PROPOSED ALLEY RE-ALIGNMENT CROSS-SECTIONS</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\PWIDOT\SHERERJM\dms86674\0570388-sher-pralley.xsdgn		DRAWN -	REVISED -		1517	12VBR-1	PIATT	168	158
PLOT SCALE = 10.0000 "/> <td></td> <td>CHECKED -</td> <td>REVISED -</td> <td colspan="5">CONTRACT NO. 70388</td>		CHECKED -	REVISED -		CONTRACT NO. 70388				
PLOT DATE = 10/13/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 11 OF 15 SHEETS STA. 2+50.00 TO STA. 2+50.00

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME =
 c:\pwork\p\WIDOT\SHERERJM\dms86674\0570388-ent\pralley_xs.dgn

USER NAME = shererjm
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

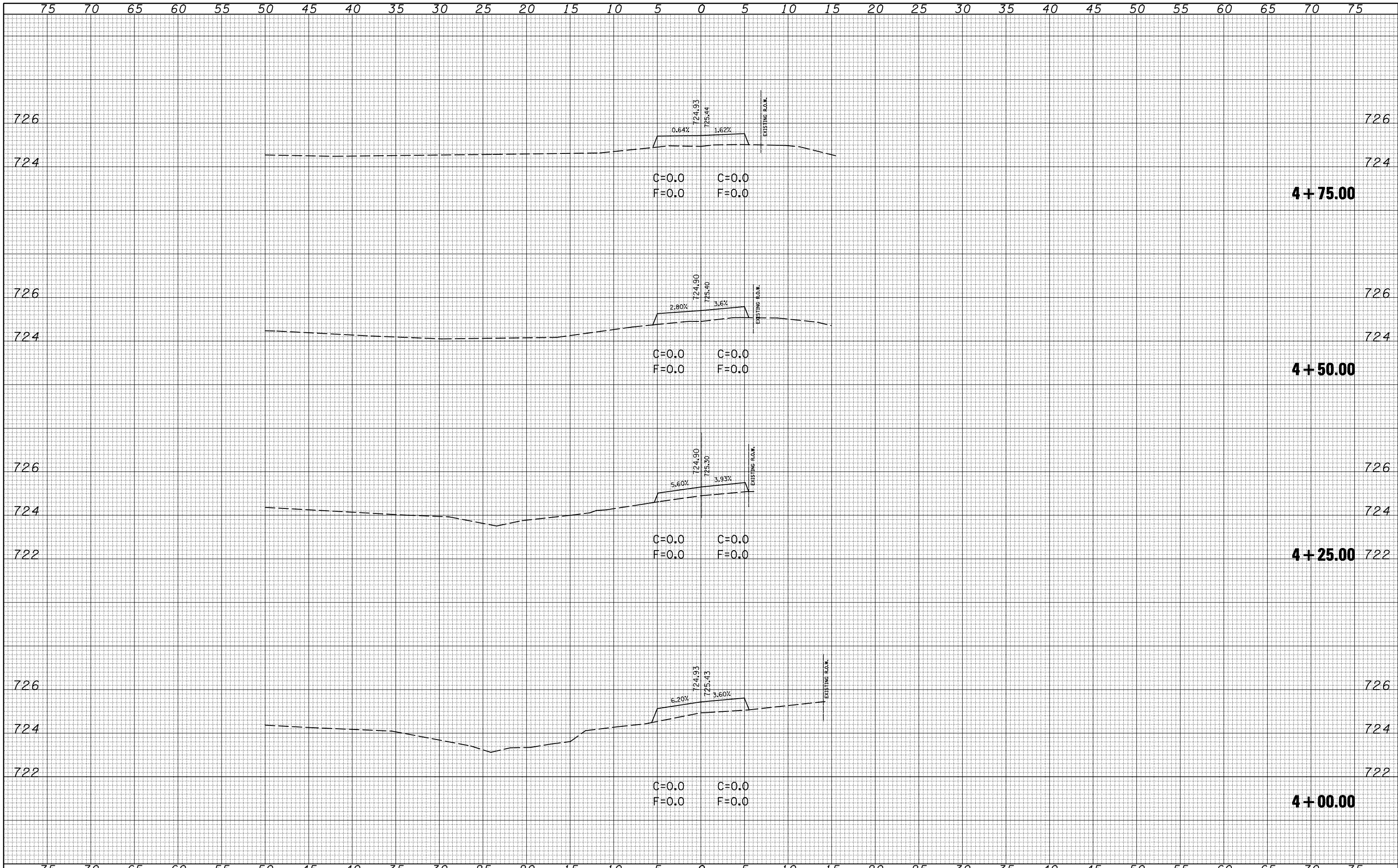
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ALLEY RE-ALIGNMENT
 CROSS-SECTIONS**
 SCALE: SHEET NO. 12 OF 15 SHEETS STA. 2+75.00 TO STA. 3+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1517	12VBR-1	PIATT	168	159
CONTRACT NO. 70388				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

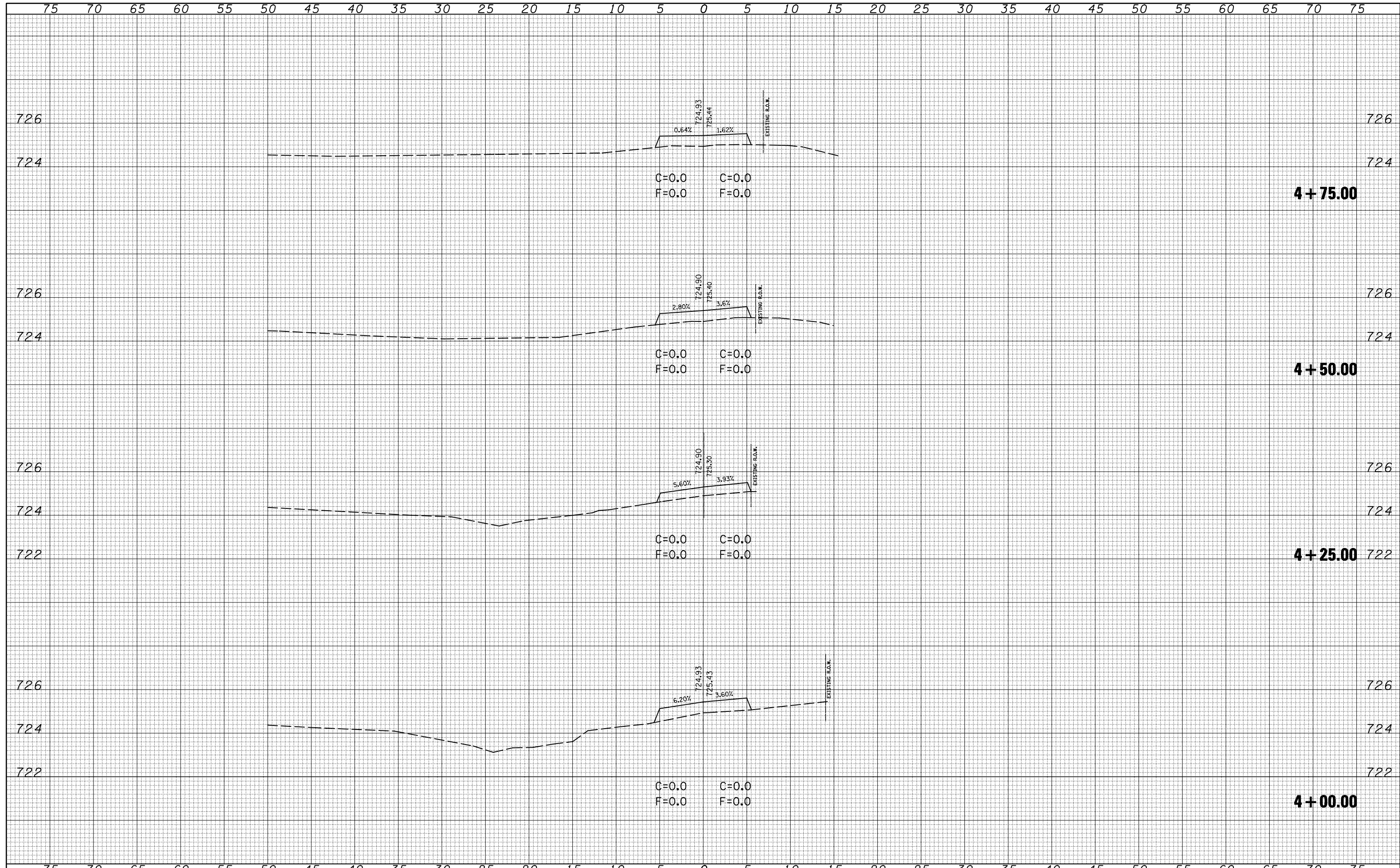
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING ACCESS ROAD CROSS-SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\PWIDOT\SHERERJM\dms86674\0570388-shererjm.dgn		DRAWN -	REVISD -		1517	12VBR-1	PIATT	-	162	CONTRACT NO. 70388		
PLOT SCALE = 10.0000 "/td> <td></td> <td>CHECKED -</td> <td>REVISD -</td> <td colspan="3" style="text-align: center;">SCALE: ----- SHEET NO. 1 OF 6 SHEETS STA. 4+00.00 TO STA. 4+75.00 -----</td> <td colspan="5" style="text-align: center;">ILLINOIS FED. AID PROJECT</td>		CHECKED -	REVISD -		SCALE: ----- SHEET NO. 1 OF 6 SHEETS STA. 4+00.00 TO STA. 4+75.00 -----			ILLINOIS FED. AID PROJECT				
PLOT DATE = 9/8/2009		DATE -	REVISD -									

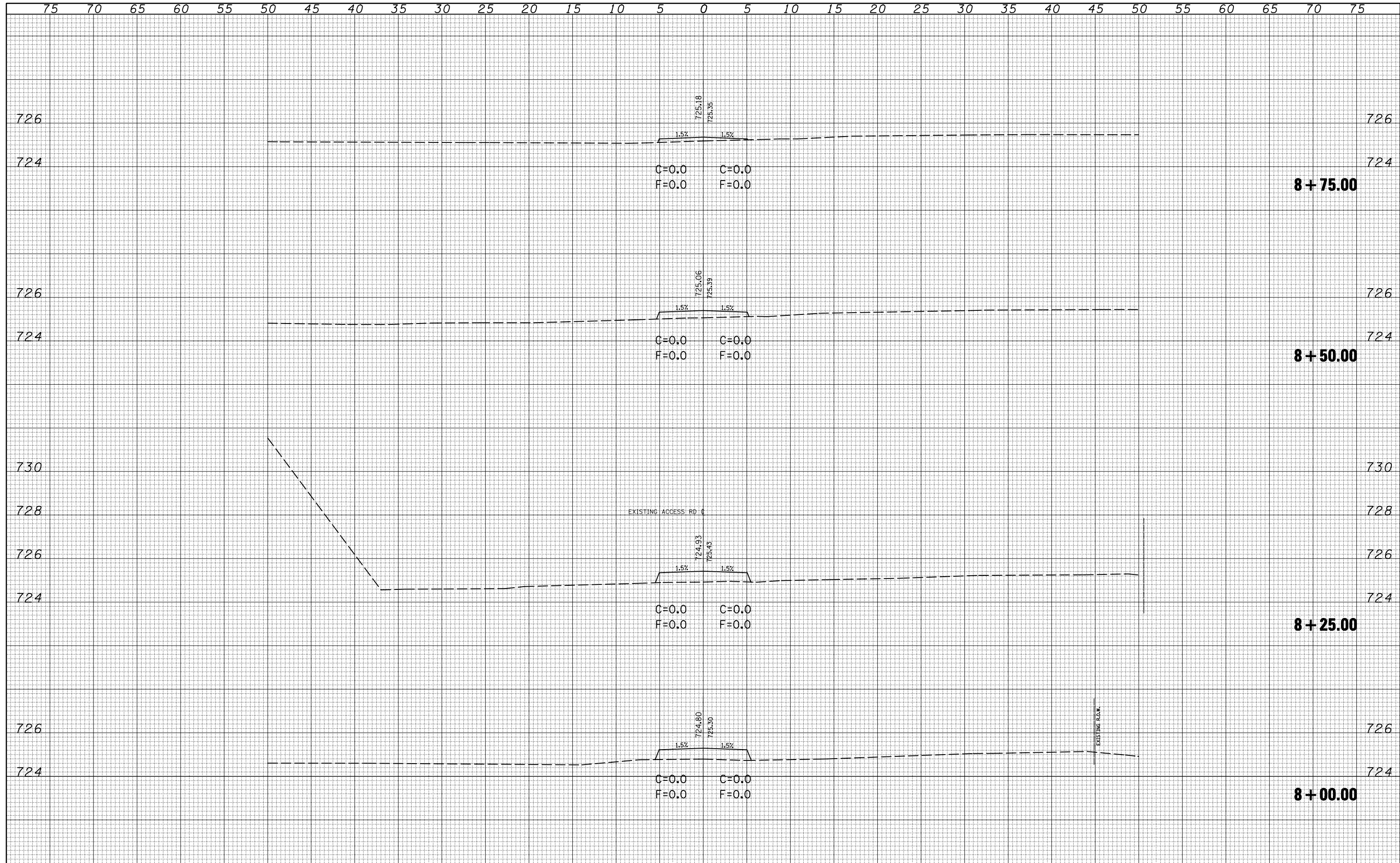
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

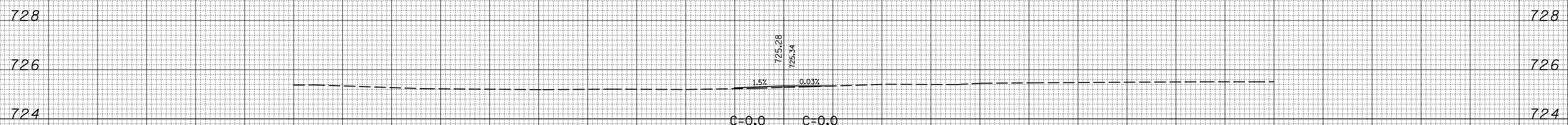


FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING ACCESS ROAD CROSS-SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\PWIDOT\SHERERJM\dms86674\0570388-sher-allay_xs.dgn	DRAWN -	REVISED -	1517			12VBR-1	PAITT	168	167	
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70388							
PLOT DATE = 10/13/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:					SHEET NO. 5 OF 6 SHEETS	STA. 8+00.00	TO STA. 8+75.00			

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.	NO.	NO.	NO.	NO.

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.	NO.	NO.	NO.	NO.



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

FILE NAME = c:\pwork\pwidot\shererjm\dms86674\0570388-sher-alley_xs.dgn

USER NAME = shererjm
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = 10/13/2009

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING ACCESS ROAD
 CROSS-SECTIONS**

SCALE: SHEET NO. 6 OF 6 SHEETS STA. 9+00.00 TO STA. 9+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
1517	12VBR-1	PIATT	168	168
CONTRACT NO. 70388			ILLINOIS FED. AID PROJECT	