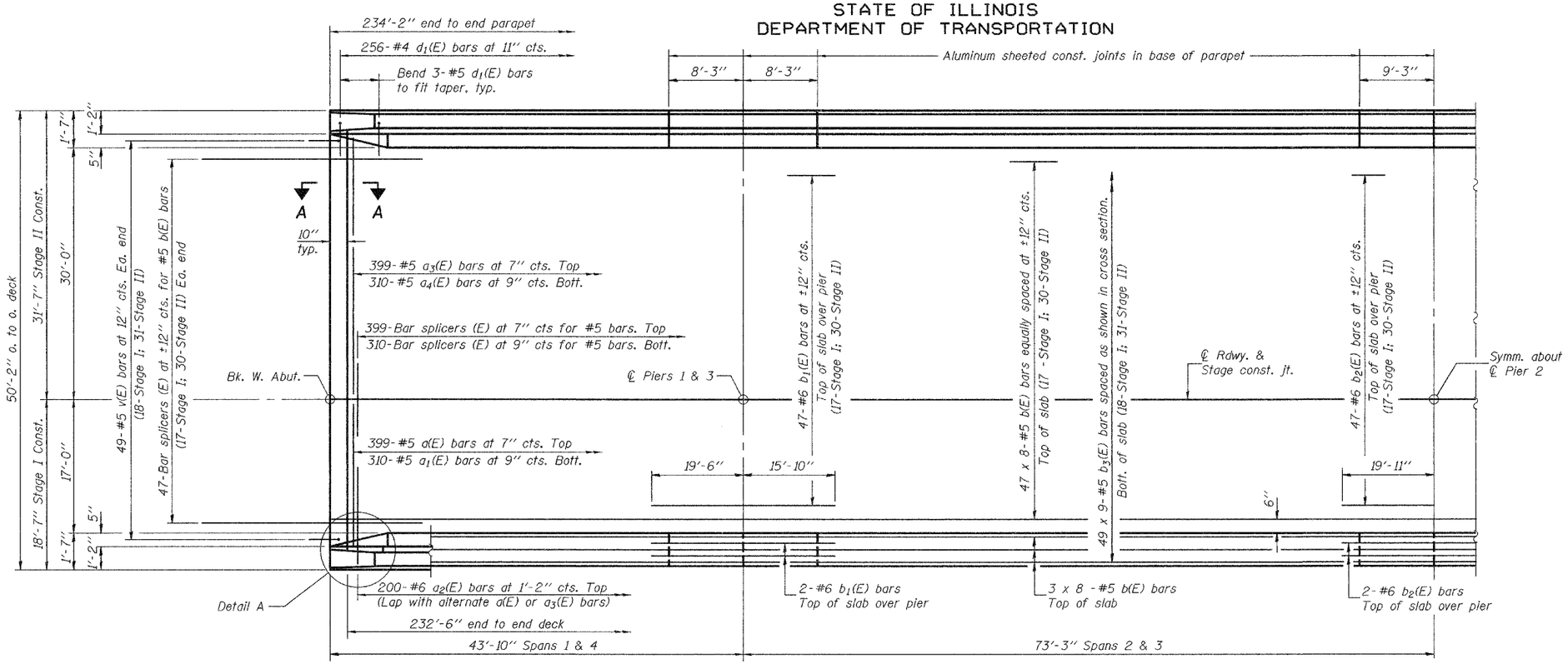
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

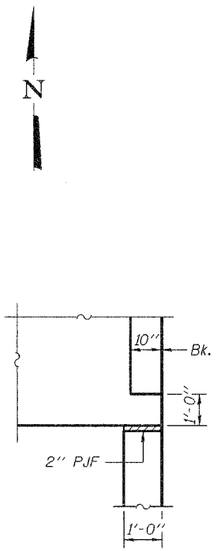
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	101
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 15
34 SHEETS

Contract No. 64292

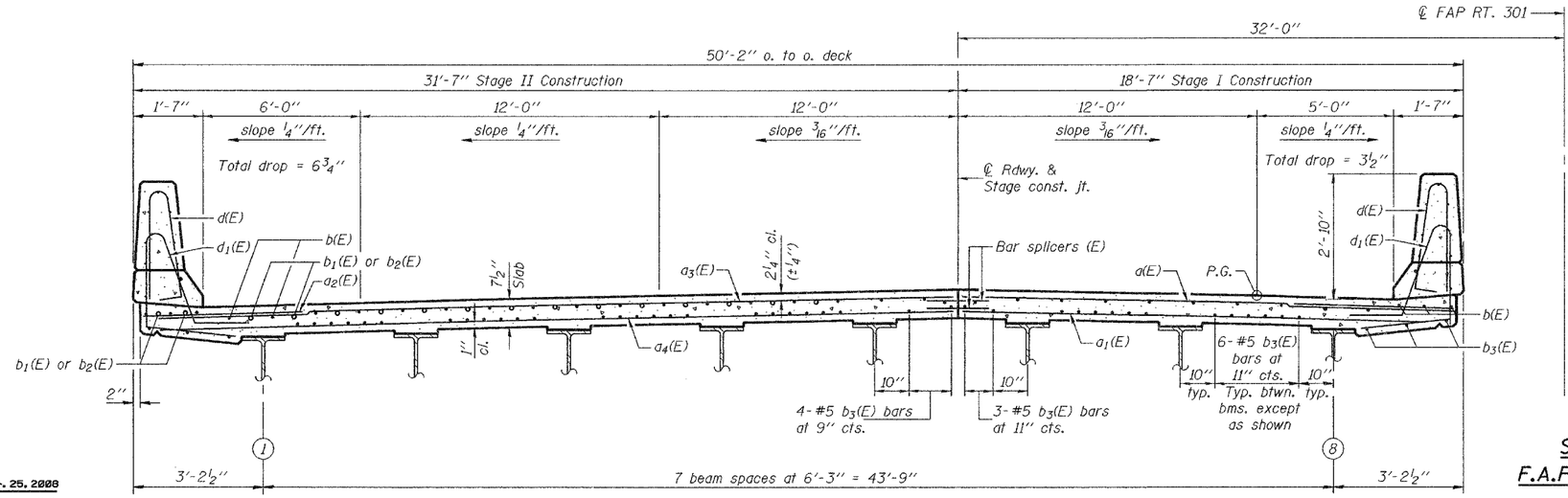


PARTIAL PLAN



DETAIL A
Parapet and approach not shown.
Detail similar at all four corners.

Notes: See sheet 17 of 34 for superstructure details and Bill of Material.
Bars indicated thus 47 x 8-#5 etc. indicates 47 lines of bars with 8 lengths per line.
See sheet 17 of 34 for parapet reinforcement.
See sheet 18 of 34 for Section A-A.



NEAR PIER NEAR MIDSPAN

CROSS SECTION
(Looking East)

MIN. BAR LAP
#5 bars = 1'-8"

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

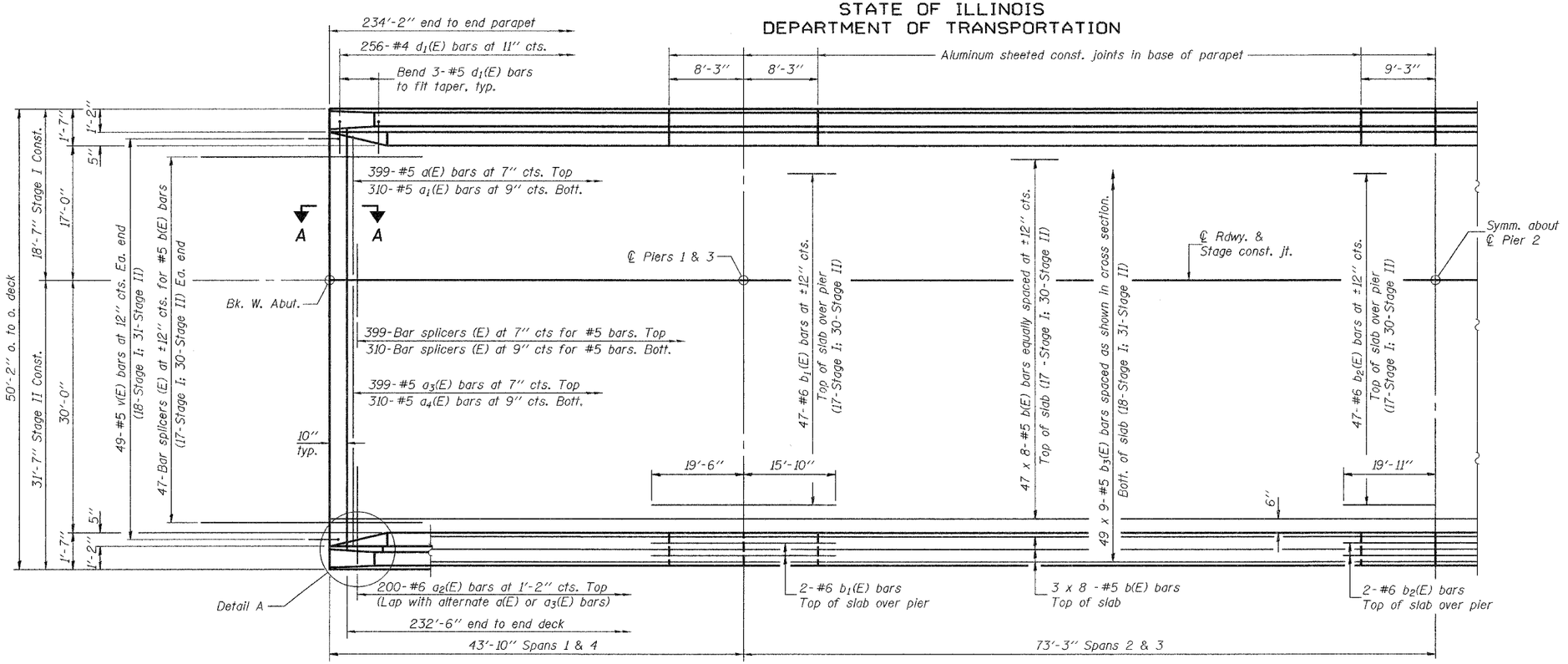
SUPERSTRUCTURE (W.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

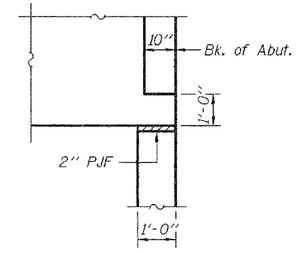
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	102
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16
34 SHEETS

Contract No. 64292

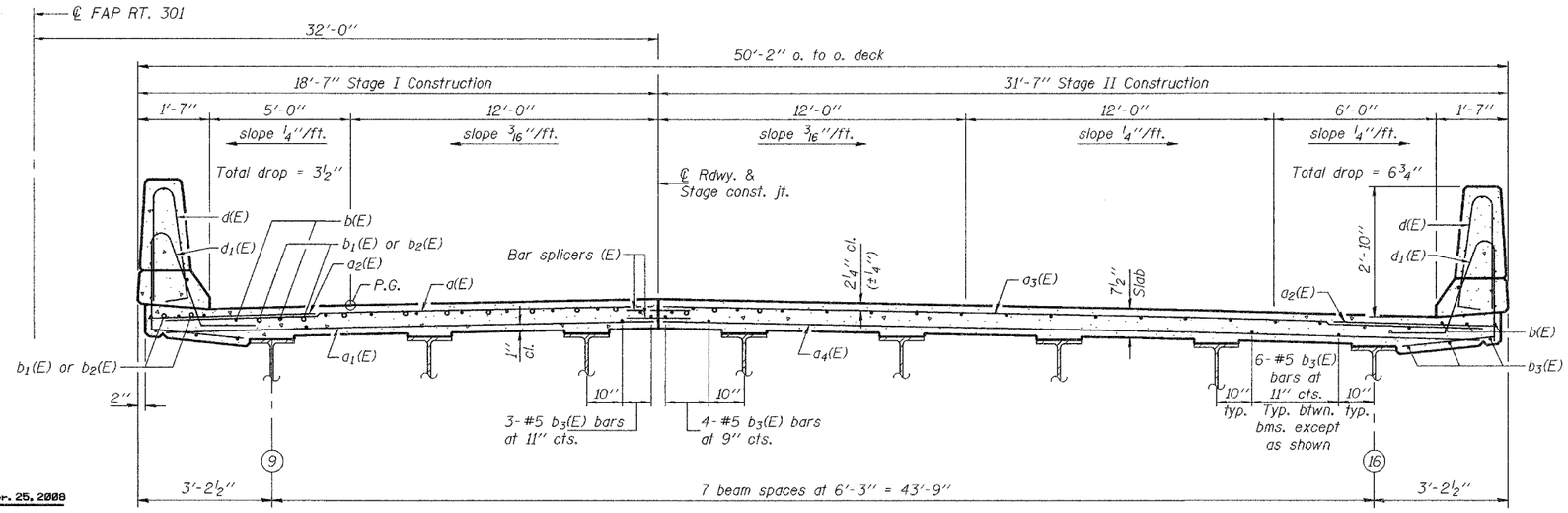


PARTIAL PLAN



DETAIL A
Parapet and approach not shown.
Detail similar at all four corners.

Notes: See sheet 17 of 34 for superstructure details and Bill of Material.
Bars indicated thus 47 x 8-#5 etc. indicates 47 lines of bars with 8 lengths per line.
See sheet 17 of 34 for parapet reinforcement.
See sheet 18 of 34 for Section A-A.



NEAR PIER — NEAR MIDSPAN

CROSS SECTION
(Looking East)

MIN. BAR LAP
#5 bars = 1'-8"

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

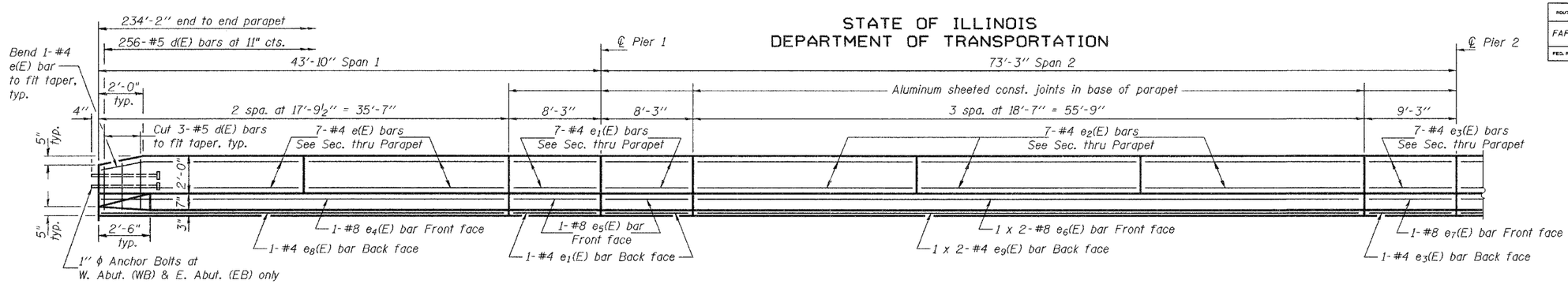
SUPERSTRUCTURE (E.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	103
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

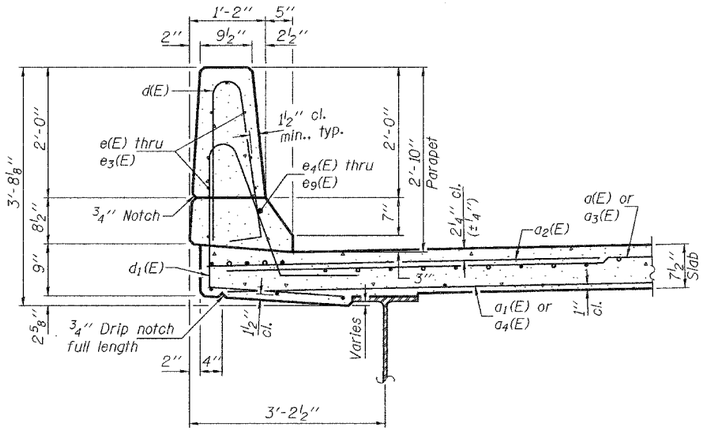
SHEET NO. 17
34 SHEETS

Contract No. 64292

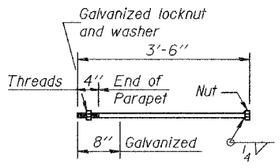


INSIDE ELEVATION OF PARAPET

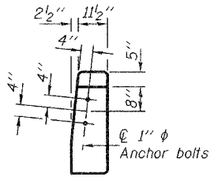
(North parapet - Looking North; South parapet similar)



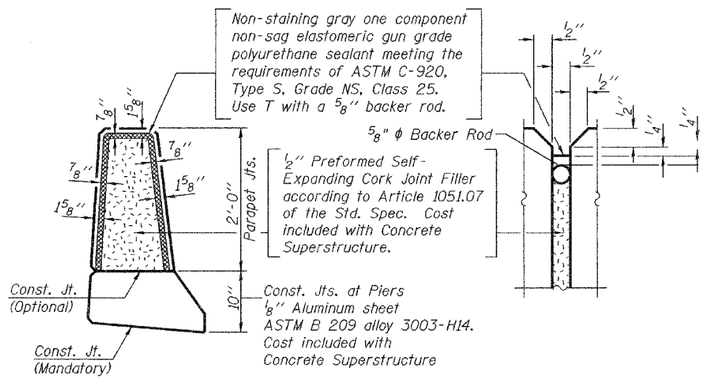
SECTION THRU PARAPET



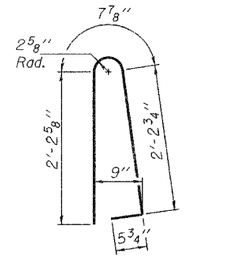
1" ϕ ANCHOR BOLT



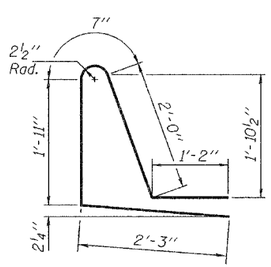
VIEW C-C



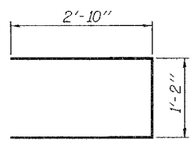
PARAPET JOINT DETAILS



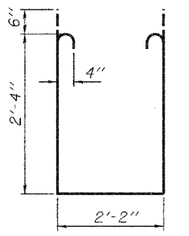
BAR d(E)



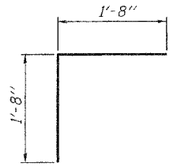
BAR d1(E)



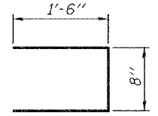
BAR s(E)



BAR s1(E)



BAR v(E)



BAR u(E)

MIN. BAR LAPS

(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"

TWO SUPERSTRUCTURES (E.B. & W.B.) BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	798	#5	18'-0"	——
d1(E)	620	#5	17'-1"	——
d2(E)	800	#6	6'-0"	——
d3(E)	798	#5	31'-0"	——
d4(E)	620	#5	30'-1"	——
b(E)	848	#5	30'-7"	——
b1(E)	204	#6	35'-4"	——
b2(E)	102	#6	39'-10"	——
b3(E)	882	#5	27'-4"	——
d(E)	1024	#5	5'-7"	⌊
d1(E)	1024	#5	7'-11"	⌊
e(E)	112	#4	17'-5"	——
e1(E)	128	#4	7'-11"	——
e2(E)	168	#4	18'-3"	——
e3(E)	64	#4	8'-11"	——
e4(E)	8	#8	35'-3"	——
e5(E)	16	#8	7'-11"	——
e6(E)	16	#8	29'-7"	——
e7(E)	8	#8	8'-11"	——
e8(E)	8	#4	35'-3"	——
e9(E)	16	#4	28'-6"	——
m(E)	32	#6	18'-1"	——
m1(E)	64	#6	8'-7"	——
m2(E)	16	#6	3'-0"	——
m3(E)	24	#6	5'-10"	——
m4(E)	32	#6	31'-1"	——
s(E)	196	#5	6'-10"	⌐
s1(E)	196	#4	7'-10"	⌐
u(E)	204	#6	3'-8"	⌐
v(E)	196	#5	3'-4"	⌐
Reinforcement Bars. Epoxy Coated		Pound	177,180	
Concrete Superstructure		Cu. Yds.	720.0	

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

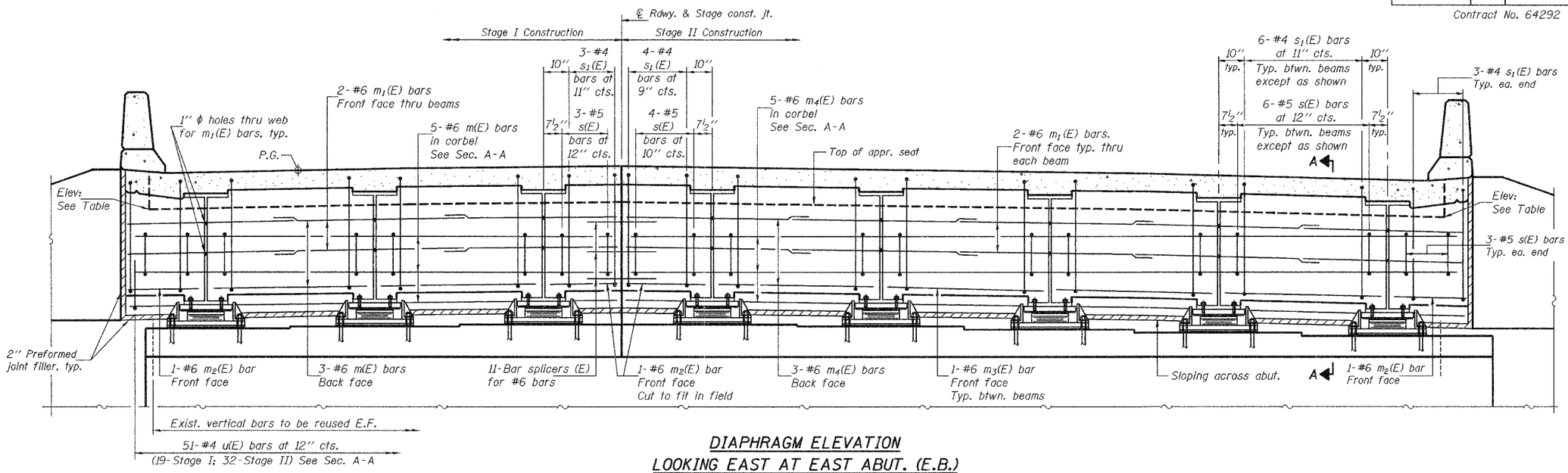
SUPERSTRUCTURE DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	104
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18
34 SHEETS

Contract No. 64292

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



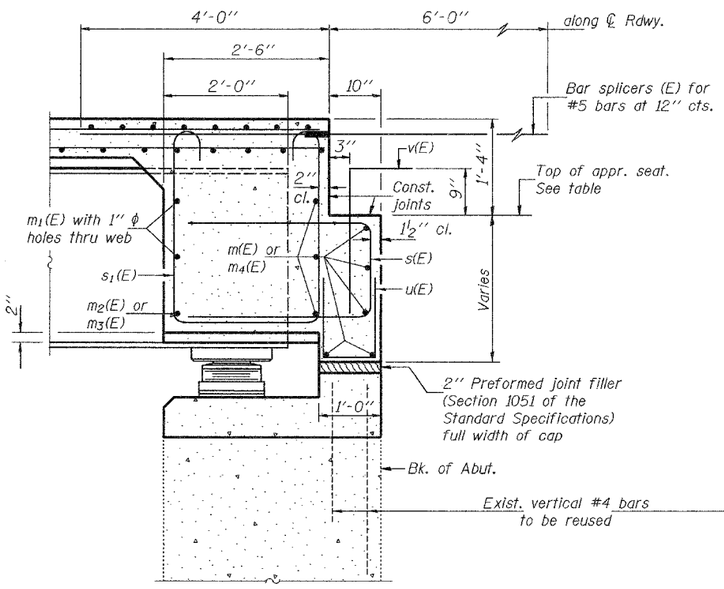
DIAPHRAGM ELEVATION
LOOKING EAST AT EAST ABUT. (E.B.)

(Other abutments similar)

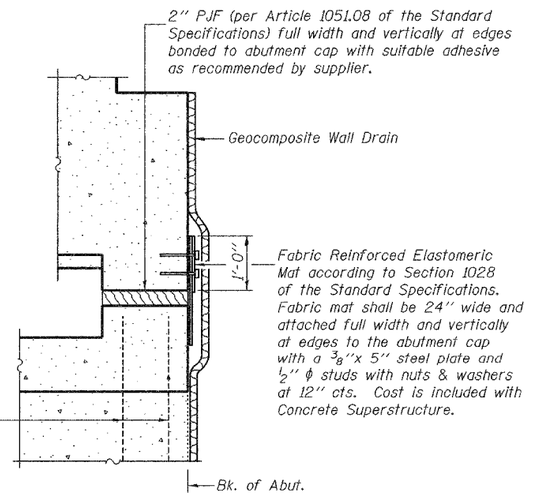
Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 17 of 34.
Concrete in diaphragm is included with Concrete Superstructure on sheet 17 of 34.
For details of bars s(E) & s_1(E) see sheet 17 of 34.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
Existing reinforcement bars extending into areas of new construction shall be cleaned, straightened and incorporated into new construction.

MIN. BAR LAP

#6 bar = 2'-9"



SECTION A-A



JOINT TREATMENT DETAIL

TOP OF APPROACH SEAT ELEVATION (E.B.)

	W. Abut.	E. Abut.
Inside face North Parapet	750.72	753.82
℄ Roadway	751.01	754.11
Inside face South Parapet	750.45	753.55

TOP OF APPROACH SEAT ELEVATION (W.B.)

	W. Abut.	E. Abut.
Inside face North Parapet	750.49	753.50
℄ Roadway	751.06	754.06
Inside face South Parapet	750.76	753.77

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

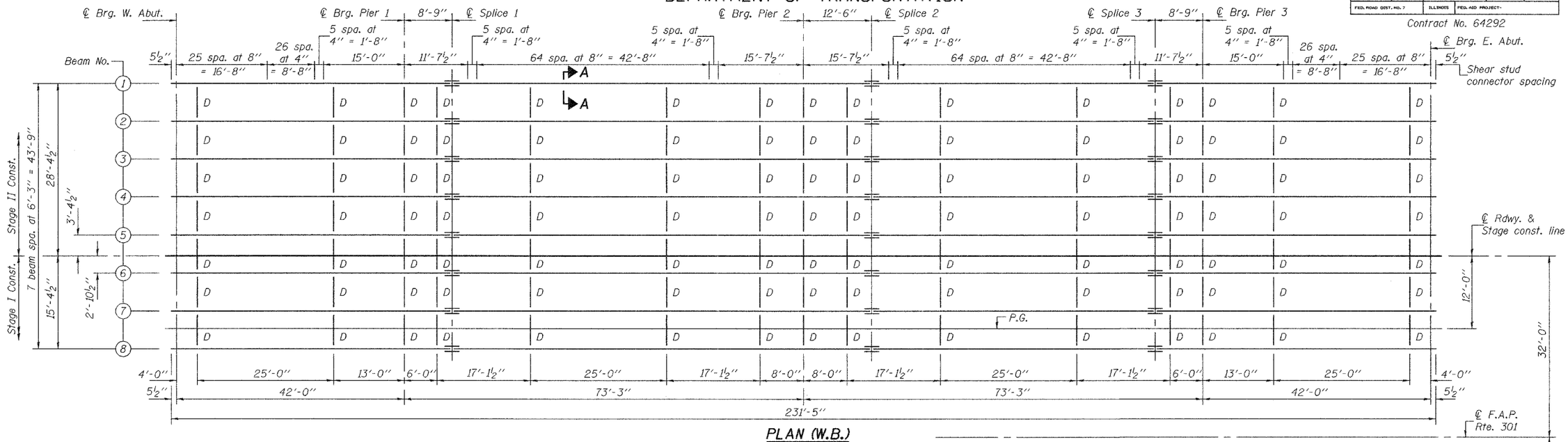
DIAPHRAGM DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	105
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
34 SHEETS

Contract No. 64292



PLAN (W.B.)

PLAN (E.B.)

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes:
See sheet 20 of 34 for Section A-A.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
See sheet 20 of 34 for details of diaphragms and splices.
All beams shall be W27x129 AASHTO M 270, Grade 50 and NTR.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

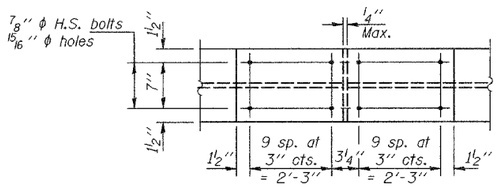
STRUCTURAL STEEL
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

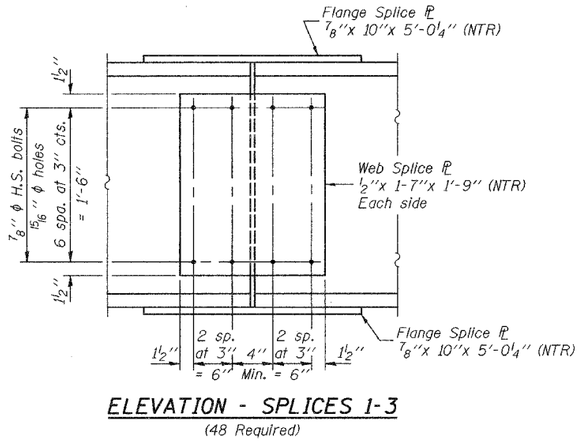
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	106
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20
34 SHEETS

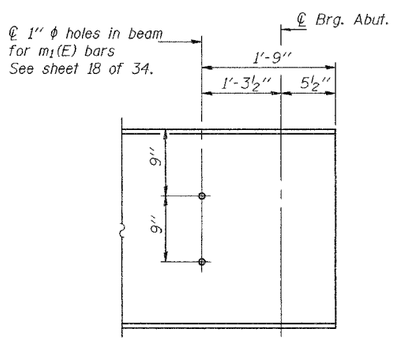
Contract No. 64292



PLAN - SPLICES 1-3
(Top & Bottom flanges)



ELEVATION - SPLICES 1-3
(48 Required)



END OF BEAM ELEVATION

INTERIOR BEAM MOMENT TABLE					
		0.4 Sp. 1 & 0.6 Sp. 4	Piers 1 & 3	0.5 Sp. 2 & Sp. 3	Pier 2
I_s	(in^4)	4760	4760	4760	4760
$I_c(n)$	(in^4)	12308	———	12308	———
$I_c(3n)$	(in^4)	8994	———	8994	———
S_s	(in^3)	345	345	345	345
$S_c(n)$	(in^3)	498	———	498	———
$S_c(3n)$	(in^3)	449	———	449	———
ℓ	(k/')	0.744	1.207	0.744	1.207
$M\ell$	('k)	54	387	185	553
$s\ell$	(k/')	0.463	———	0.463	———
$M_s\ell$	('k)	47	———	155	———
M_L	('k)	233	200	422	248
M_{Imp}	('k)	70	55	106	62
$\frac{5}{3}[M_L + M_{Imp}]$	('k)	505	425	880	517
M_a	('k)	788	1056	1586	1391
M_u	('k)	2016	———	1878	———
f_s ℓ non-comp	(ksi)	1.9	13.5	6.4	19.2
f_s ℓ (comp)	(ksi)	1.3	———	4.1	———
f_s $\frac{5}{3}[M_L + M_{Imp}]$	(ksi)	12.2	14.8	21.2	18.0
f_s (Overload)	(ksi)	15.4	28.3	31.7	37.2
f_s (Total)	(ksi)	———	36.8	———	48.4
VR	(k)	45.8	———	49.3	———

INTERIOR BEAM REACTION TABLE				
		Abutments	Piers 1 & 3	Pier 2
$R\ell$	(k)	****42.5	76.6	92.9
R_L	(k)	30.6	39.2	43.7
Imp.	(k)	9.2	10.7	11.0
R_{Total}	(k)	82.3	126.5	147.6

**** Dead load reactions includes 26.4 Kips for concrete diaphragm and approach pavement.

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

ℓ: Un-factored non-composite dead load (kips/ft.).

$M\ell$: Un-factored moment due to non-composite dead load (kip-ft.).

$s\ell$: Un-factored long-term composite (superimposed) dead load (kips/ft.)

$M_s\ell$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_L: Un-factored live load moment (kip-ft.).

M_{Imp}: Un-factored moment due to impact (kip-ft.).

M_a: Factored design moment (kip-ft.).
$1.3\ [M\ell + M_s\ell + \frac{5}{3}(M_L + M_{Imp})]$

M_u: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

f_s (Overload): Sum of stresses as computed from the moments below (ksi).
$M\ell + M_s\ell + \frac{5}{3}(M_L + M_{Imp})$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
$1.3\ [M\ell + M_s\ell + \frac{5}{3}(M_L + M_{Imp})]$

VR: Maximum L + impact horizontal shear range within the composite portion of the span for stud shear connector design (kips).

***TOP OF BEAM ELEVATIONS (W.B.)

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Splice 3	℄ Brg. Pier 3	℄ Brg. E. Abut.
Beam 1	751.21	751.69	751.81	752.63	752.79	753.46	753.58	754.18
Beam 2	751.34	751.82	751.94	752.76	752.92	753.59	753.71	754.31
Beam 3	751.47	751.95	752.07	752.89	753.05	753.72	753.84	754.44
Beam 4	751.59	752.07	752.19	753.01	753.16	753.84	753.96	754.56
Beam 5	751.69	752.17	752.29	753.10	753.26	753.94	754.06	754.66
Beam 6	751.69	752.18	752.30	753.11	753.27	753.94	754.07	754.67
Beam 7	751.60	752.08	752.20	753.01	753.17	753.85	753.97	754.57
Beam 8	751.48	751.96	752.08	752.90	753.06	753.73	753.85	754.45

***For fabrication use only.

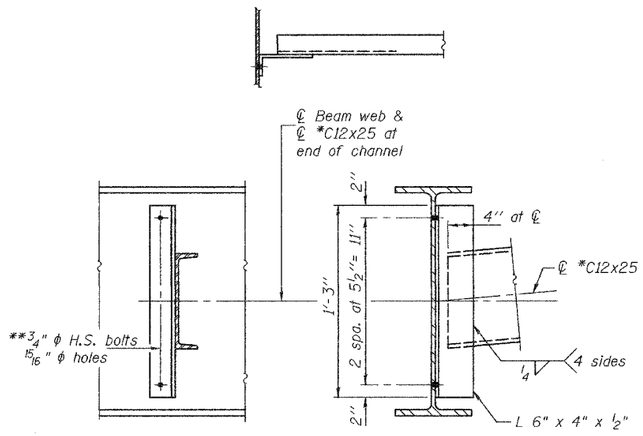
***TOP OF BEAM ELEVATIONS (E.B.)

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Splice 3	℄ Brg. Pier 3	℄ Brg. E. Abut.
Beam 9	751.44	751.94	752.04	752.90	753.07	753.76	753.88	754.50
Beam 10	751.55	752.05	752.15	753.01	753.18	753.87	754.00	754.62
Beam 11	751.65	752.15	752.25	753.11	753.28	753.97	754.10	754.71
Beam 12	751.64	752.14	752.24	753.10	753.27	753.96	754.09	754.71
Beam 13	751.54	752.04	752.15	753.01	753.27	753.86	753.99	754.61
Beam 14	751.43	751.92	752.03	752.89	753.05	753.75	753.87	754.49
Beam 15	751.30	751.79	751.90	752.76	752.92	753.62	753.74	754.36
Beam 16	751.17	751.66	751.77	752.63	752.79	753.49	753.61	754.23

***For fabrication use only.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

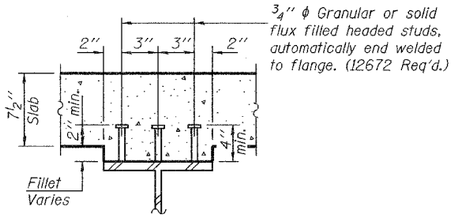
Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



DIAPHRAGM D
(210 Required)

* Alternate channel C12x30 may be used to facilitate material acquisition. The calculated weight of structural steel is based on the lighter section, C12x25. The alternate, if utilized, will be provided at no extra cost to the department.

** Use 13/16" x 1 1/2" vertical slotted holes in angles at Beam 5 between Beams 5 & 6 for W.B. structure and at Beam 12 between Beams 11 & 12 for E.B. structure. Provide 15/16" plate washers for slotted holes. The bolts for slotted holes in angles on Stage I side of Beams 5 & 12 shall be finger tightened prior to the deck pour for Stage II construction. The bolts shall be fully tightened after completion of the deck pour for Stage II construction.



SECTION A-A

Notes: Two hardened washers required for each set of oversized holes.
All splice plates shall be AASHTO M 270, Grade 50.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

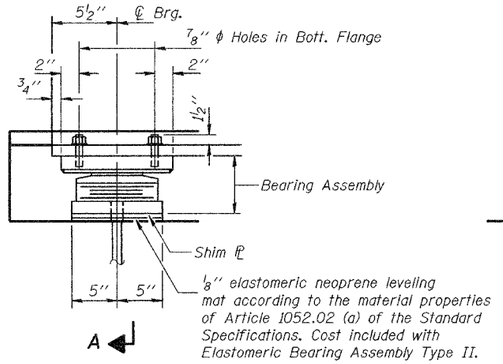
STRUCTURAL STEEL DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

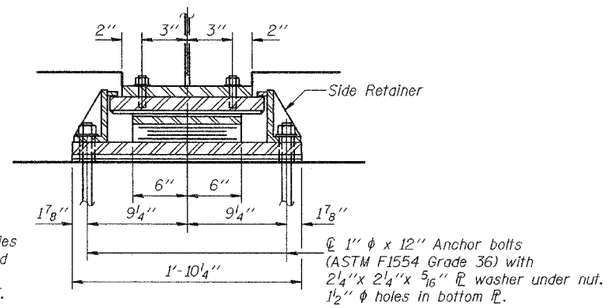
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	107
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 21
34 SHEETS

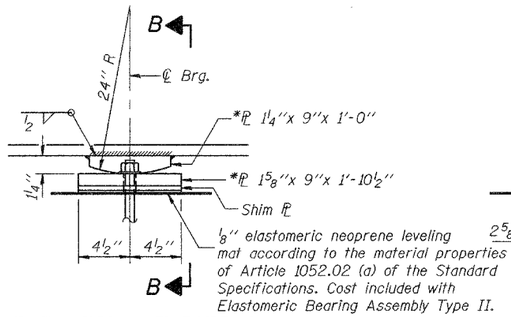
Contract No. 64292



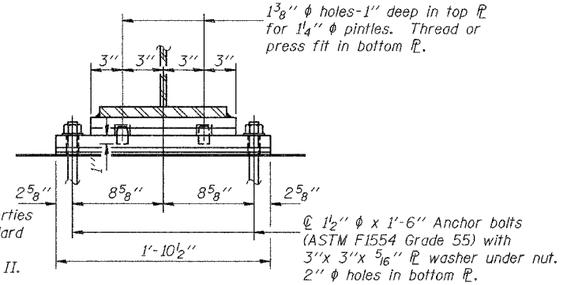
ELEVATION AT ABUTS.



SECTION A-A



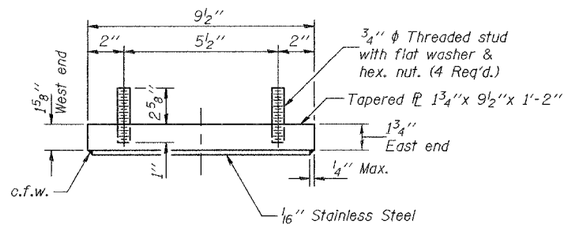
ELEVATION AT PIER 2



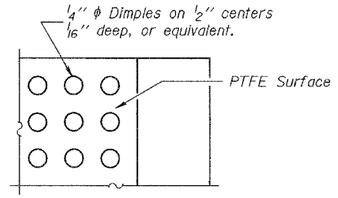
SECTION B-B

TYPE II ELASTOMERIC EXP. BRG.
(32 Required)

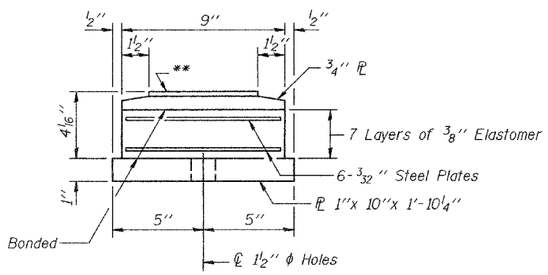
FIXED BEARING
(16 Required)



TOP BEARING ASSEMBLY

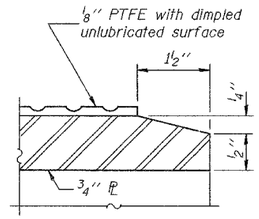


PLAN-PTFE SURFACE

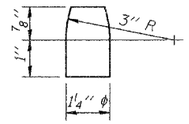


BOTTOM BEARING ASSEMBLY

** ⅛" PTFE dimpled, unlubricated



SECTION THRU PTFE



*PINTLE

*AASHTO M 270 Grade 50.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for Type II bearings shall be placed in holes in the concrete drilled through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

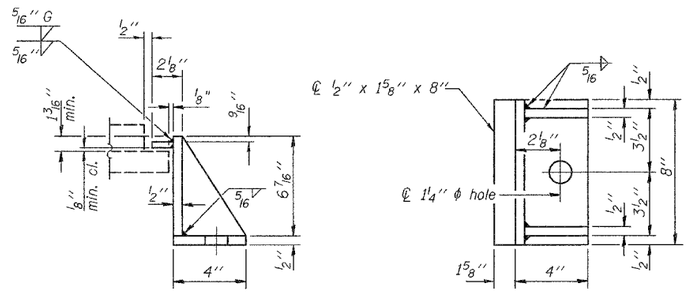
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

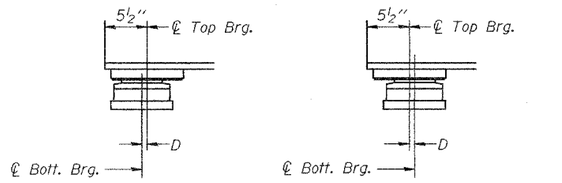
Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



SIDE RETAINERS AT ABUTMENTS
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BELOW 50°F. (Move bott. brg. away from fixed brg.)

ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.
D=⅛" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	32
Anchor Bolts 1"	Each	64
Anchor Bolts 1½"	Each	32

BEARING DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

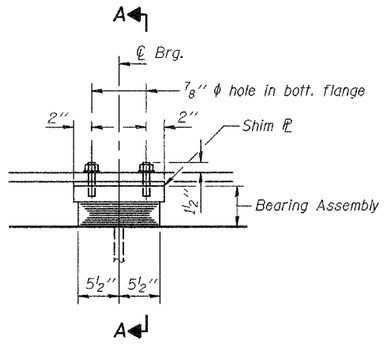
EXAMINED Apr. 25, 2008
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

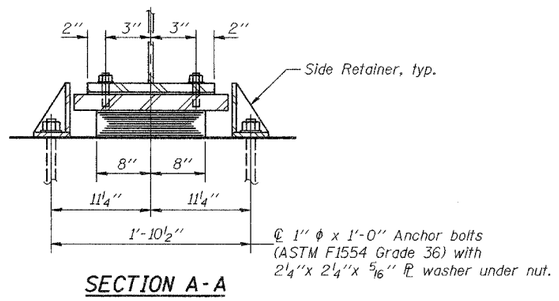
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	108
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22
34 SHEETS

Contract No. 64292



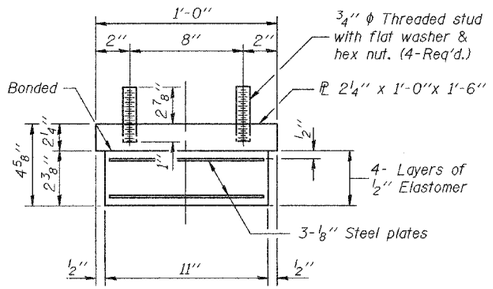
ELEVATION AT PIERS 1 & 3



SECTION A-A

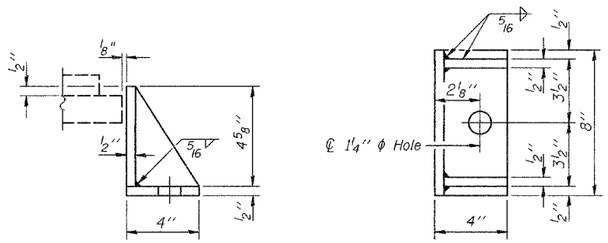
TYPE I ELASTOMERIC EXP. BRG.

(32 Required)



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	32
Anchor Bolts 1"	Each	64

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

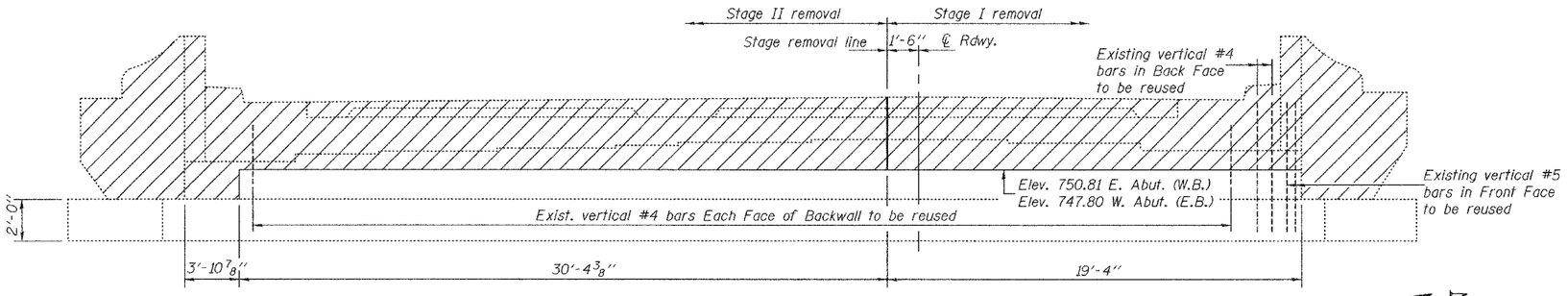
BEARING DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	109
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 23
34 SHEETS

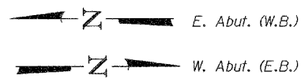
Contract No. 64292

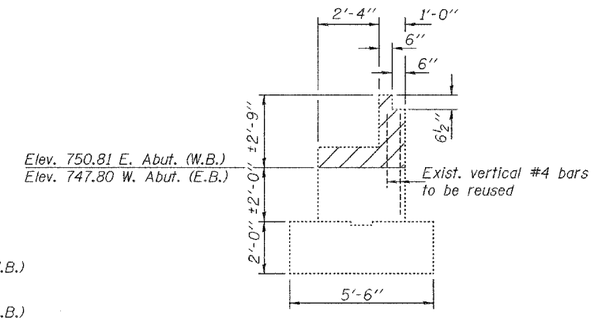
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



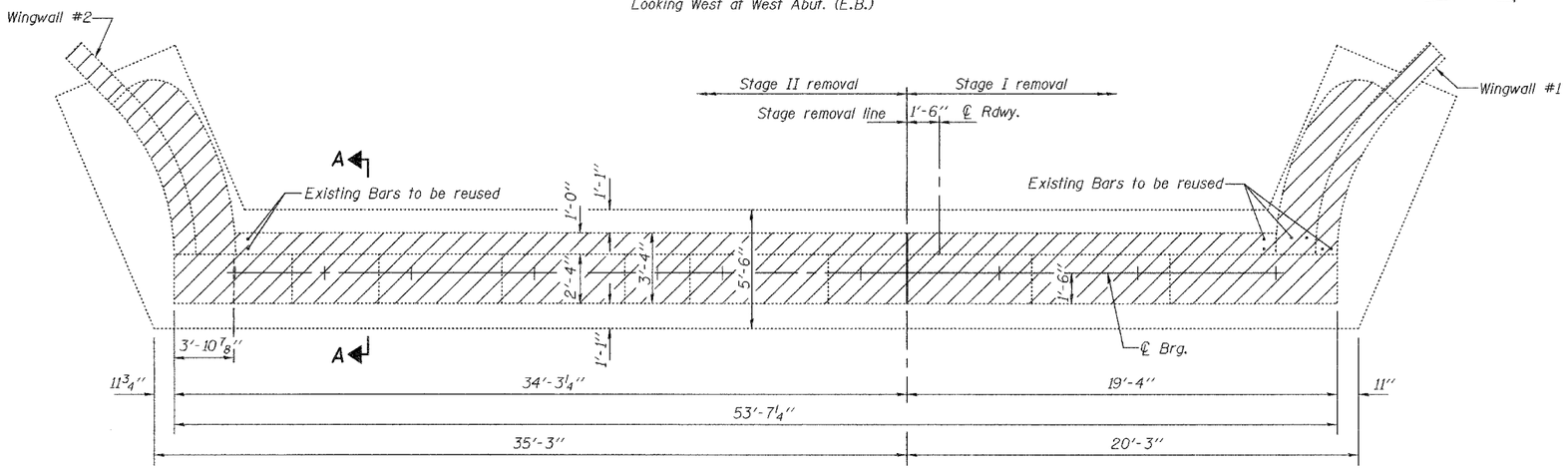
ELEVATION

Looking East at East Abut. (W.B.) &
Looking West at West Abut. (E.B.)

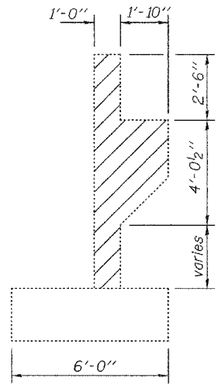




SECTION A-A

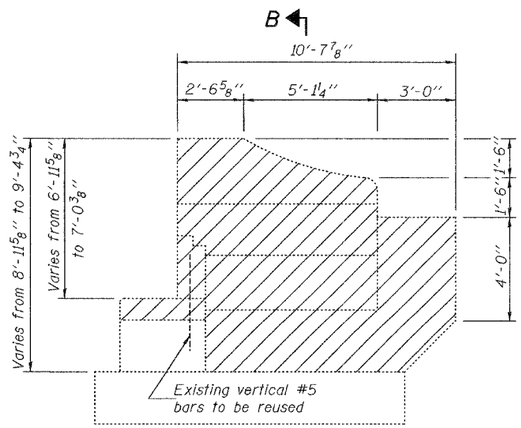


PLAN

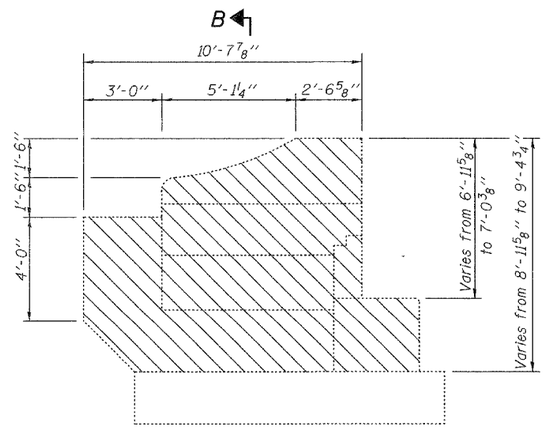


SECTION B-B

Notes: Hatched areas indicate Concrete Removal.
Existing reinforcement not extending into new construction shall be cut off flush and covered with a 2" layer of cement grout. Cost included with Concrete Removal.
Existing reinforcement bars extending into new construction shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.



WINGWALL #1 ELEVATION



WINGWALL #2 ELEVATION

FOUR ABUTMENTS
BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	63.2

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

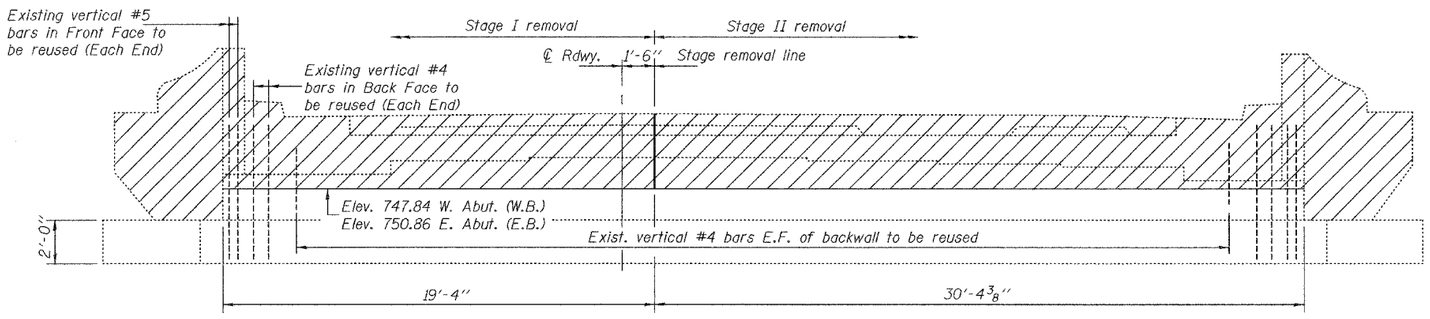
CONCRETE REMOVAL DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	110
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

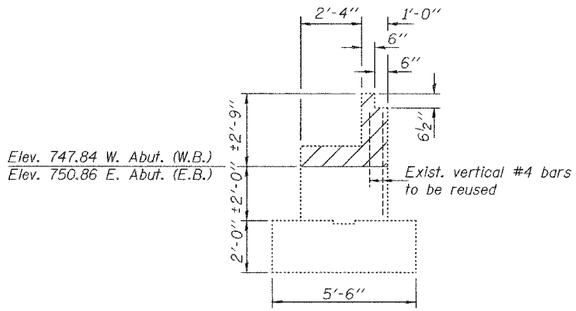
SHEET NO. 24
34 SHEETS

Contract No. 64292

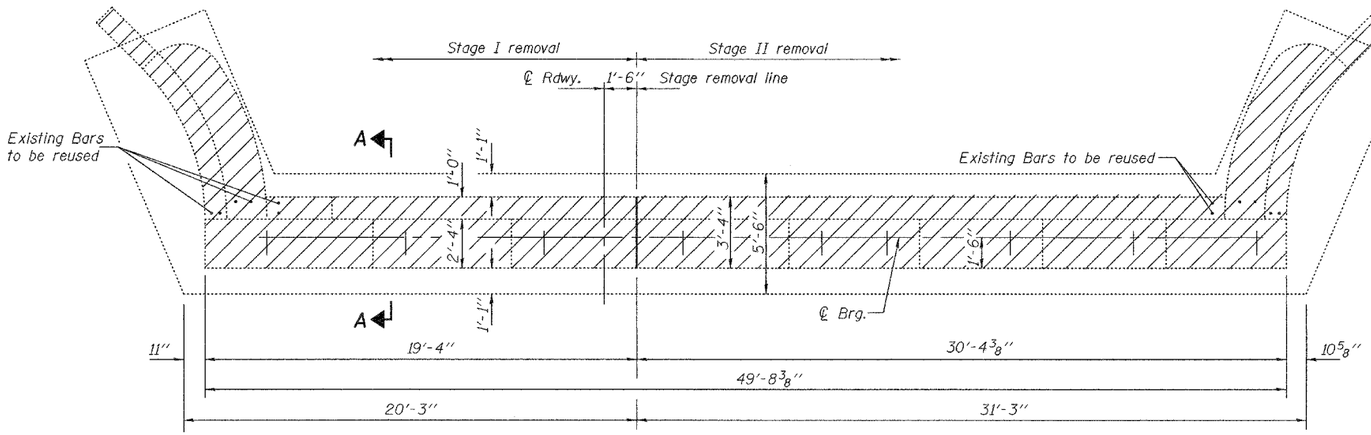


ELEVATION

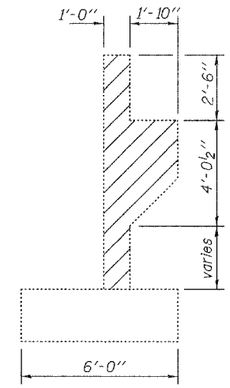
Looking West at West Abut. (W.B.)
& Looking East at East Abut. (E.B.)



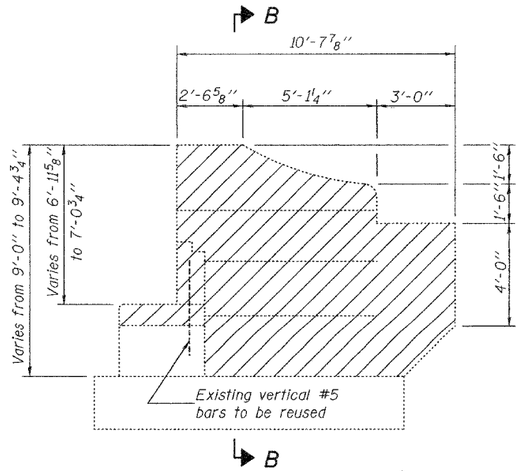
SECTION A-A



PLAN



SECTION B-B



WINGWALL ELEVATION

Notes: Hatched areas indicate Concrete Removal.
Existing reinforcement not extending into new construction shall be cut off flush and covered with a 2" layer of cement grout. Cost included with Concrete Removal.
Existing reinforcement bars extending into the new construction shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

CONCRETE REMOVAL DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

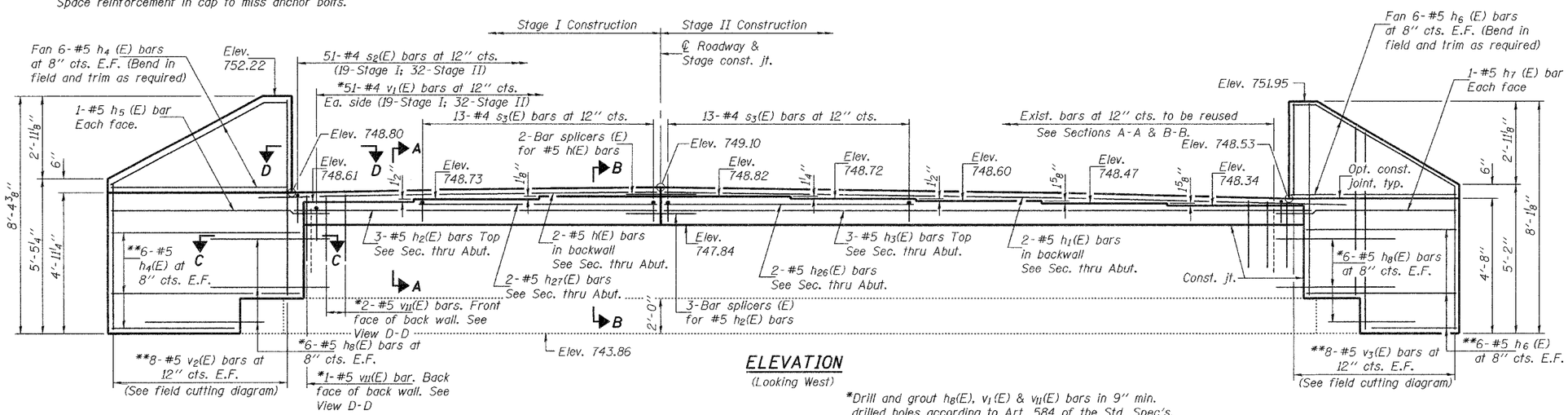
Notes: Space drilled holes in existing cap to miss existing reinforcement.
For bar splicer details see sheet 33 of 34.
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	111
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 25
34 SHEETS

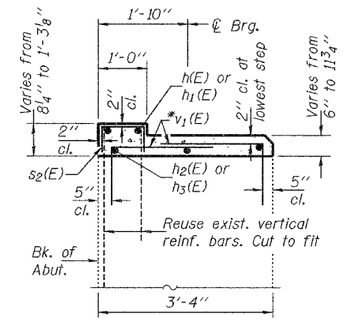
Contract No. 64292



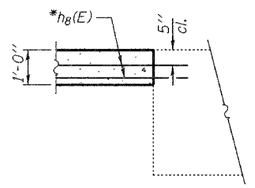
ELEVATION

(Looking West)

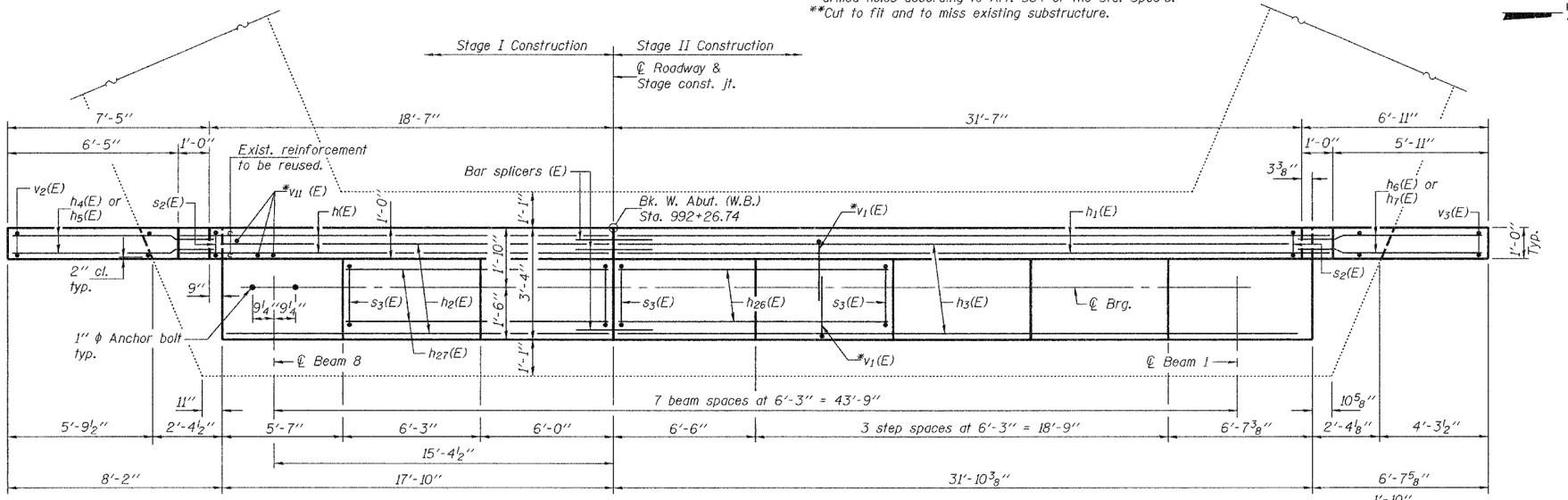
*Drill and grout h8(E), v1(E) & v11(E) bars in 9" min. drilled holes according to Art. 584 of the Std. Spec's.
**Cut to fit and to miss existing substructure.



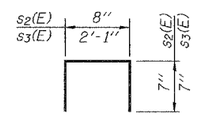
SECTION A-A



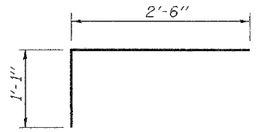
SECTION C-C



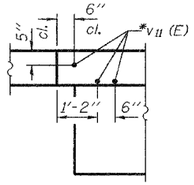
PLAN



BARS s2(E) & s3(E)

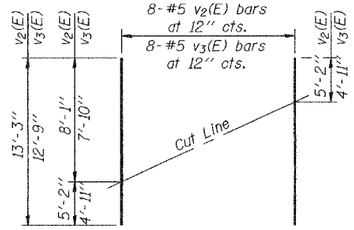


BAR v1(E)



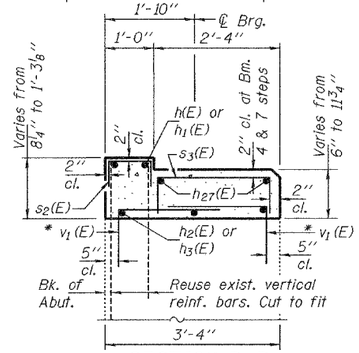
VIEW D-D

(South end shown, North end similar)



FIELD CUTTING DIAGRAM

Order v2(E) & v3(E) full length. Cut as shown and use remainder of bars in opposite face.



SECTION B-B

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	2	#5	19'-10"	
	h1(E)	2	#5	32'-10"	
	h2(E)	3	#5	17'-7"	
	h3(E)	3	#5	31'-7"	
	h4(E)	24	#5	7'-10"	
	h5(E)	2	#5	10'-6"	
	h6(E)	24	#5	7'-4"	
	h7(E)	2	#5	9'-0"	
*	h8(E)	24	#5	3'-1"	
	h26(E)	2	#5	12'-6"	
	h27(E)	2	#5	12'-0"	
	s2(E)	51	#4	1'-10"	⊓
	s3(E)	26	#4	3'-3"	⊓
*	v1(E)	102	#5	3'-7"	⌐
	v2(E)	8	#5	13'-3"	
	v3(E)	8	#5	12'-9"	
*	v11(E)	6	#5	1'-3"	
	Concrete Structures		Cu. Yd.	8.8	
	Reinforcement Bars, Epoxy Coated		Pound	1540	
	Structure Excavation		Cu. Yd.	66.6	

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

WEST ABUTMENT (W.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

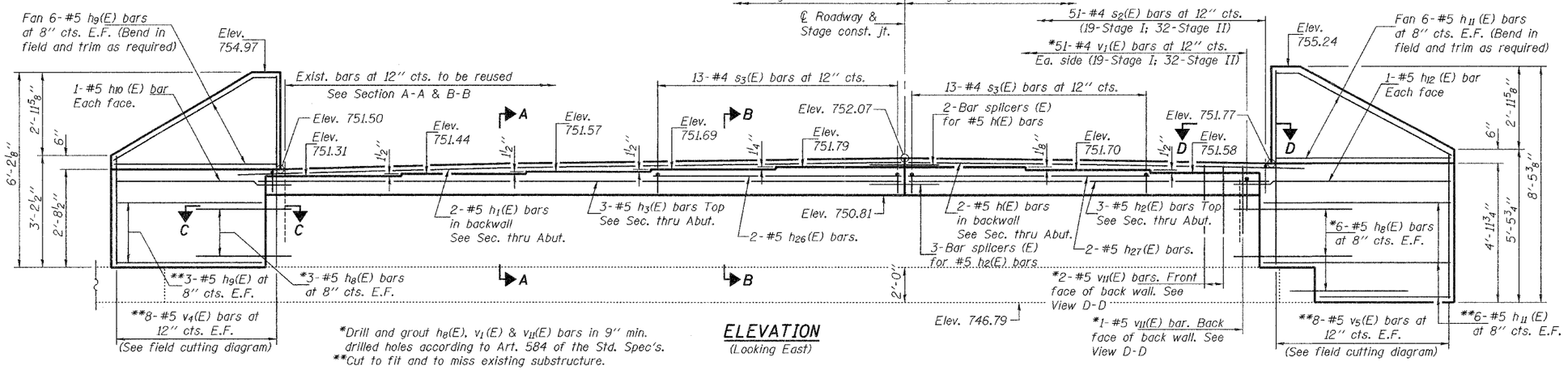
Notes: Space drilled holes in existing cap to miss existing reinforcement.
For bar splicer details see sheet 33 of 34.
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	112
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

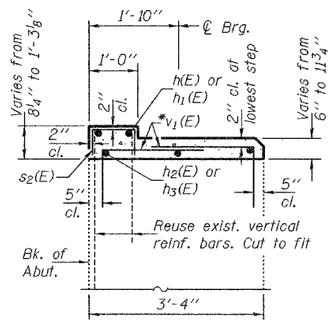
SHEET NO. 26
34 SHEETS

Contract No. 64292

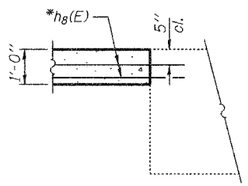


*Drill and grout h8(E), v1(E) & v11(E) bars in 9" min. drilled holes according to Art. 584 of the Std. Spec's.
**Cut to fit and to miss existing substructure.

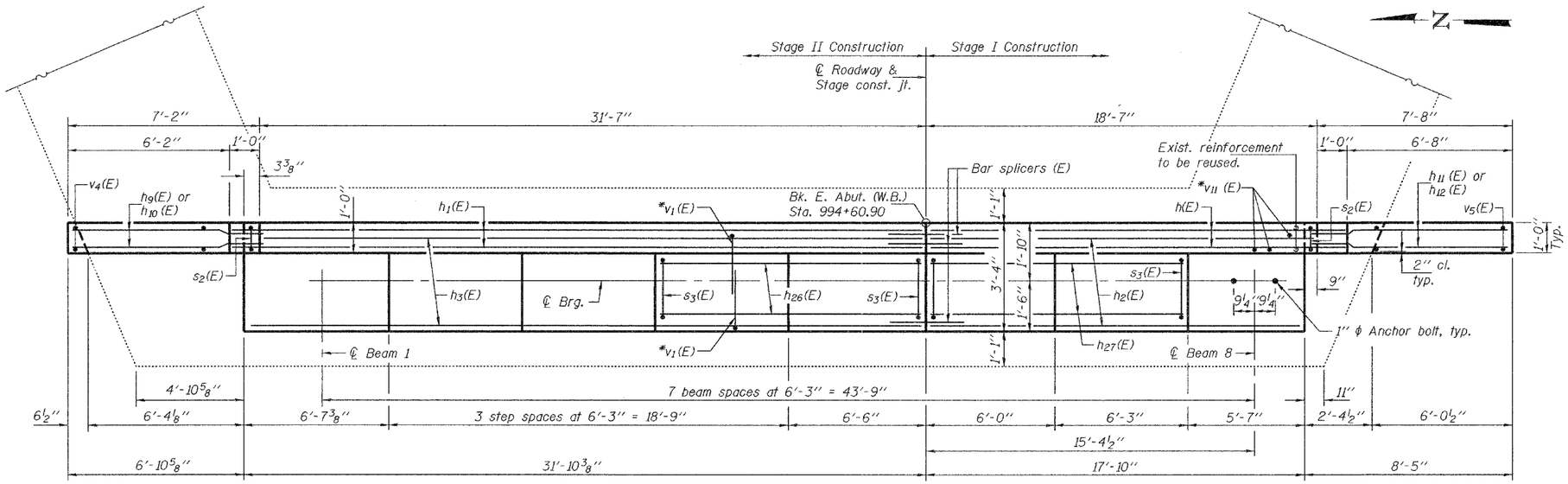
ELEVATION
(Looking East)



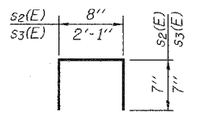
SECTION A-A



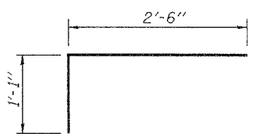
SECTION C-C



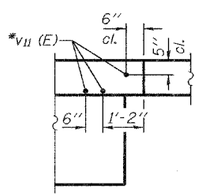
PLAN



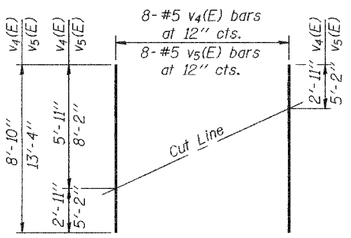
BARS s2(E) & s3(E)



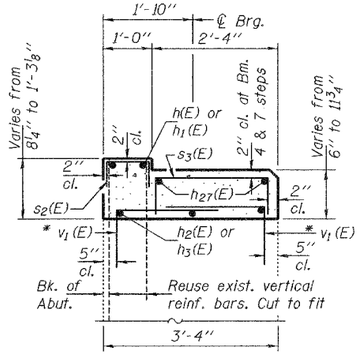
BAR v1(E)



VIEW D-D
(South end only.)



FIELD CUTTING DIAGRAM
Order v4(E) & v5(E) full length. Cut as shown and use remainder of bars in opposite face.



SECTION B-B

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	2	#5	19'-10"	
	h1(E)	2	#5	32'-10"	
	h2(E)	3	#5	17'-7"	
	h3(E)	3	#5	31'-7"	
*	h8(E)	18	#5	3'-1"	
	h9(E)	18	#5	7'-4"	
	h10 (E)	1	#5	9'-0"	
	h11 (E)	24	#5	8'-2"	
	h12 (E)	1	#5	10'-7"	
	h26(E)	2	#5	12'-6"	
	h27(E)	2	#5	12'-0"	
	s2(E)	51	#4	1'-10"	⊓
	s3(E)	26	#4	3'-3"	⊓
*	v1(E)	102	#5	3'-7"	⌐
	v4(E)	8	#5	8'-10"	
	v5(E)	8	#5	13'-4"	
*	v11(E)	3	#5	1'-3"	
	Concrete Structures		Cu. Yd.	8.8	
	Reinforcement Bars, Epoxy Coated		Pound	1420	
	Structure Excavation		Cu. Yd.	68.9	

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT (W.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

...\projects\htt00025\1010065.dgn 04/25/2008 11:52:01 AM

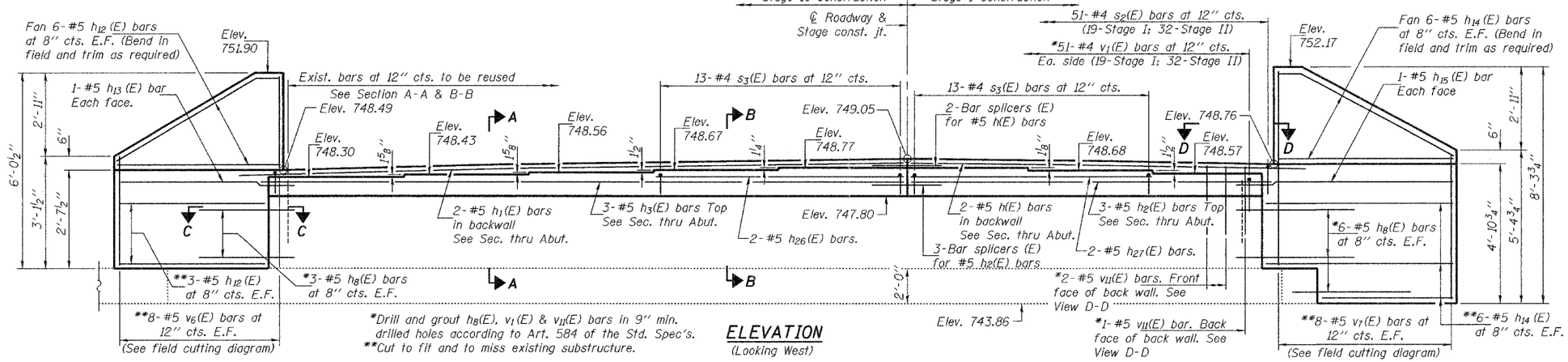
Notes: Space drilled holes in existing cap to miss existing reinforcement.
For bar splicer details see sheet 33 of 34.
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

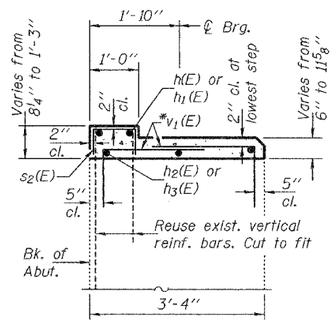
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	113
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 27
34 SHEETS

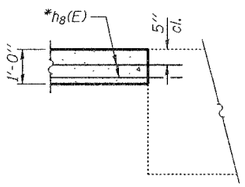
Contract No. 64292



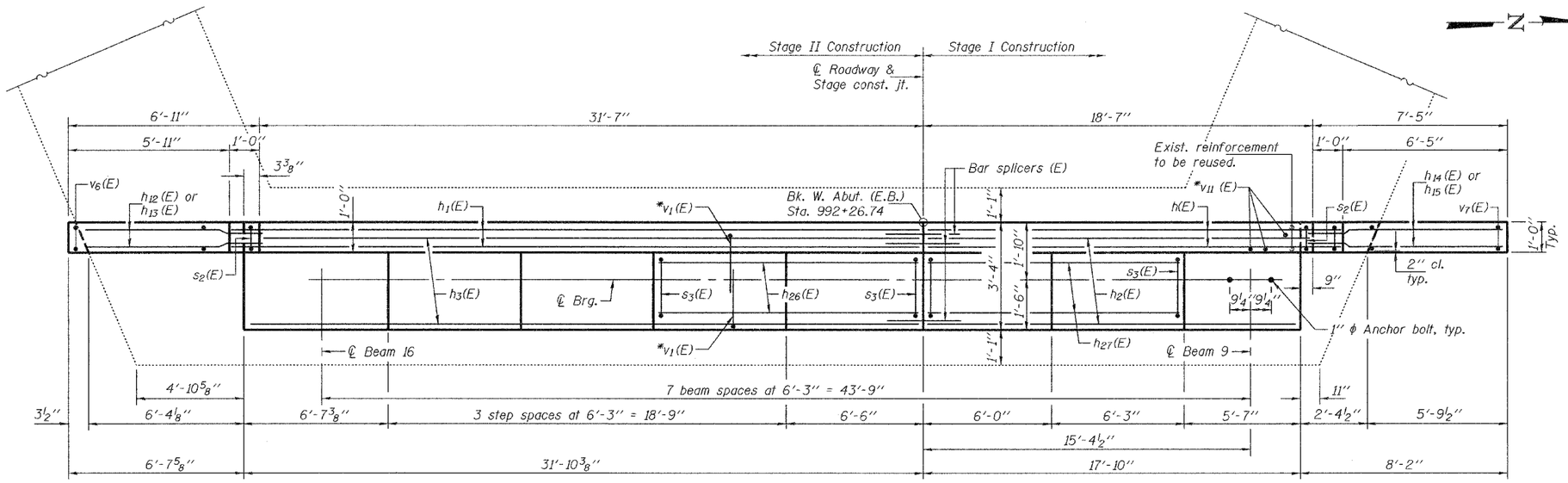
ELEVATION
(Looking West)



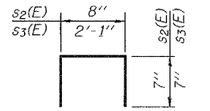
SECTION A-A



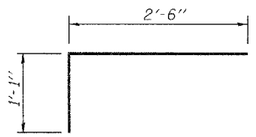
SECTION C-C



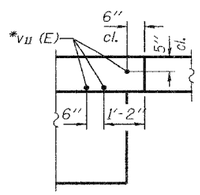
PLAN



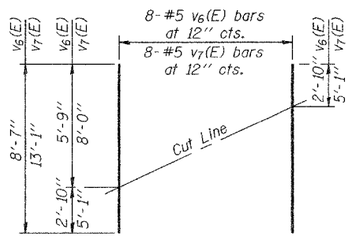
BARS s2(E) & s3(E)



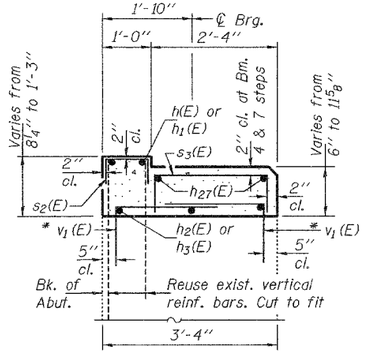
BAR v1(E)



VIEW D-D
(North end only.)



FIELD CUTTING DIAGRAM
Order v6(E) & v7(E) full length. Cut as shown and use remainder of bars in opposite face.



SECTION B-B

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	2	#5	19'-10"	——
	h1(E)	2	#5	32'-10"	——
	h2(E)	3	#5	17'-7"	——
	h3(E)	3	#5	31'-7"	——
*	h8(E)	18	#5	3'-1"	——
	h12(E)	18	#5	7'-6"	——
	h13(E)	1	#5	8'-10"	——
	h14(E)	24	#5	8'-0"	——
	h15(E)	1	#5	9'-7"	——
	h26(E)	2	#5	12'-6"	——
	h27(E)	2	#5	12'-0"	——
	s2(E)	51	#4	1'-10"	⊓
	s3(E)	26	#4	3'-3"	⊓
*	v1(E)	102	#5	3'-7"	⌐
	v6(E)	8	#5	8'-7"	——
	v7(E)	8	#5	13'-1"	——
*	v11(E)	3	#5	1'-3"	——
	Concrete Structures			Cu. Yd.	8.8
	Reinforcement Bars, Epoxy Coated			Pound	1420
	Structure Excavation			Cu. Yd.	65.8

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

WEST ABUTMENT (E.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

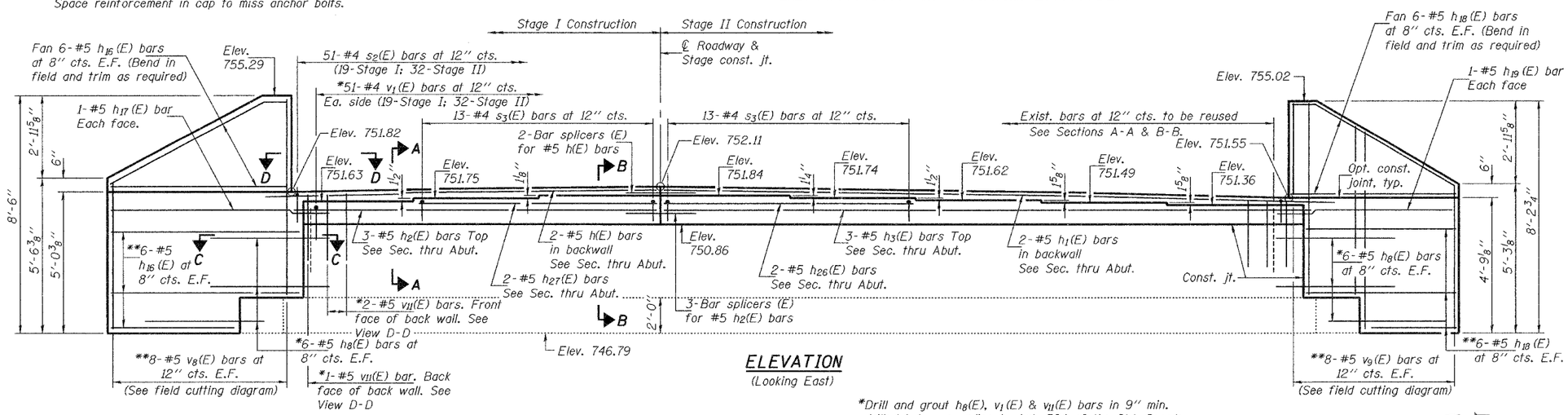
Notes: Space drilled holes in existing cap to miss existing reinforcement.
For bar splicer details see sheet 33 of 34.
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	114
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

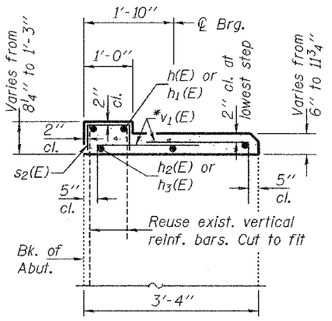
SHEET NO. 28
34 SHEETS

Contract No. 64292

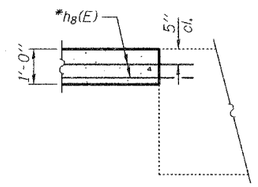


ELEVATION
(Looking East)

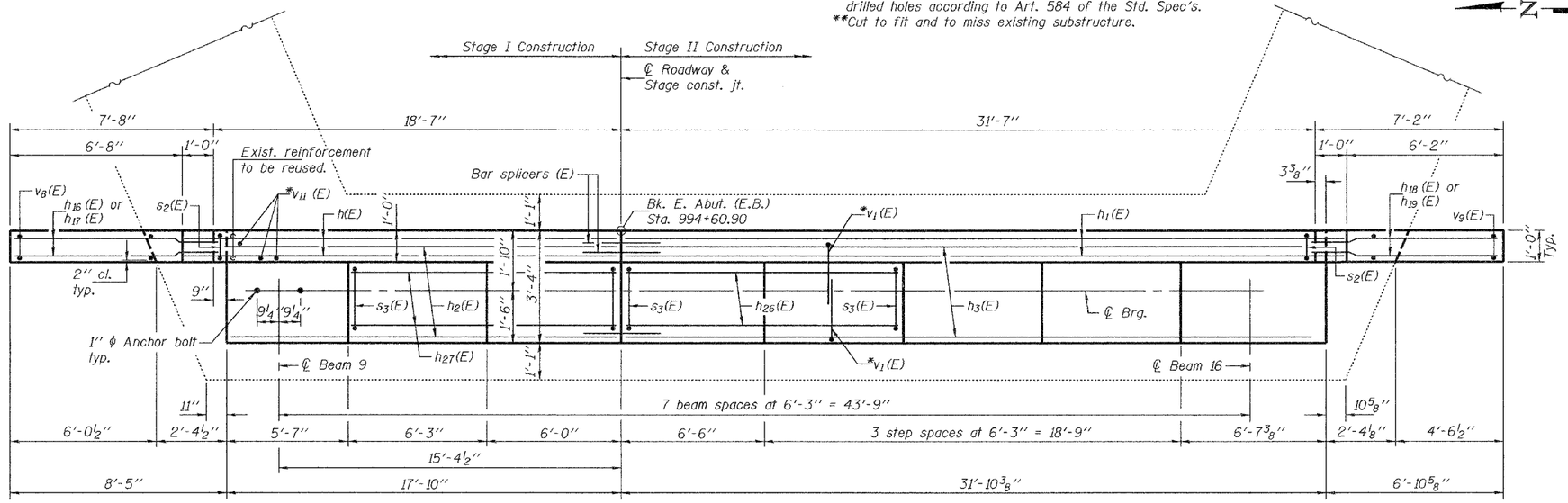
*Drill and grout h8(E), v1(E) & v11(E) bars in 9" min. drilled holes according to Art. 584 of the Std. Spec's.
**Cut to fit and to miss existing substructure.



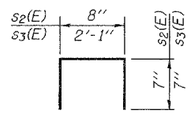
SECTION A-A



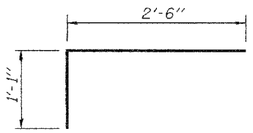
SECTION C-C



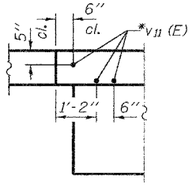
PLAN



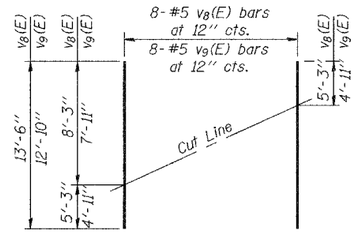
BARS s2(E) & s3(E)



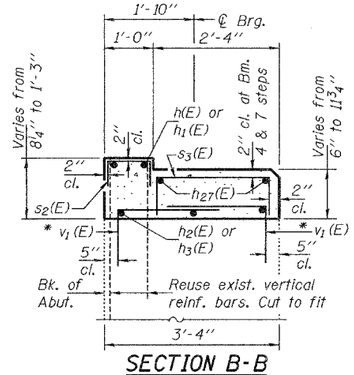
BAR v1(E)



VIEW D-D
(North end shown, South end similar)



FIELD CUTTING DIAGRAM
Order v8(E) & v9(E) full length. Cut as shown and use remainder of bars in opposite face.



SECTION B-B

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	2	#5	19'-10"	
	h1(E)	2	#5	32'-10"	
	h2(E)	3	#5	17'-7"	
	h3(E)	3	#5	31'-7"	
*	h8(E)	24	#5	3'-1"	
	h16(E)	24	#5	8'-2"	
	h17(E)	1	#5	9'-10"	
	h18(E)	24	#5	7'-8"	
	h19(E)	1	#5	9'-1"	
	h26(E)	2	#5	12'-6"	
	h27(E)	2	#5	12'-0"	
	s2(E)	51	#4	1'-10"	⊓
	s3(E)	26	#4	3'-3"	⊓
*	v1(E)	102	#5	4'-8"	⌐
	v8(E)	8	#5	13'-6"	
	v9(E)	8	#5	12'-10"	
*	v11(E)	6	#5	1'-3"	
	Concrete Structures			Cu. Yd.	8.8
	Reinforcement Bars, Epoxy Coated			Pound	1650
	Structure Excavation			Cu. Yd.	69.6

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

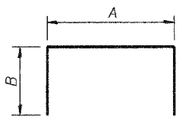
EAST ABUTMENT (E.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	115
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 29
34 SHEETS

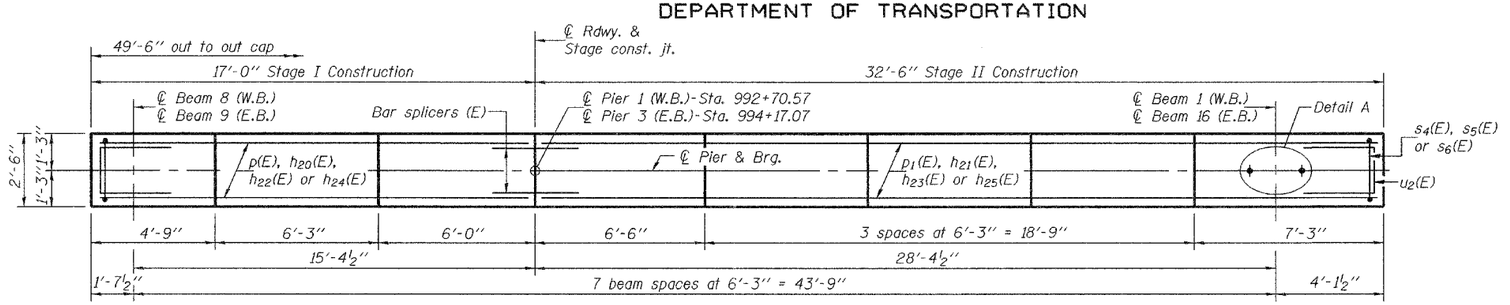
Contract No. 64292



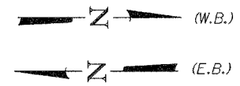
BARS $s_4(E)$, $s_5(E)$ & $s_6(E)$

A & B DIMENSIONS

Bar	A	B
$s_4(E)$	2'-2"	1'-0"
$s_5(E)$	2'-2"	10"
$s_6(E)$	2'-2"	8"

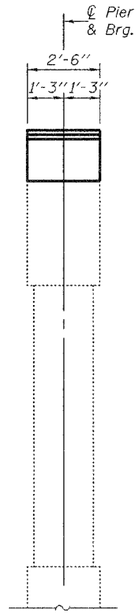


TOP PLAN

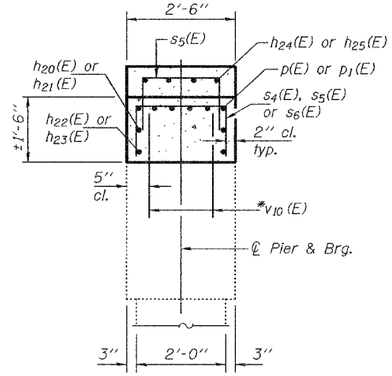


ELEVATION

(Pier 1 (W.B.) - Looking West)
(Pier 3 (E.B.) - Looking East)



END VIEW



SECTION A-A

TWO PIERS
BILL OF MATERIAL

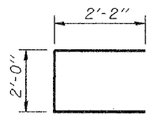
Bar	No.	Size	Length	Shape
$h_{20}(E)$	4	#5	16'-8"	——
$h_{21}(E)$	4	#5	32'-2"	——
$h_{22}(E)$	4	#5	6'-5"	——
$h_{23}(E)$	4	#5	11'-6"	——
$h_{24}(E)$	8	#5	11'-11"	——
$h_{25}(E)$	8	#5	12'-5"	——
$p(E)$	12	#8	16'-8"	——
$p_1(E)$	12	#8	32'-2"	——
$s_4(E)$	32	#5	4'-2"	⊓
$s_5(E)$	116	#5	3'-10"	⊓
$s_6(E)$	34	#5	3'-6"	⊓
$u_2(E)$	12	#6	6'-4"	⊏
* $v_{10}(E)$	100	#5	1'-10"	——
Concrete Structures			Cu. Yd.	14.1
Reinforcement Bars, Epoxy Coated			Pound	3080

* Epoxy grout $v_{10}(E)$ bars in 9" min. drilled holes according to Section 584 of the Std. Spec's. Space drilled holes in existing cap to miss existing reinforcement. Cost included with Reinforcement Bars, Epoxy Coated.

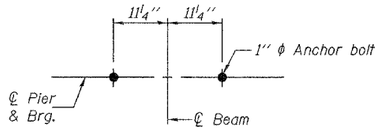
Notes: Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For bar splicer details see sheet 33 of 34.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



BAR $u_2(E)$



DETAIL A

TABLE OF PIER CAP END THICKNESS

Location	y	z
Pier 1 (W.B.)	1'-5½"	1'-6"
Pier 3 (E.B.)	1'-6⅞"	1'-7¼"

TABLE OF ELEVATIONS

Location	A	B	C	D	E	F	G
Pier 1 (W.B.)	749.27	749.39	749.48	749.38	749.26	749.13	749.00
Pier 3 (E.B.)	751.19	751.31	751.40	751.30	751.18	751.05	750.92

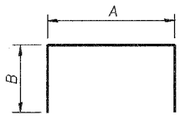
PIER 1 (W.B.)
PIER 3 (E.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	116
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 30
34 SHEETS

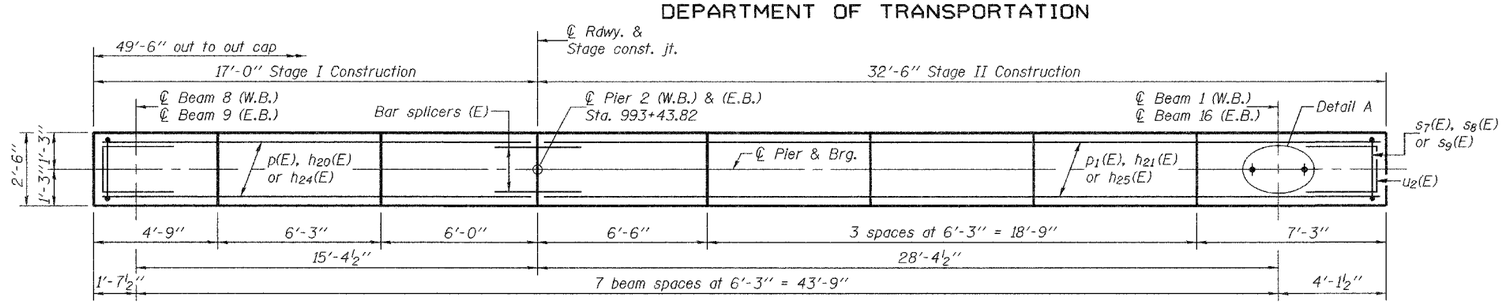
Contract No. 64292



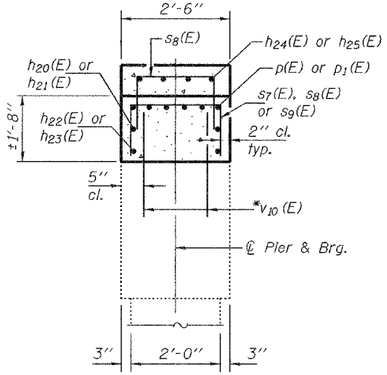
BARS $s_7(E)$, $s_8(E)$ & $s_9(E)$

A & B DIMENSIONS

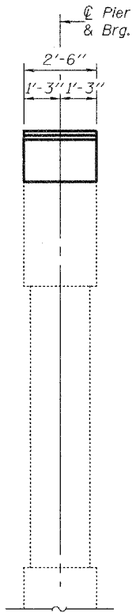
Bar	A	B
$s_7(E)$	2'-2"	1'-1"
$s_8(E)$	2'-2"	11"
$s_9(E)$	2'-2"	9"



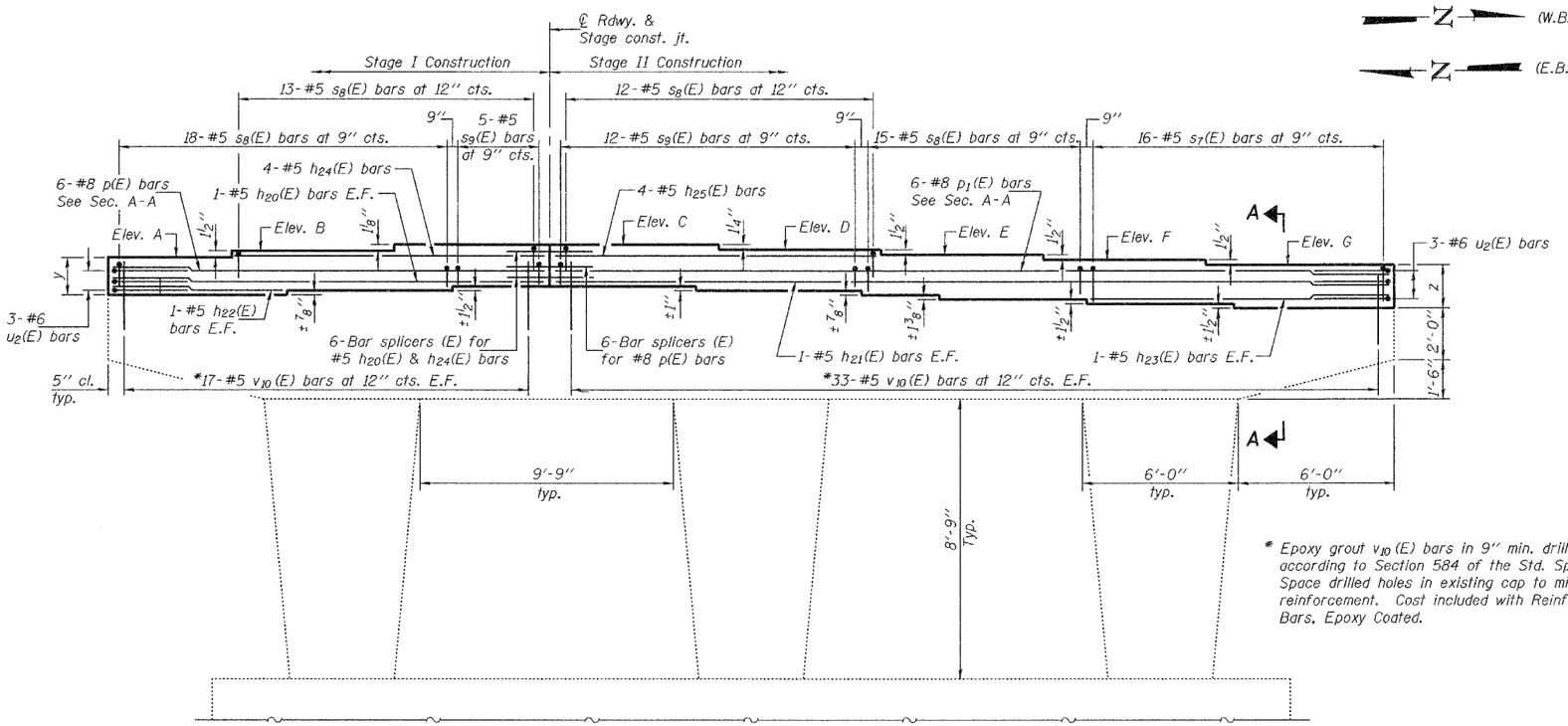
TOP PLAN



SECTION A-A



END VIEW



ELEVATION
(Pier 2 (W.B.) - Looking West)
(Pier 2 (E.B.) - Looking East)

* Epoxy grout $v_{10}(E)$ bars in 9" min. drilled holes according to Section 584 of the Std. Spec's. Space drilled holes in existing cap to miss existing reinforcement. Cost included with Reinforcement Bars, Epoxy Coated.

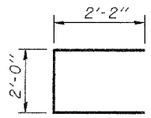
TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_{20}(E)$	4	#5	16'-8"	
$h_{21}(E)$	4	#5	32'-2"	
$h_{22}(E)$	4	#5	6'-5"	
$h_{23}(E)$	4	#5	11'-6"	
$h_{24}(E)$	8	#5	11'-11"	
$h_{25}(E)$	8	#5	12'-5"	
p(E)	12	#8	16'-8"	
$p_1(E)$	12	#8	32'-2"	
$s_7(E)$	32	#5	4'-4"	⊓
$s_8(E)$	116	#5	4'-0"	⊓
$s_9(E)$	34	#5	3'-8"	⊓
$u_2(E)$	12	#6	6'-4"	⊏
* $v_{10}(E)$	100	#5	1'-10"	
Concrete Structures			Cu. Yd.	15.2
Reinforcement Bars, Epoxy Coated			Pound	3110

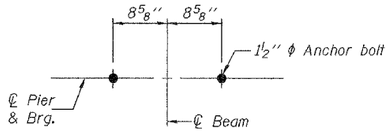
Notes: Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For bar splicer details see sheet 33 of 34.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



BAR $u_2(E)$



DETAIL A

TABLE OF PIER CAP END THICKNESS

Location	y	z
Pier 2 (W.B.)	1'-7½"	1'-8⅛"
Pier 2 (E.B.)	1'-7¾"	1'-8¼"

TABLE OF ELEVATIONS

Location	A	B	C	D	E	F	G
Pier 2 (W.B.)	750.35	750.46	750.55	750.46	750.34	750.21	750.08
Pier 2 (E.B.)	750.35	750.46	750.55	750.46	750.34	750.21	750.08

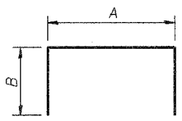
PIER 2 (W.B.) & (E.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	117
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 31
34 SHEETS

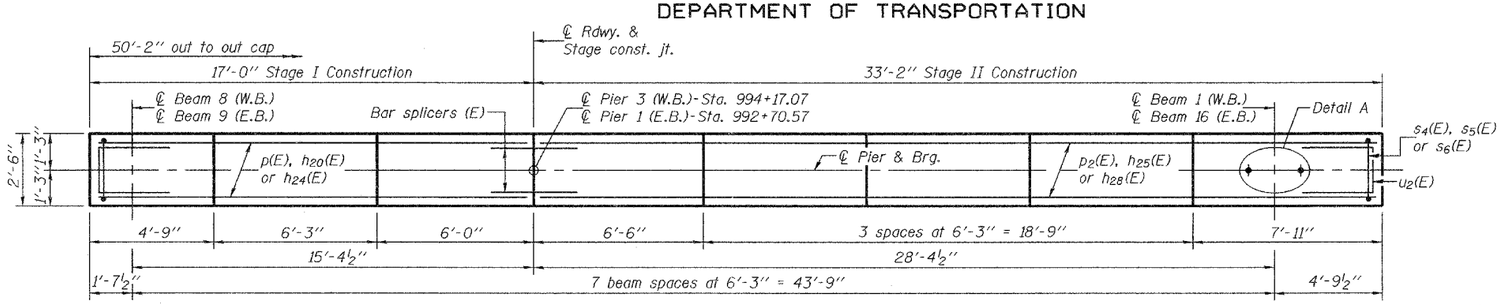
Contract No. 64292



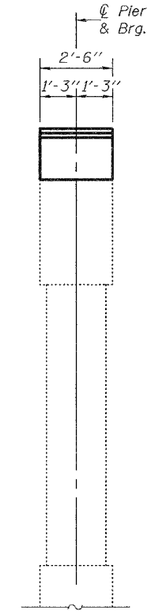
BARS $s_4(E)$, $s_5(E)$ & $s_6(E)$

A & B DIMENSIONS

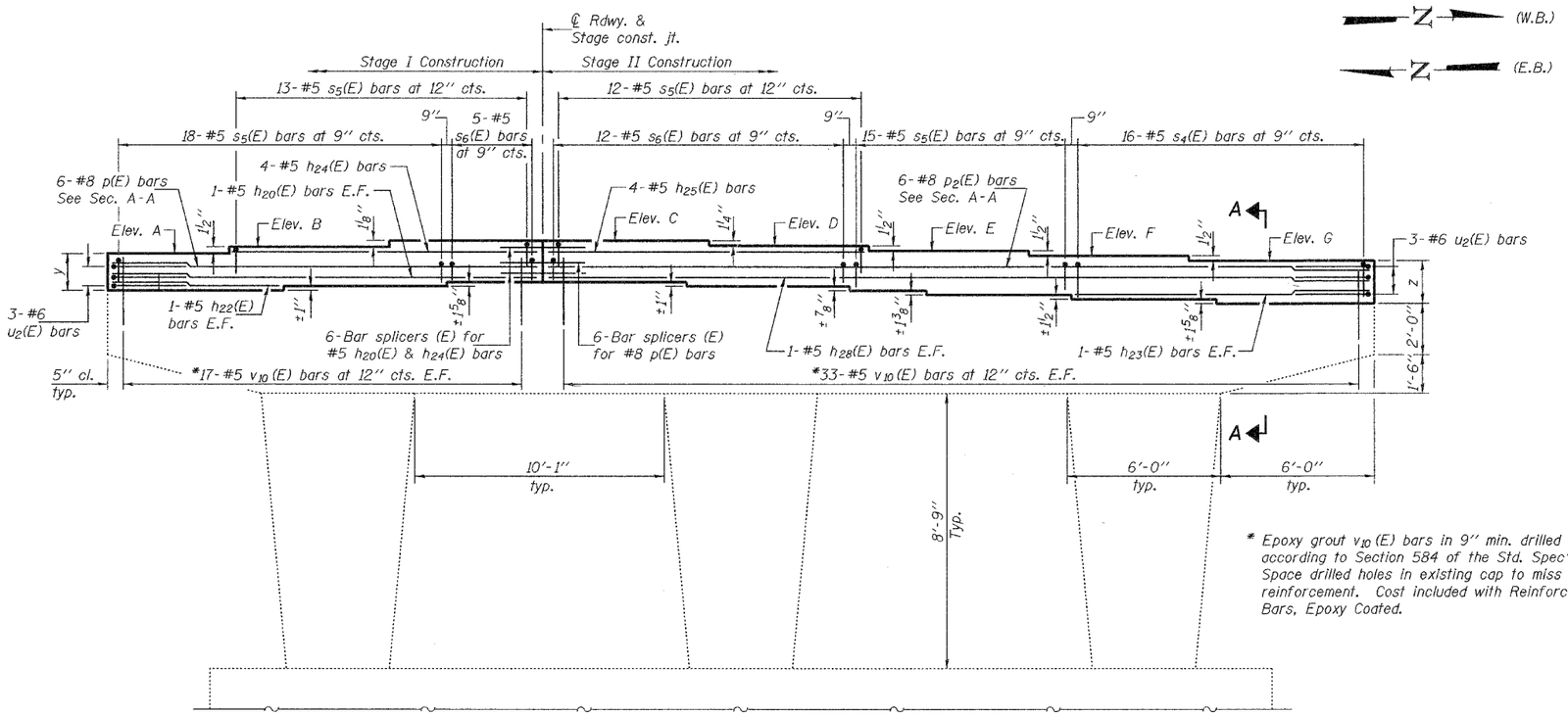
Bar	A	B
$s_4(E)$	2'-2"	1'-0"
$s_5(E)$	2'-2"	10"
$s_6(E)$	2'-2"	8"



TOP PLAN

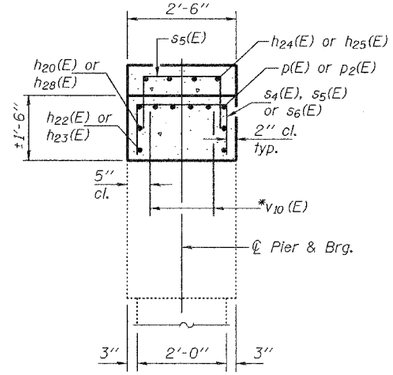


END VIEW



ELEVATION

(Pier 3 (W.B.) - Looking West)
(Pier 1 (E.B.) - Looking East)



SECTION A-A

TWO PIERS
BILL OF MATERIAL

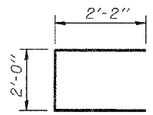
Bar	No.	Size	Length	Shape
$h_{20}(E)$	4	#5	16'-8"	——
$h_{22}(E)$	4	#5	6'-5"	——
$h_{23}(E)$	4	#5	11'-6"	——
$h_{24}(E)$	8	#5	11'-11"	——
$h_{25}(E)$	8	#5	12'-5"	——
$h_{28}(E)$	4	#5	32'-10"	——
$p(E)$	12	#8	16'-8"	——
$p_2(E)$	12	#8	32'-10"	——
$s_4(E)$	34	#5	4'-2"	⊓
$s_5(E)$	116	#5	3'-10"	⊓
$s_6(E)$	34	#5	3'-6"	⊓
$u_2(E)$	12	#6	6'-4"	⊏
* $v_{10}(E)$	100	#5	1'-10"	——
Concrete Structures			Cu. Yd.	14.0
Reinforcement Bars, Epoxy Coated			Pound	3110

* Epoxy grout $v_{10}(E)$ bars in 9" min. drilled holes according to Section 584 of the Std. Spec's. Space drilled holes in existing cap to miss existing reinforcement. Cost included with Reinforcement Bars, Epoxy Coated.

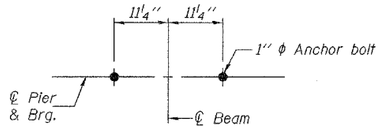
Notes: Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For bar splicer details see sheet 33 of 34.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



BAR $u_2(E)$



DETAIL A

TABLE OF PIER CAP END THICKNESS

Location	y	z
Pier 3 (W.B.)	1'-6"	1'-6 7/8"
Pier 1 (E.B.)	1'-5 1/8"	1'-6 3/8"

TABLE OF ELEVATIONS

Location	A	B	C	D	E	F	G
Pier 3 (W.B.)	751.16	751.28	751.37	751.27	751.15	751.02	750.89
Pier 1 (E.B.)	749.24	749.36	749.45	749.35	749.23	749.10	748.97

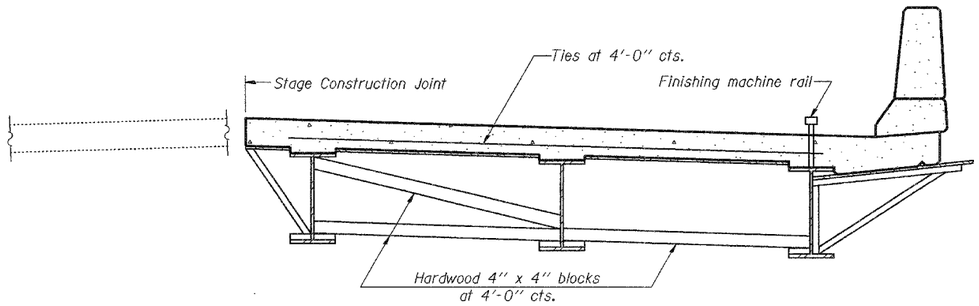
PIER 3 (W.B.)
PIER 1 (E.B.)
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

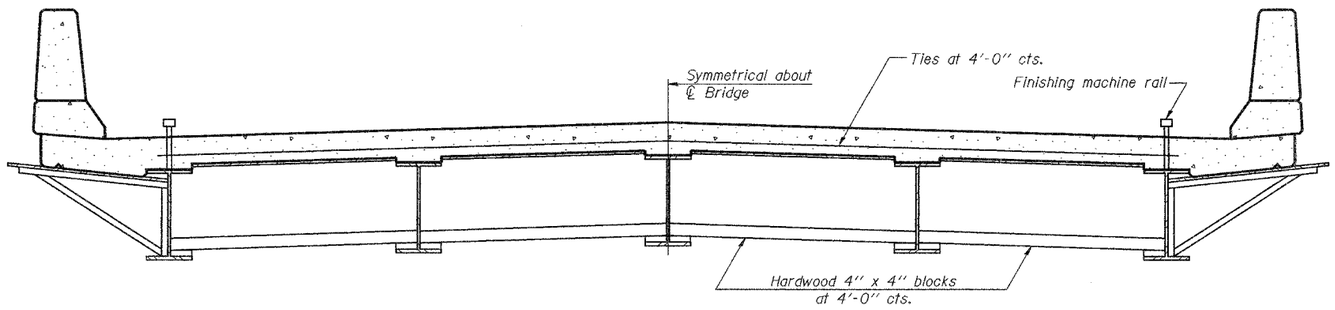
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	118
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 32
34 SHEETS

Contract No. 64292



FORM BRACES FOR
STAGE CONSTRUCTION



FORM BRACES FOR
STANDARD 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.

If the design of the cantilever forming brackets requires that brackets be used beyond these requirements, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SB-1 11-1-06

CANTILEVER FORMING BRACKETS
FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

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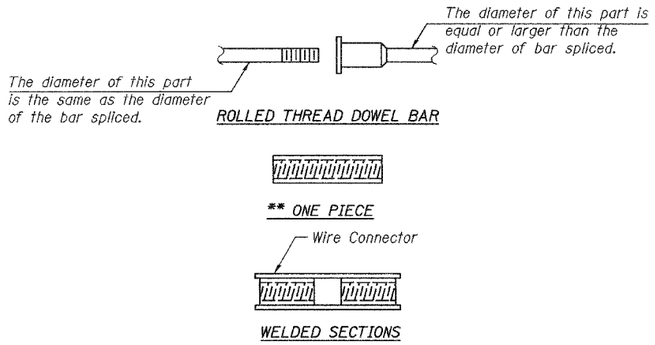
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	119
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

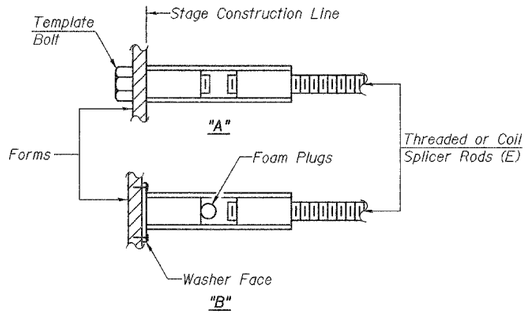
SHEET NO. 33
34 SHEETS

Contract No. 64292



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.

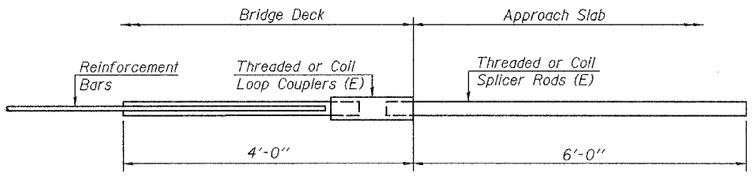
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

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

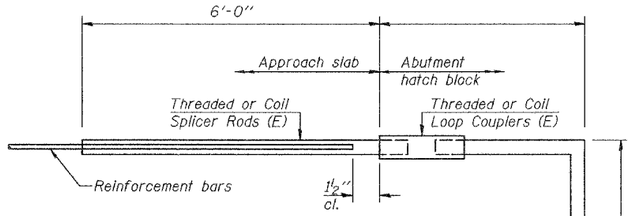
Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

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



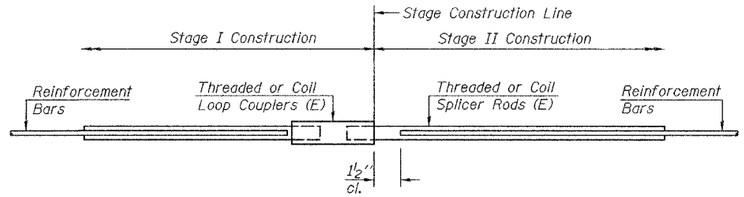
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 188



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	1418	Deck
#6	44	Abut., Conc., Diaph.
#5	20	Abut. Cap
#5	12	Pier 1
#8	12	Pier 1
#5	12	Pier 2
#8	12	Pier 2
#5	12	Pier 3
#8	12	Pier 3

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

EXAMINED Thomas J. Domagalski Apr. 25, 2008
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 11-1-06

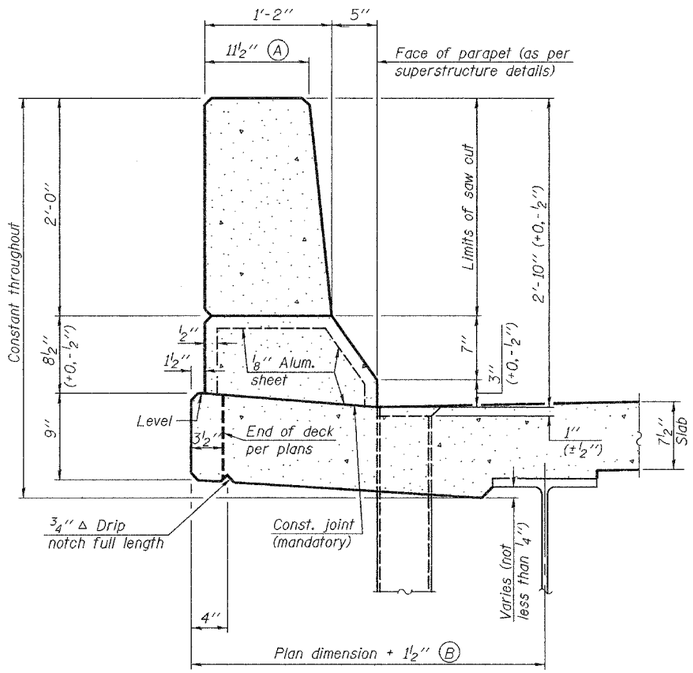
BAR SPLICER ASSEMBLY DETAILS
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

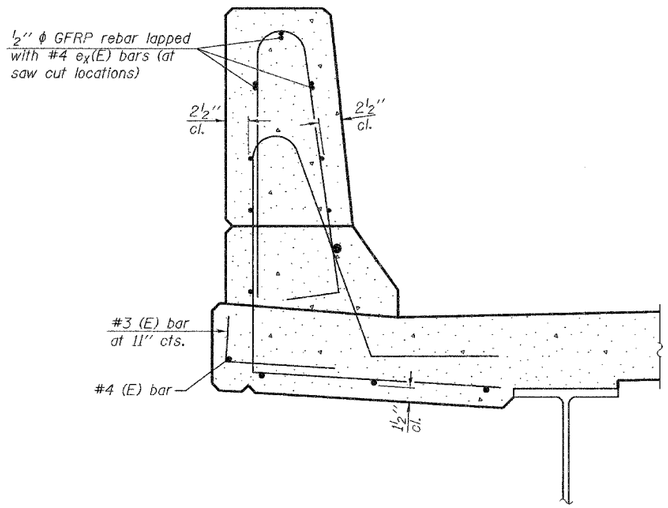
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301	3HBR-2	WINNEBAGO	171	120
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 34
34 SHEETS

Contract No. 64292



SECTION
(Showing dimensions)

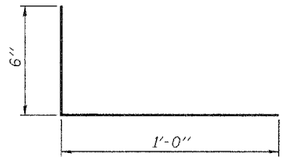


SECTION
(Showing reinforcement clearances for slipforming and additional reinforcement bars)

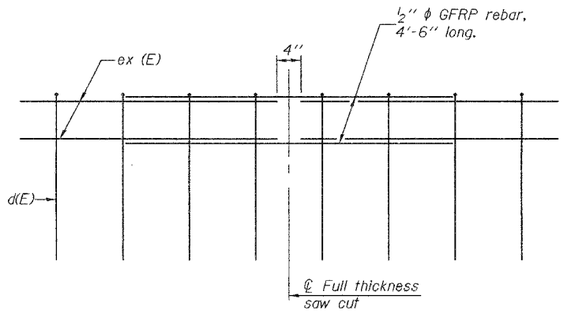
GENERAL NOTES

All dimensions shall remain the same as shown on contract plans, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B= 0.0165 cu. yds./ft. of parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

DESIGNED	Stephen M. Ryan
CHECKED	Fess Teklehaimanot
DRAWN	h.t. duong
CHECKED	SMR/FT

Apr. 25, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

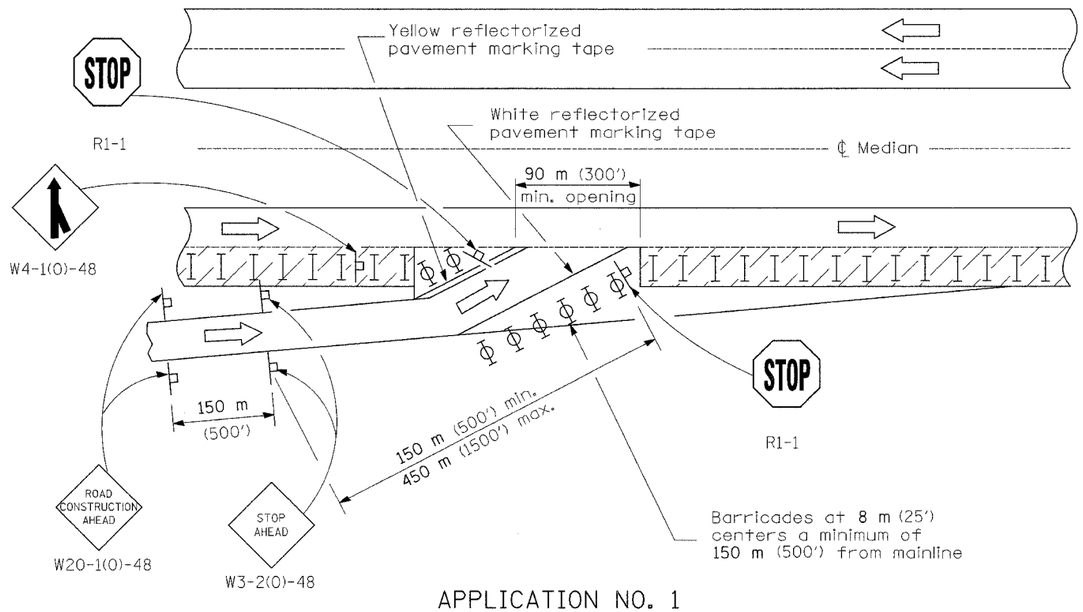
CONCRETE PARAPET
SLIPFORMING OPTION
F.A.P. RTE. 301 - SEC. 3HBR-2
WINNEBAGO COUNTY
STATION 993+43.82
STRUCTURE NO. 101-0065 (E.B.)
STRUCTURE NO. 101-0066 (W.B.)

...\projects\rte000025\101006b5.dgn 04/25/2008 11:53:03 AM

CONTRACT NO. 64292

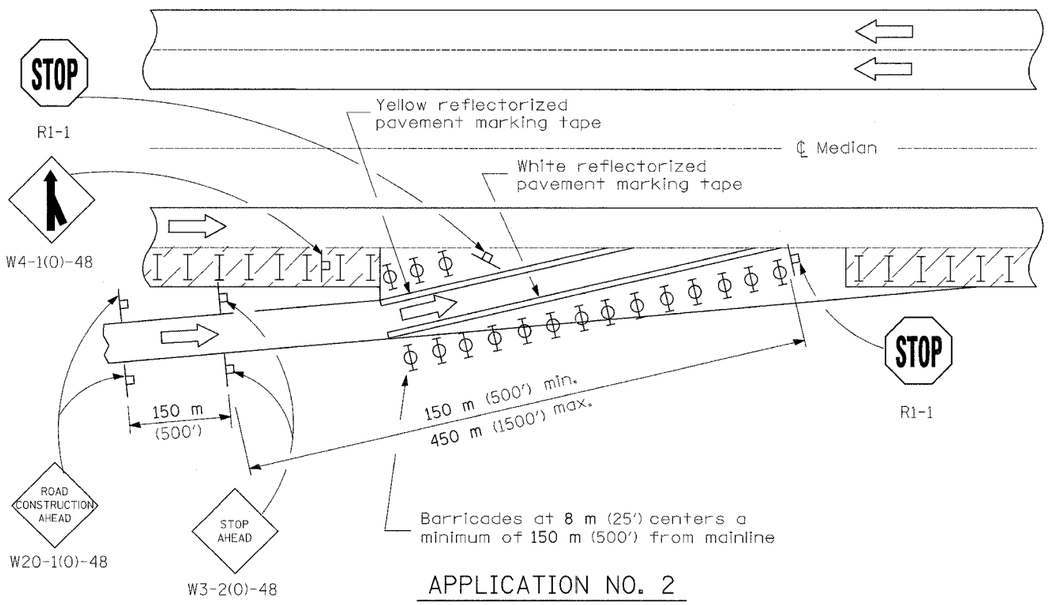
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	121
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

701411 SPECIAL



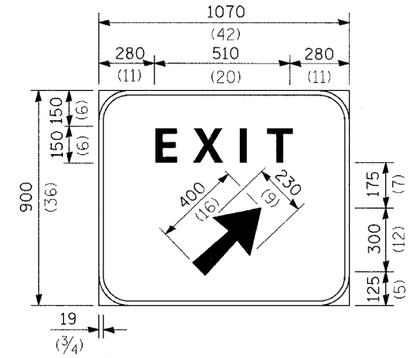
APPLICATION NO. 1

Application No. 1 depicts a modified entrance ramp. This method shall be utilized whenever existing entrance tapers cannot be retained due to the close proximity of the work zone. The entrance location may be shifted, with the approval of the Engineer, to perform work in the entrance area. Application No. 2 shall be put into effect as soon as possible.



APPLICATION NO. 2

Application No. 2 depicts a shortening of the normal entrance ramp. This method shall be used whenever the existing geometrics can not be retained. Consideration should be given to the entering motorists' line of sight, through, between, or over the delineation devices.



Background - Green
Border and legend - White
"D" size letters

EXIT SIGN - SPECIAL

DETAIL A

(To be utilized where distance between the two rows of channelizing devices is 1.8 m (6') in width.)

SYMBOLS

- Work area
- Sign
- Type II barricades or drums with steady burning monodirectional light
- Type II barricades or drums
- Drums with steady burning monodirectional light

GENERAL NOTES

This Standard is used where, at any time any vehicle, equipment, workers or their activities require a lane closure in close proximity of an exit or entrance ramp and supplements other traffic control Standards for lane closures.

These applications also apply when work is being performed in the left lanes and the ramps enter and exit on the left. Under these conditions, the Exit sign arrow and the Side road symbol sign shall be changed.

Cones may be utilized during daylight operations, at one half the spacing of drums/barricades.

All dimensions are in millimeters (inches) unless otherwise shown.

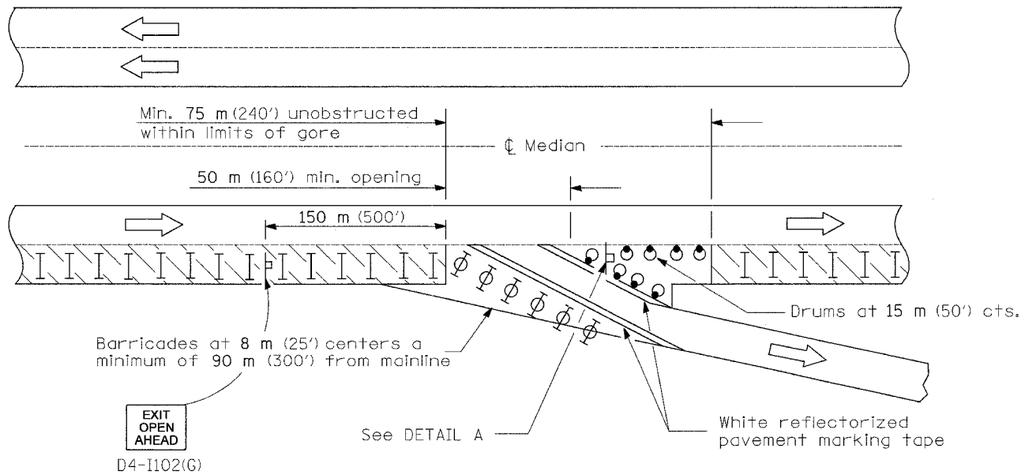
LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH

(Sheet 1 of 2)

CONTRACT NO. 64292

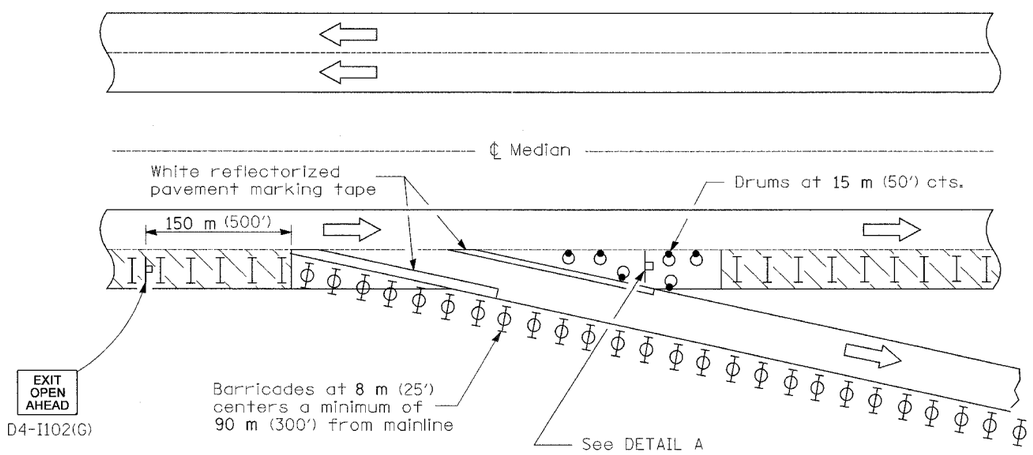
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	122
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

701411 SPECIAL



APPLICATION NO. 3

Application No. 3 depicts a modified exit ramp. The channelizing devices shall provide a clearly defined path for the exiting motorists. The minimum dimensions shown shall be increased as soon as the progress of the work will permit. The open portion of the ramp may be shifted, with the approval of the Engineer, to perform work in stages on the area adjacent to the ramp exit. Application No. 4 shall be put into effect as soon as possible.



APPLICATION NO. 4

Application No. 4 depicts an extension of the normal exit ramp. This method shall be used whenever existing geometrics can be retained. Consideration should be given to the exiting motorist's line of sight through, between or over the delineation devices.

All dimensions are in millimeters (inches) unless otherwise shown.

LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH

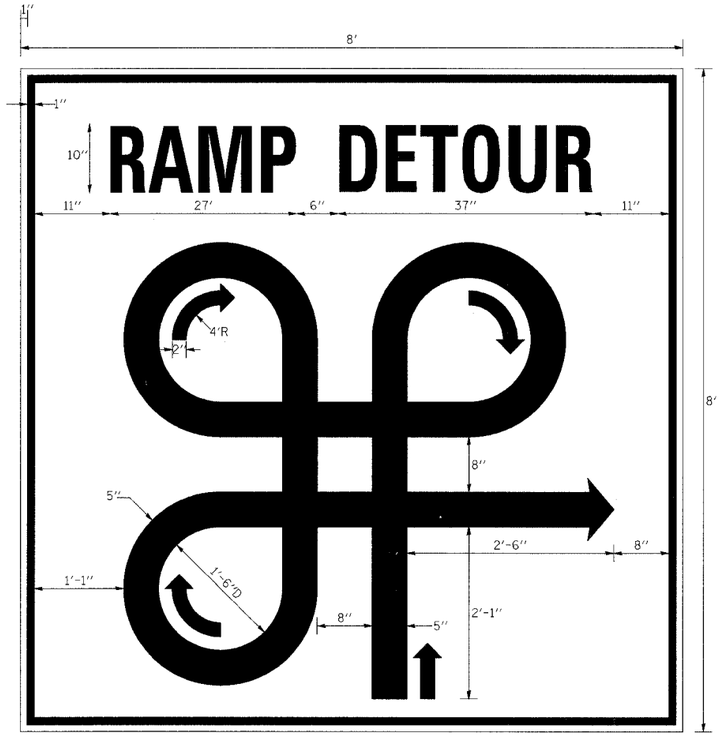
(Sheet 2 of 2)

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	123
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

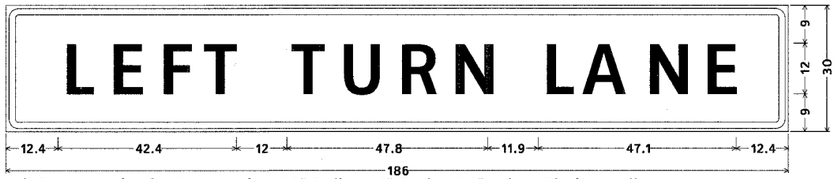
SPECIAL SIGN DETAILS

SPECIAL SIGN (AA)



10″ GOTHIC C FONT LETTERS
ORANGE - BACKGROUND
BLACK - LETTERS AND SYMBOLS

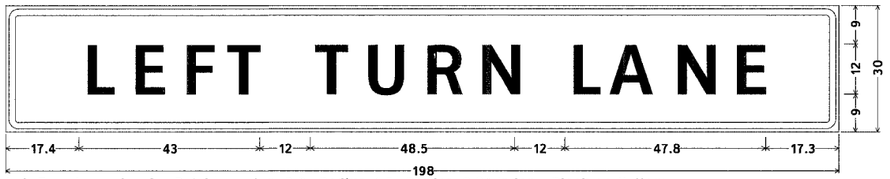
SPECIAL SIGN (BB)



Left Turn Lane sign for Freeport sign; 3.0" Radius, 1.5" Border, 0.8" Indent, Black on Yellow;
[LEFT TURN LANE] E Mod 2K 120} spacing;
Table of letter and object lefts.

L	E	F	T	T	U	R	N	L	A	N	E
12.4	23.6	35.5	46.0	66.9	78.3	92.0	104.8	126.5	136.3	151.0	164.8

SPECIAL SIGN (CC)



Left Turn Lane sign for Belvidere sign; 3.0" Radius, 1.5" Border, 0.8" Indent, Black on Yellow;
[LEFT TURN LANE] E Mod 2K 130} spacing;
Table of letter and object lefts.

L	E	F	T	T	U	R	N	L	A	N	E
17.4	28.8	40.9	51.5	72.4	84.1	98.1	111.1	132.9	142.8	157.6	171.8

NOTE: SEE SPECIAL PROVISIONS FOR MOUNTING DETAILS

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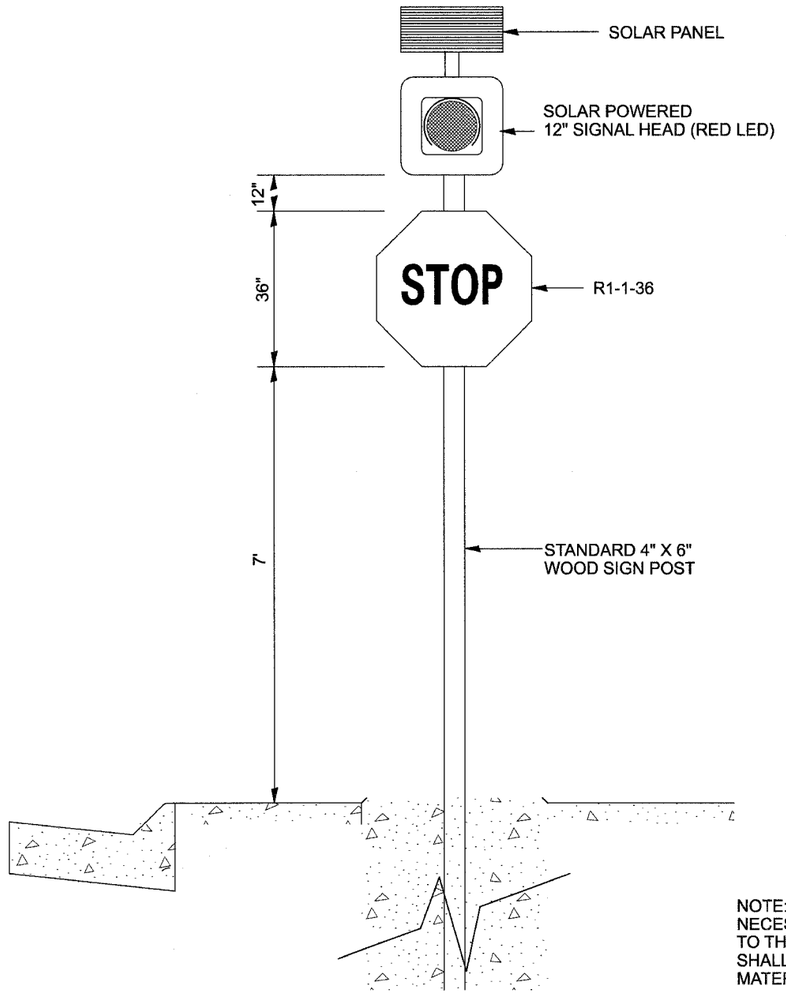
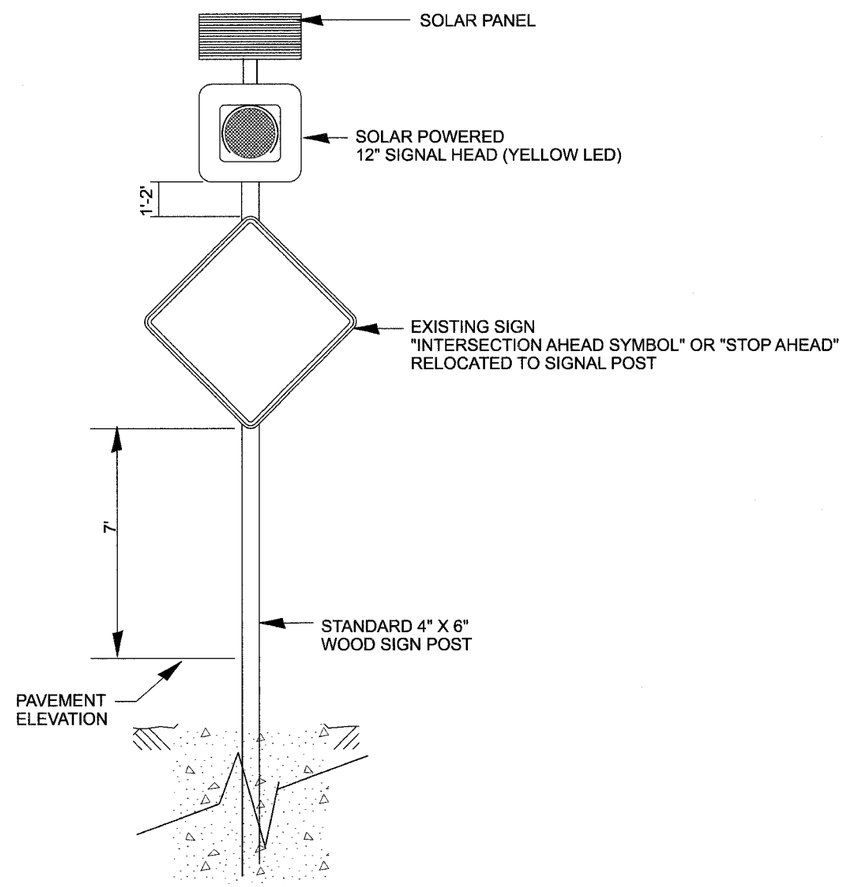
USER NAME = dossdd

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	124
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SOLAR POWER FLASHER DETAIL





SEE STANDARD 880001

NOTE: THE CONTRACTOR SHALL SUPPLY ALL NECESSARY HARDWARE TO MOUNT THE SIGNS TO THE POST. THIS MOUNTING HARDWARE SHALL BE SIMILAR TO THE SIGN FIX BRAND MATERIAL.

PLOT DATE = Fri Mar 14 09:31:49 2008
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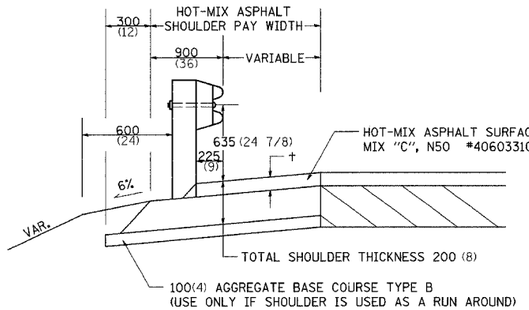
REFERENCE = REF

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	125
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET **525** (21) FROM THE FINISHED SURFACE.

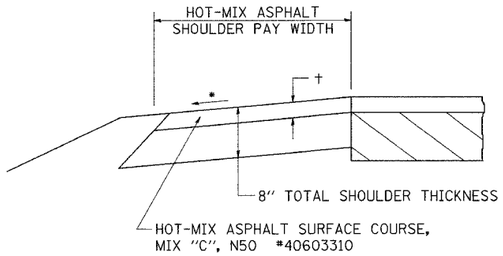
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL **23.4**

REVISED 10-06-06

HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

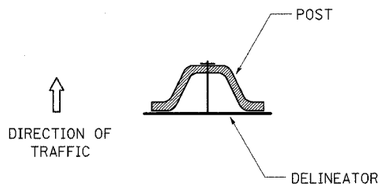
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

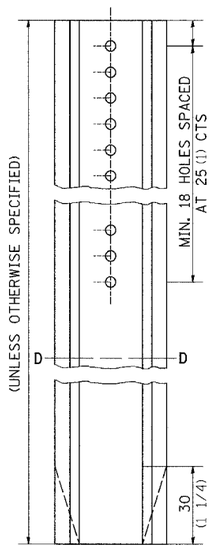
HOT-MIX ASPHALT SHOULDER **23.4a**

REVISED 10-06-06

DELINEATOR AND POST ORIENTATION



SECTION D-D



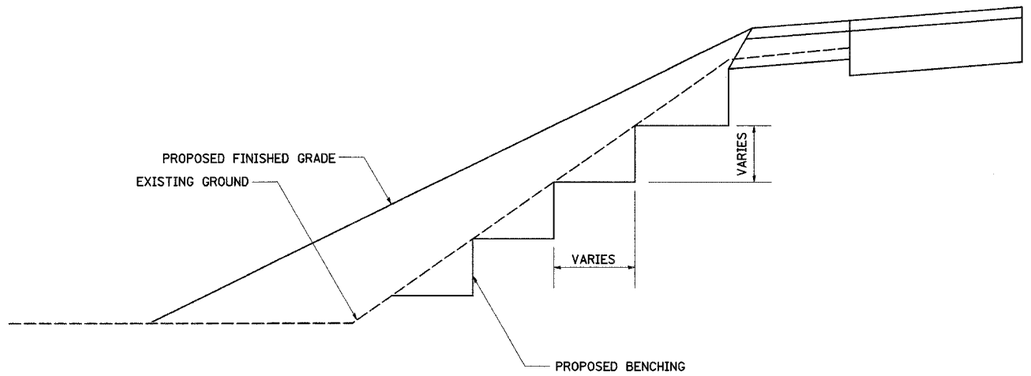
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

DELINEATOR AND POST ORIENTATION **37.4**

REVISED 1-31-00

TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT **50.4**

REVISED 2-22-06

LETTERING FOR NAME PLATE

STATION 993+43.82 BUILT 2009 BY STATE OF ILLINOIS FAP RTE. 301 SEC. 3HBR-2 FA PROJECT LOADING HS 20 STR. NO. 101-0065	STATION 993+43.82 BUILT 2009 BY STATE OF ILLINOIS FAP RTE. 301 SEC. 3HBR-2 FA PROJECT LOADING HS 20 STR. NO. 101-0066

SEE STD. 515001

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

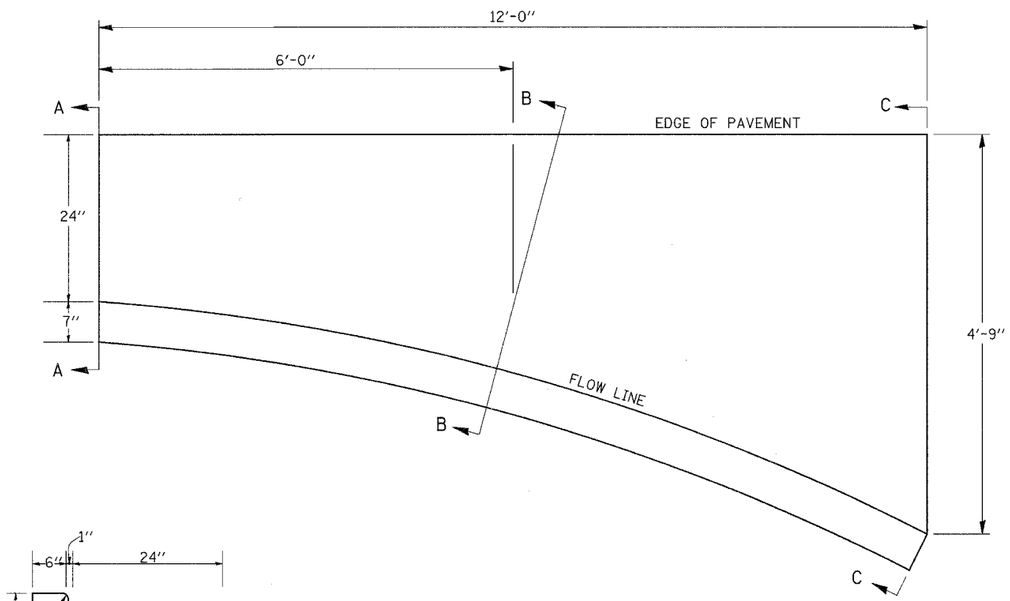
LETTERING FOR NAME PLATE **89.4**

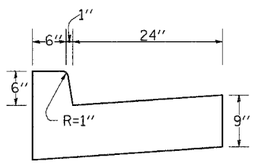
REVISED 10-15-04

CONTRACT NO. 64292

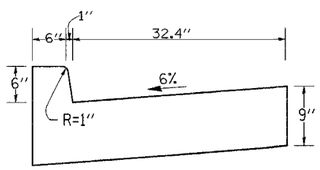
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	126
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STANDARD INLET FOR CURB & GUTTER TYPE B-6.24

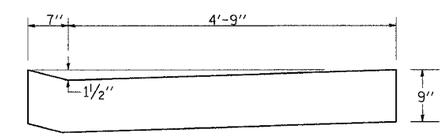




SECTION A-A



SECTION B-B



SECTION C-C

NOTES

Class SI Concrete shall be used throughout.

The Curb and Gutter Inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

Joints shall be constructed in accordance with the requirementsof Article 606.07 of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

- QUANTITY -

Section A-A to C-C
(1.23 Cu. Yds.)
Class SI Concrete

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PLOT SCALE = 100.0000 '/ IN.
REFERENCE = REF

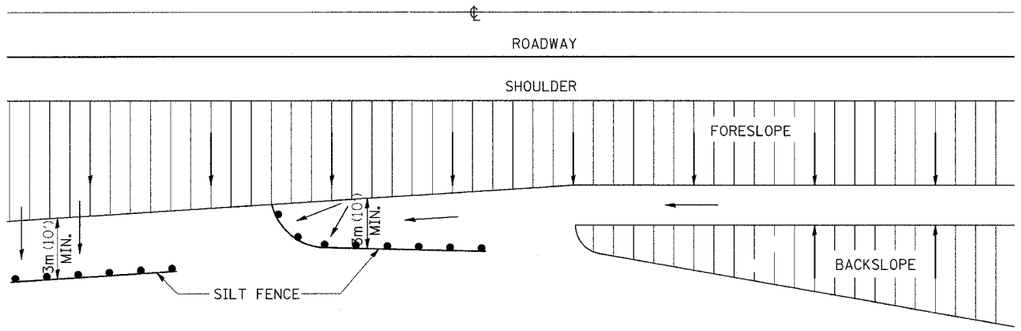
STANDARD INLET FOR CURB & GUTTER TYPE B-6.24 **21.2**

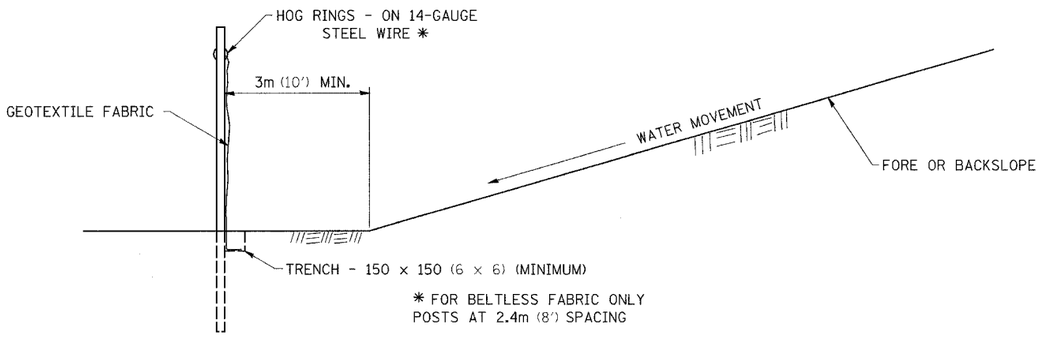
REVISED 10-10-06

CONTRACT NO. 64292

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	127
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL DETAILS FOR SILT FENCE





DETAILS OF SILT FENCE

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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FILE NAME = c:\projects\pc832598\d832598pl.dgn
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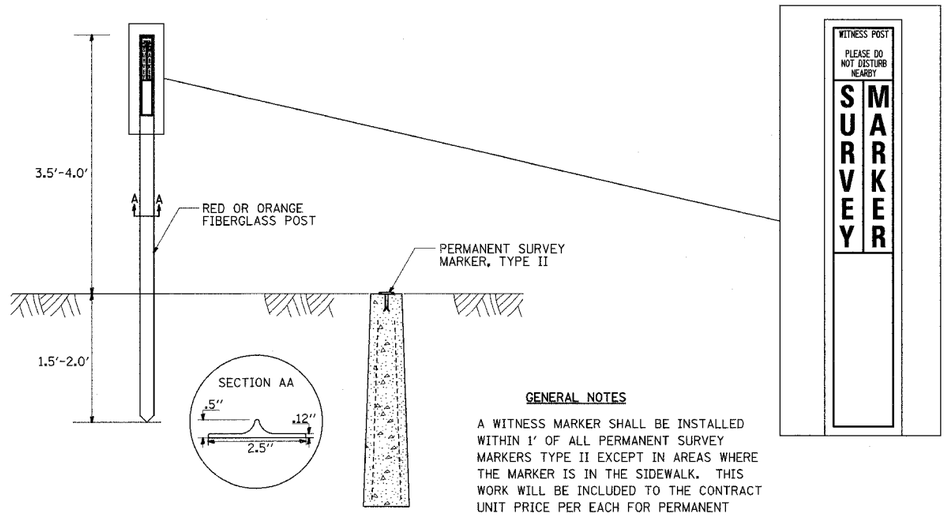
REFERENCE = REF

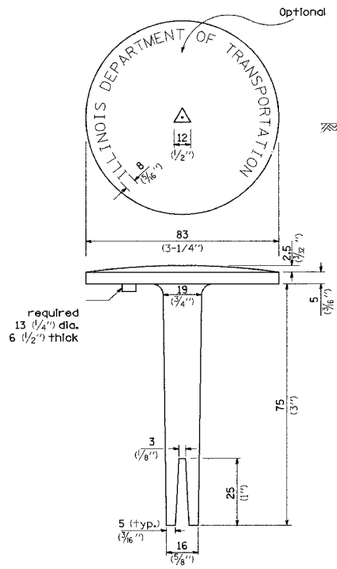
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



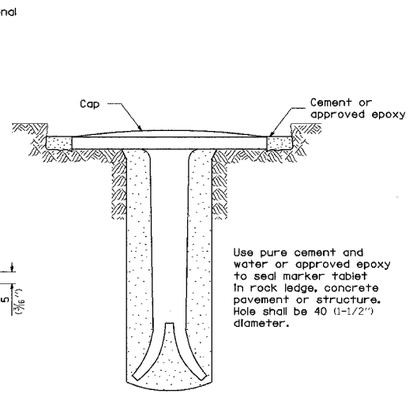
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

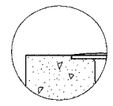
PERMANENT SURVEY MARKERS, TYPE II



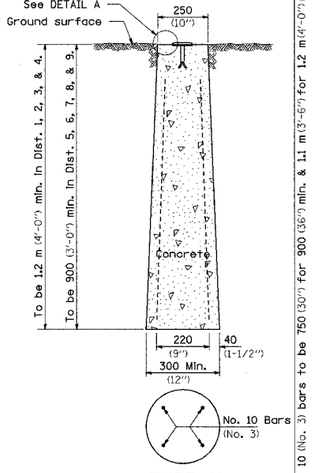
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A

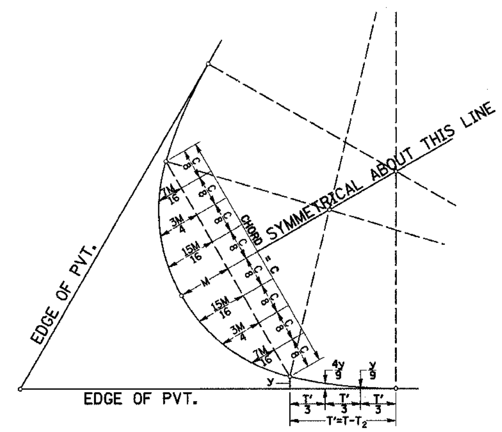


TYPE II

CAST-IN-PLACE MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

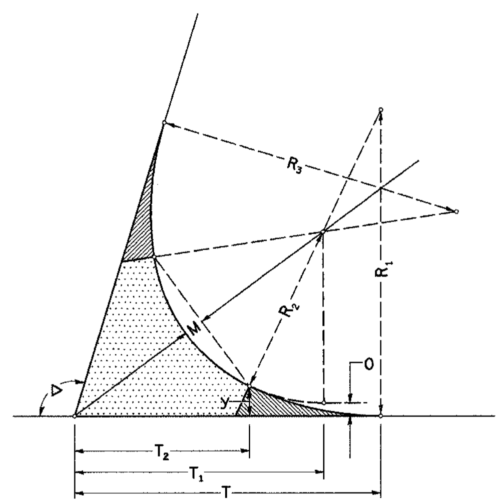
THREE CENTER CURVE DATA



FIELD LAYOUT METHOD

SYMMETRICAL CURVES

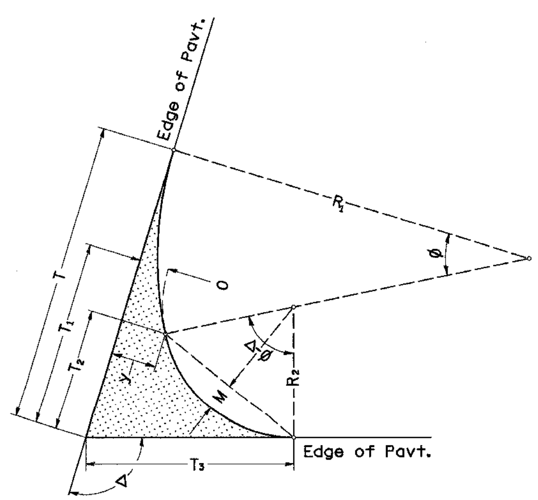
CURVE #							
R_1							
R_2							
R_3							
O							
Δ							
T							
T_1							
T_2							
T'							
y							
$\frac{4y}{9}$							
$\frac{y}{9}$							
M							
$\frac{15M}{16}$							
$\frac{3M}{4}$							
$\frac{7M}{16}$							
C							



FOR SYMMETRICAL CURVES

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

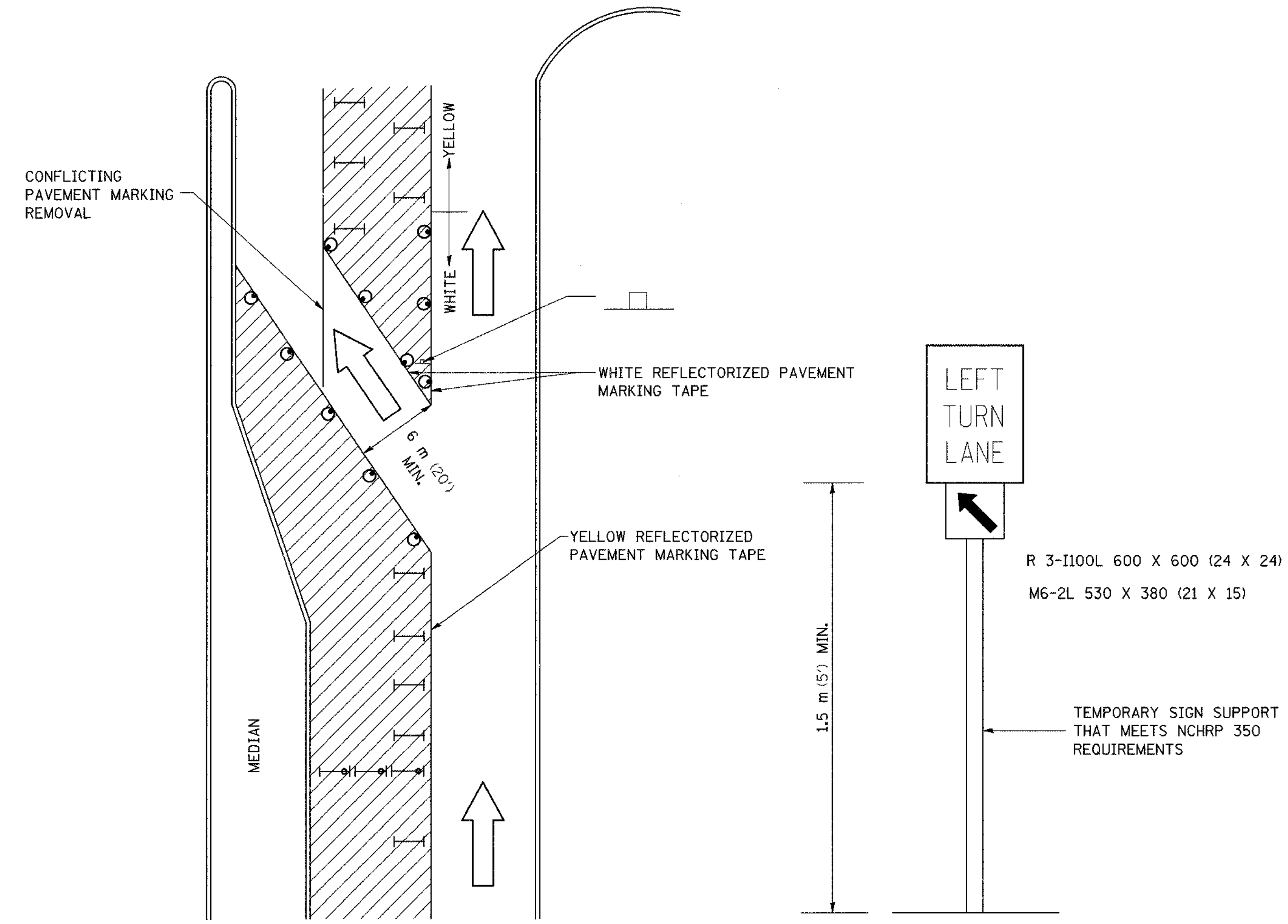
TWO CENTER CURVE DATA



TWO CENTER CURVES

CURVE #	1	2	3				
R_1	360	325	325				
R_2	60	220.17	220.17				
O	16	16	16				
Δ	61.19	69.85	63.31				
T	123.34	203.53	183.36				
T_1	26.68	147.86	127.70				
T_2	7.34	30.95	10.79				
T_3	53.74	170.78	153.65				
y	19.20	49.60	49.60				
$\frac{4y}{9}$	8.53	22.05	22.05				
$\frac{y}{9}$	2.13	5.51	5.51				
M	4.06	11.86	8.13				
$\frac{15M}{16}$	3.81	11.12	7.62				
$\frac{3M}{4}$	3.04	8.89	6.10				
$\frac{7M}{16}$	1.78	5.19	3.56				
C	43.39	142.55	118.55				

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT

DRUM OR BARRICADE WITH STEADY BURN LIGHT

SIGN (SEE DETAIL)

TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 X 24) AND M6-2R 530 X 380 (21 X 15) SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

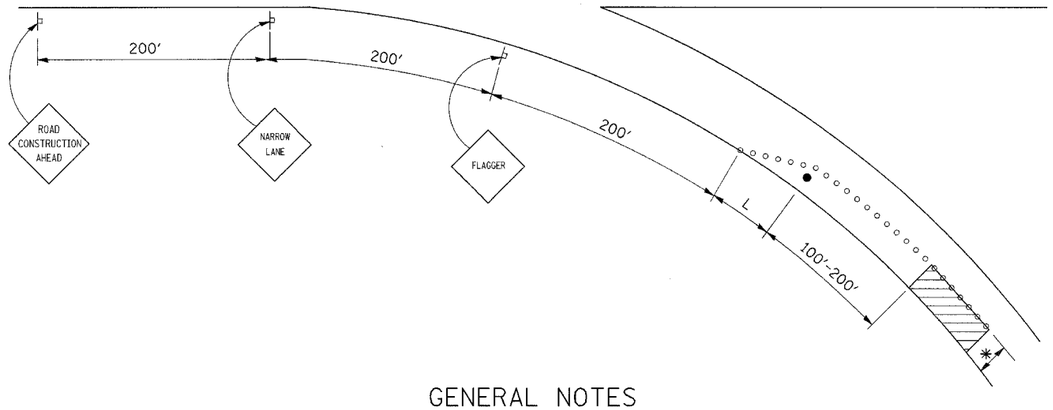
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

CONTRACT NO. 64292

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	129
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL AND PROTECTION FOR RAMPS



GENERAL NOTES

CONES AT 8 m (25')CENTERS FOR 105 m (350'). ADDITIONAL CONES MAY BE PLACED AT 15 m (50') CENTERS. WHEN DRUMS OR BARRICADES ARE USED. THE INTERVAL DEVICES MAY BE DOUBLED.

* WIDTH OF CLOSURE SHOWN ON RAMP PATCHING SCHEDULE OR AS DIRECTED BY ENGINEER.

L= CLOSURE WIDTH*TAPER RATIO IS SPEED LIMIT/1 (POSTED OR ADVISORY)

ANY VISIBLE REPAIRS REQUIRED ON THE SHOULDER BECAUSE OF TRAFFIC SHALL BE PROVIDED AT THE CONTRACTORS EXPENSE. THE ENGINEER SHALL BE THE SOLE JUDGE FOR ANY SHOULDER REPAIRS.

THE RAMP SHALL BE COMPLETELY OPEN TO TRAFFIC BY NIGHTFALL.

TRAFFIC CONTROL AND PROTECTION FOR RAMPS SHALL BE INCLUDED IN THE COST OF STANDARD 701406 OR 701401

SYMBOLS

- WORK AREA
- SIGN
- BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- FLAGGER WITH TRAFFIC CONTROL SIGN

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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REFERENCE = REF

TRAFFIC CONTROL AND PROTECTION FOR RAMPS 95.2

REVISED 10-15-04

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	130
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN
EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION
DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF BRIDGE SUPERSTRUCTURE AN DECK REPLACEMENT ON US BYPASS 20 OVER IL 251 IN ROCKFORD.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:
THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 57 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 0 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 4.25 ACRES

SUPPORTING REPORTS AND PLANS
THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

KISHWAUKEE RIVER

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES
STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

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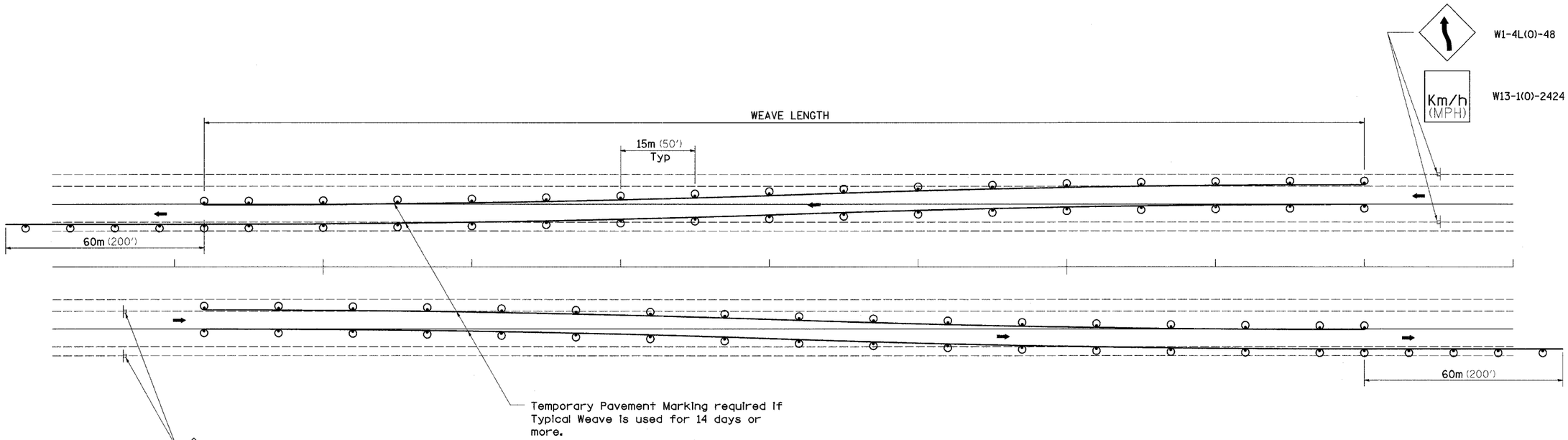
CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	131
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL TYPICAL WEAVE



LEGEND

- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHTS
- SIGN ON PERMANENT MOUNT

STANDARD WEAVE CONDITIONS FOR DIFFERENT SPEED LIMITS

POSTED SPEED LIMIT	ADVISORY SPEED LIMIT	WEAVE LENGTH
110 Km/h (65 MPH)	80 Km/h (45 MPH)	240m (780 FT.)
90 Km/h (55 MPH)	60 Km/h (35 MPH)	200m (660 FT.)
80 Km/h (45 MPH)	40 Km/h (25 MPH)	165m (540 FT.)

DESIGNER NOTE:

1. USE ON LONG 4-LANE PROJECTS WHERE THE CONTRACTOR MAY CHANGE A PORTION OF THE WORK TO THE OPPOSITE LANE.
2. USE WHERE THE PROJECT IS ADJACENT TO ANOTHER AND THE CONTRACTOR COULD BE WORKING ON DIFFERENT LANES.
3. TEMPORARY PAVEMENT MARKING SHALL BE USED WHEN TYPICAL WEAVE IS USED FOR 14 DAYS OR MORE.
4. TRAFFIC CONTROL TYPICAL WEAVE SHALL BE INCLUDED IN THE COST OF THE SPECIFIC TRAFFIC CONTROL STANDARDS OF ITEMS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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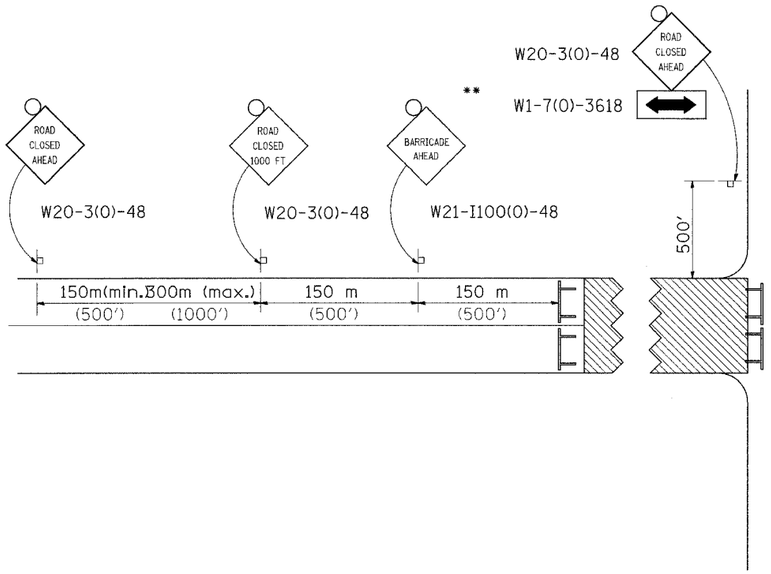
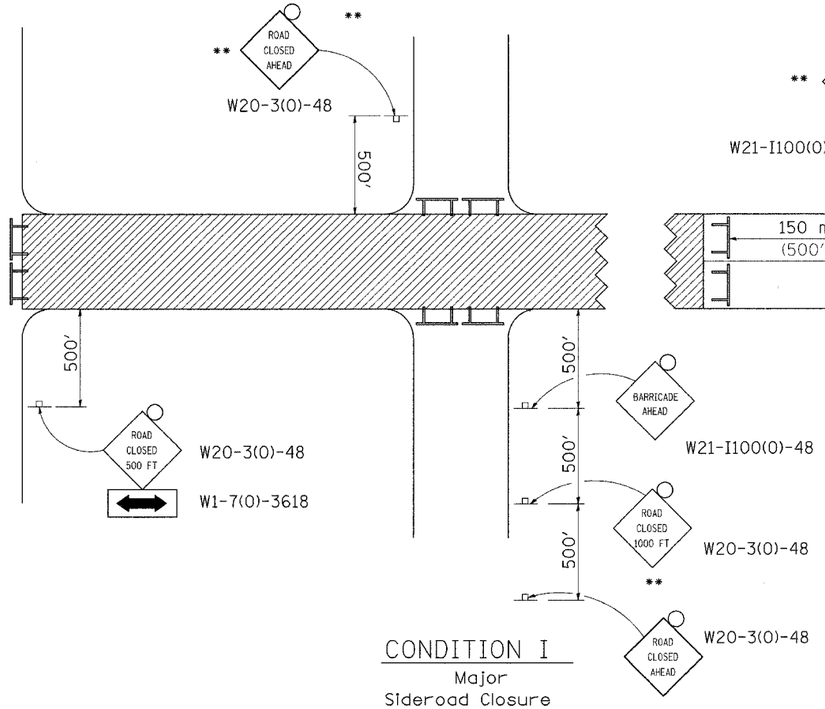
REVISED 5-30-91

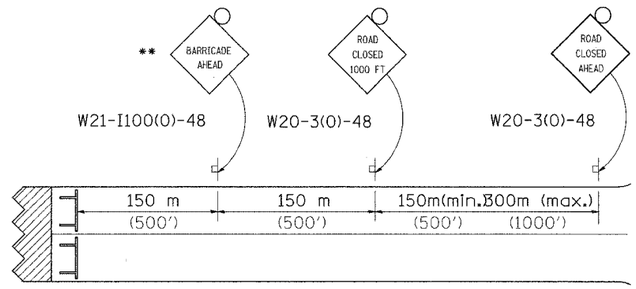
CONTRACT NO. 64292

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	132
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE







GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

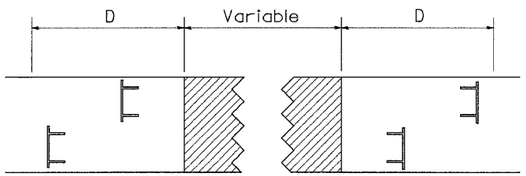
When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic.

Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS

Work area

Type III Barricade with Flashers

Sign with flashing light

All dimensions are in millimeters (inches) unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

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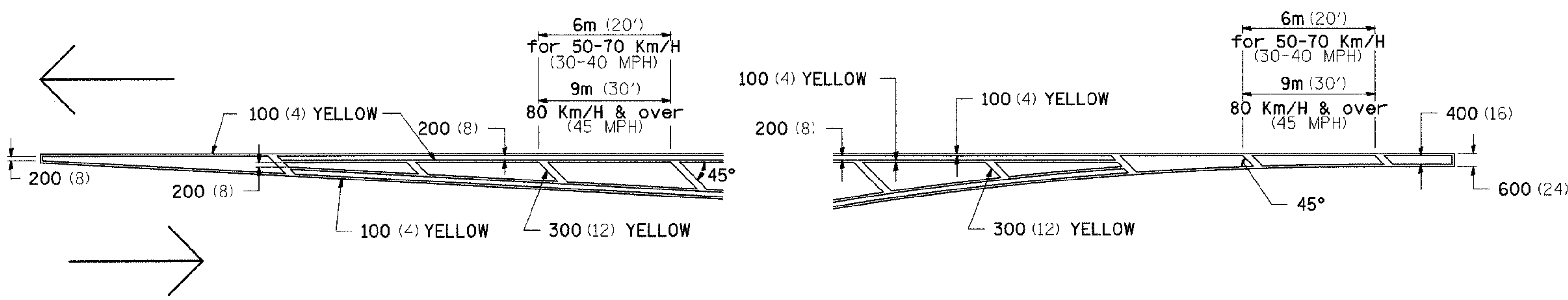
CONTRACT NO. 64292

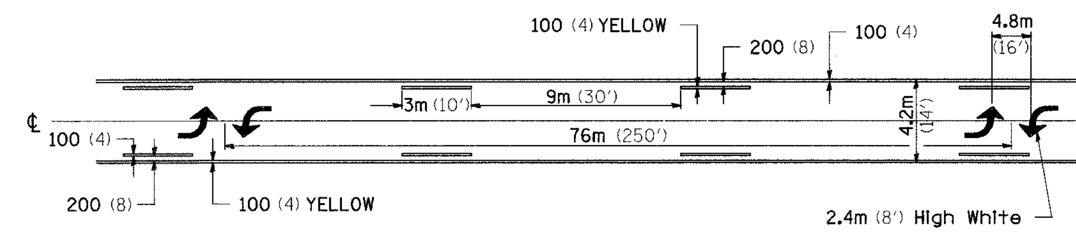
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	133
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

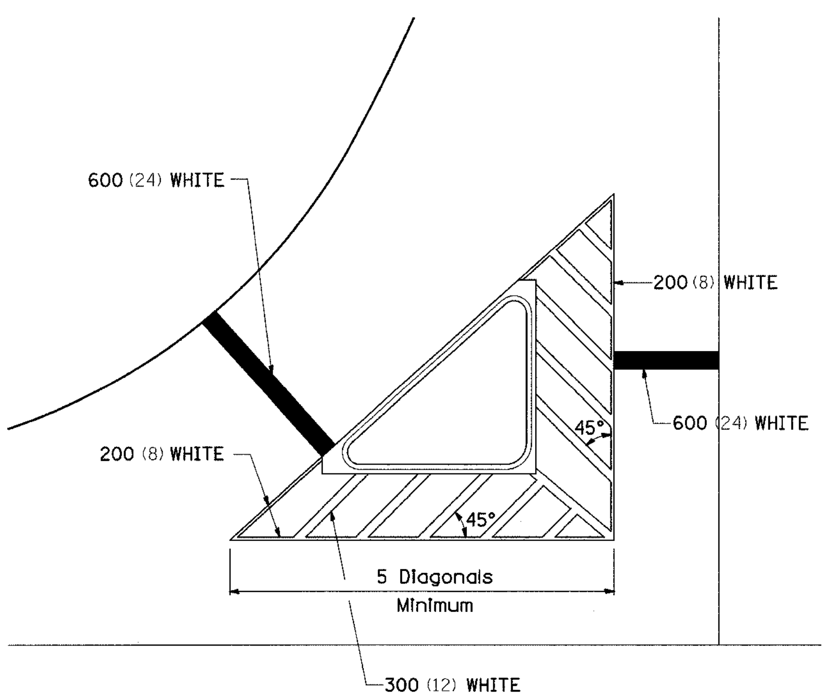
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



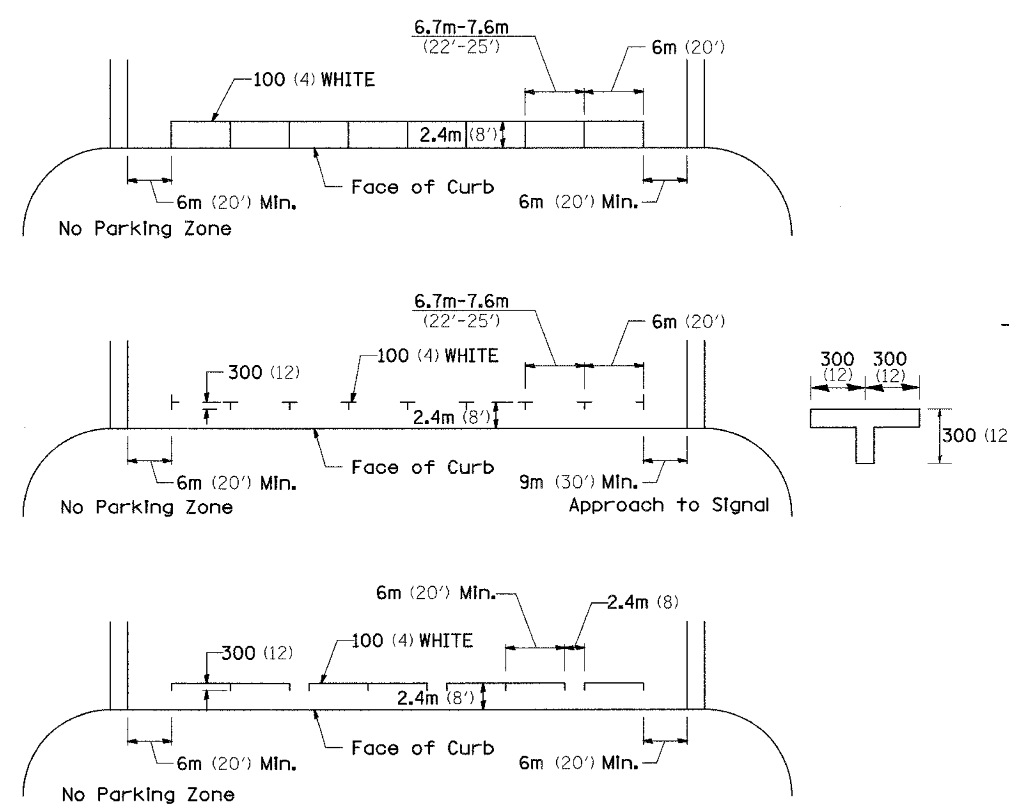
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



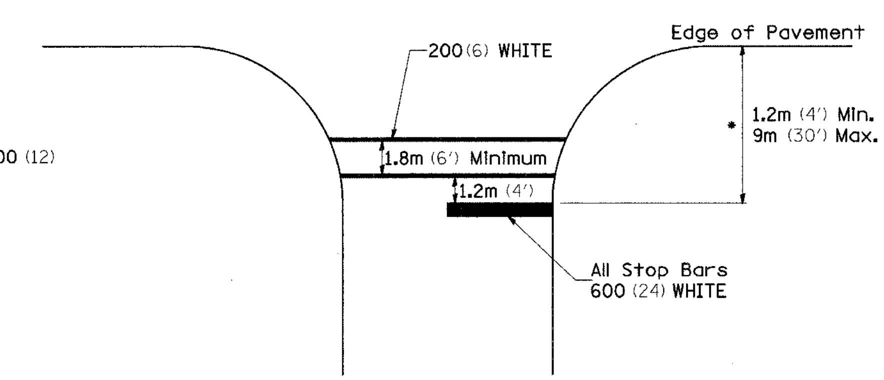
TYPICAL PARKING SPACING



•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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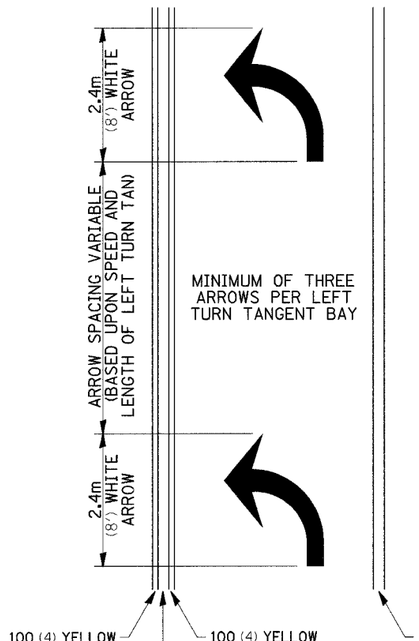
REVISED 7-20-06

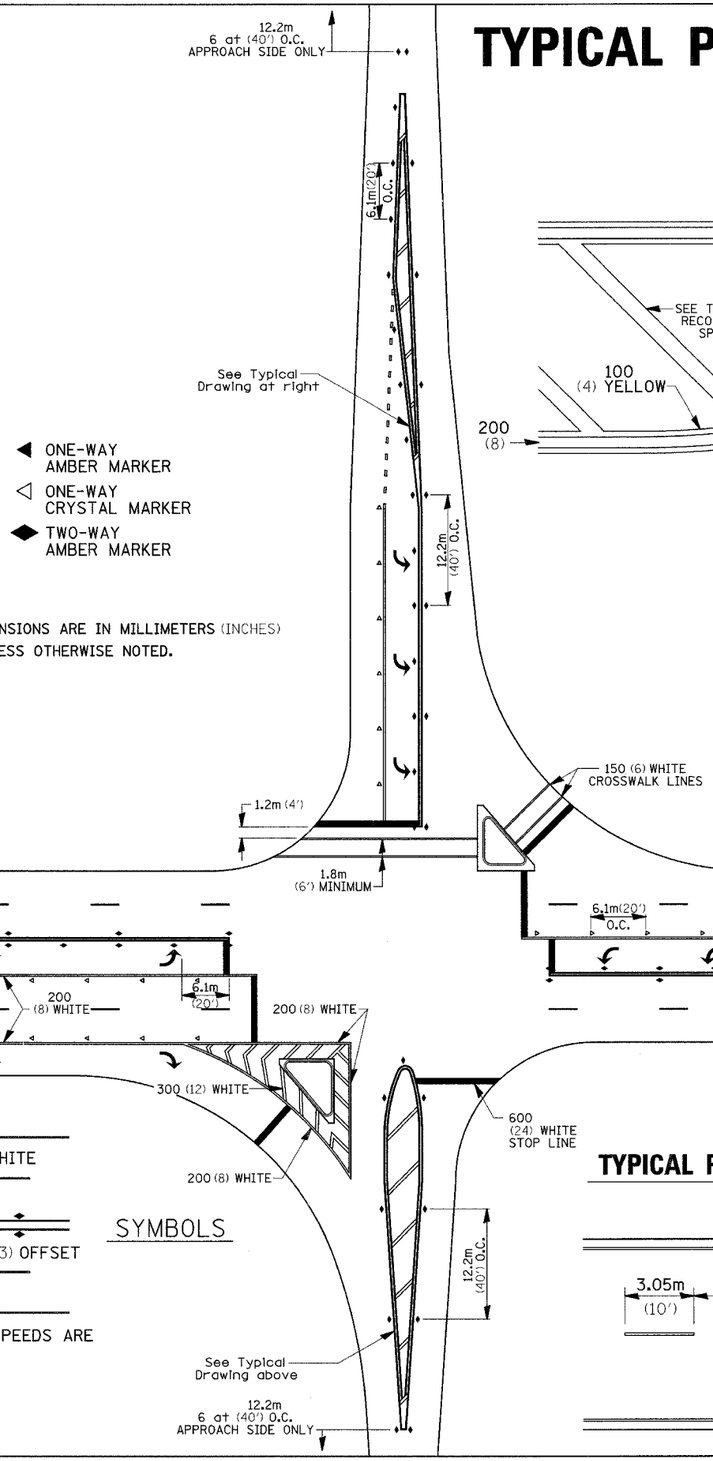
CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	134
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

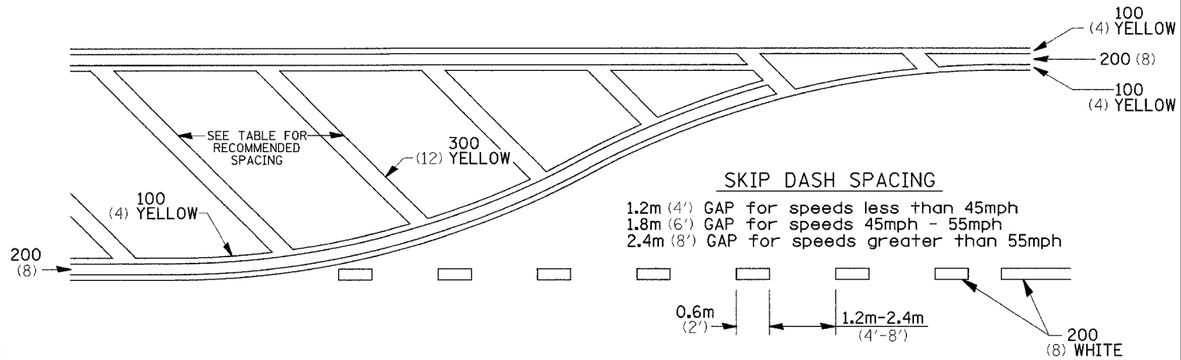




◀ ONE-WAY AMBER MARKER
◁ ONE-WAY CRYSTAL MARKER
◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



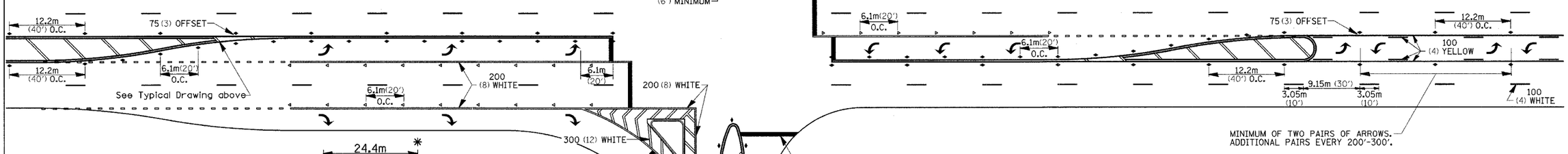
SKIP DASH SPACING

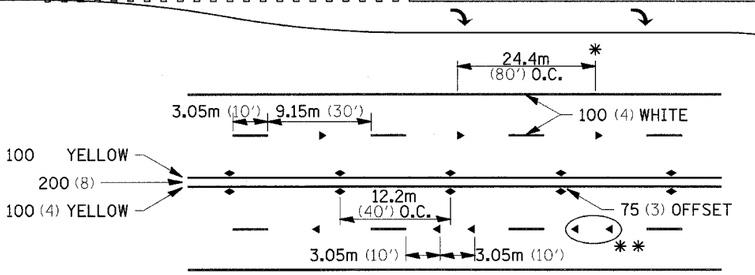
1.2m (4') GAP for speeds less than 45mph
1.8m (6') GAP for speeds 45mph - 55mph
2.4m (8') GAP for speeds greater than 55mph

RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.





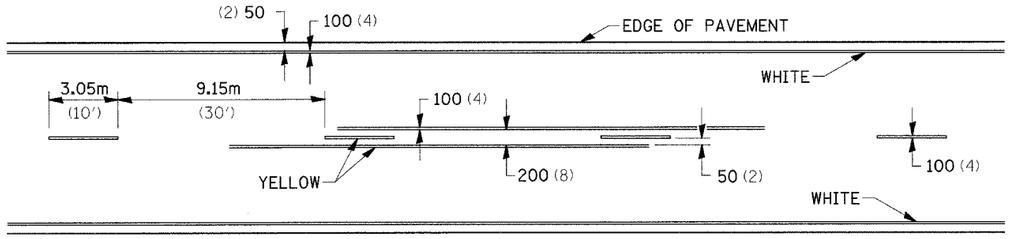
* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

SYMBOLS

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



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REVISED 7-20-06

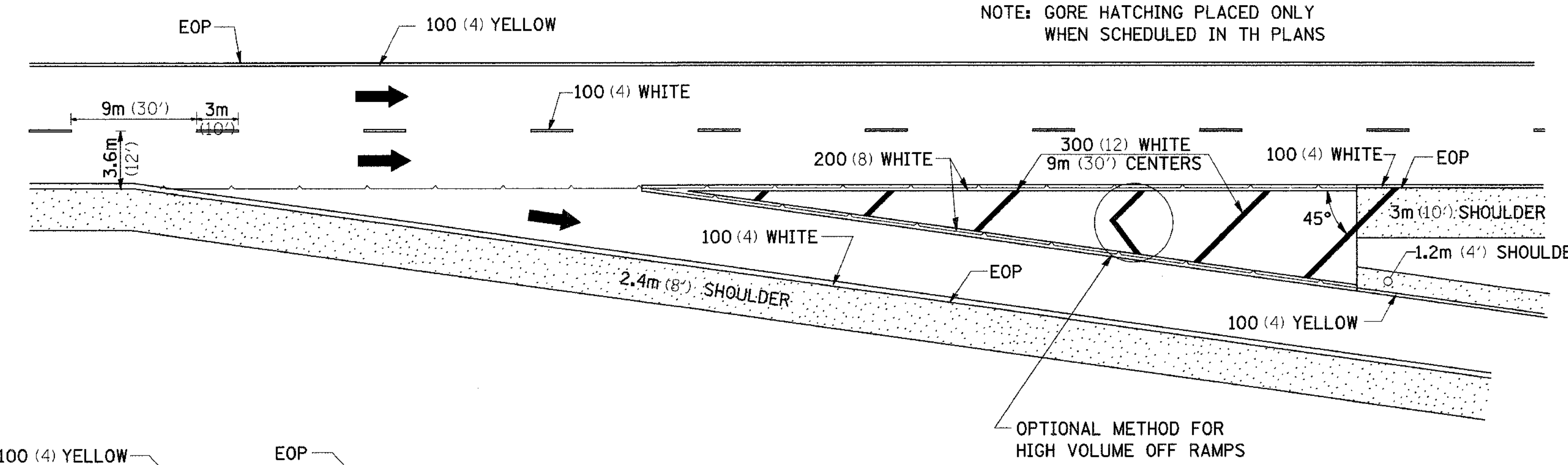
CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	135
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

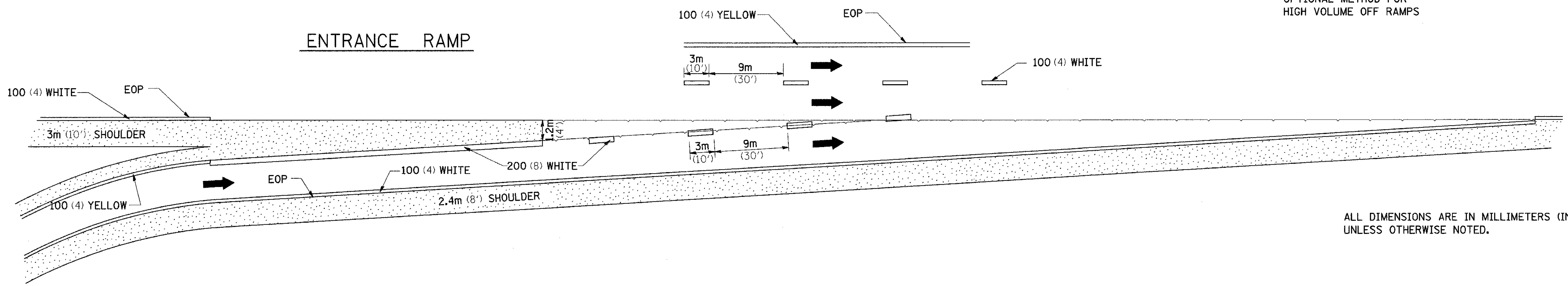
PAINTING DETAILS

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN TH PLANS

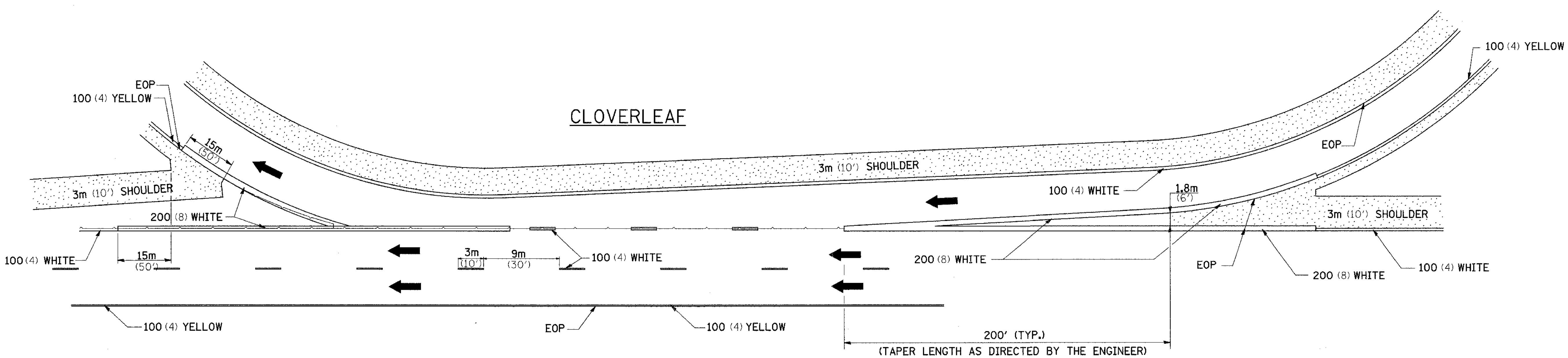


ENTRANCE RAMP



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

CLOVERLEAF

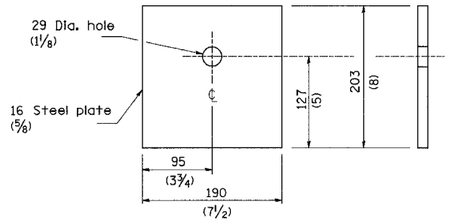


REVISED 6-26-90

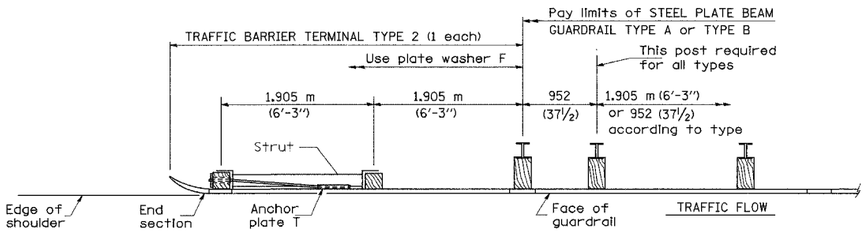
CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	136
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

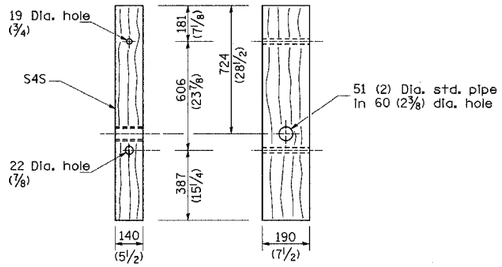
TRAFFIC BARRIER TERMINAL, TYPE 2 (27" HEIGHT)



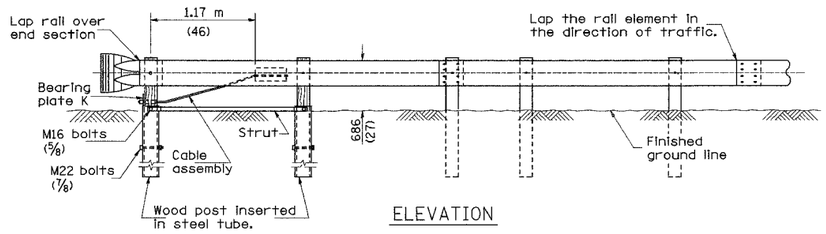
BEARING PLATE K



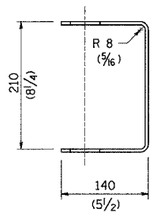
PLAN



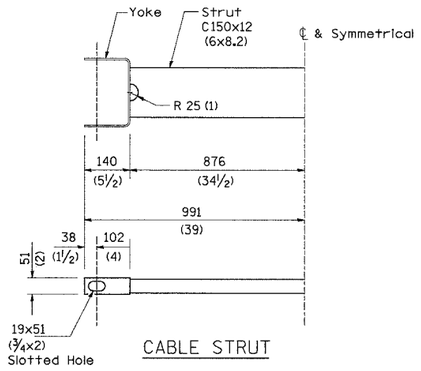
WOOD POST



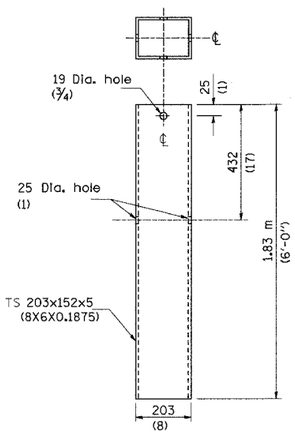
ELEVATION



YOKE
5 (3/16) thick steel



CABLE STRUT



STEEL TUBE

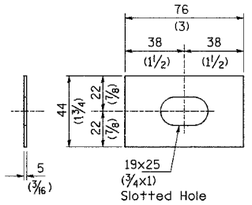


PLATE WASHER F

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

The bearing plate K shall be held in position by (2) two eight penny nails driven into the post and bent over the top of the plate.

All dimensions are in millimeters (inches) unless otherwise shown.

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REVISED 1-15-08

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USER NAME = dossdd

ORIGINAL SURVEY		BY	DATE
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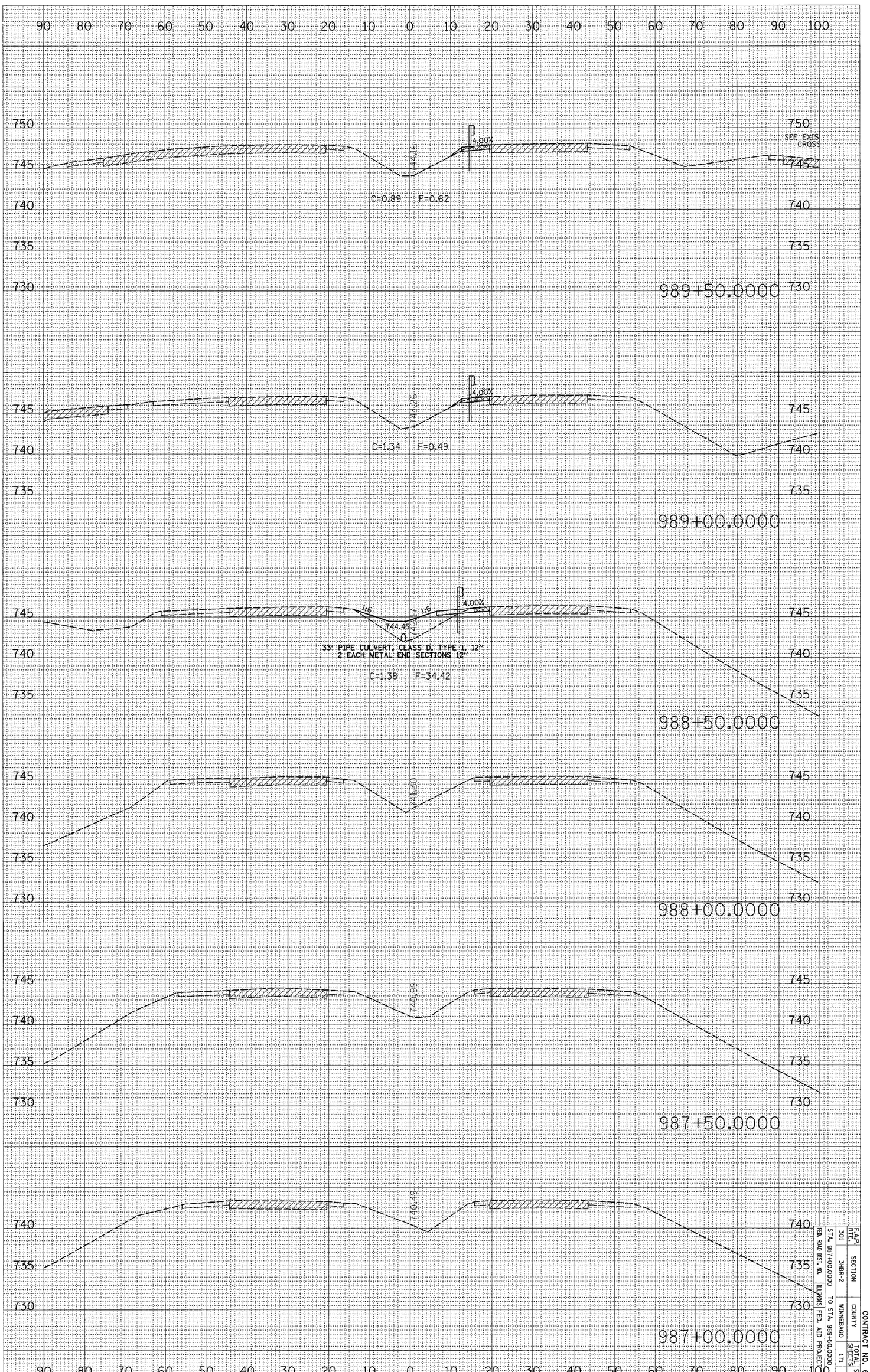
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	137

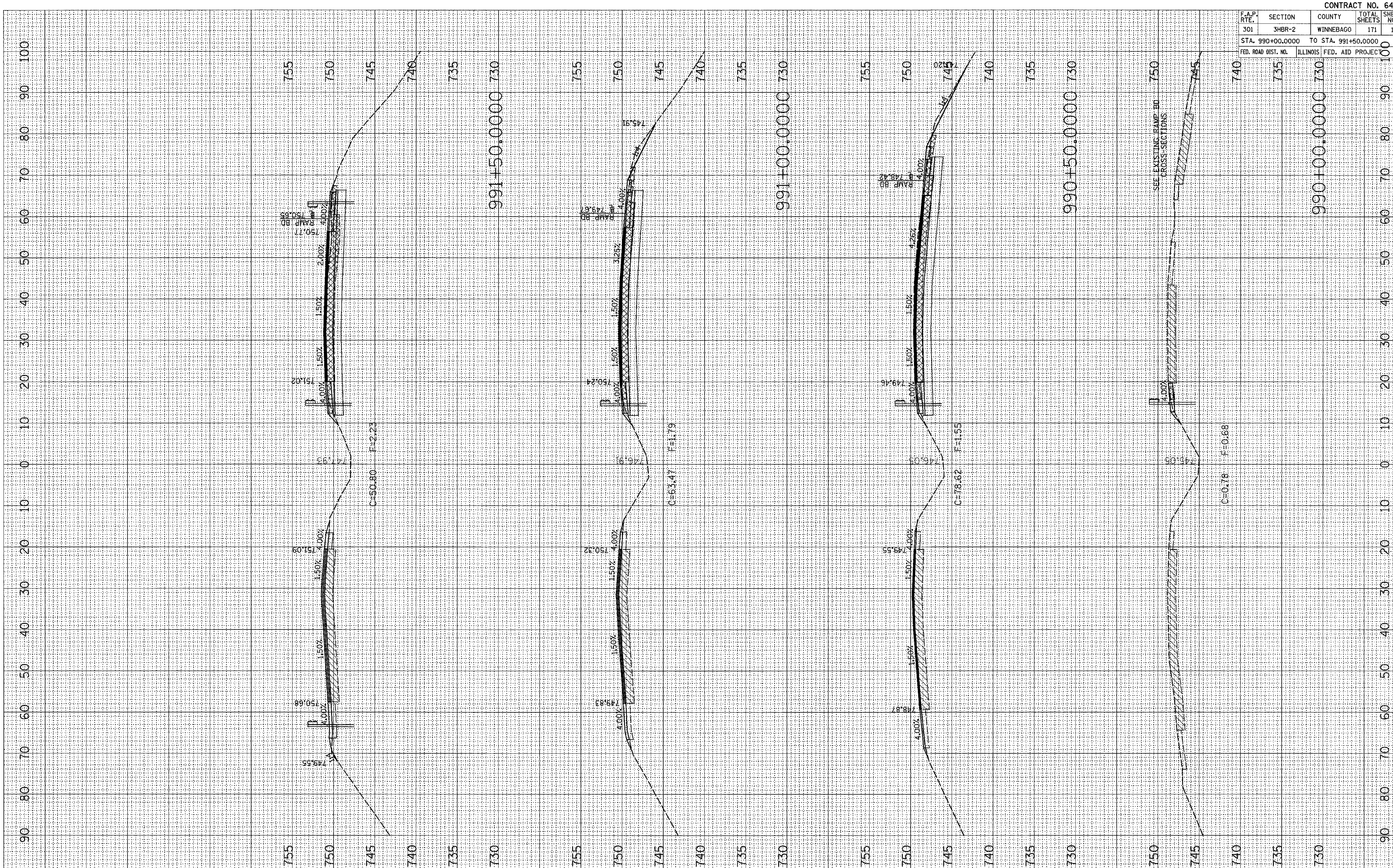
STA. 987+00.0000 TO STA. 989+50.0000
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 64232

US 20

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	138
STA. 990+00.0000	TO STA. 991+50.0000			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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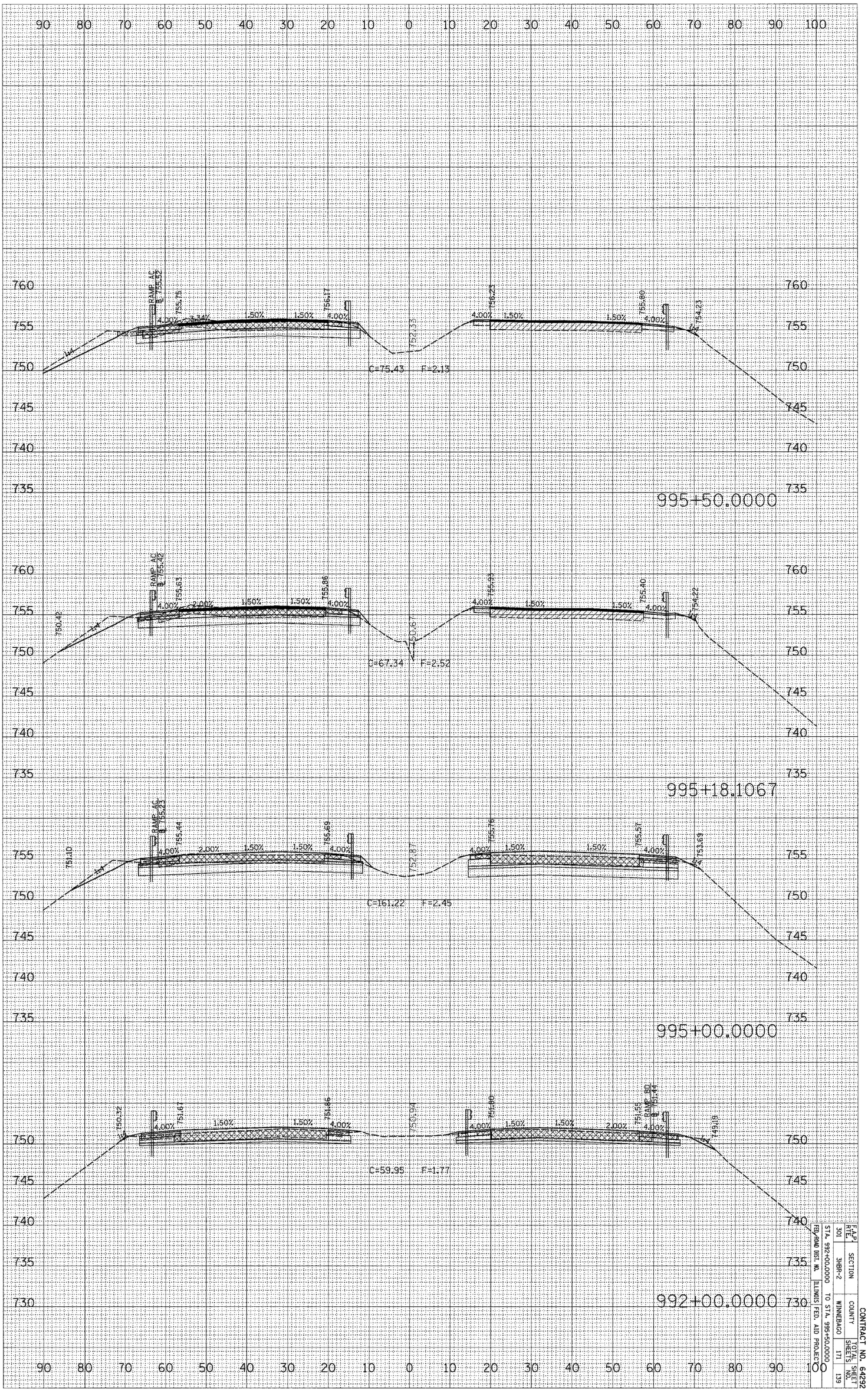
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



CONTRACT NO. 64292			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
301	3HBR-2	WINNEBAGO	171
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET NO.
STA. 992+00.0000	TO STA. 995+50.0000		139

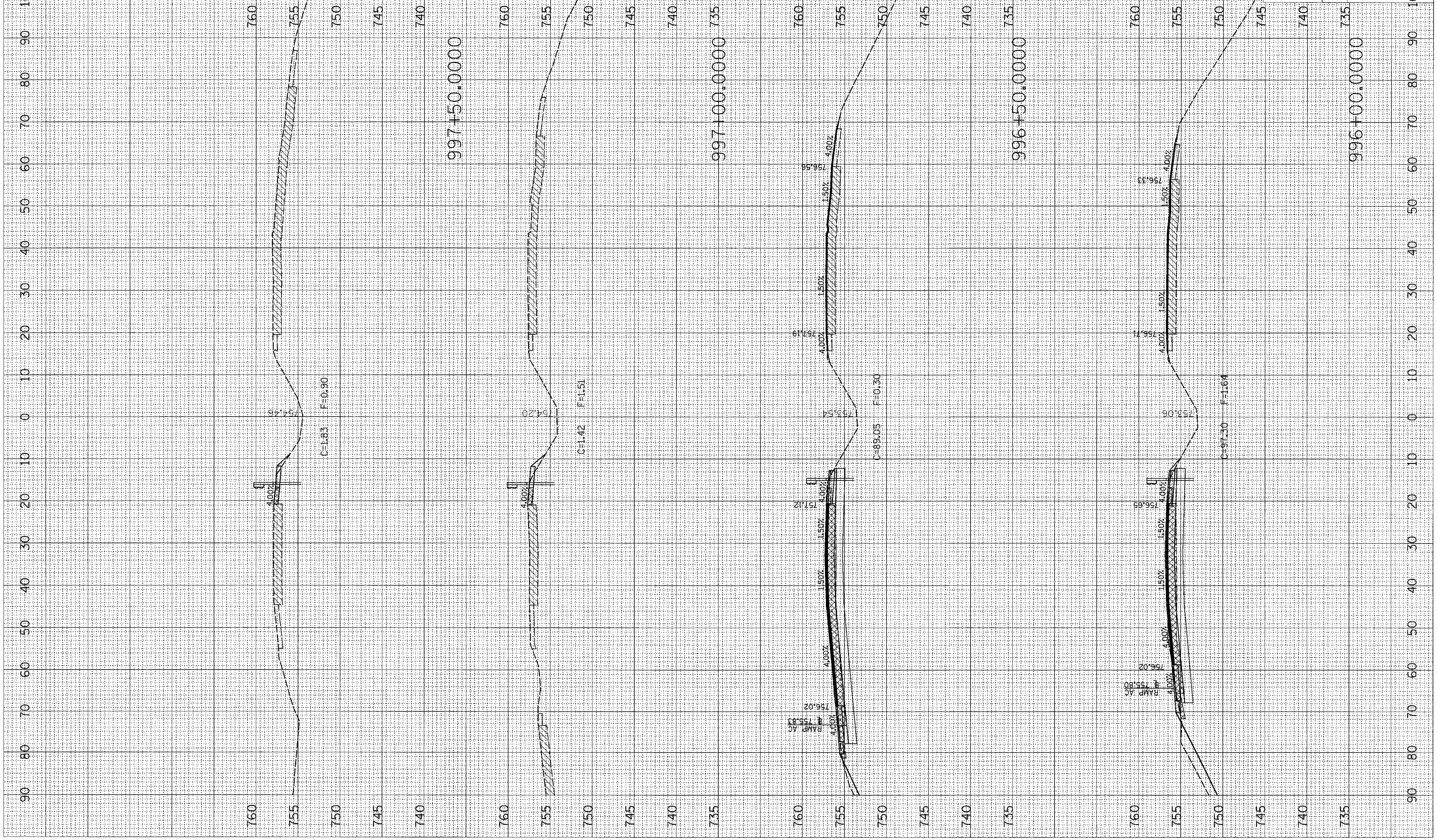
US 20

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	140

STA. 996+00.0000 TO STA. 997+50.0000

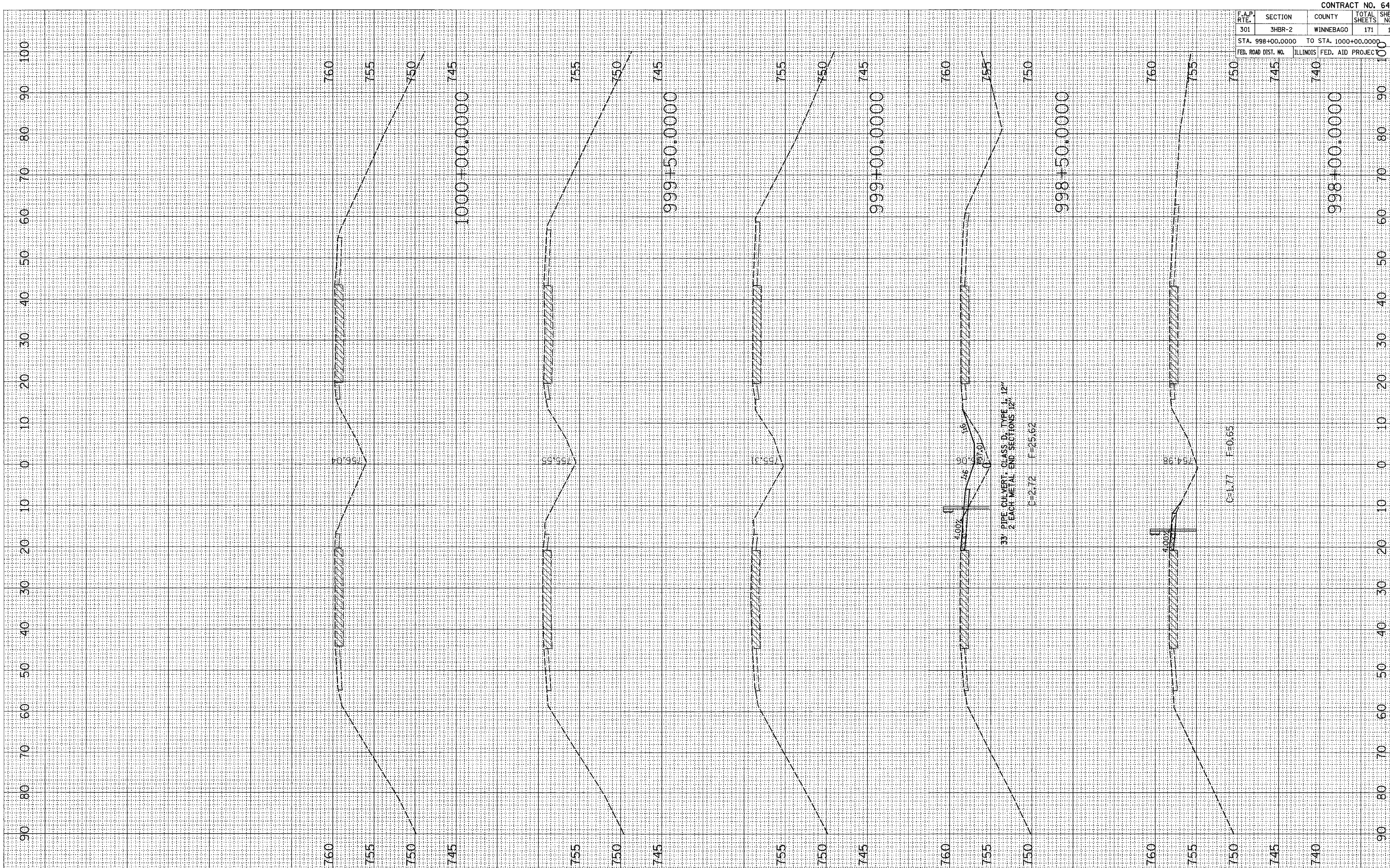
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



US 20

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	141
STA. 998+00.0000 TO STA. 1000+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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USER NAME = dossdd

PLOT DATE = Thu Mar 13 14:39:08 2008
FILE NAME = c:\projects\p203298\d03298xm3.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3WBR-2	WINNEBAGO	171	142
STA. 245+00.0000	TO STA. 248+50.0000			
TEB. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

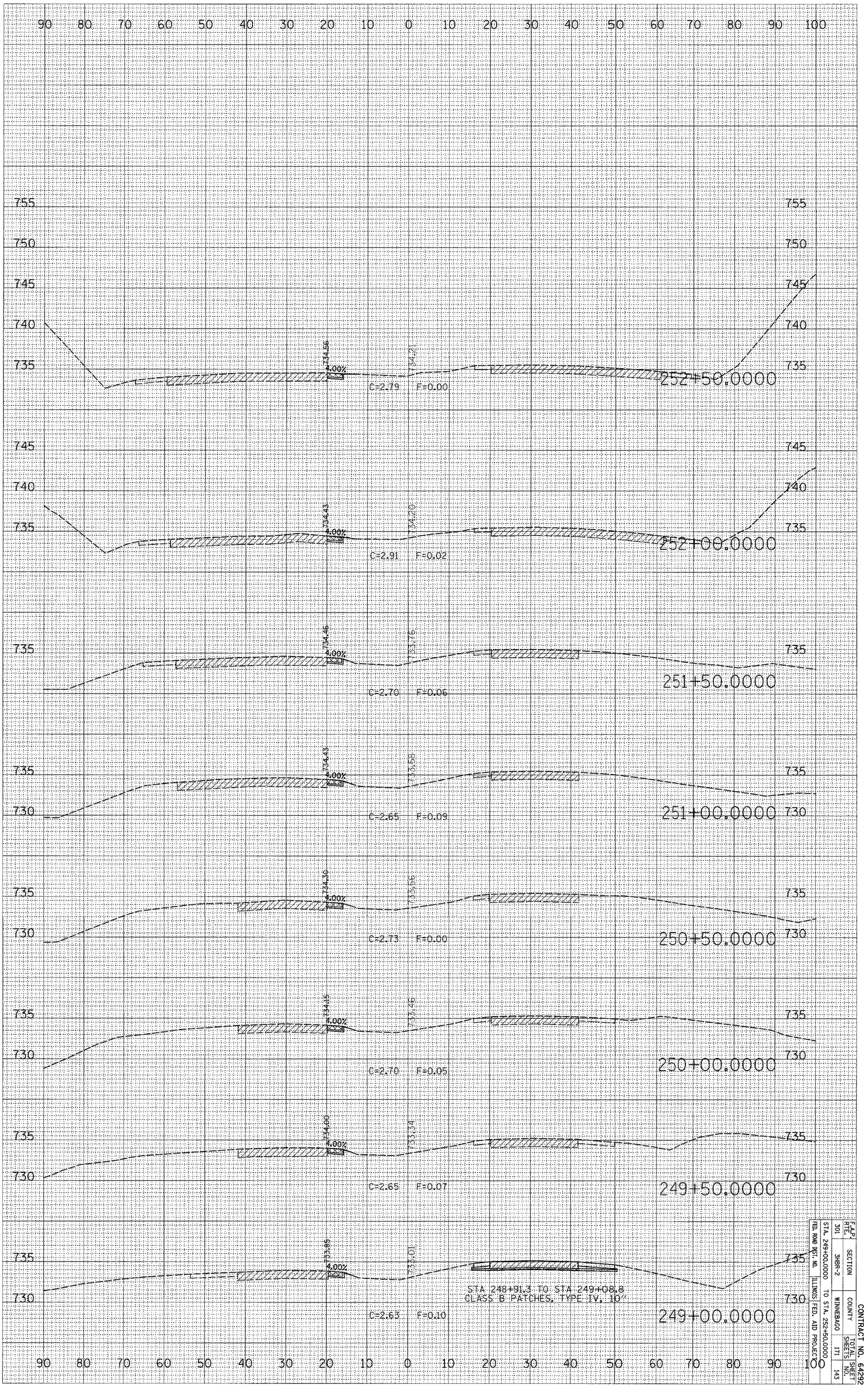
CONTRACT NO. 64292

IL 251

PLOT DATE = Thu Mar 13 14:39:00 2008
FILE NAME = c:\pro_jects\p203298\d03298xm3.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



FED. RWD PROJ. NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	301	3HBR-2	WINNEBAGO	171	143
ILLINOIS FED. AID PROJECT	STA. 249+00.0000 TO STA. 252+50.0000				

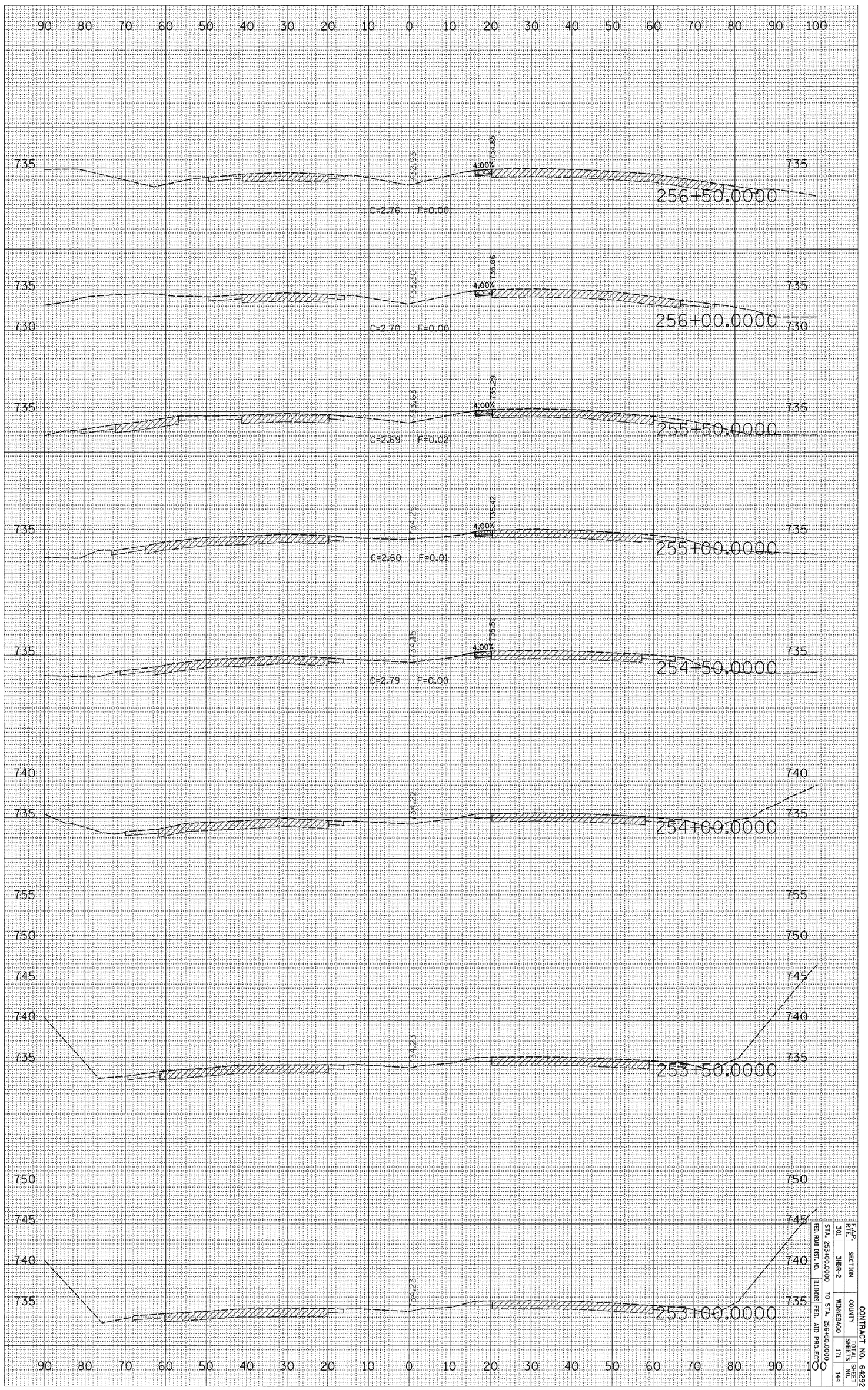
CONTRACT NO. 64292

IL 251

PLOT DATE = Thu Mar 13 14:39:01 2008
FILE NAME = c:\proj\eots\p203298\d83298xm3.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	144

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 253+00.0000 TO STA. 256+50.0000

CONTRACT NO. 64292

IL 251

PLOT DATE = Thu Mar 13 14:39:01 2008
FILE NAME = c:\projects\p283298\d83298xm3.dgn
PLOT SCALE = 10.0000 ' / IN.
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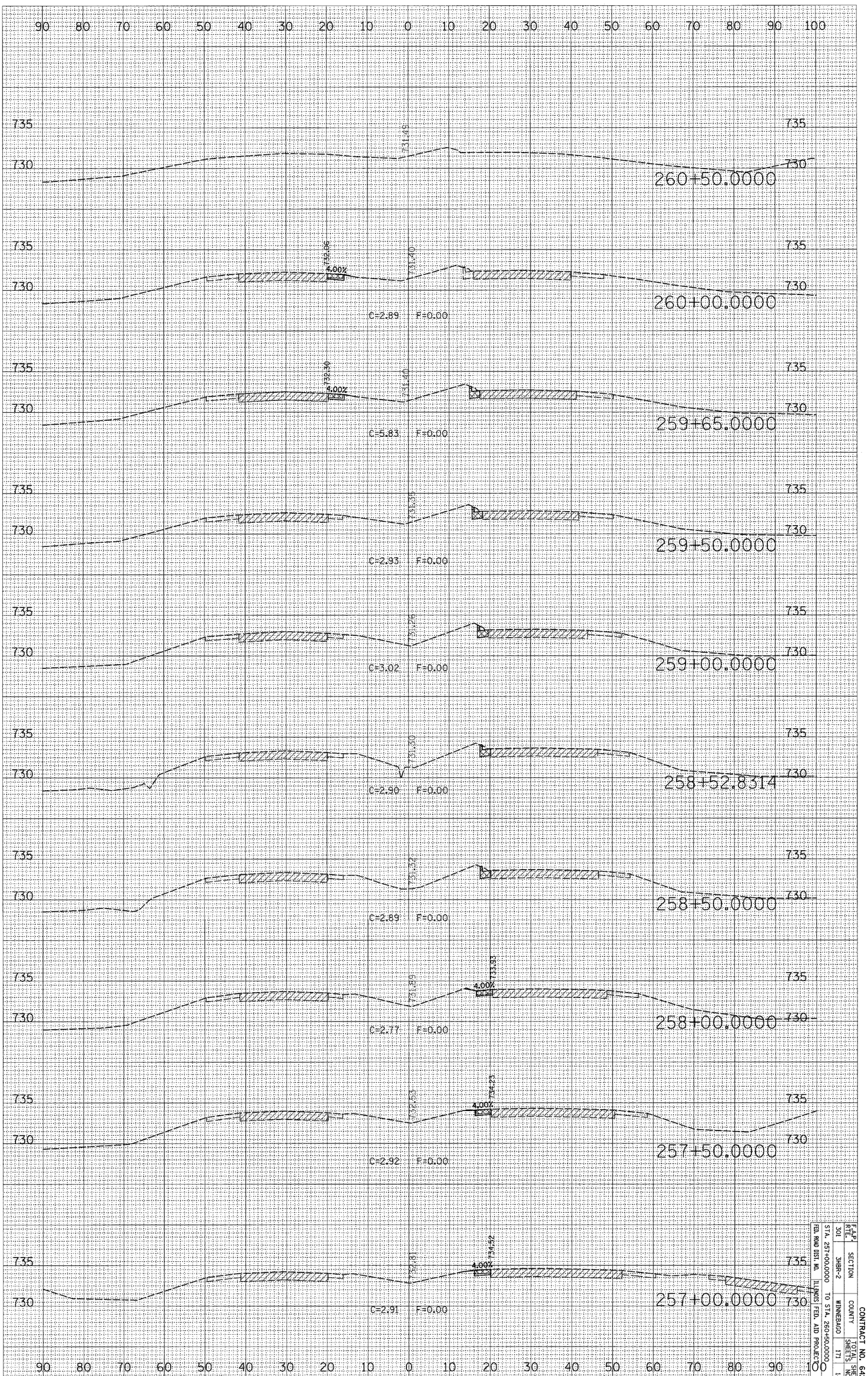
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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



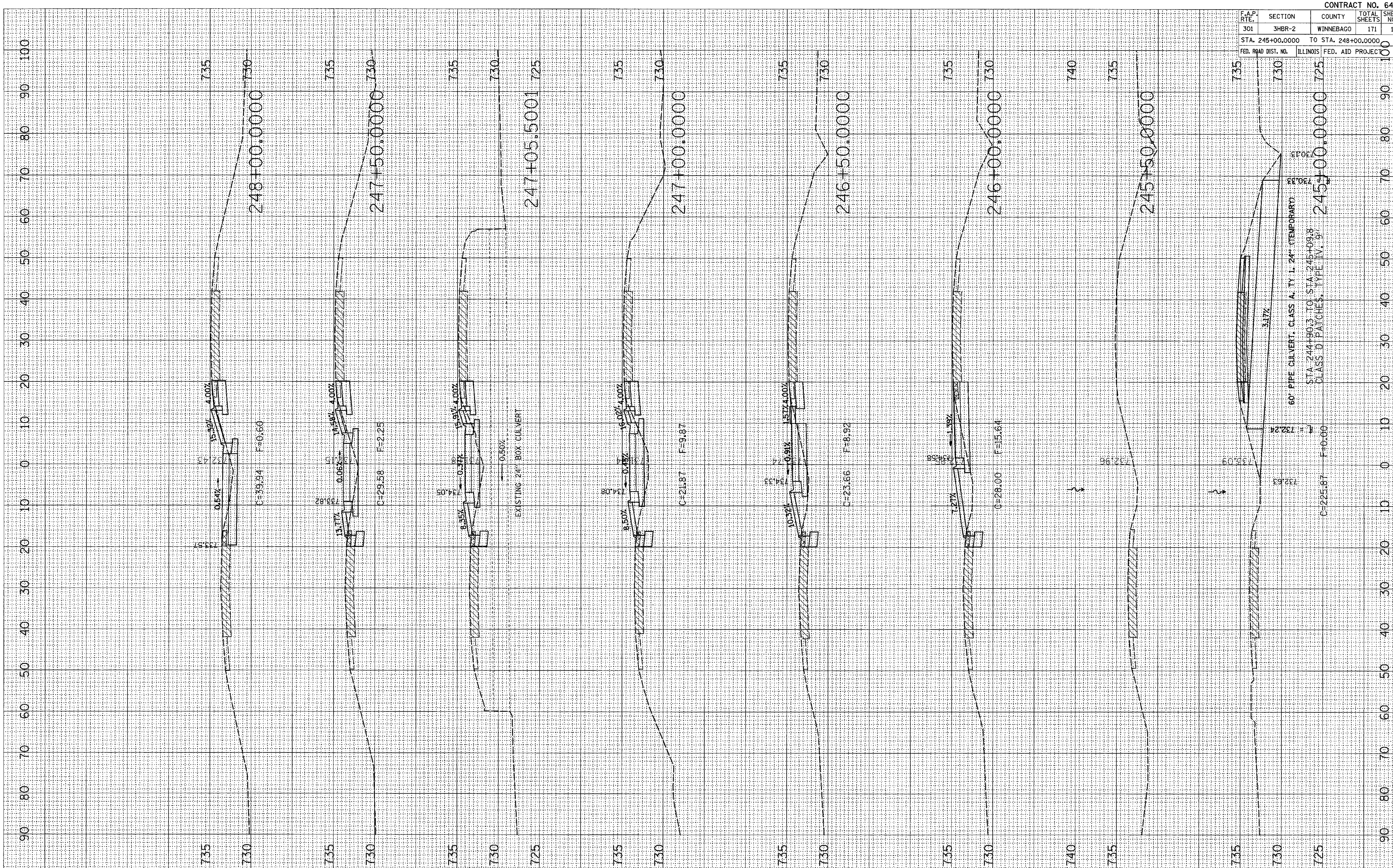
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	145
STA. 257+00.0000		TO STA. 260+50.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 64292

IL 251

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	146
STA. 245+00.0000	TO STA. 248+00.0000			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE 1 X-SECTIONS FOR IL 251

PLOT DATE = Thu Mar 13 14:49:49 2008
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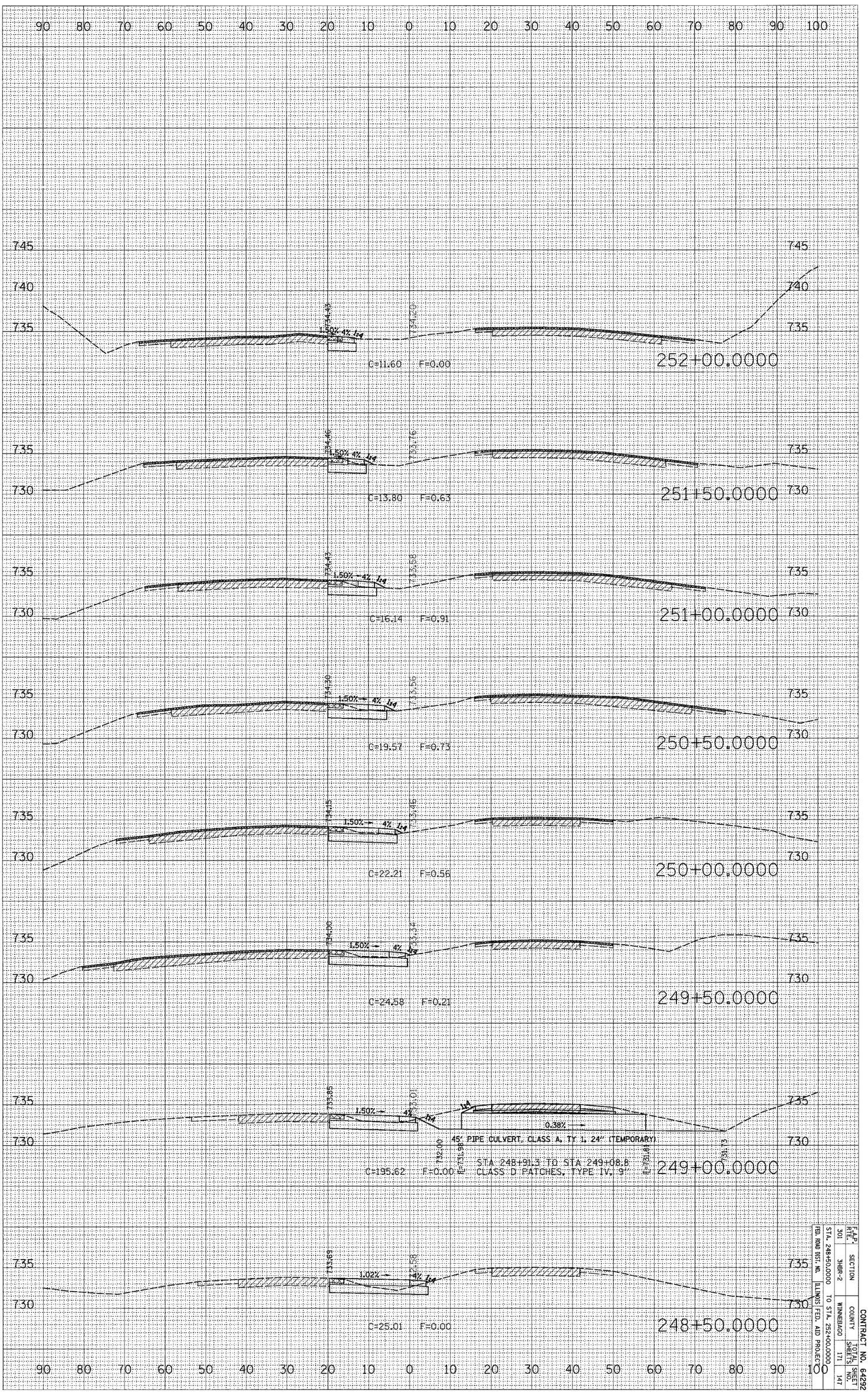
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



STAGE 1 X-SECTIONS FOR IL 251

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	147

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 248+50.0000 TO STA. 252+00.0000

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	148
STA. 252+50.0000	TO STA. 255+50.0000			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = Thu Mar 13 14:49:49 2008
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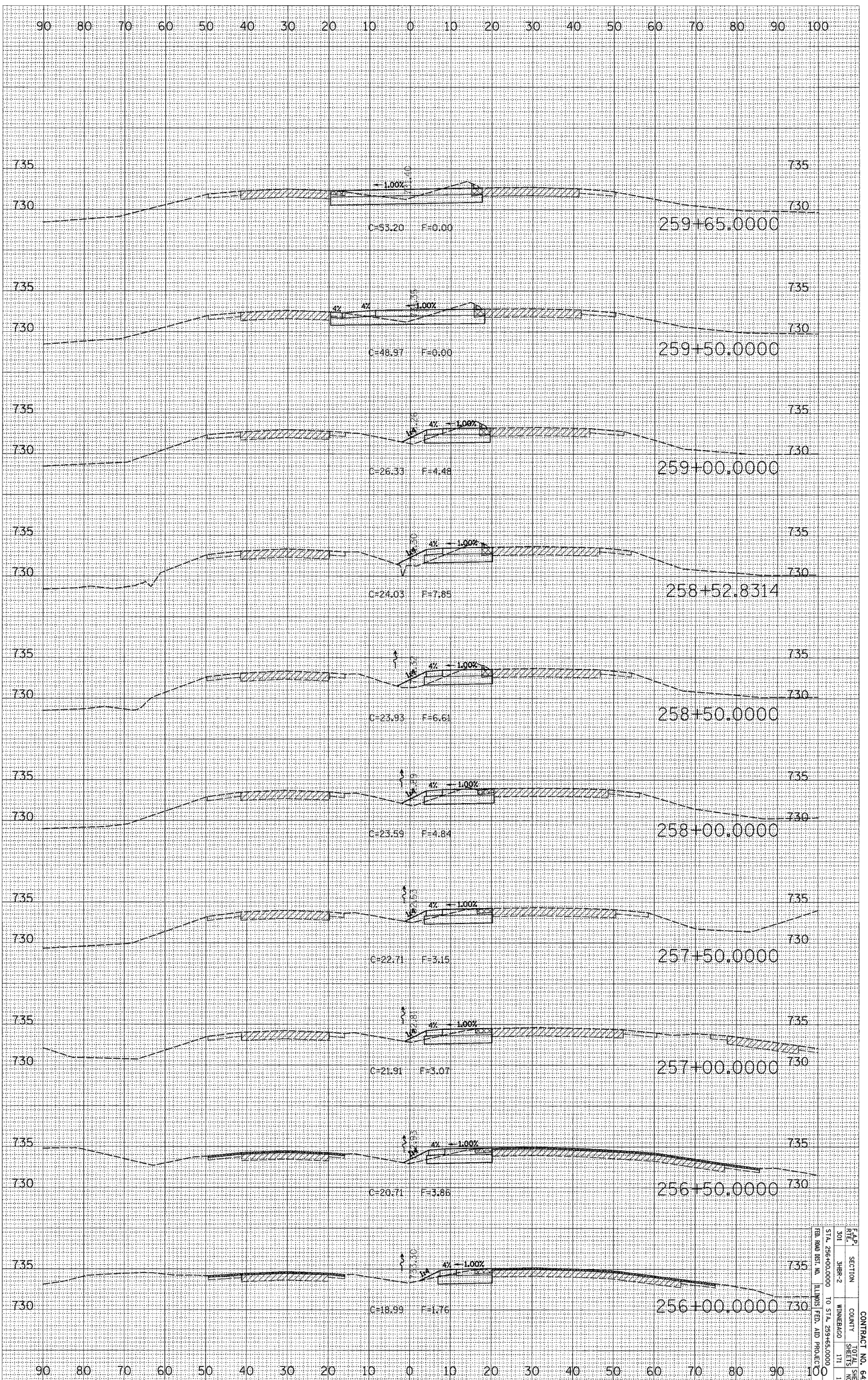
USER NAME = dosadd

STAGE 1 X-SECTIONS FOR IL 251

PLOT DATE = Thu Mar 13 14:49:49 2008
FILE NAME = c:\projects\p203298\d0329&xm2.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



STAGE 1 X-SECTIONS FOR IL 251

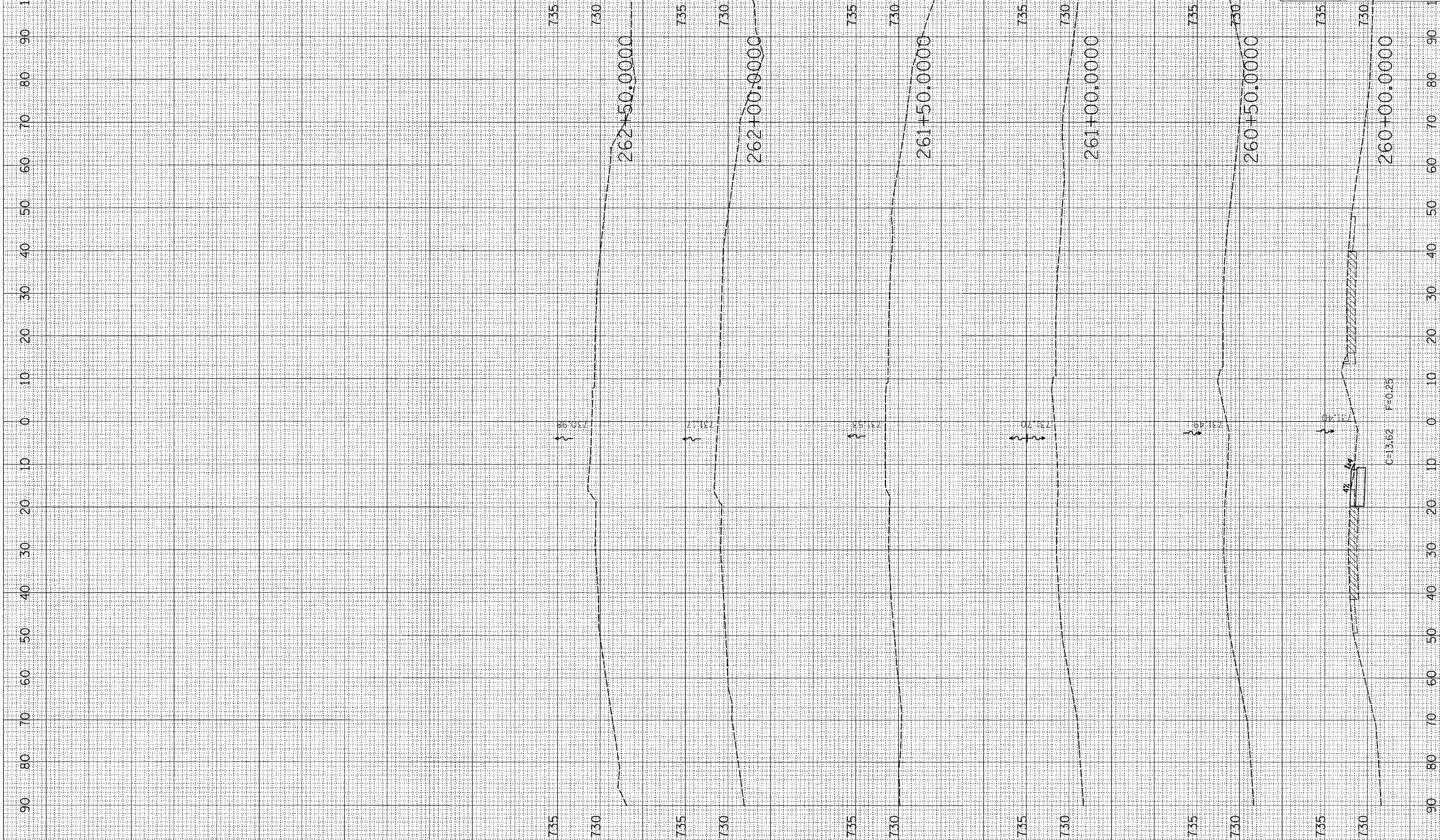
CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	149

STA. 256+00.0000 TO STA. 259+65.0000
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	150
STA. 260+00.0000 TO STA. 262+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

PLOT DATE = Thu Mar 13 14:49:50 2008
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PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

STAGE 1 X-SECTIONS FOR IL 251

PLOT DATE = Thu Mar 13 14:51:58 2008
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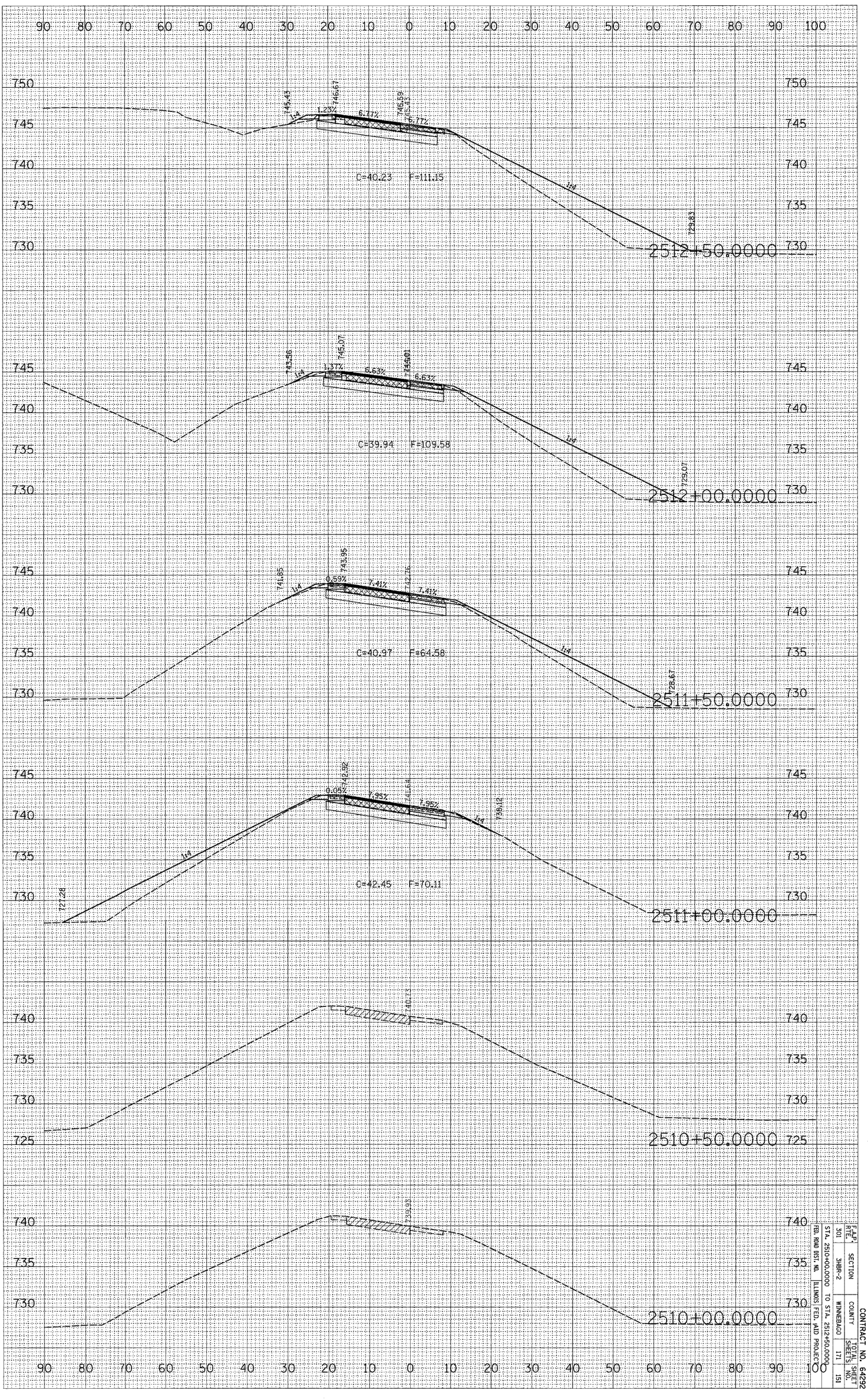
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



RAMP BD

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	151

STA. 2510+00.0000 TO STA. 2512+50.0000

ILLINOIS FED. AID PROJECT

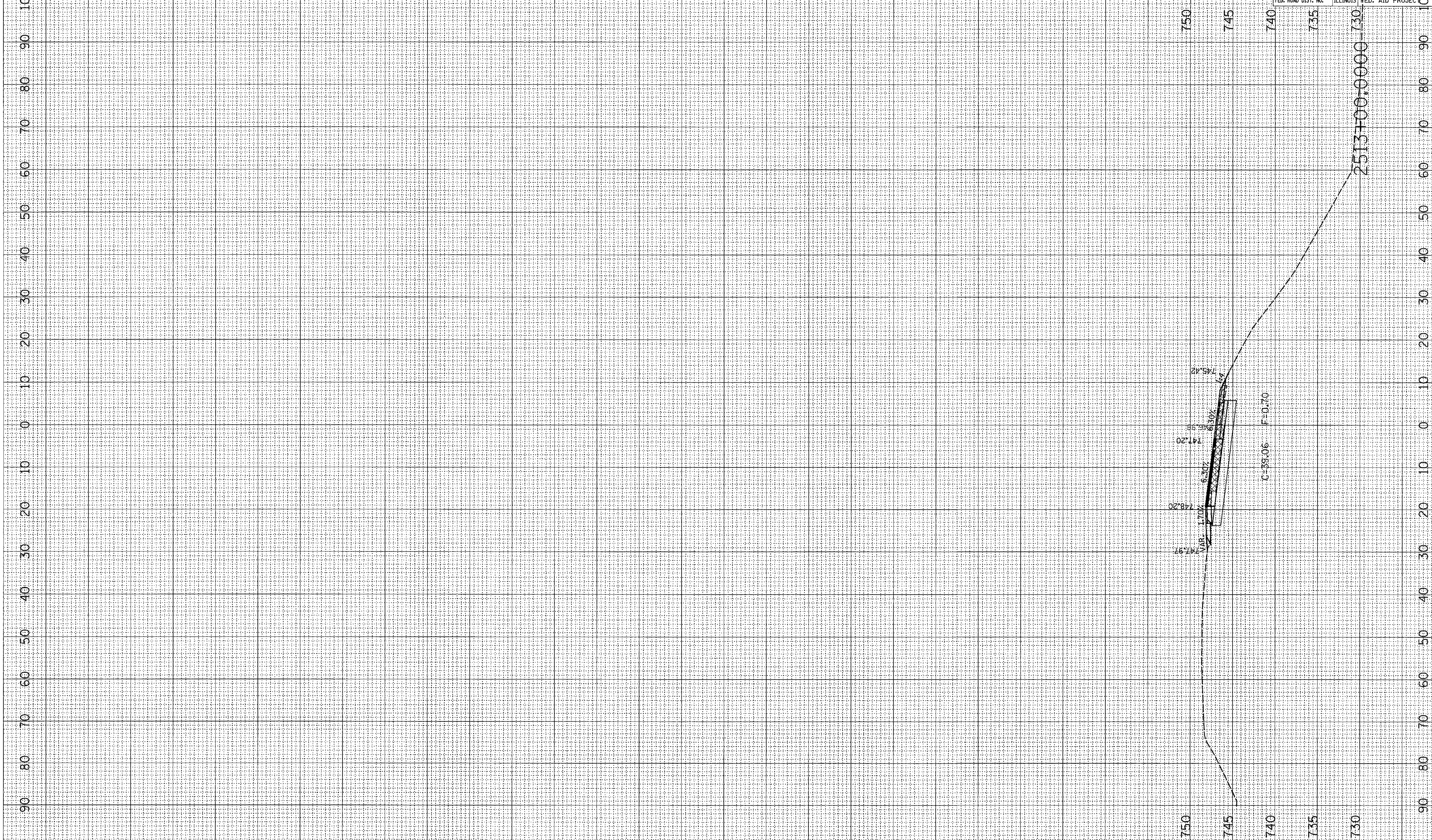
FED. ROAD DIST. NO.

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	152

STA. 2513+00.0000 TO STA. 2513+00.0000

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



RAMP BD

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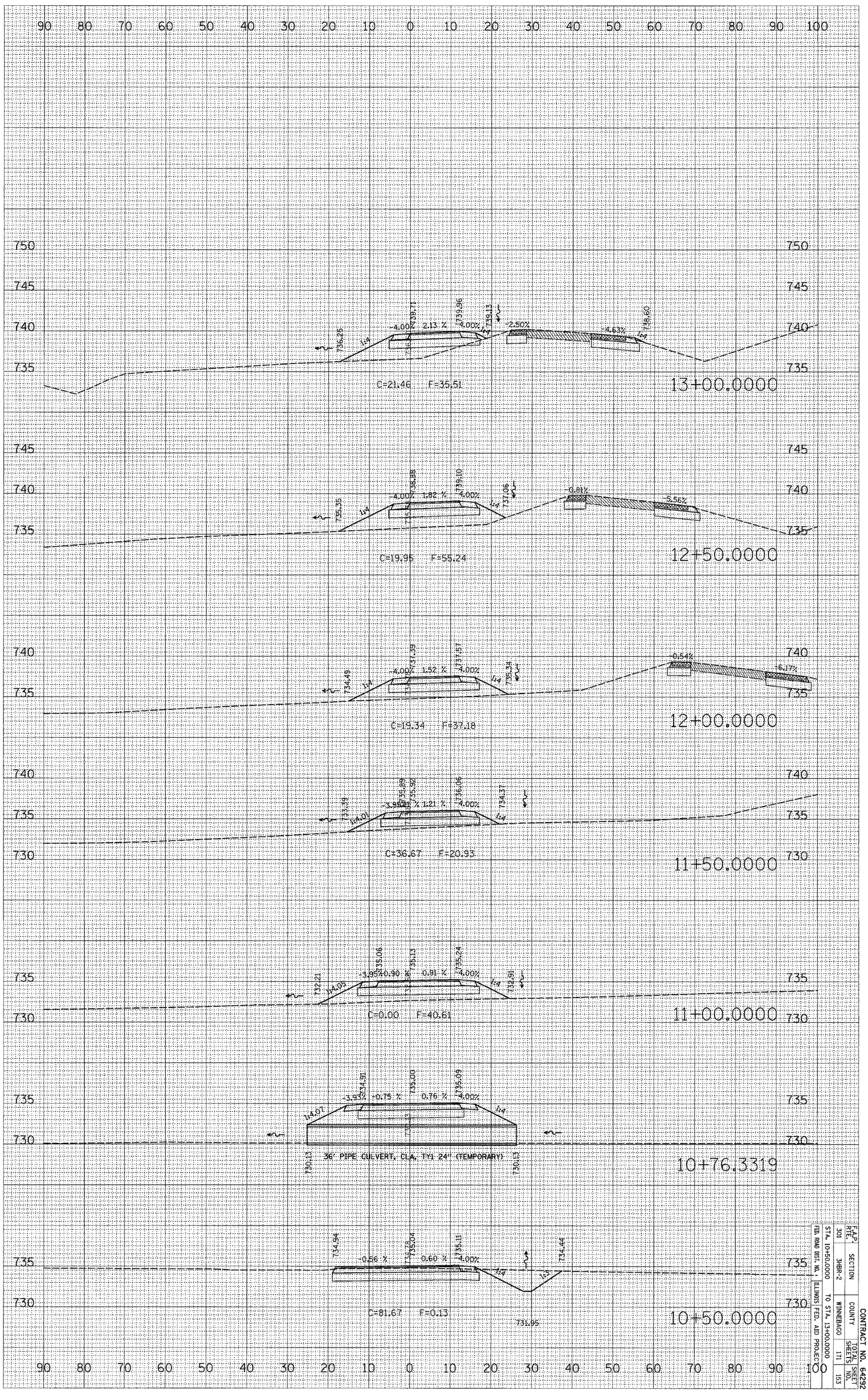
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dosadd

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

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



TEMPORARY RAMP BD

CONTRACT NO. 64292			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	153
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
STA. 10+50.0000	TO STA. 13+00.0000			

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	154
STA. 13+50.0000		TO STA. 15+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = Thu Mar 13 14:53:42 2008
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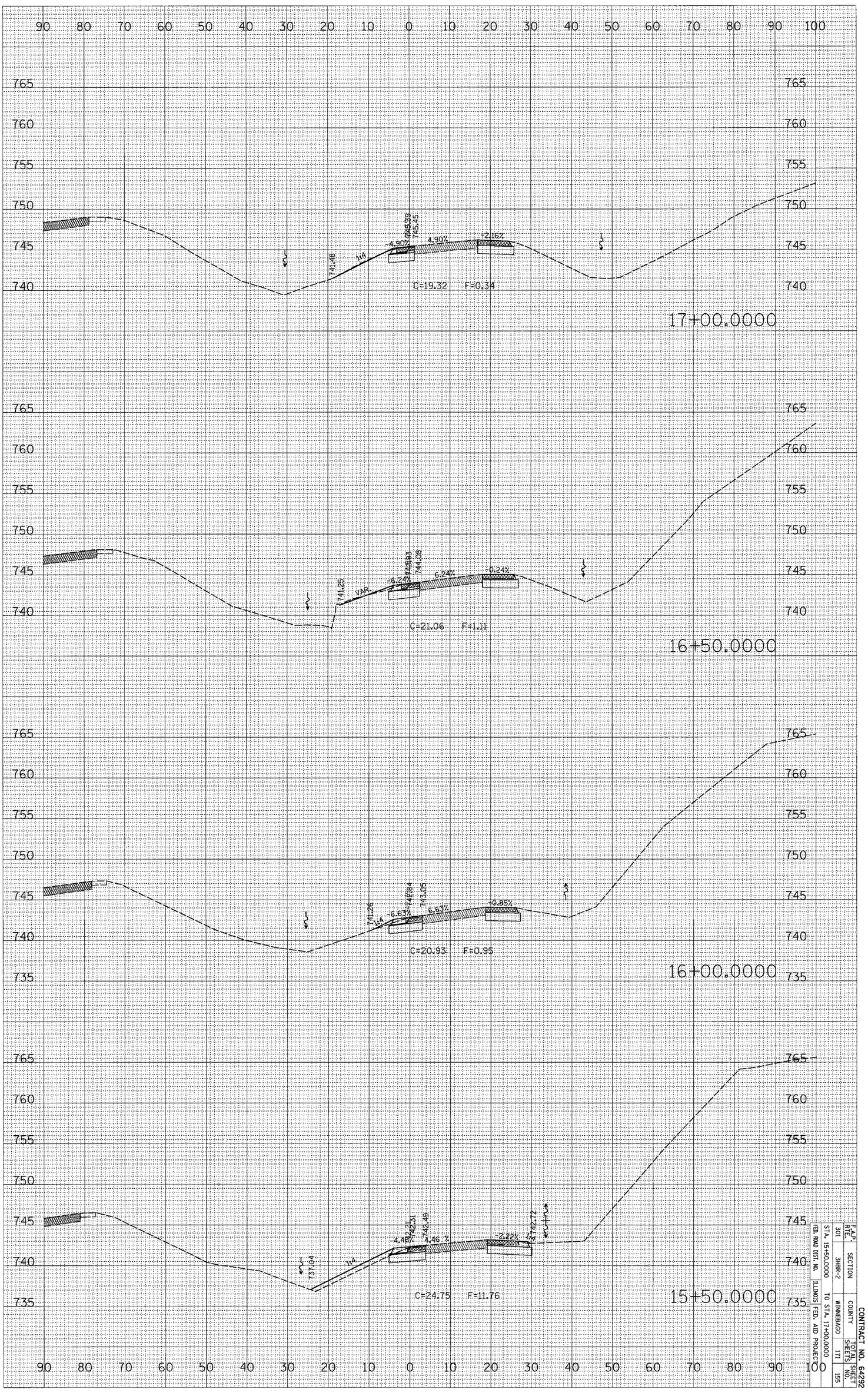
USER NAME = dosedd

TEMPORARY RAMP BD

PLOT DATE = Thu Mar 13 14:53:42 2008
FILE NAME = c:\projects\p203298\d03298xbd.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



TEMPORARY RAMP BD

CONTRACT NO. 64292

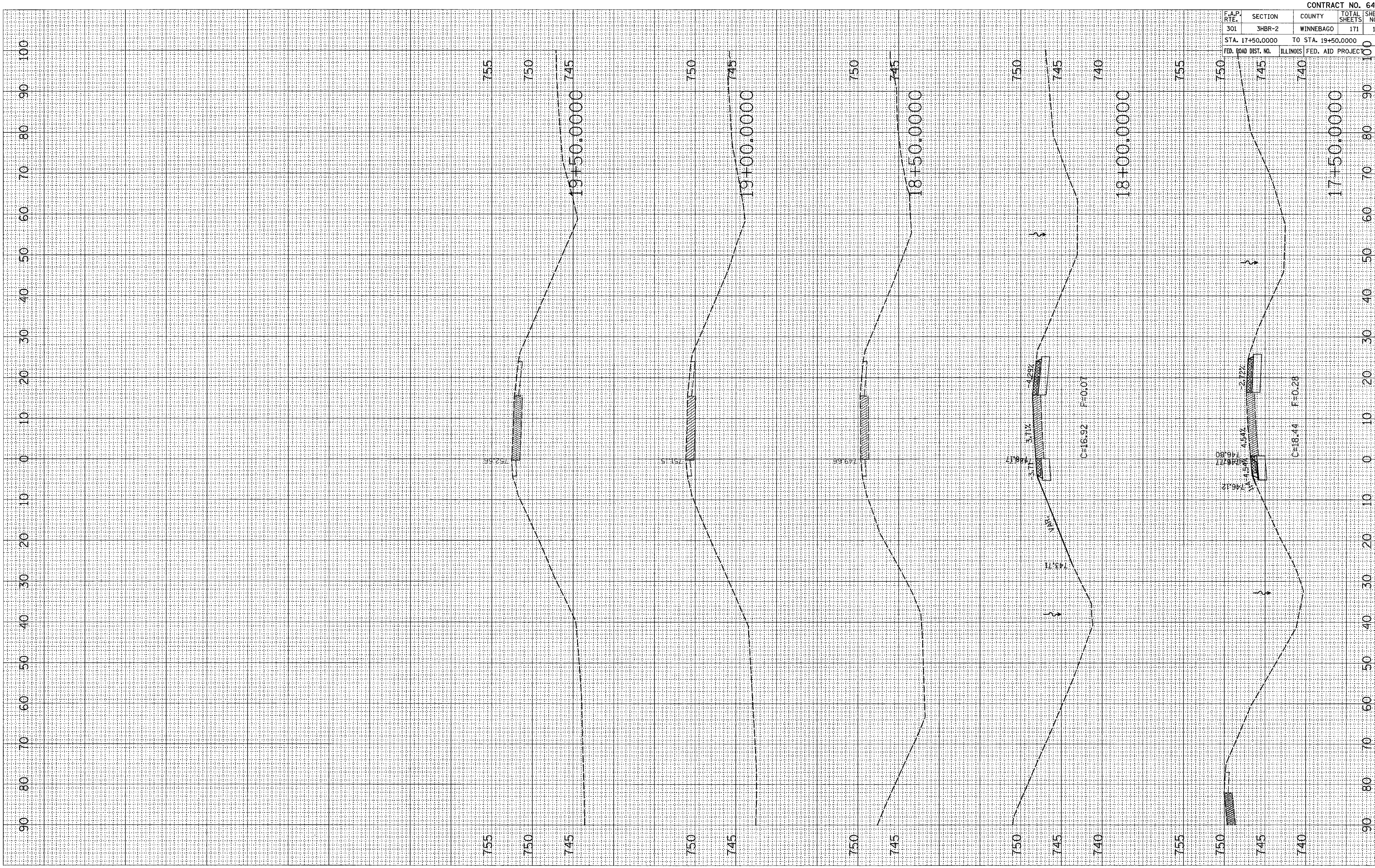
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	155

TO STA. 17+00.0000

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	156
STA. 17+50.0000 TO STA. 19+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TEMPORARY RAMP BD

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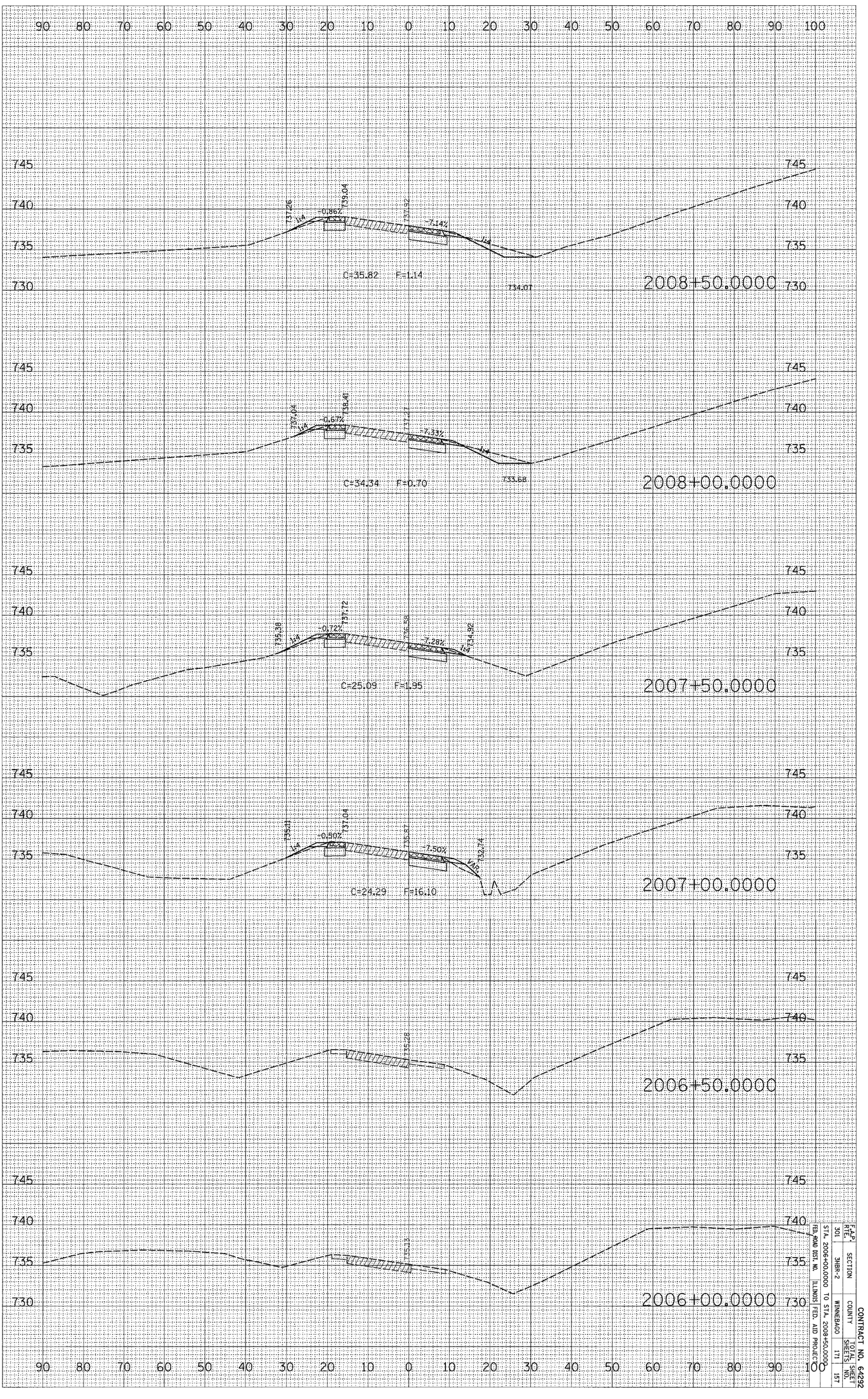
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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



RAMP AD

CONTRACT NO. 64292

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
301	3HBR-2	WINNEBAGO	171

STA. 2006+00.0000 TO STA. 2008+50.0000

157

PLOT DATE = Thu Mar 13 14:59:23 2008
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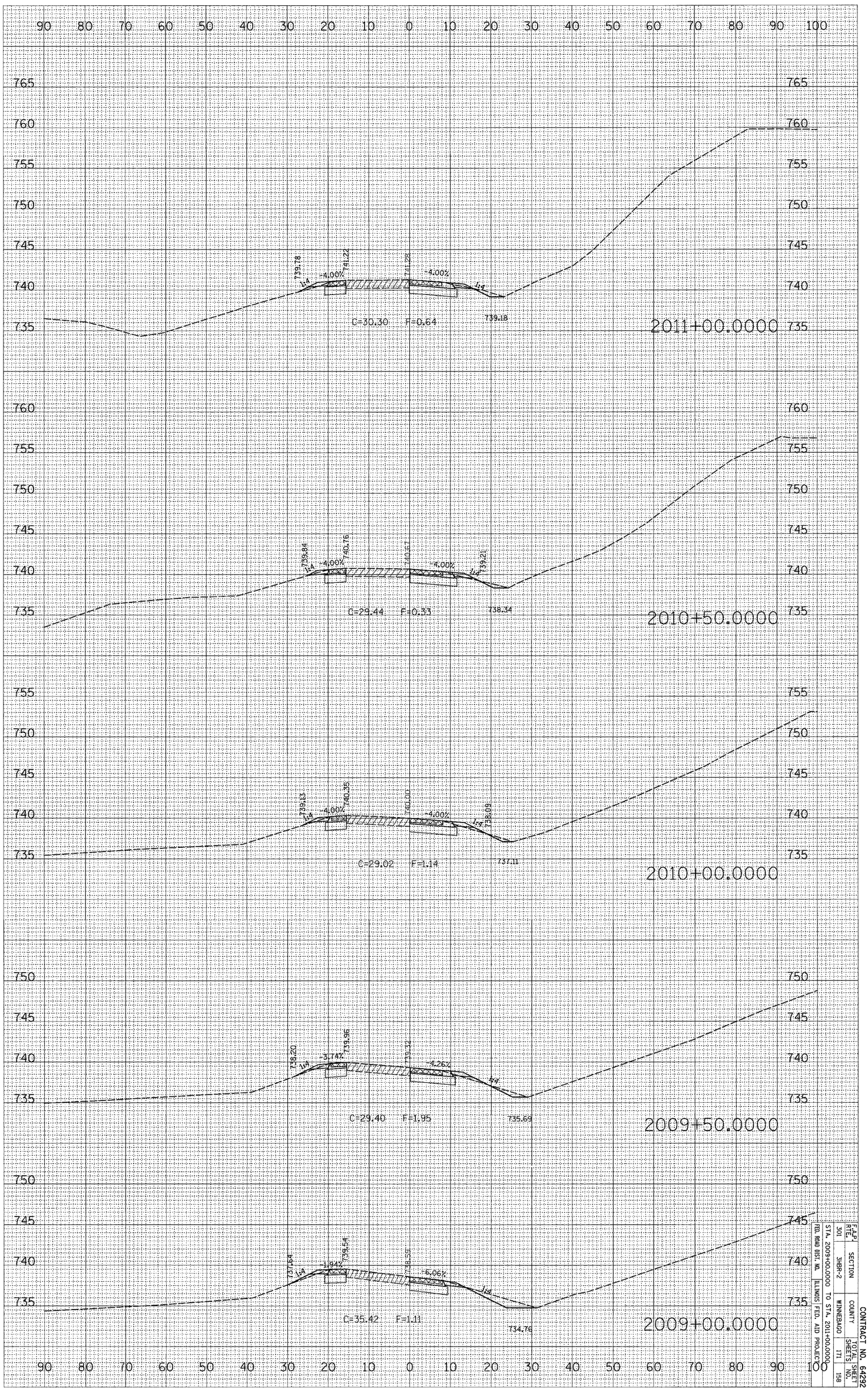
USER NAME = dossdd

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

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



RAMP AD

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	158

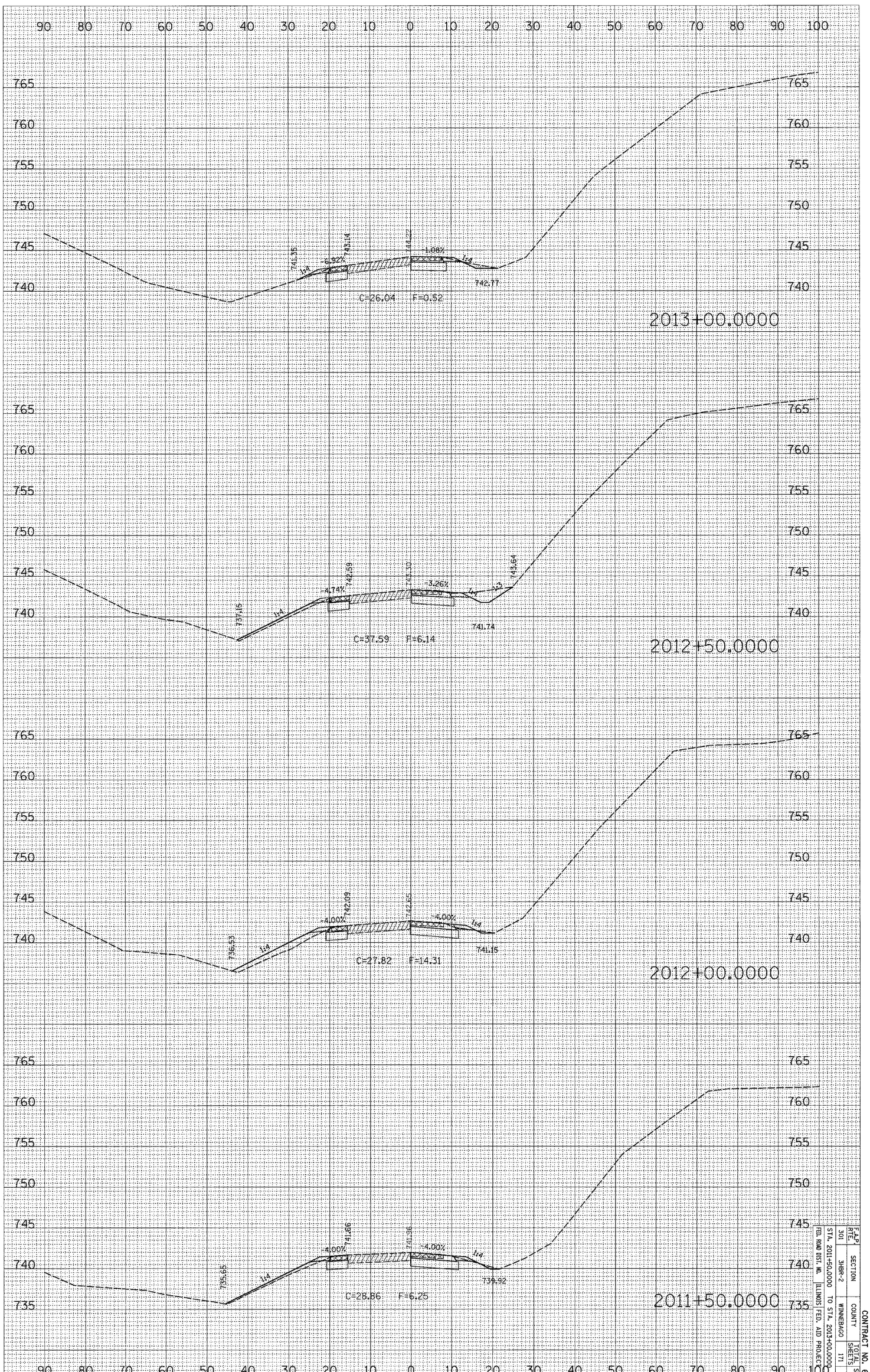
STA. 2009+00.0000 TO STA. 2011+00.0000

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLOT DATE = Thu Mar 13 14:59:23 2008
FILE NAME = c:\projects\p283298\d03298xsd.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



RAMP AD

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	159

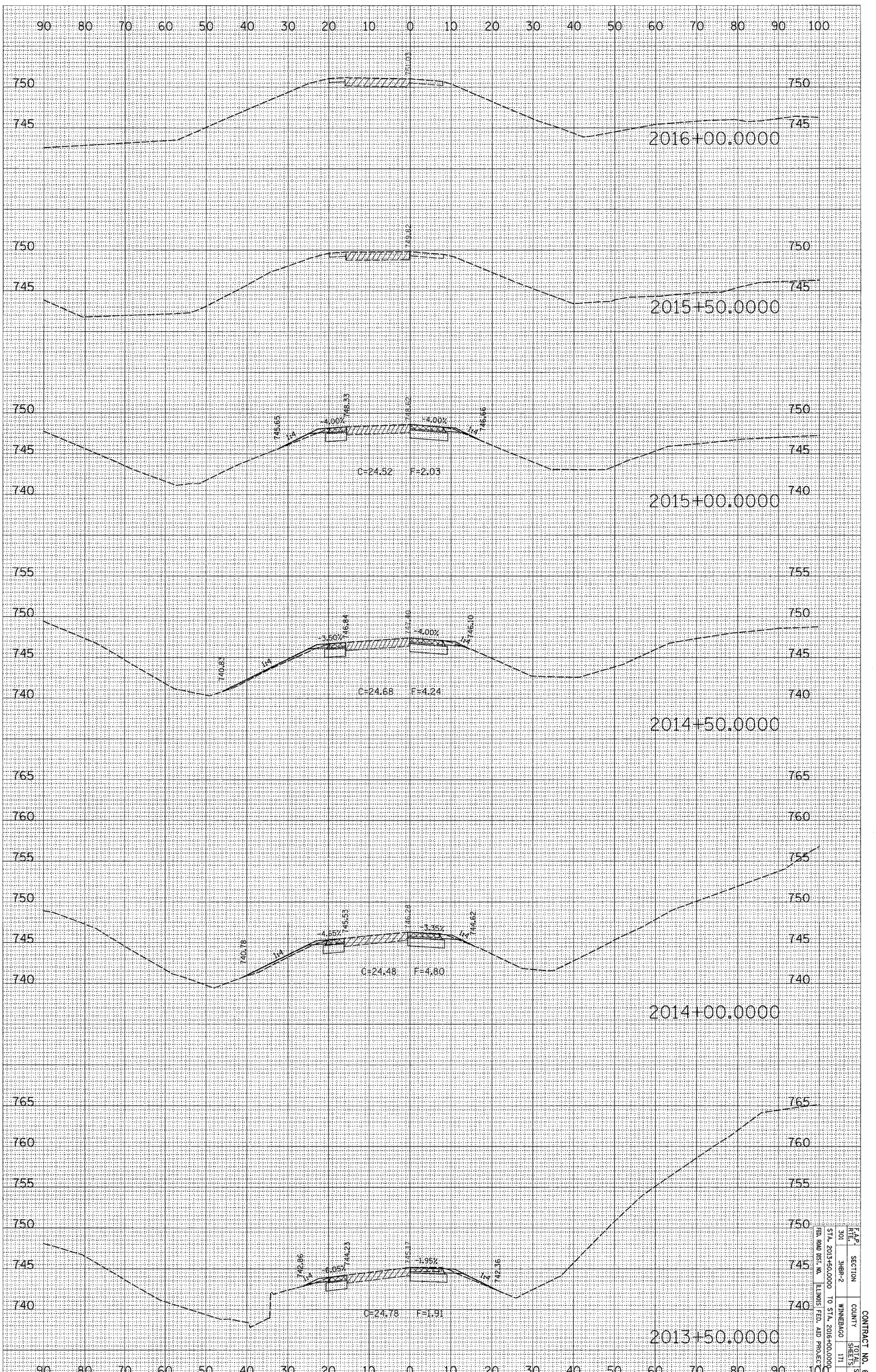
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 2011+50.0000 TO STA. 2013+00.0000

PLOT DATE = Thu Mar 13 14:59:23 2008
FILE NAME = c:\projects\p203298\d03298xsd.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dossdd

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

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



RAMP AD

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	JHBR-2	WINNEBAGO	171	160

STA. 2013+50.0000 TO STA. 2016+00.0000

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PLOT DATE = Thu Mar 13 15:19:27 2008
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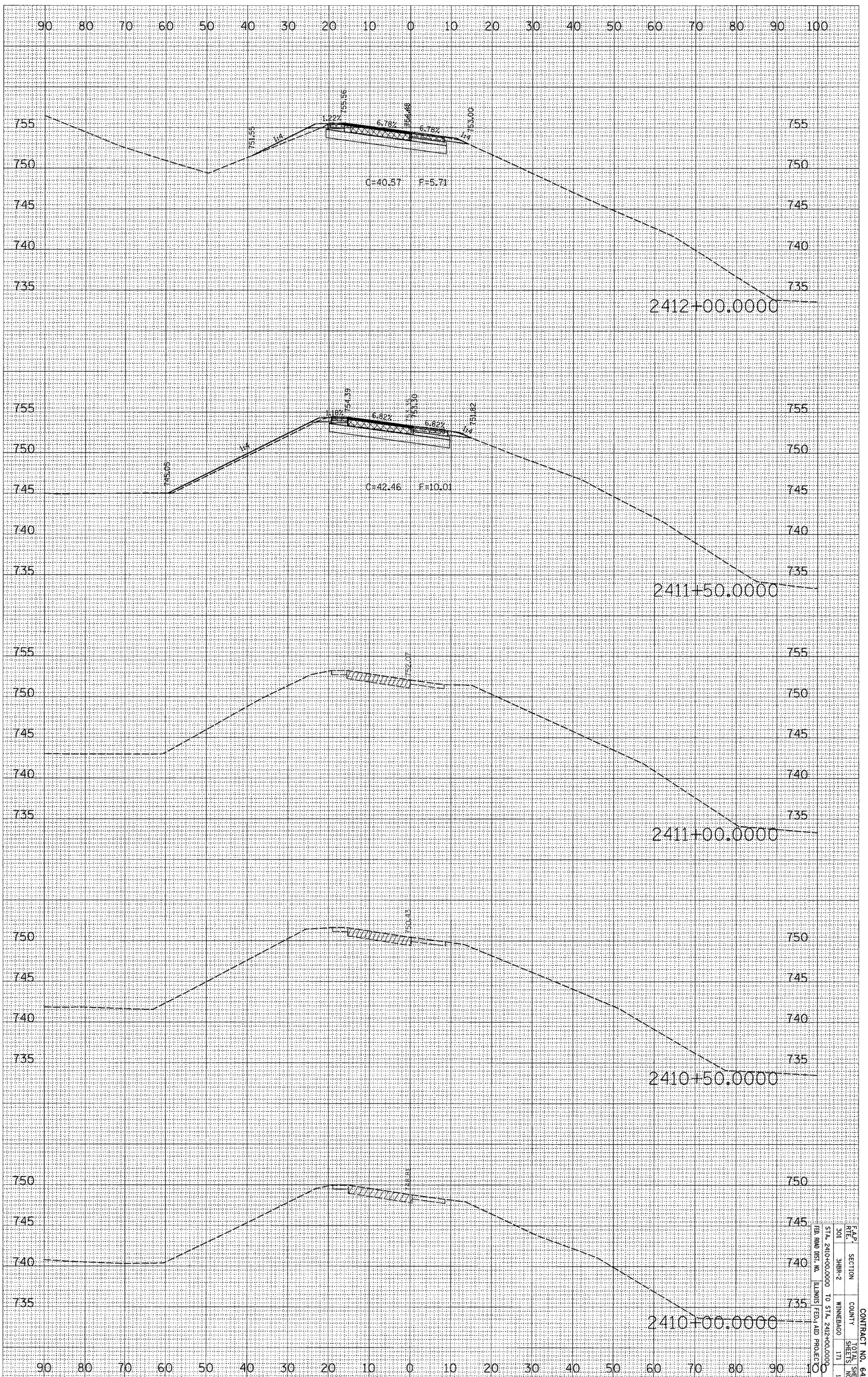
USER NAME = dosadd

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

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



RAMP AC

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	161

STA. 2410+00.0000 TO STA. 2412+00.0000

ILLINOIS FED. AID PROJECT

FED. ROAD DIST. NO.

PLOT DATE = Thu Mar 13 15:19:27 2008
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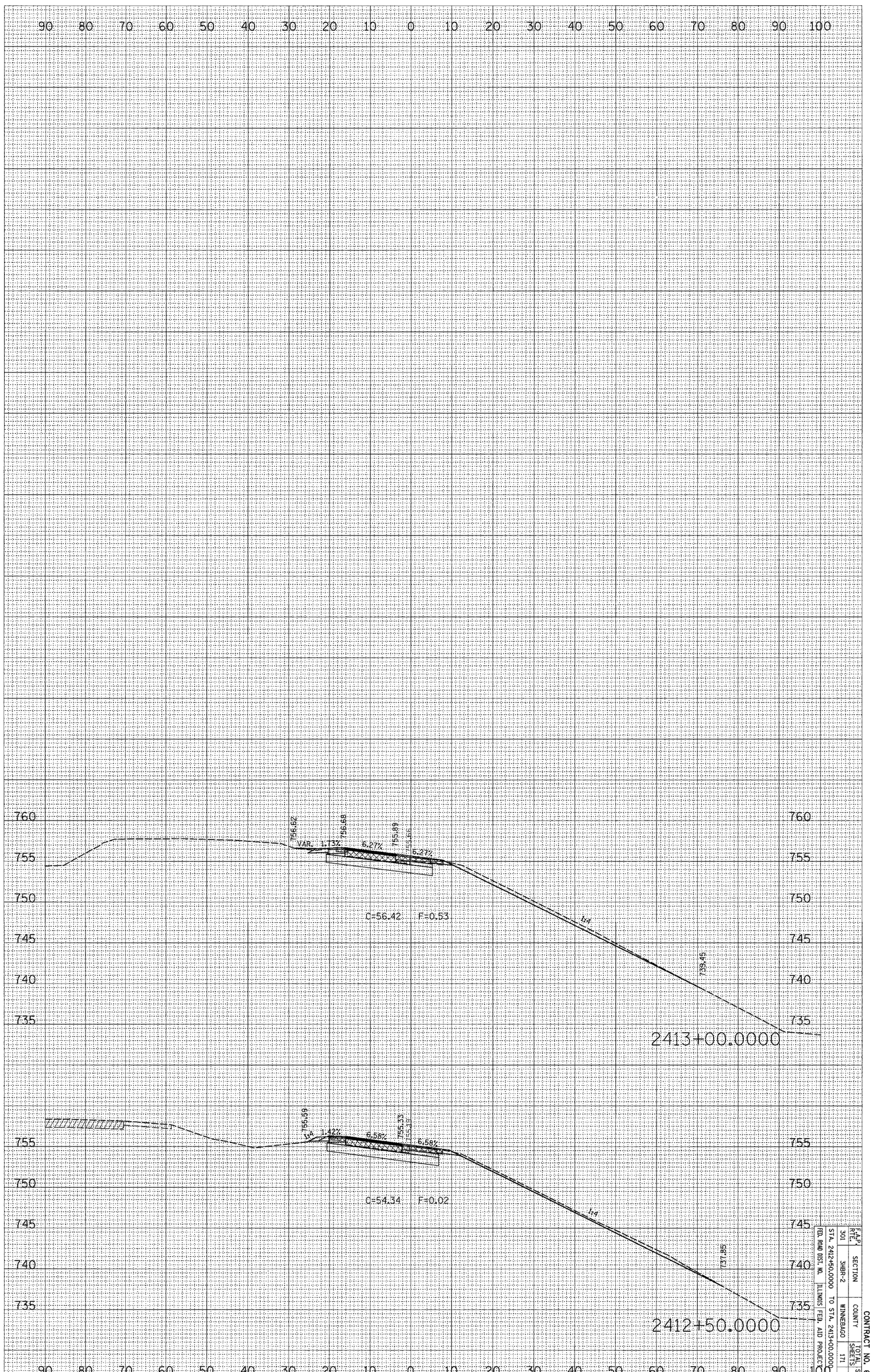
USER NAME = dosadd

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

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



RAMP AC

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
F.A.P. RTE.	301
SECTION	3HBR-2
COUNTY	WINNEBAGO
TOTAL SHEETS	171
SHEET NO.	162

STA. 2412+50.0000 TO STA. 2413+00.0000

CONTRACT NO. 64292

PLOT DATE = Thu Mar 13 15:21:29 2008
FILE NAME = c:\projects\p203298\d03298xsecdgn
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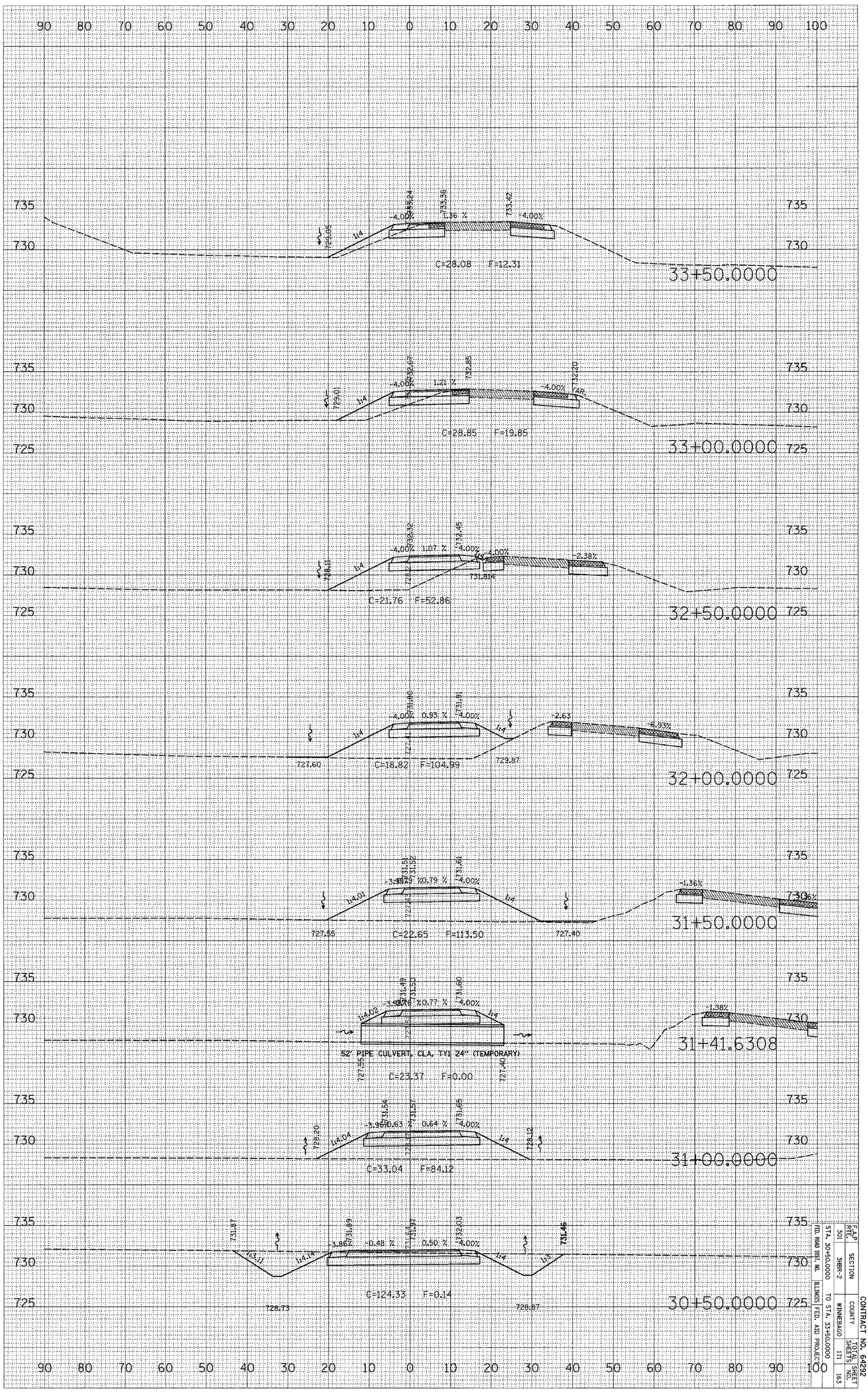
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



TEMPORARY RAMP AC

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	163

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 30+50.0000 TO STA. 33+50.0000

PLOT DATE = Thu Mar 13 15:21:38 2008
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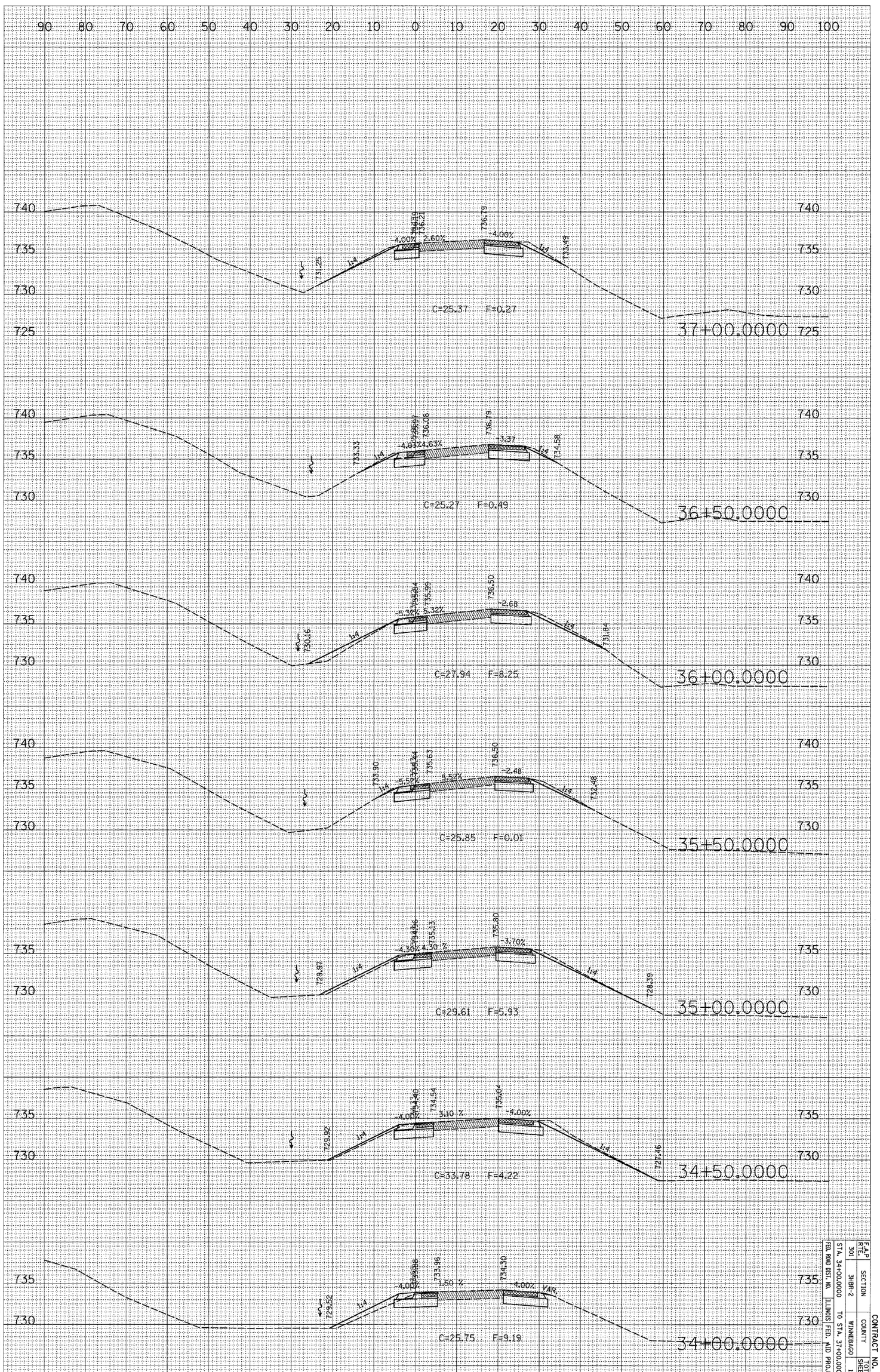
USER NAME = dossdd

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

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



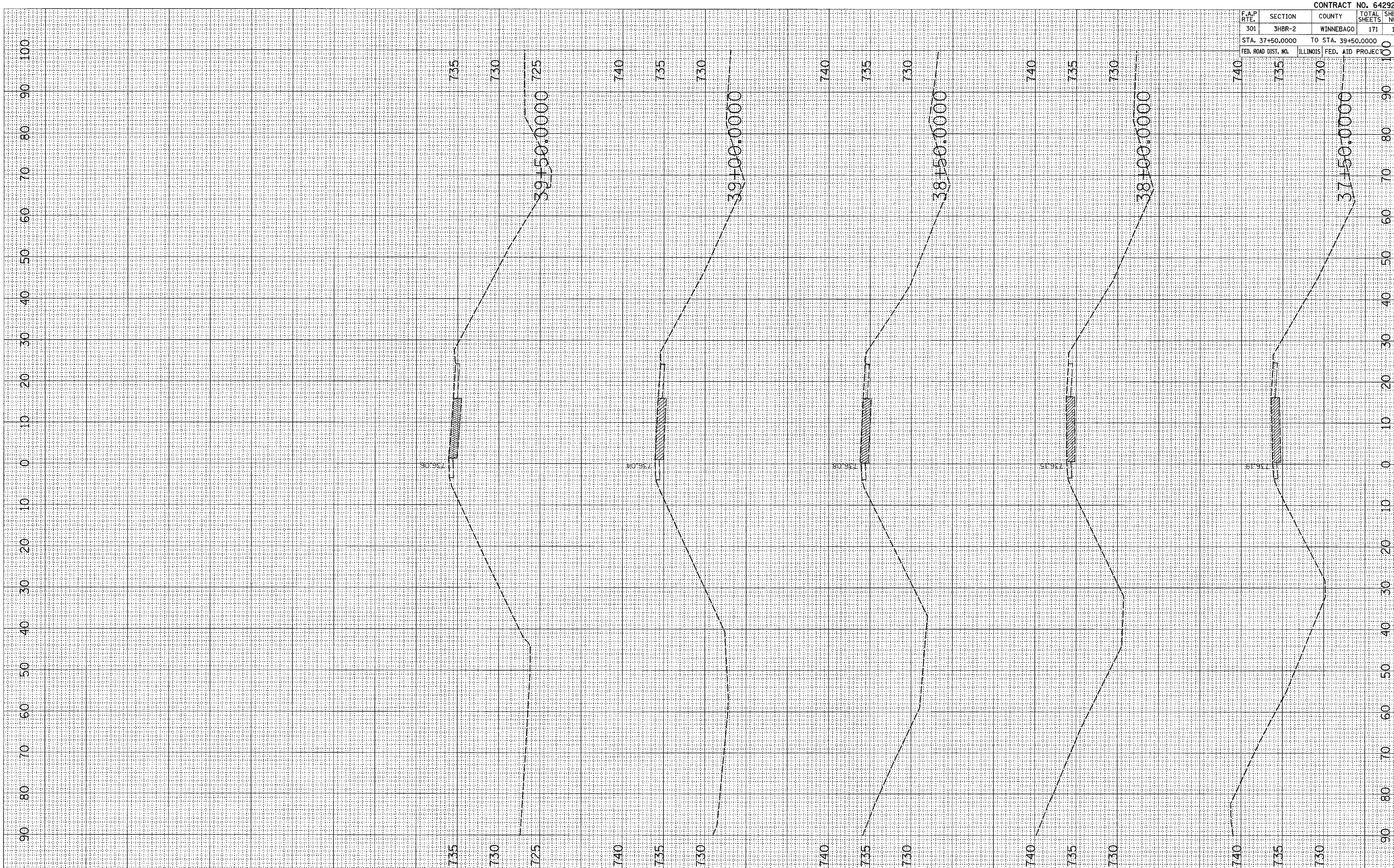
TEMPORARY RAMP AC

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	164
STA. 34+00.0000		TO STA. 37+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 64292

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	165
STA. 37+50.0000 TO STA. 39+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

PLOT DATE = Thu Mar 13 15:21:30 2008
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TEMPORARY RAMP AC

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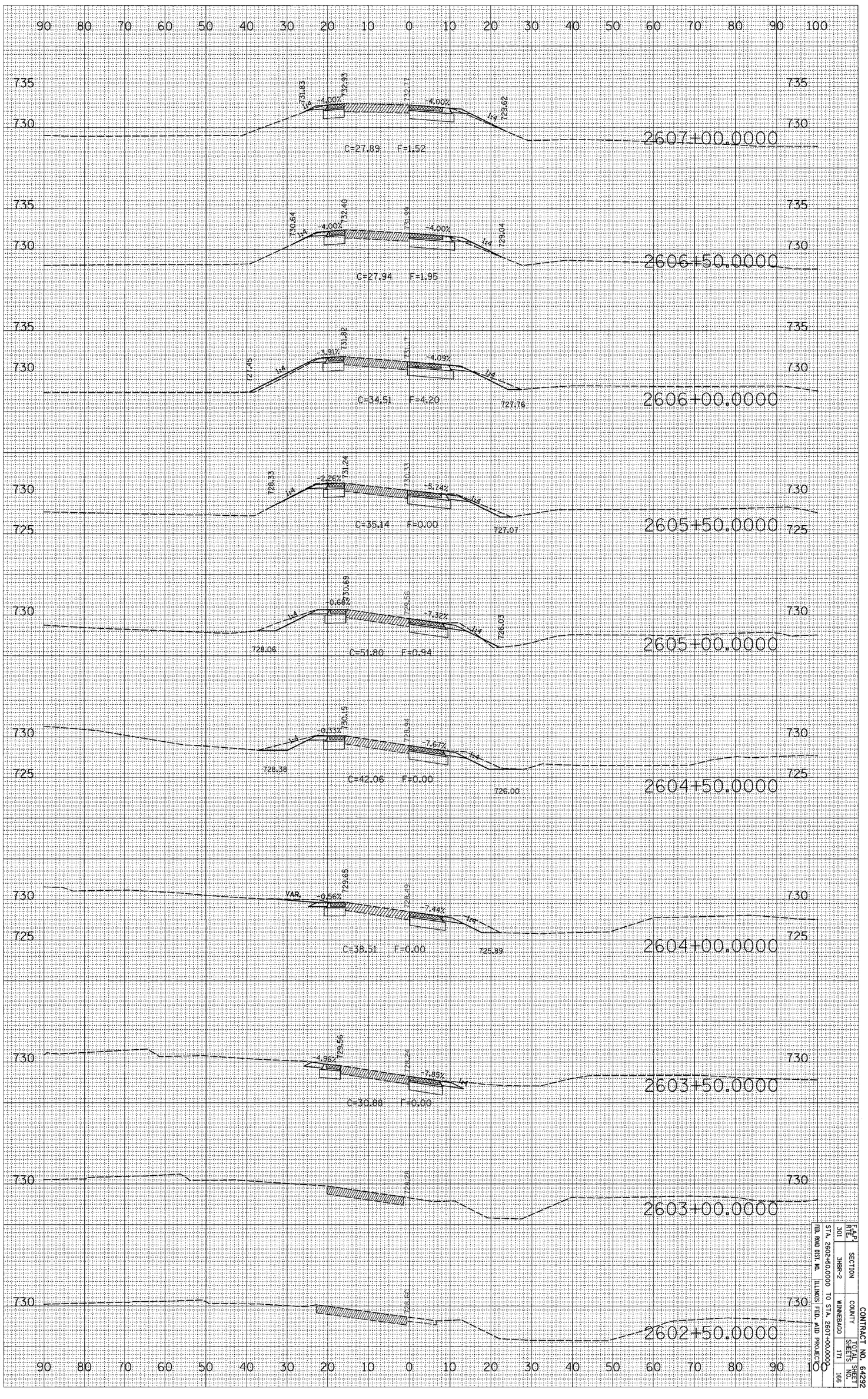
PLOT SCALE = 10.0000 ' / IN.
USER NAME = dosadd

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

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



RAMP BC

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	166

STA. 2602+50.0000 TO STA. 2607+00.0000
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PLOT DATE = Thu Mar 13 15:24:27 2008
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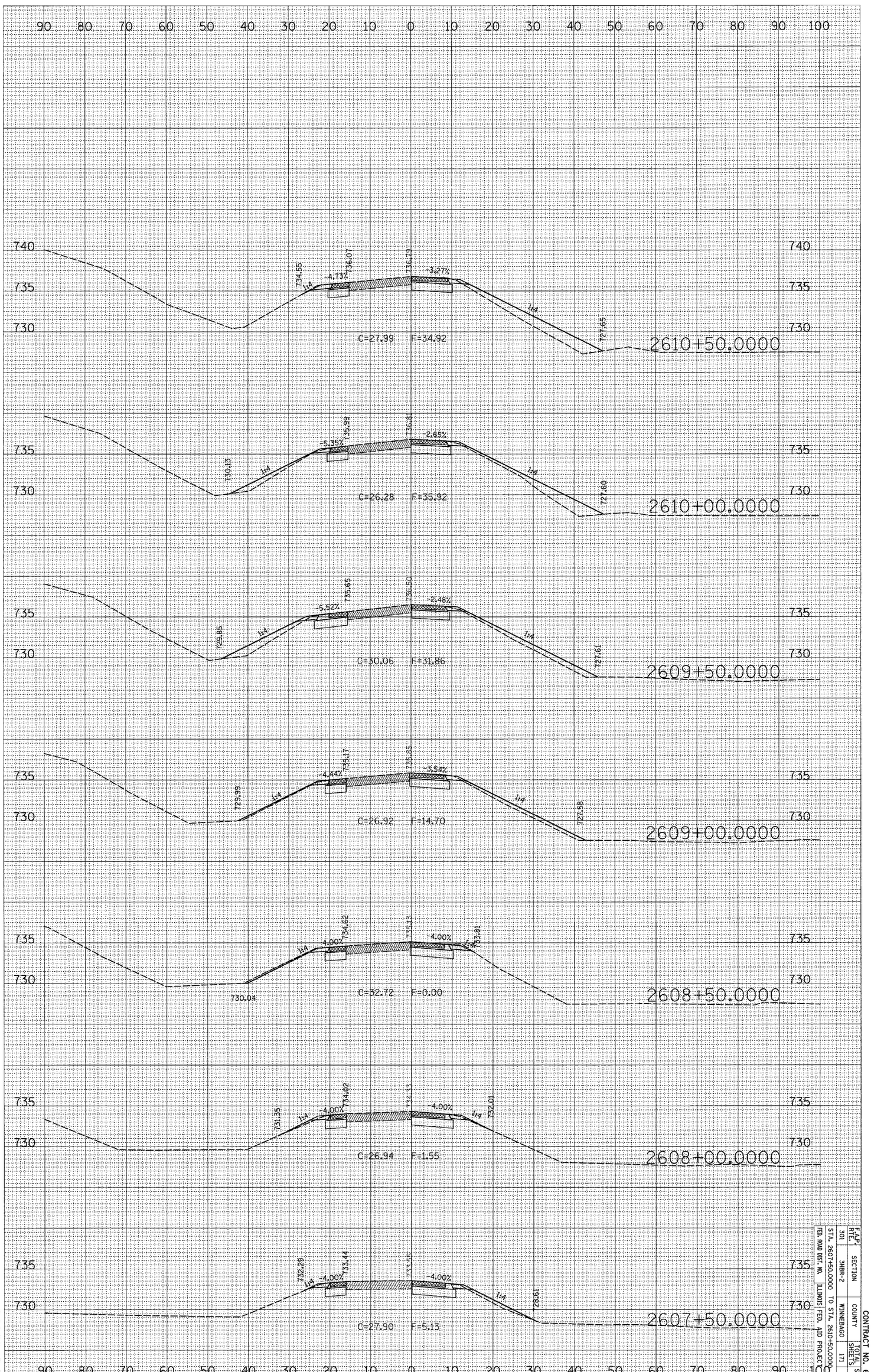
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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



RAMP BC

CONTRACT NO. 64292

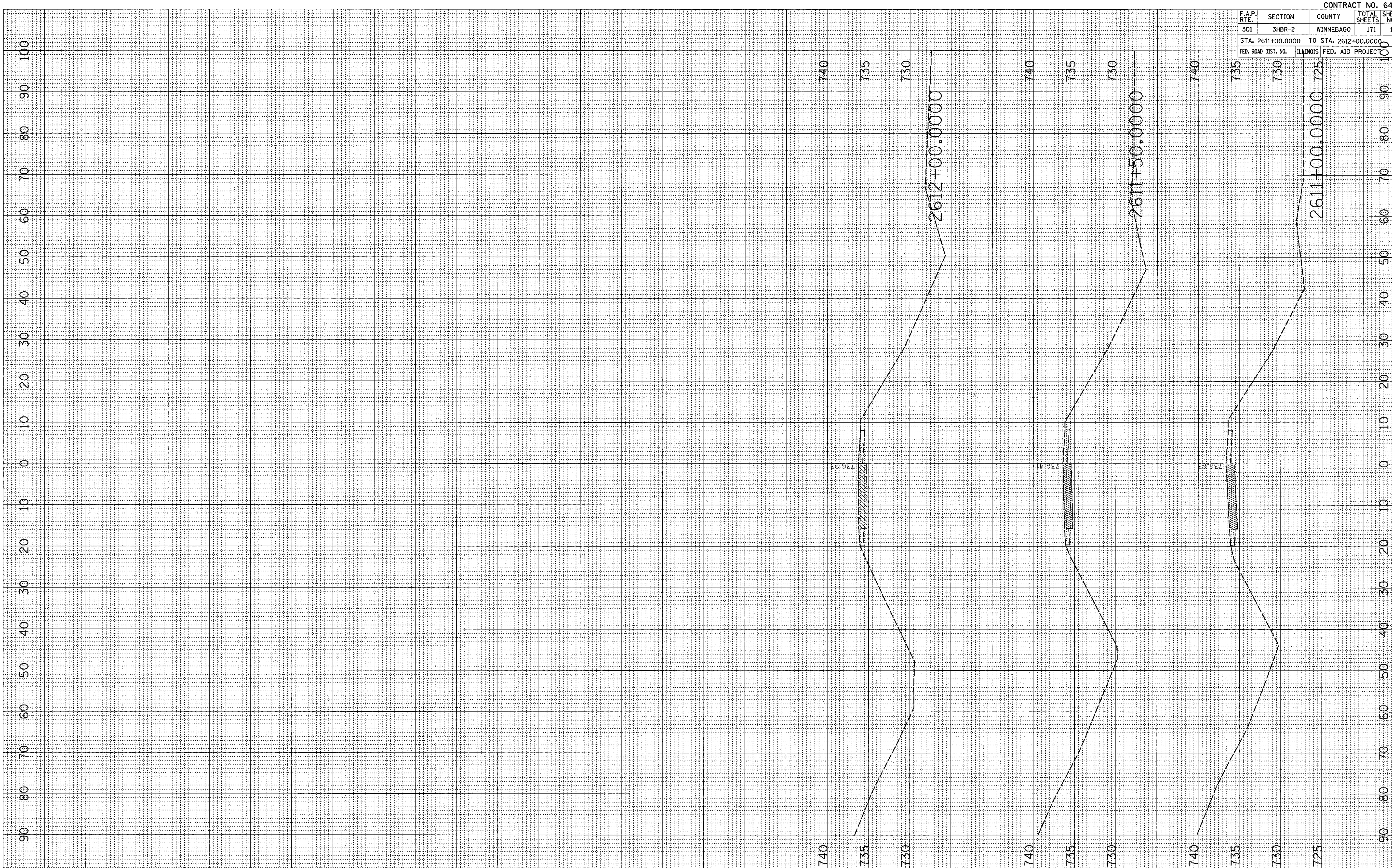
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	167

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 2607+50.0000 TO STA. 2610+50.0000

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	168
STA. 2611+00.0000 TO STA. 2612+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



RAMP BC

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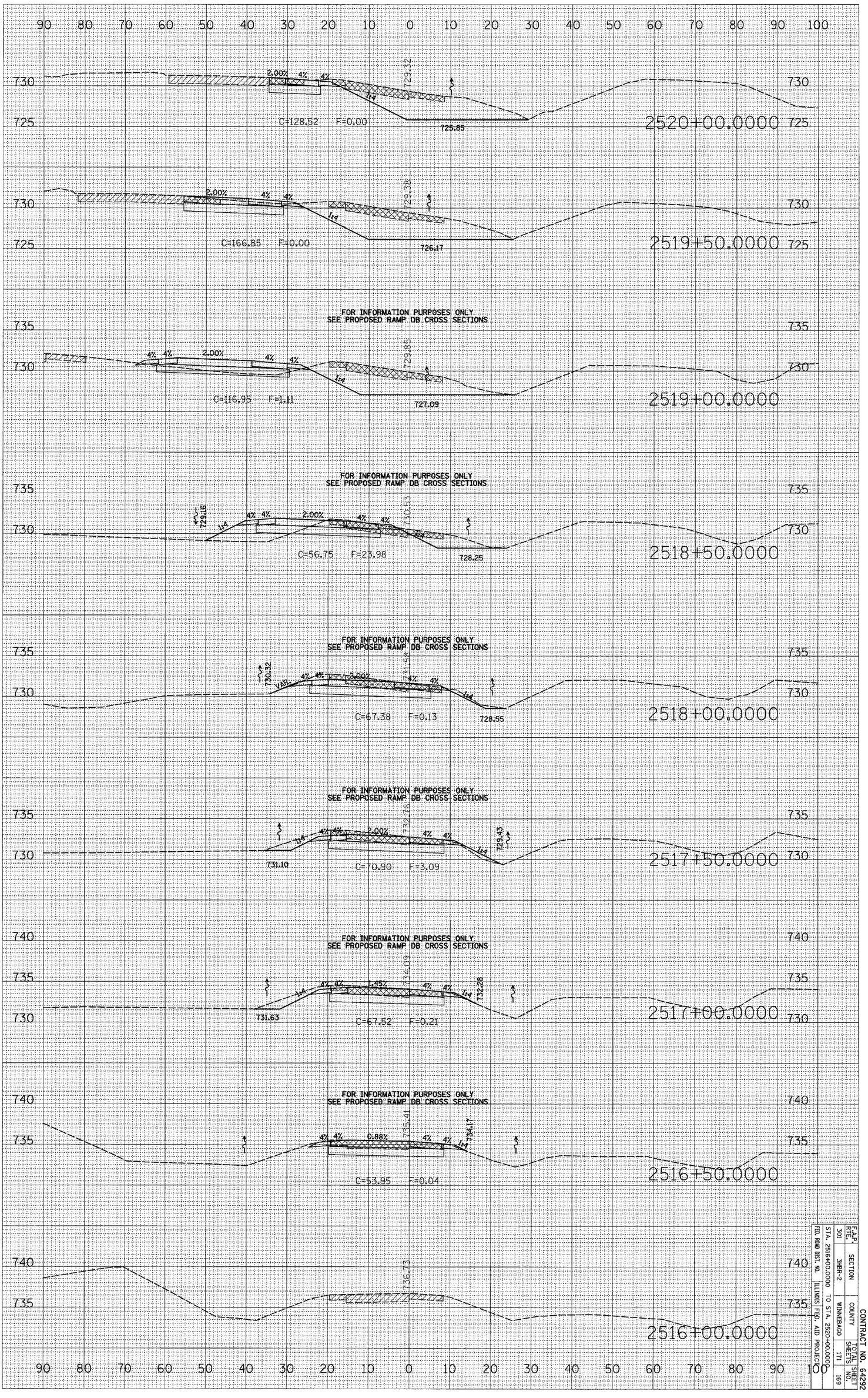
USER NAME = dossdd

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

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



RAMP DB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	169

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 2516+00.0000 TO STA. 2520+00.0000

CONTRACT NO. 64292

PLOT DATE = Thu Mar 13 15:26:39 2008
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ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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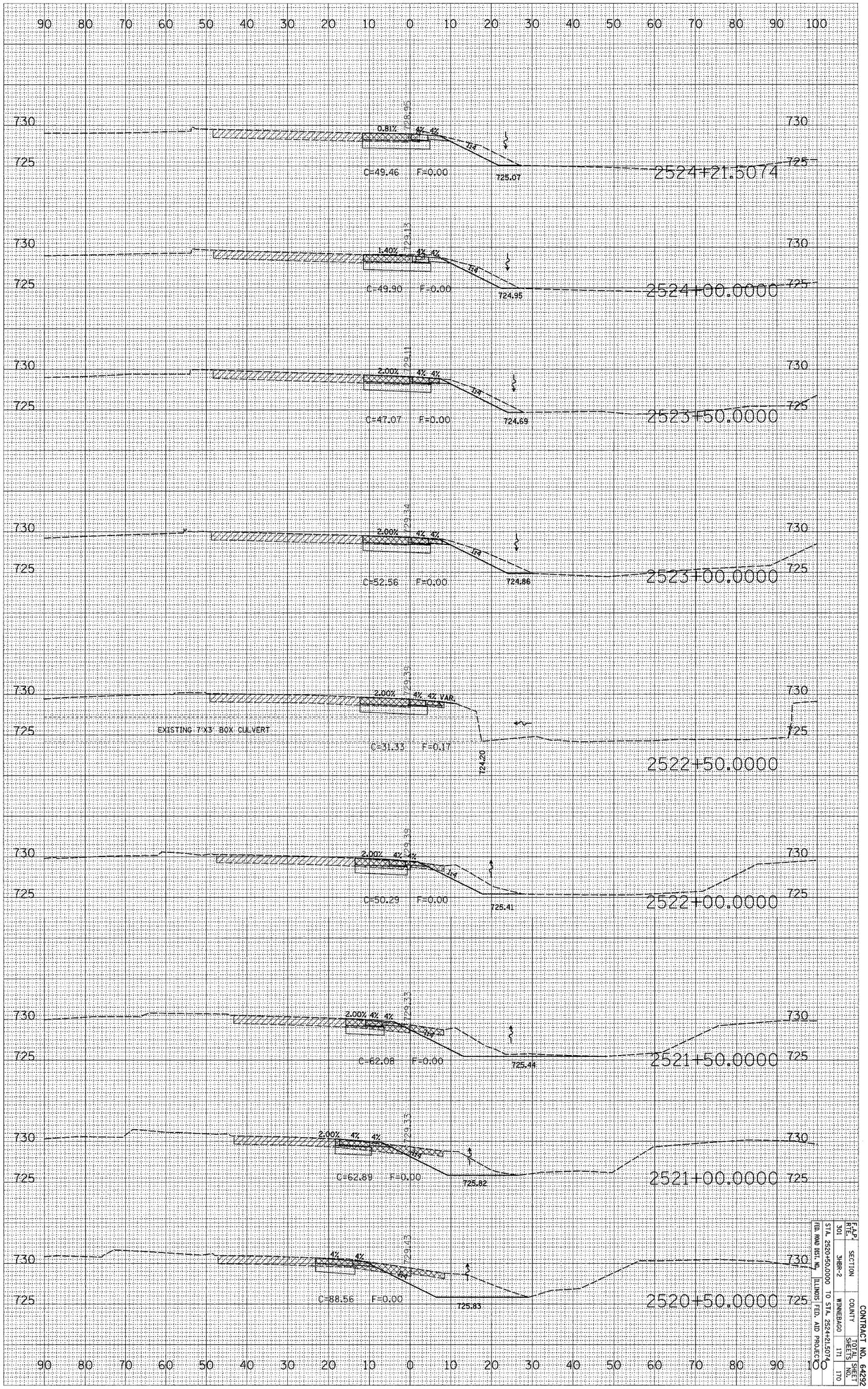
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		



RAMP DB

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	170

STA. 2520+50.000 TO STA. 2524+21.5074

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PLOT DATE = Thu Mar 13 15:27:48 2008
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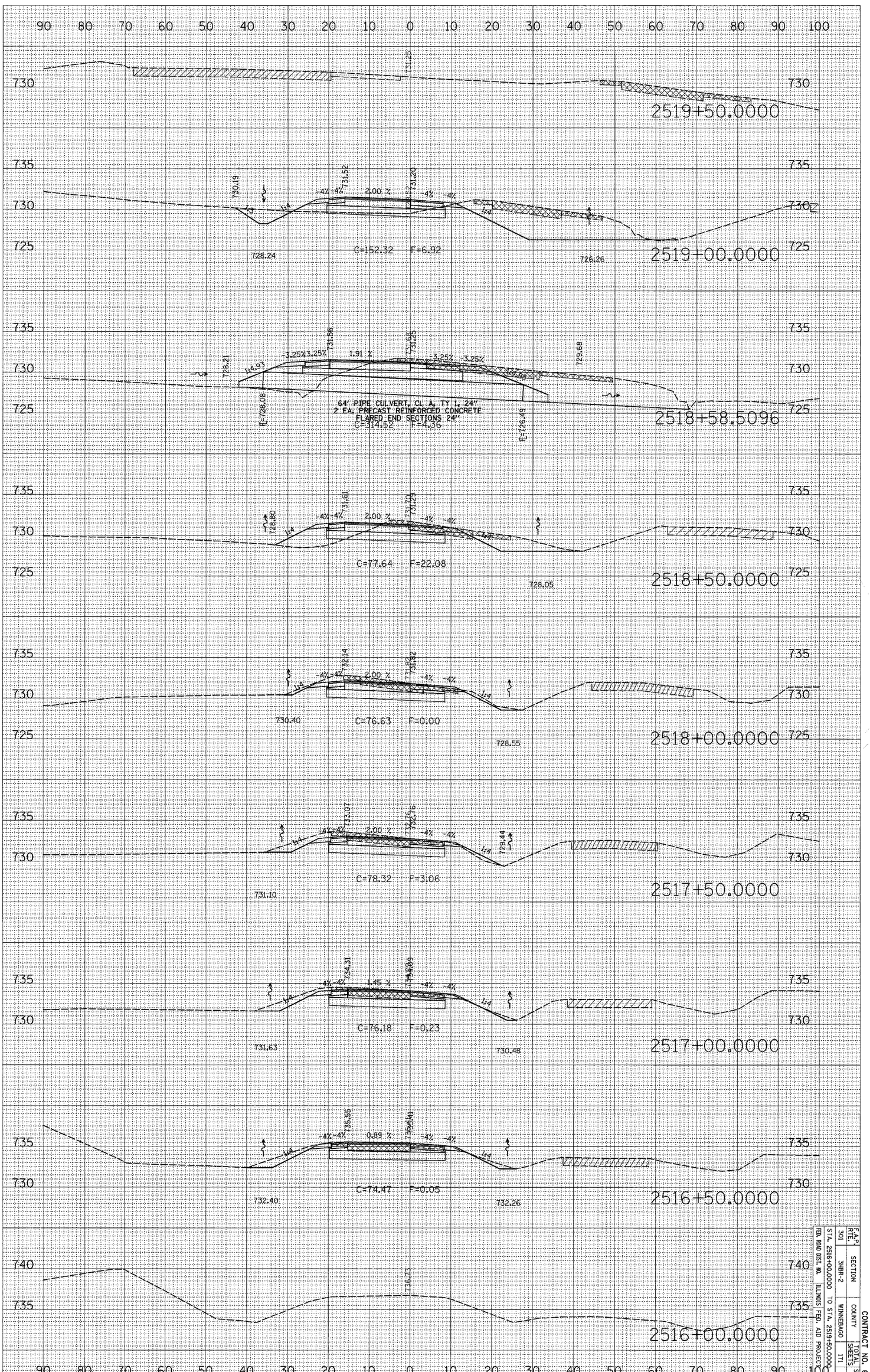
ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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



RAMP DB

CONTRACT NO. 64292

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3HBR-2	WINNEBAGO	171	171

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
STA. 2516+00.0000 TO STA. 2519+50.0000