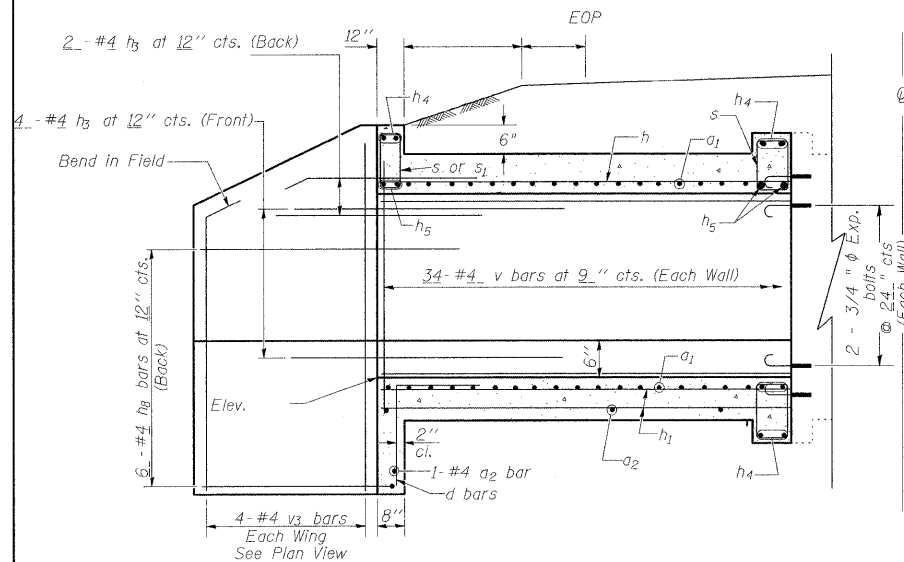
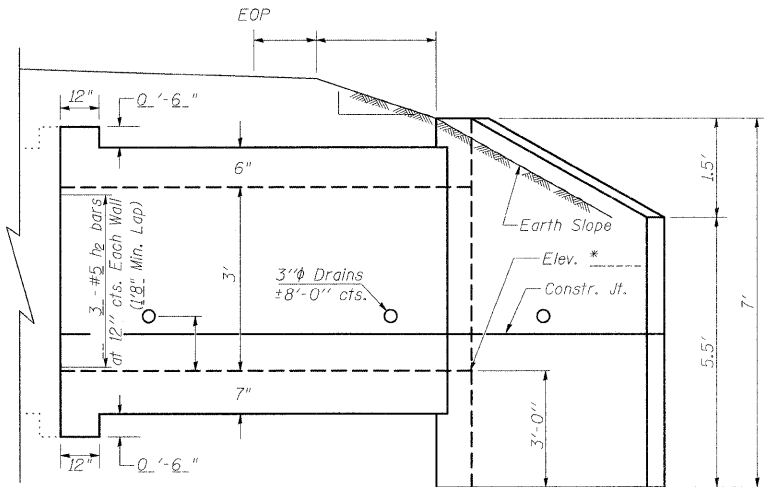


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

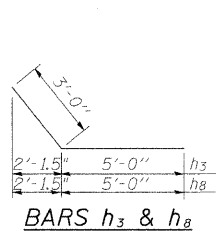


ELEVATION

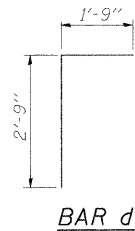
Dimensions at Rt. L's to Roadway



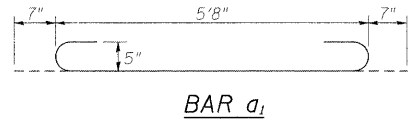
* USFL 450.20 (WB IL 13)



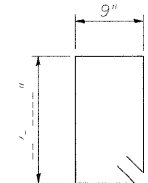
BARS h_3 & h_8



BAR d

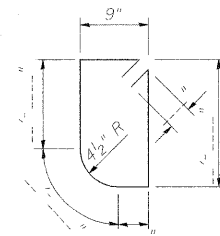


BAR a_1



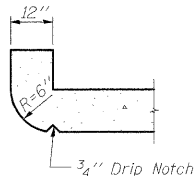
Bar s

(Downstream)



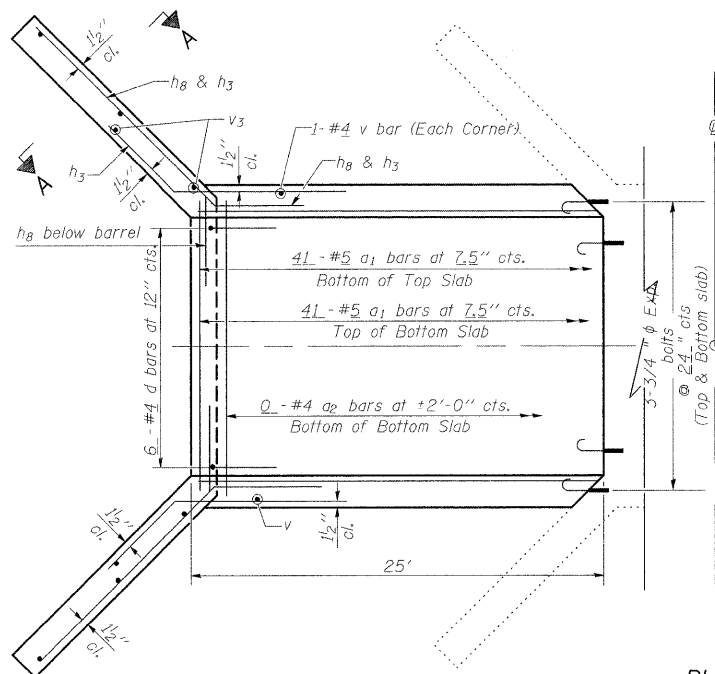
Bar s_1

(Upstream)

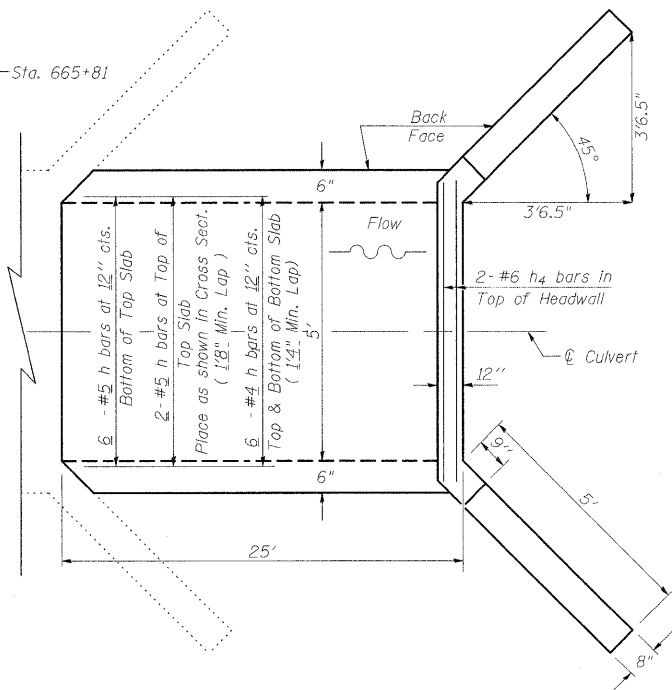


SECTION THRU HEADWALL

(Up Stream End Only)



PLAN



NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

All construction joints shall be bonded.

Expansion bolts shall be 3/4" ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

DESIGN STRESSES

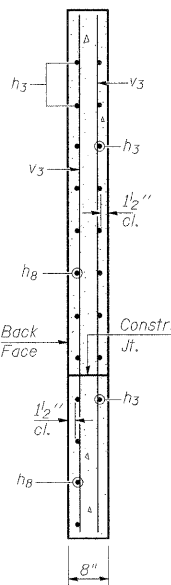
$f_y = 60,000$ psi

$f'_c = 3,500$ psi

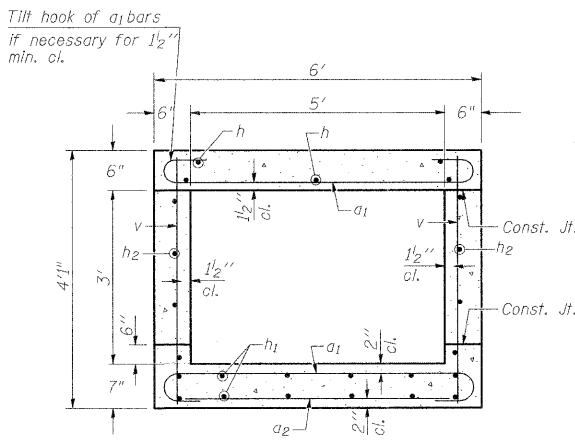
LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	82	#5	6'-10"	U
a_2	0	#4		
d	6	#4	4'-6"	L
h_1	8	#5	24'-9"	
h_2	12	#4	24'-9"	
h_3	6	#5	24'-9"	
h_4	12	#4	8'-0"	
h_5	6	#6	5'-9"	
h_6	4	#5	5'-9"	
h_7	12	#4	8'-0"	
s	0	#4		
s_1	0	#4		
v	70	#4	3'-9"	
v_3	8	#4	6'-9"	
Concrete Box Culverts				Cu. Yd. 11
Reinforcement Bars				Pound 1580
3/4" Expansion bolts				Each 10



SECTION A-A



SECTION THRU BARREL

REVISIONS

DRAWN	2-04
REVISED	5-09 SHT CELL
REVISED	
REVISED	

BASED ON: SSB-H-0 6-1-2000

FILE NAME = c:\pwork\pwork\shepardgd\dms47330\Fed

USER NAME = shepardgd

PLOT SCALE = 50.0000' / 1"

PLOT DATE = 10/14/2009

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION STATION 665+81 LT

5' X 3', SKEW 0° EXTEND 25'-0"

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 331

SECTION (1-2)N-2,R(1X-1)N-3,R-2

COUNTY WILLIAMSON

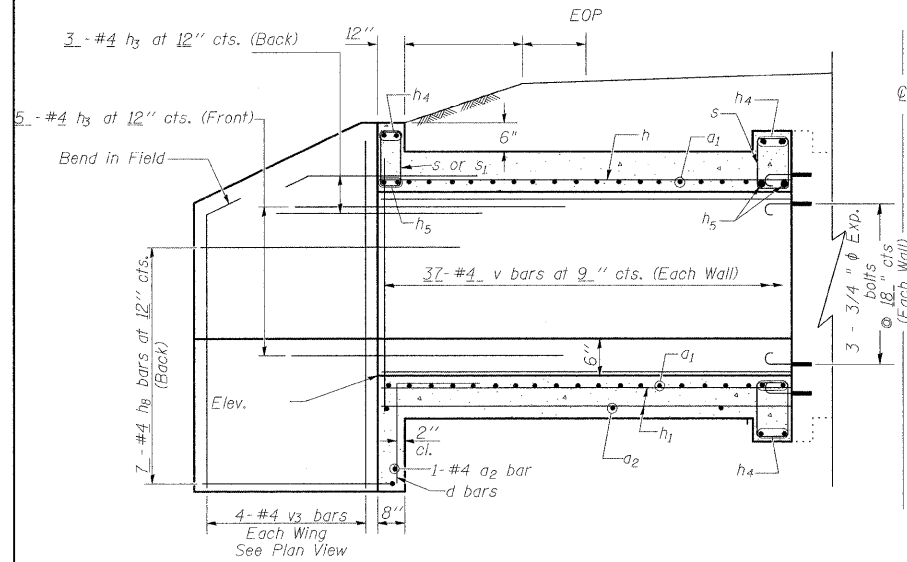
TOTAL SHEETS 202

SHEET NO. 101

CONTRACT NO. 98857

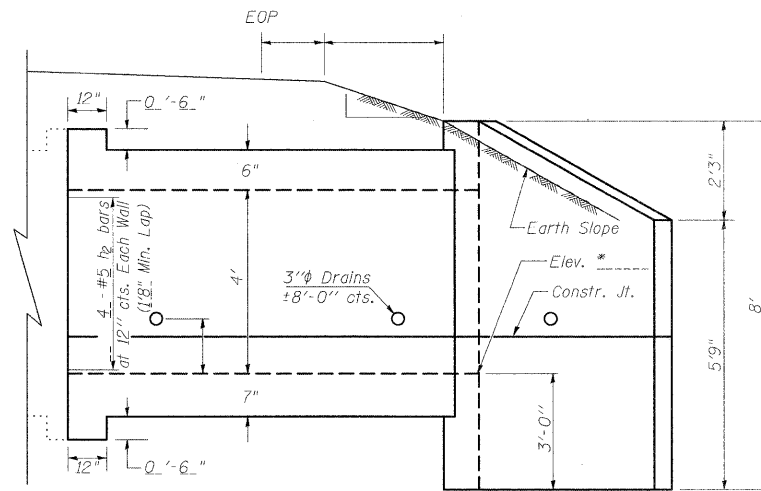
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

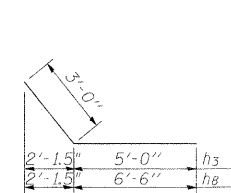


ELEVATION

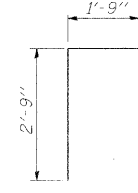
Dimensions at Rt. L's to $\odot$ Roadway



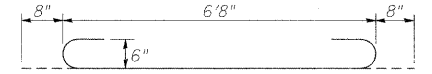
* DSFL 449.51 (EB IL 13)



BARS h_3 & h_8



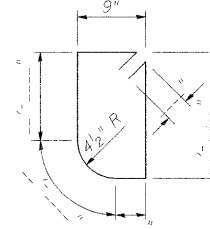
BAR d



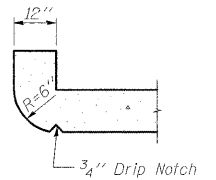
BAR a_1



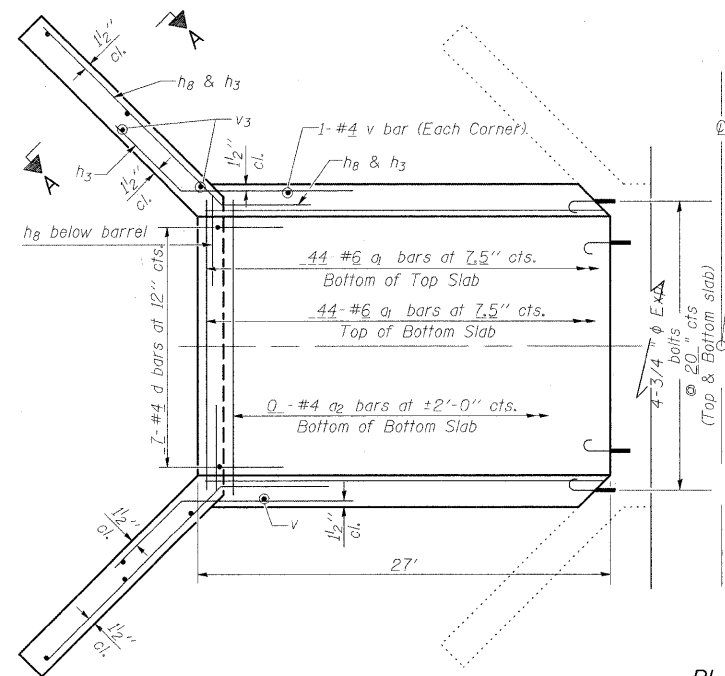
Bar s
(Downstream)



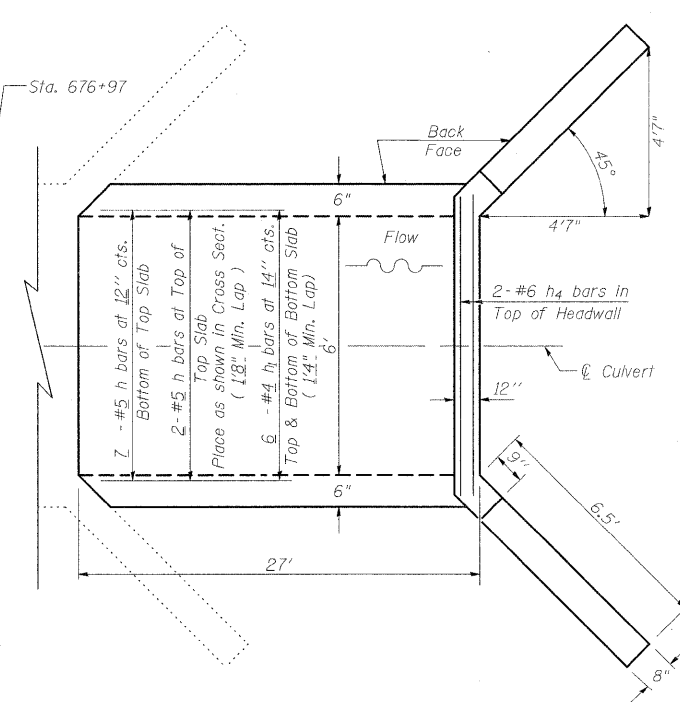
Bar s_1
(Upstream)



SECTION THRU HEADWALL
(Up Stream End Only)



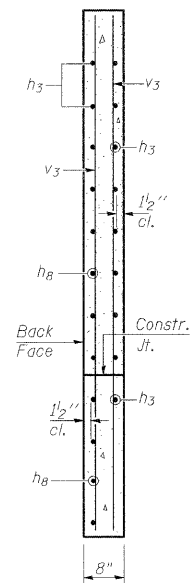
PLAN



NOTES

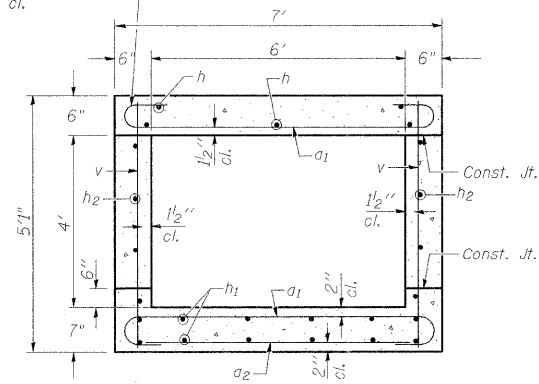
All construction joints shall be bonded.

Expansion bolts shall be $\frac{3}{4}$ " ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.



SECTION A-A

Tilt hook of a_1 bars
if necessary for $1\frac{1}{2}''$
min. cl.



SECTION THRU BARREL

DESIGN STRESSES

$$f_y = 60,000 \text{ psi}$$
$$f'_c = 3,500 \text{ psi}$$

LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	88	#6	8'-0"	
a_2	0	#4		
d	7	#4	4'-6"	
h	9	#5	26'-9"	
h_1	12	#4	26'-9"	
h_2	8	#5	26'-9"	
h_3	16	#4	8'-0"	
h_4	6	#6	6'-9"	
h_5	4	#6	6'-9"	
h_8	14	#4	9'-6"	
s	0	#4		
s_1	0	#4		
v	76	#4	4'-9"	
v_3	8	#4	7'-9"	
Concrete Box Culverts			Cu. Yd.	14.4
Reinforcement Bars			Pound	2330
J_3 Expansion bolts			Each	14

REVISIONS

DRAWN	<u>2-04</u>
REVISED	5-09 SHT CELL
REVISED	
REVISED	

BASED ON: **SSB-H-0** 6-1-2000

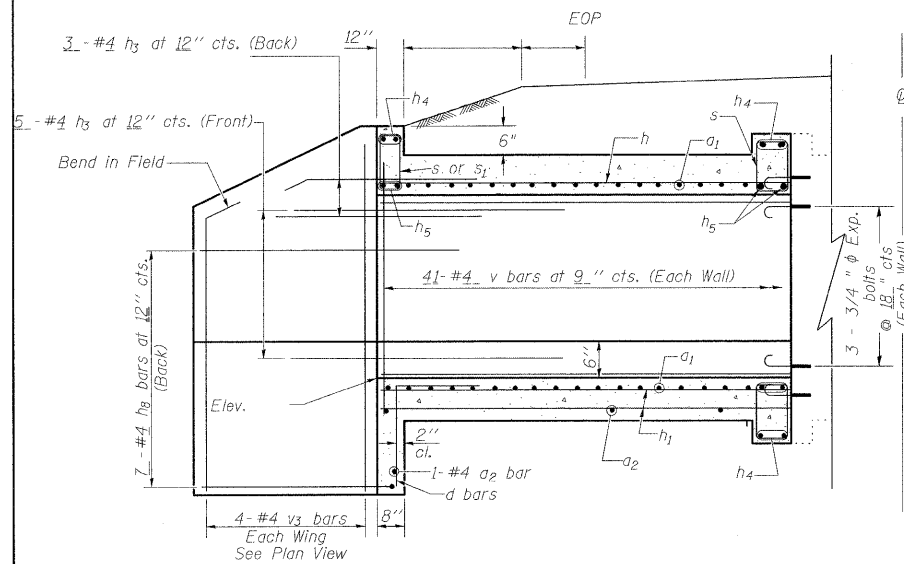
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

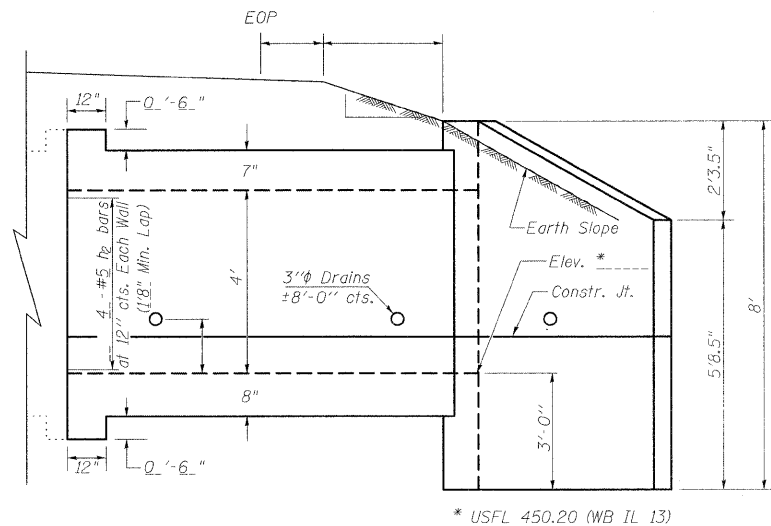
FILE NAME =	USER NAME = shepardgd	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT EXTENSION STATION 676+97-RT___	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cs:\pw\work\pwidot\shepardgd\dms47330\fa	dstm13-sht-culvert.dgn	DRAWN - ___	REVISED - ___		6' X 4', SKEW 0° EXTEND 27'-0"	331	(1-2)-N,2,R;(1X-1)-N-3,R-2	WILLIAMSON	202	102	
PLOT SCALE = 58.0000' / IN.	CHECKED - ___	REVISED - ___	REVISED - ___		SCALE: _____	SHEET NO. __ OF __ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT			
PLOT DATE = 10/14/2009	DATE - _____	REVISED - _____	REVISED - _____		CONTRACT NO. 98857						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

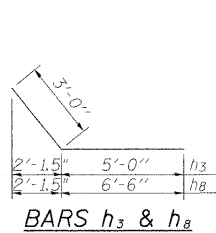


ELEVATION

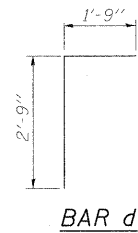
Dimensions at Rt. L's to R Roadway



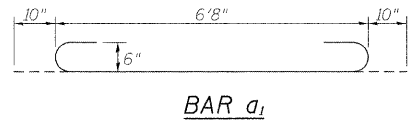
* USFL 450.20 (WB IL 13)



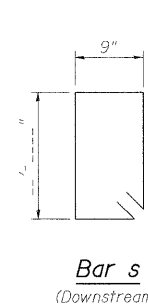
BARS h_3 & h_4



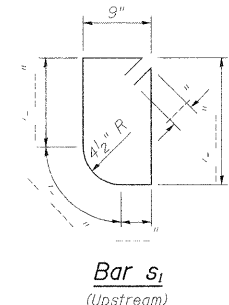
BAR d



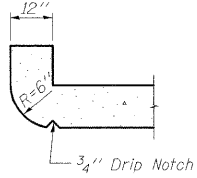
BAR a_1



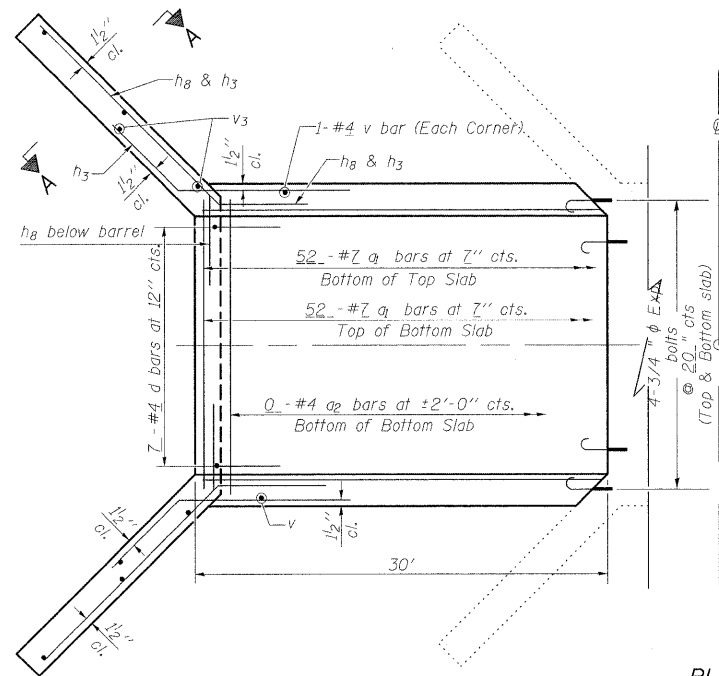
Bar s
(Downstream)



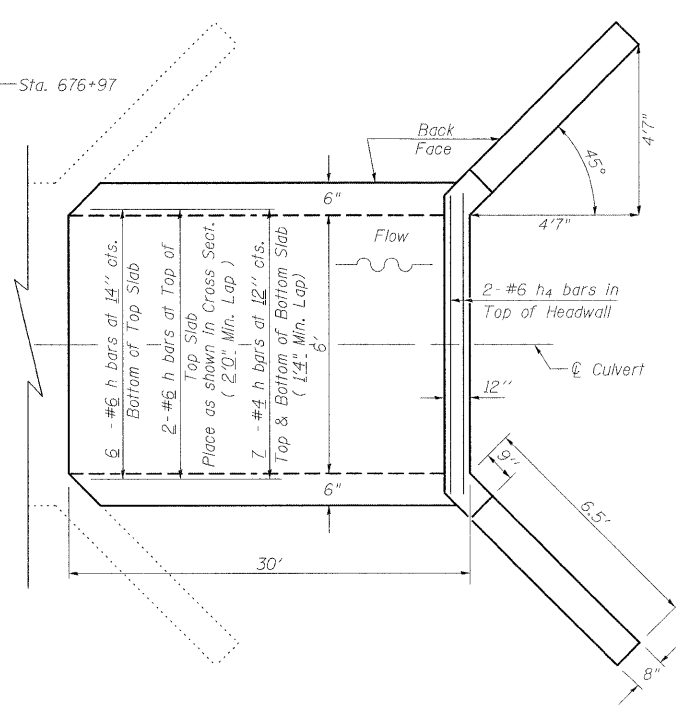
Bar s_1
(Upstream)



SECTION THRU HEADWALL
(Up Stream End Only)



PLAN



NOTES

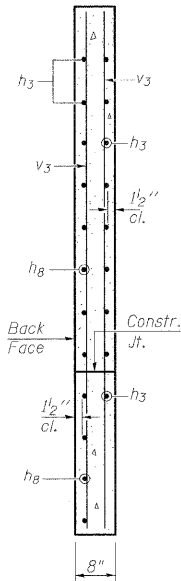
DESIGN STRESSES

$f_y = 60,000$ psi
 $f'_c = 3,500$ psi

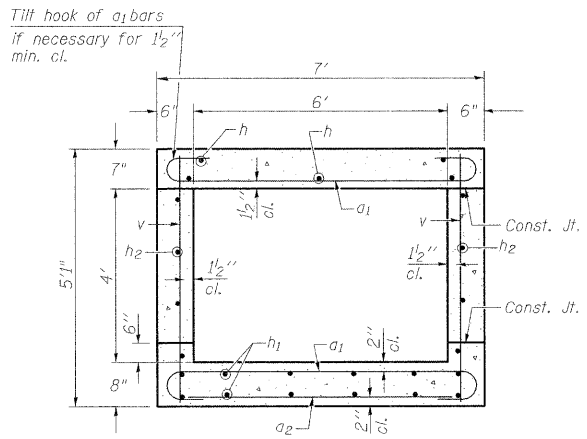
LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	104	#7	8'-4"	
a_2	0	#4		
d	7	#4	4'-6"	
h_1	8	#6	29'-9"	
h_2	14	#4	29'-9"	
h_3	8	#5	29'-9"	
h_4	16	#4	8'-0"	
h_5	6	#6	6'-9"	
h_6	4	#6	6'-9"	
h_7	14	#4	9'-6"	
s	0	#4		
s_1	0	#4		
v	84	#4	4'-11"	
v_3	8	#4	7'-9"	
Concrete Box Culverts				Cu. Yd. 16.9
Reinforcement Bars				Pound 3270
3/4" Expansion bolts				Each 14



SECTION A-A



SECTION THRU BARREL

REVISIONS

DRAWN	2-04
REVISED	5-09
REVISED	SHT CELL
REVISED	

BASED ON: SSB-H-0 6-1-2000

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

All construction joints shall be bonded.
Expansion bolts shall be 3/4" ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

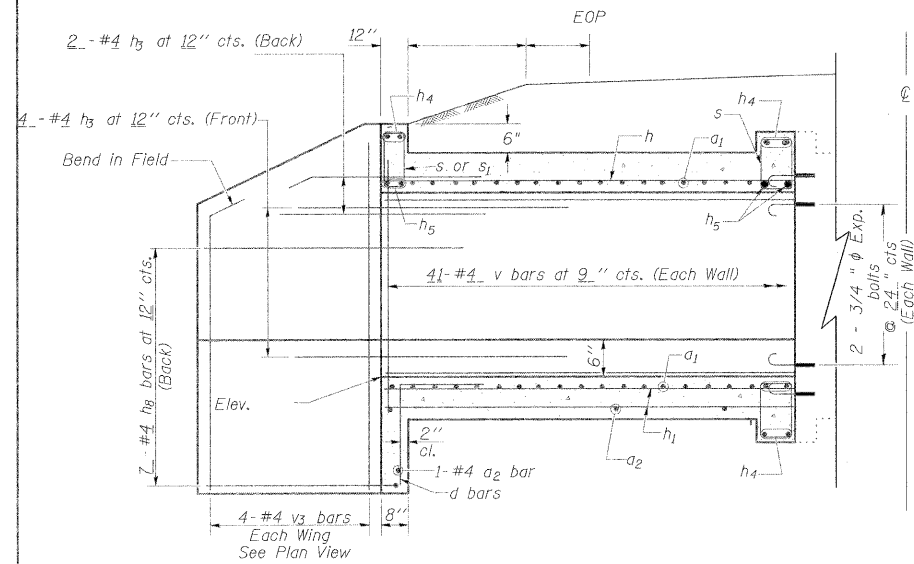
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION STATION 676+97 LI...
6' X 4', SKEW 0° EXTEND 30'-0"

SCALE: SHEET NO. OF SHEETS STA. TO STA.

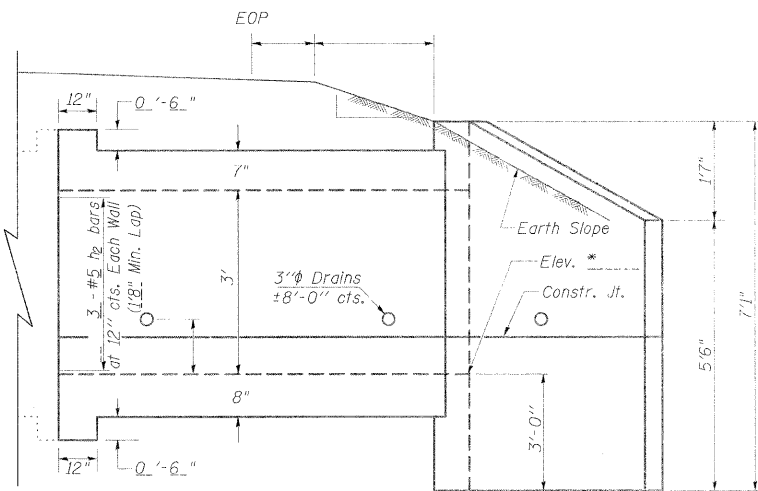
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-2)N-2,R(1X-1)N-3,R-2	WILLIAMSON	202	103
CONTRACT NO. 98857				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

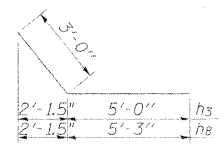


ELEVATION

Dimensions at Rt. L's to C Roadway



* DSFL 440.67 (EB IL 13)



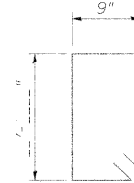
BARS h_3 & h_8



BAR d

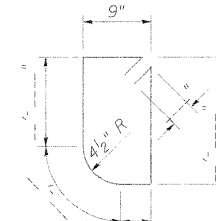


BAR a_1



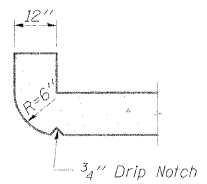
Bar s

(Downstream)



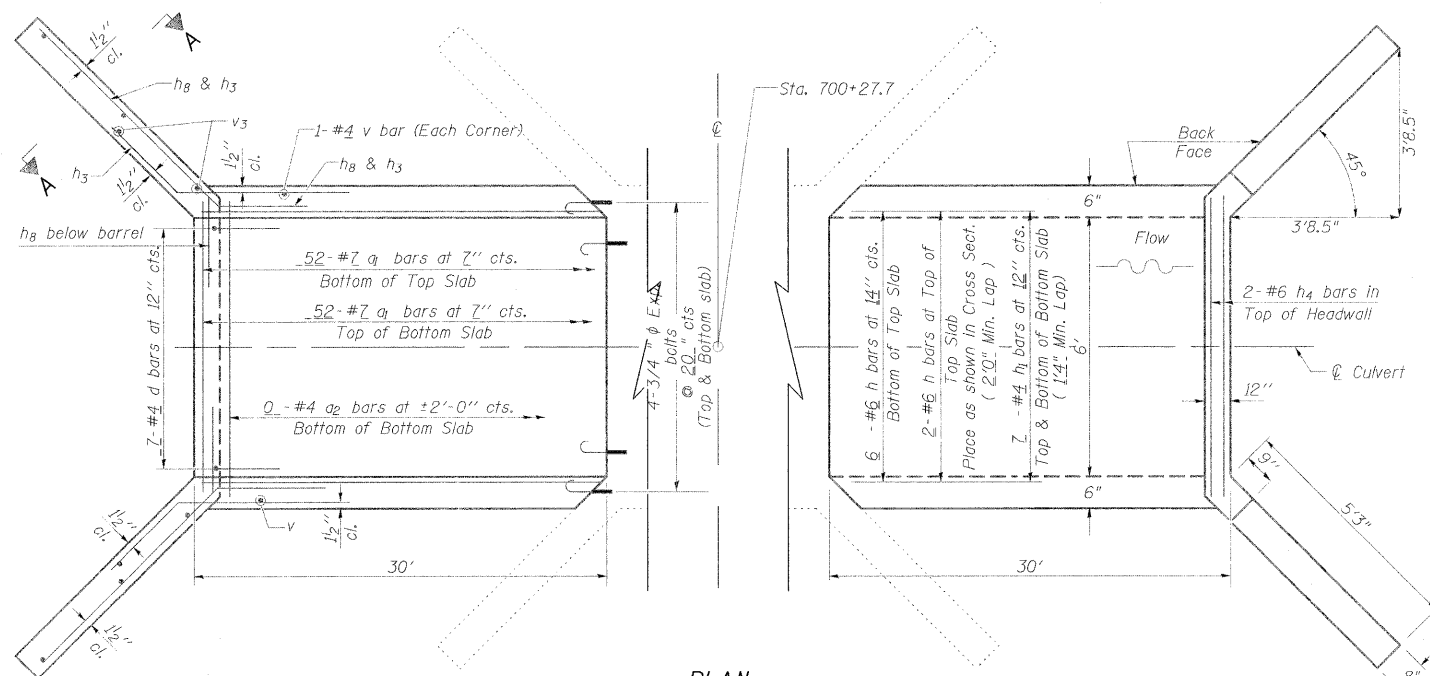
Bar s_i

(Upstream)



SECTION THRU HEADWALL

(Up Stream End Only)

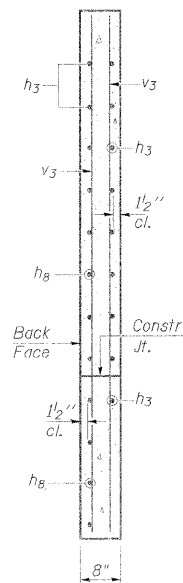


PLAN

NOTES

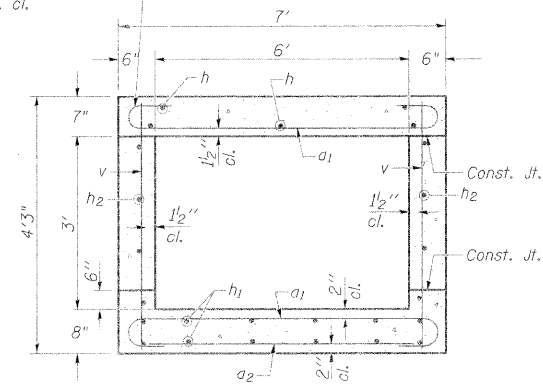
All construction joints shall be bonded.

Expansion bolts shall be $\frac{3}{4}$ " ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.



SECTION A-A

Tilt hook of a_1 bars
if necessary for $1\frac{1}{2}$
min. cl.



SECTION THRU BARREL

DESIGN STRESSES

 $f_y = 60,000 \text{ psi}$ $f'_c = 3,500 \text{ psi}$

LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	104	#7	8'-4"	
a ₂	0	#4		
d	7	#4	4'-6"	
h	8	#6	29'-9"	
h ₁	14	#4	29'-9"	
h ₂	6	#5	29'-9"	
h ₃	12	#4	8'-0"	
h ₄	6	#6	6'-9"	
h ₅	4	#7	6'-9"	
h ₆	14	#4	8'-3"	
s	0	#4		
s ₁	0	#4		
v	84	#4	3'-11"	
v ₃	8	#4	6'-10"	
Concrete Box Culverts			Cu. Yd.	15.3
Reinforcement Bars			Pound	3130
3/4" Expansion bolts			Each	12

REVISIONS

DRAWN	2-04
REVISED	5-09
REVISED	SHT CELL
REVISED	

BASED ON: *SSB-H-0* 6-1-2000

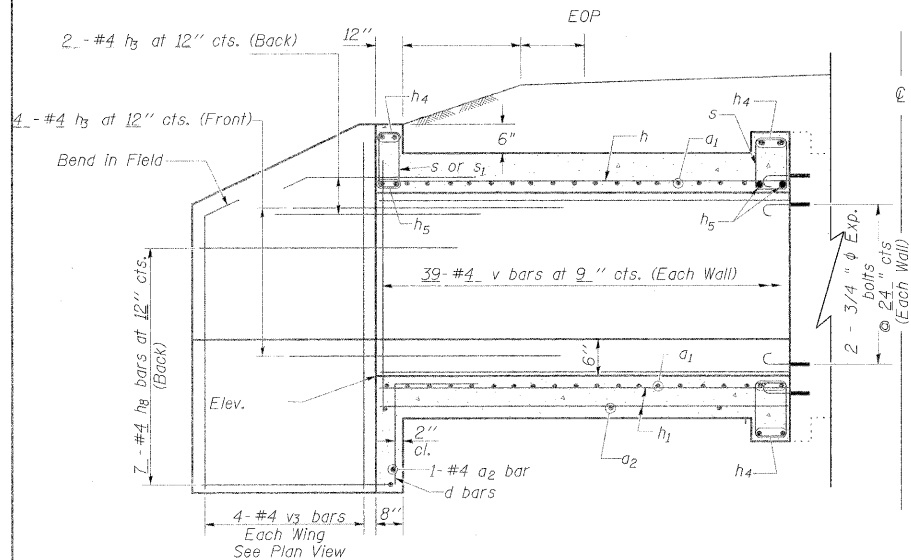
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

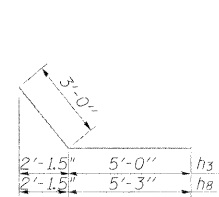
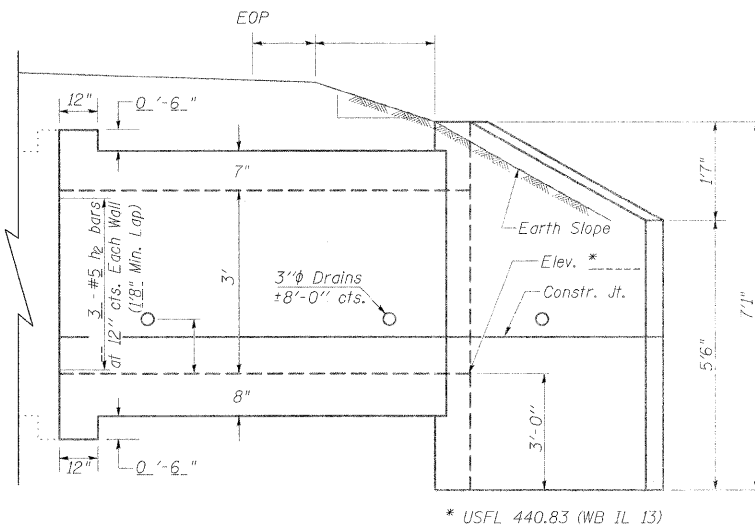
FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT EXTENSION STATION 700+27.7 RT 6' X 3', SKEW 0° EXTEND 30' - 0"	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwidot\shepardgd\docs4\336\redstml3-sht-culvert.dgn		DRAWN -	REVISED -			331	(1-2)N-2,R(1X-1)N-3,R-2	WILLIAMSON	202	104
PLOT SCALE = 50.000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 98857				
PLOT DATE = 10/14/2009		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

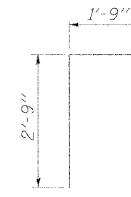


ELEVATION

Dimensions at Rt. L's to C Roadway



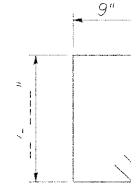
BARS h_3 & h_8



BAR C

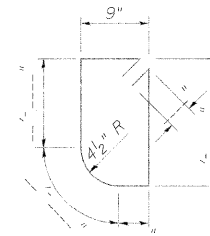


BAR a



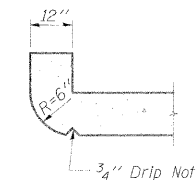
Bar s

(Downstream)



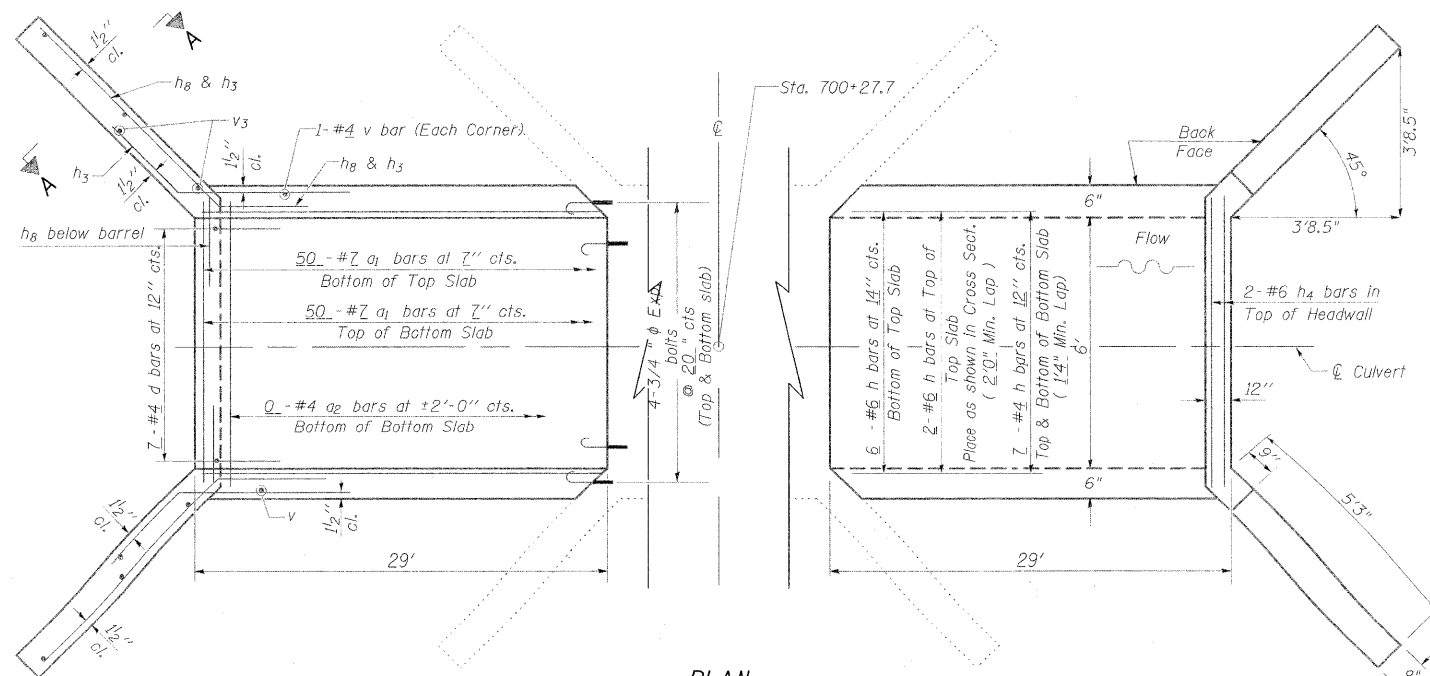
Bar s_i

(Upstream)



SECTION THRU HEADWALL

(Up Stream End Only)

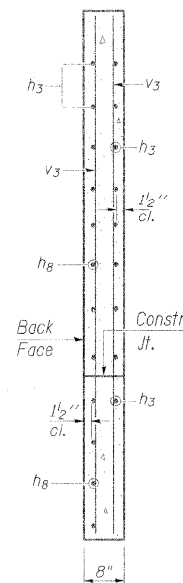


PLAN

NOTES

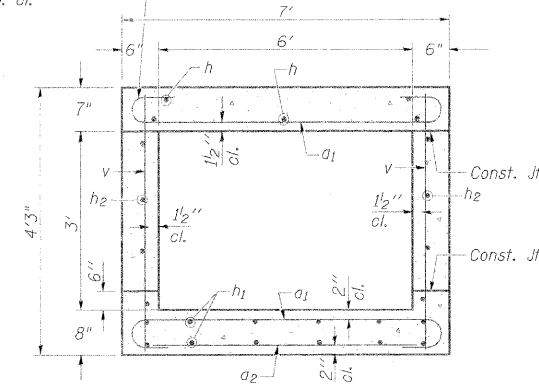
All construction joints shall be bonded.

Expansion bolts shall be $\frac{3}{4}$ " ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.



SECTION A-A

Tilt hook of a_1 bars
if necessary for $1\frac{1}{2}$ "
min. cl.



SECTION THRU BARREL

DESIGN STRESSES

$$f_Y = 60.000 \text{ p.s.}$$
$$f'c = 3,500 \text{ psi.}$$

LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₂	100	#7	8'-4"	
a ₂	0	#4		
d	7	#4	4'-6"	
h	8	#6	28'-9"	
h ₁	14	#4	28'-9"	
h ₂	6	#5	28'-9"	
h ₃	12	#4	8'-0"	
h ₄	6	#6	6'-9"	
h ₅	4	#7	6'-9"	
h ₆	14	#4	8'-3"	
s	0	#4		
s ₁	0	#4		
v	80	#4	3'-11"	
v ₃	8	#4	6'-10"	
Concrete Box Culverts			Cu. Yd.	14.2
Reinforcement Bars			Pound	30.3
¾" Expansion bolts			Each	18

REVISIONS

DRAWN	2-04
REVISED	5-09 SHT CELL
REVISED	
REVISED	

BASED ON: **SSB-H-0** 5-1-2000

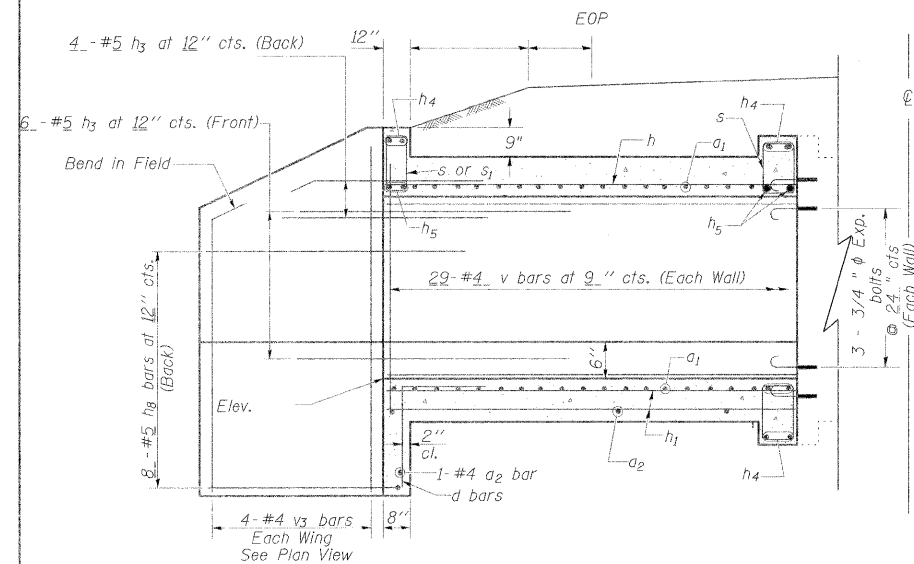
Reinforcement Bars shall conform to the requirements of AASHTO M-31 M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. Indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

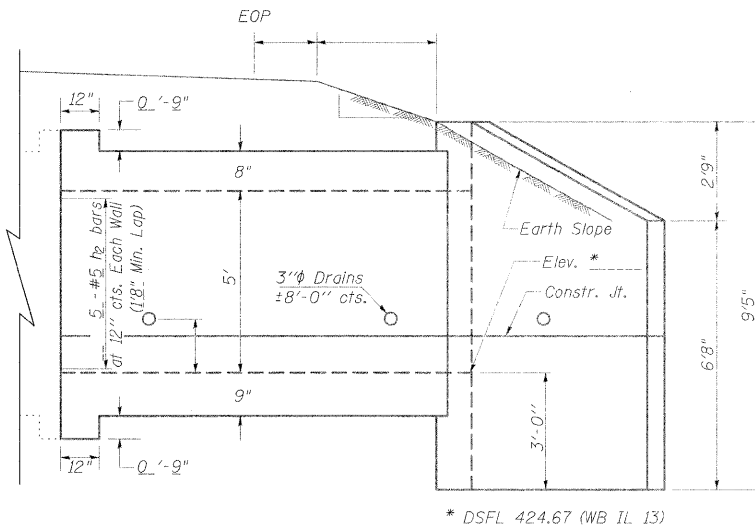
FILE NAME =	USER NAME = shepardg	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT EXTENSION STATION 700+27.7 LI---	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\XPWIDOT\SHEPARDG\dms47330\F	dms47330\m3-sh-t-culvert.dgn	DRAWN - ---	REVISED - ---		6' X 3', SKEW 0° EXTEND 29'-0"	331	(1-2IN-2,R)(1X-1N-3,R-2)	WILLIAMSON	202	105
PLOT SCALE = 50.0000' / IN.	CHECKED - ---	REVISED - ---	DATE - ---		SCALE: ----- SHEET NO. ___ OF ___ SHEETS STA. ----- TO STA. -----	CONTRACT NO. 98857				
PLOT DATE = 10/14/2003	DATE - ---	REVISED - ---	DATE - ---		ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

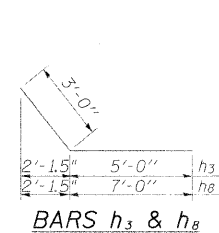


ELEVATION

Dimensions at Rt. L's to Roadway



* DSFL 424.67 (WB IL 13)



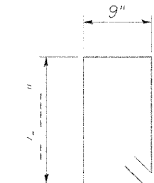
BARS h_3 & h_8



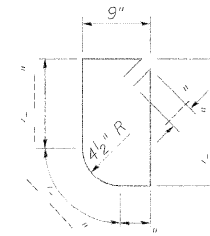
BAR d



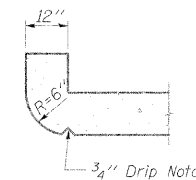
BAR a_1



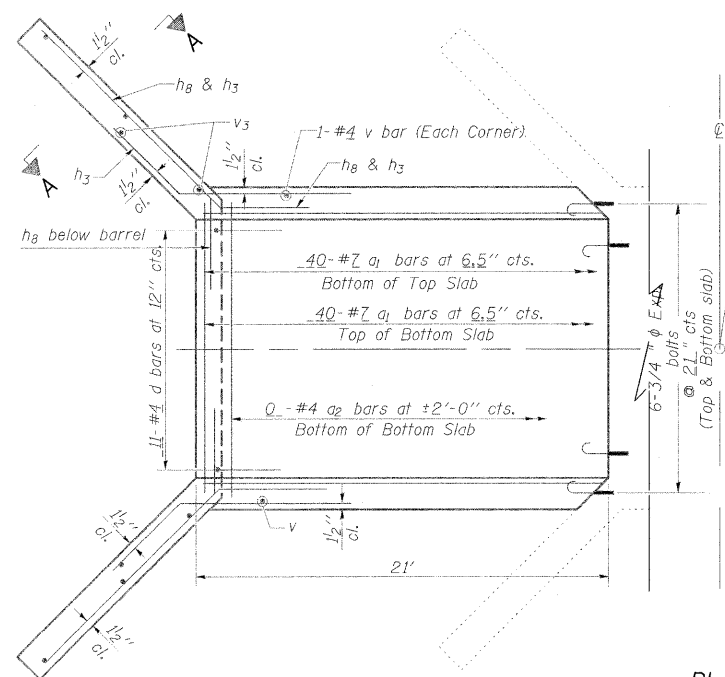
Bar s
(Downstream)



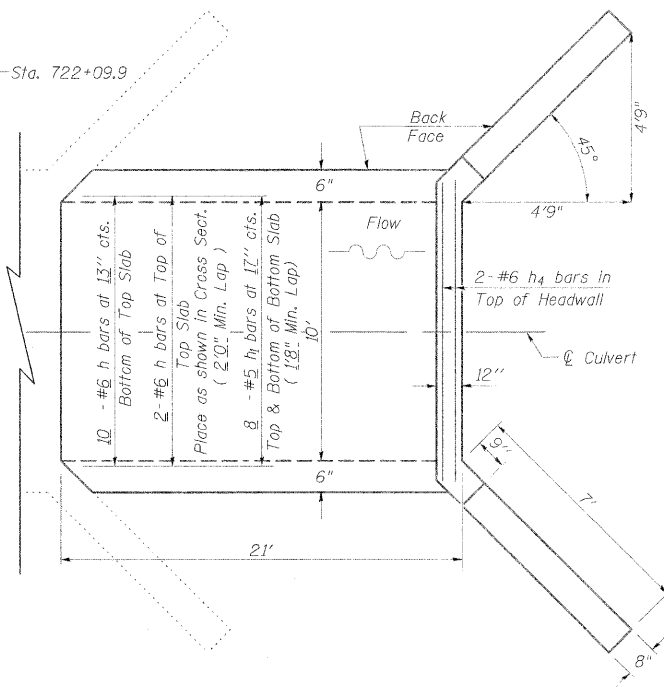
Bar s_1
(Upstream)



SECTION THRU HEADWALL
(Up Stream End Only)



PLAN



NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

All construction joints shall be bonded.

Expansion bolts shall be 3/4 inch diameter x 12 inch hooked bolts. Hooked bolts shall extend a minimum of 9 inches into new concrete and have a minimum certified proof load of 4,080 lbs.

DESIGN STRESSES

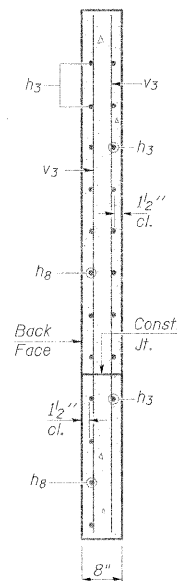
$f_y = 60,000$ psi

$f'_c = 3,500$ psi

LOADING HS 20-44 & ALT.

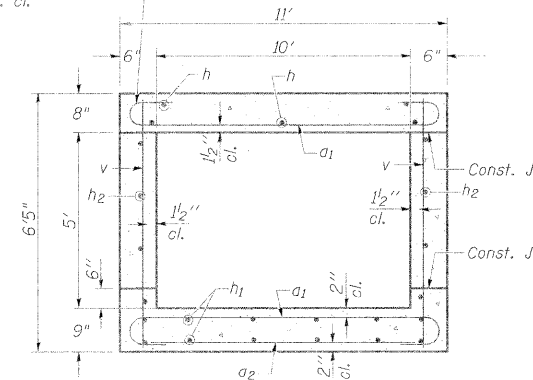
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	80	#7	12'-4"	
a_2	0	#4		
d	11	#4	4'-6"	
h	12	#6	20'-9"	
h_1	16	#5	20'-9"	
h_2	10	#5	20'-9"	
h_3	20	#5	8'-0"	
h_4	6	#6	10'-9"	
h_5	4	#7	10'-9"	
h_8	16	#5	10'-0"	
s	0	#4		
s_1	0	#4		
v	58	#4	6'-1"	
v_3	8	#4	9'-2"	
Concrete Box Culverts				Cu. Yd. 19.8
Reinforcement Bars				Pound 3790
3/4" Expansion bolts				Each 18



SECTION A-A

Tilt hook of a_1 bars
if necessary for 1/2"
min. cl.



SECTION THRU BARREL

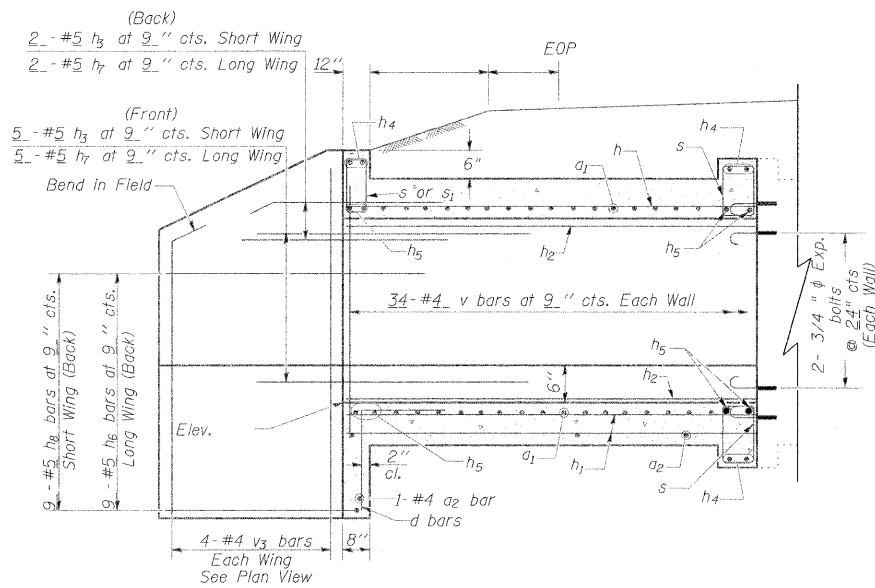
REVISIONS

DRAWN	2-04
REVISED	5-09
REVISED	SHT. CELL
REVISED	

BASED ON: SSB-H-0 6-1-2000

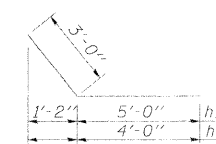
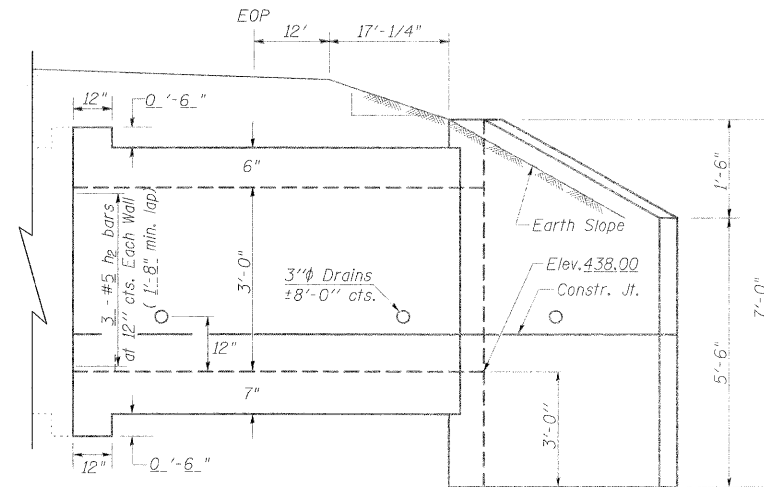
FILE NAME =	USER NAME = shripadg	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT EXTENSION STATION 722+09.9 LI--	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\ps\work\p\WIDOT\SHEPARD00\dms47338\	edatn13-shr-culvert.dgn	DRAWN =	REVISED =		10' X 5', SKEW 0° EXTEND 21'-0"	331	(1-2IN-2,R;1X-1IN-3,R-2	WILLIAMSON	202	107
PLOT SCALE = 5/8"=1'-0"	PLOT DATE = 10/14/2009	CHECKED =	REVISED =		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 98857	
		DATE =	REVISED =						ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

Dimensions at Rt. L's to $\mathbb{C}$ Roadway



BARS h_3 & h_8



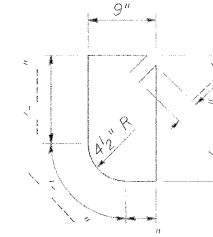
BAR d

 $BAR\ a_1$

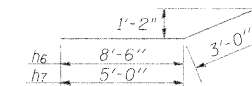
DESIGN STRESSES

 $f_y = 60,000 \text{ psi}$
$$f'_c = 3,500 \text{ psi}$$

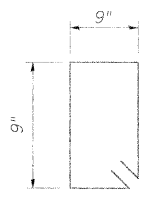
LOADING HS 20-44 & ALT.



Bar s_1
(Upstream)

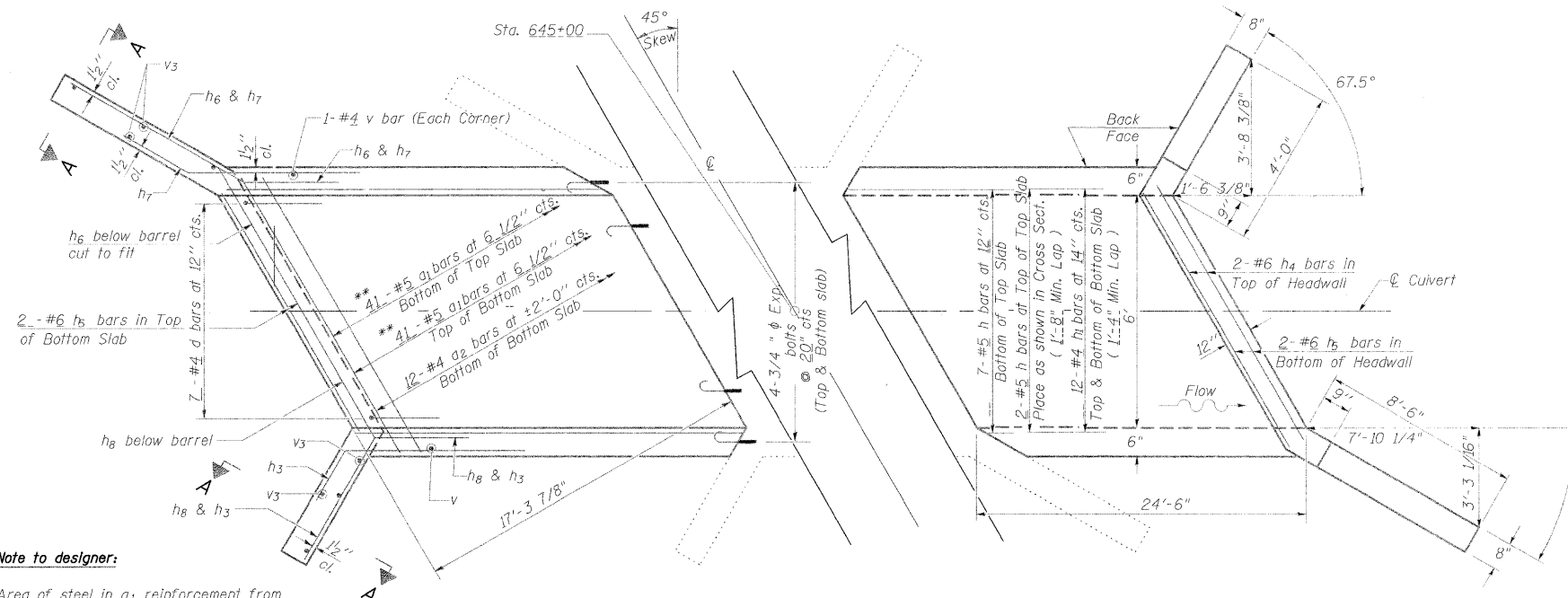


BARS h_6 & h_7



Bar s

(Downstream)



*** *Note to designer:*

Area of steel in a_1 reinforcement from the culvert manual design tables needs to be multiplied by $\sec^2 \theta$ to incorporate the skew.

REVISIONS

DRAWN	2-04
REVISED	5-09
REVISED	SHT CELL
REVISED	

BASED ON: *SSB-H-L 6-1-2000*

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

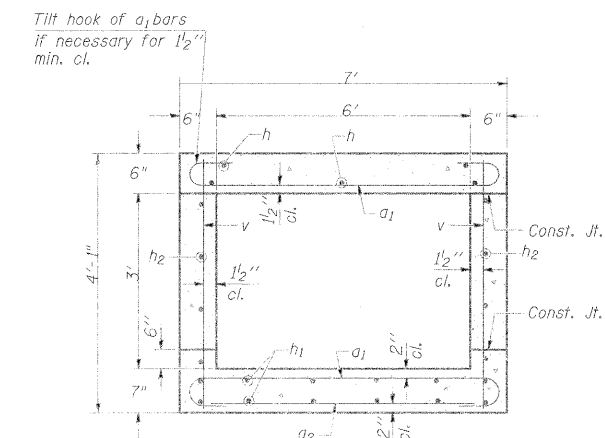
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

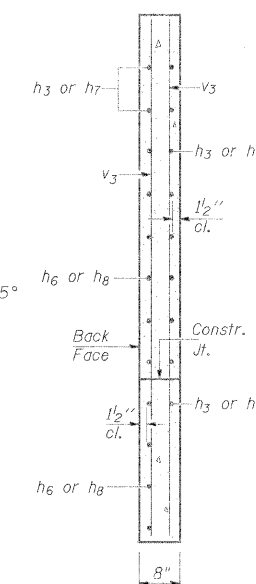
NOTES

All construction joints shall be bonded.

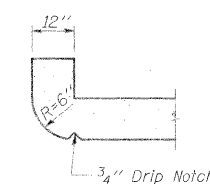
Expansion bolts shall be $\frac{3}{4}$ " ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

s, s_i bars @ 12" centers

SECTION THRU BARREL



SECTION A-A



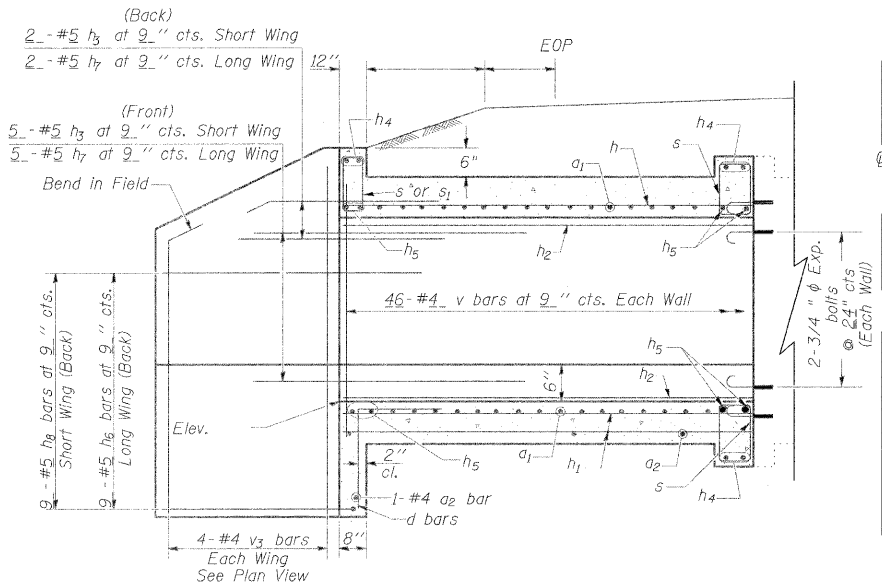
SECTION THRU HEADWALL

(Up Stream End Only)

BILL OF MATERIAL

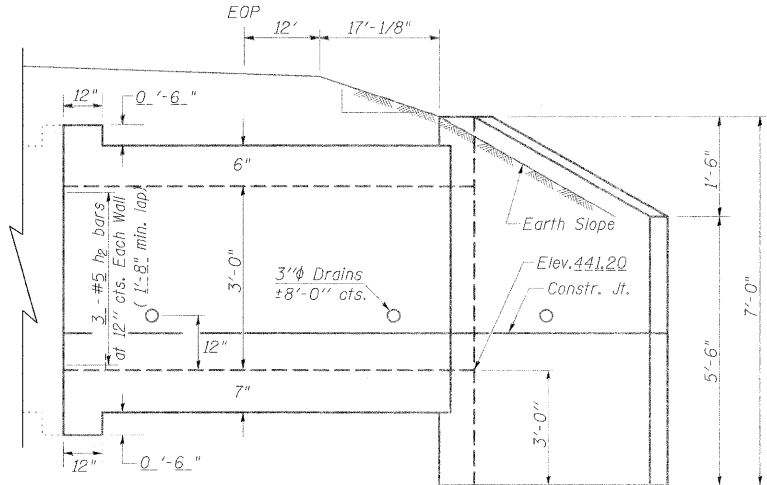
Bar	No.	Size	Length	Shape
a ₁	82	#5	7'-10"	
a ₂	13	#4	6'-6"	
d	7	#4	4'-6"	
h	9	#5	24'-3"	
h ₁	12	#4	24'-3"	
h ₂	6	#5	24'-3"	
h ₃	7	#5	8'-0"	
h ₄	6	#6	9'-3"	
h ₅	8	#6	9'-10"	
h ₆	9	#5	11'-6"	
h ₇	7	#5	8'-0"	
h ₈	9	#5	7'-0"	
s	30	#4	3'-9"	
s ₁	0	#4		
v	70	#4	3'-10"	
v ₃	8	#4	6'-0"	
Concrete Box Culverts			Cu. Yd.	12.9
Reinforcement Bars			Pound	2100
3/4" Expansion bolts			Each	12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

Dimensions at Rt. L's to Roadway



PLAN

NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

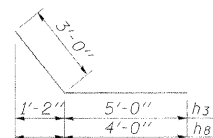
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

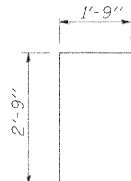
All construction joints shall be bonded.

Expansion bolts shall be 3/4" ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

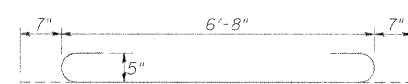
s, s₁ bars @ 12" centers



BARS h₃ & h₈

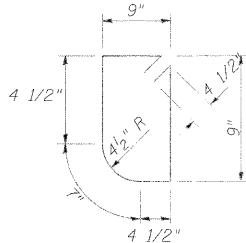


BAR d

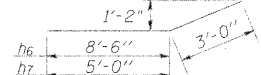


BAR a₁

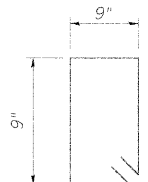
DESIGN STRESSES
f_y = 60,000 psi
f'_c = 3,500 psi
LOADING HS 20-44 & ALT.



Bar s₁
(Upstream)

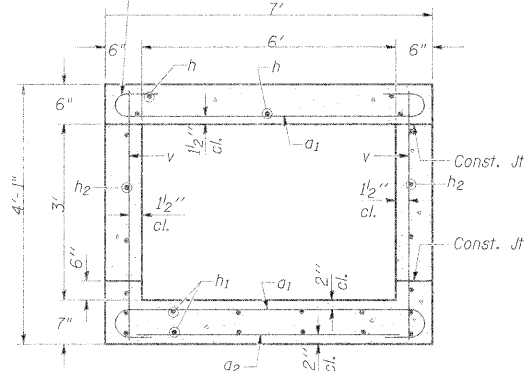


BARS h₆ & h₇

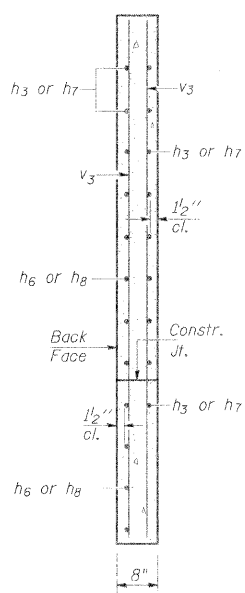


Bar s
(Downstream)

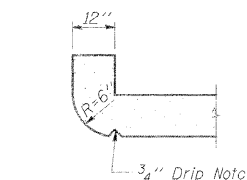
Tilt hook of a₁ bars
if necessary for 1 1/2" min. cl.



SECTION THRU BARREL



SECTION A-A



SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	116	#5	7'-10"	
a ₂	18	#4	6'-6"	
d	7	#4	4'-6"	
h ₁	9	#5	33'-6"	
h ₂	12	#4	33'-6"	
h ₃	6	#5	33'-6"	
h ₄	7	#5	8'-0"	
h ₅	6	#6	9'-3"	
h ₆	8	#6	9'-10"	
h ₇	9	#5	11'-6"	
h ₈	7	#5	8'-0"	
s	20	#4	3'-9"	
s ₁	10	#4	3'-7"	
v	94	#4	3'-10"	
v ₃	8	#4	6'-0"	
Concrete Box Culverts			Cu. Yd.	16.6
Reinforcement Bars			Pound	2680
3/4" Expansion bolts			Each	12

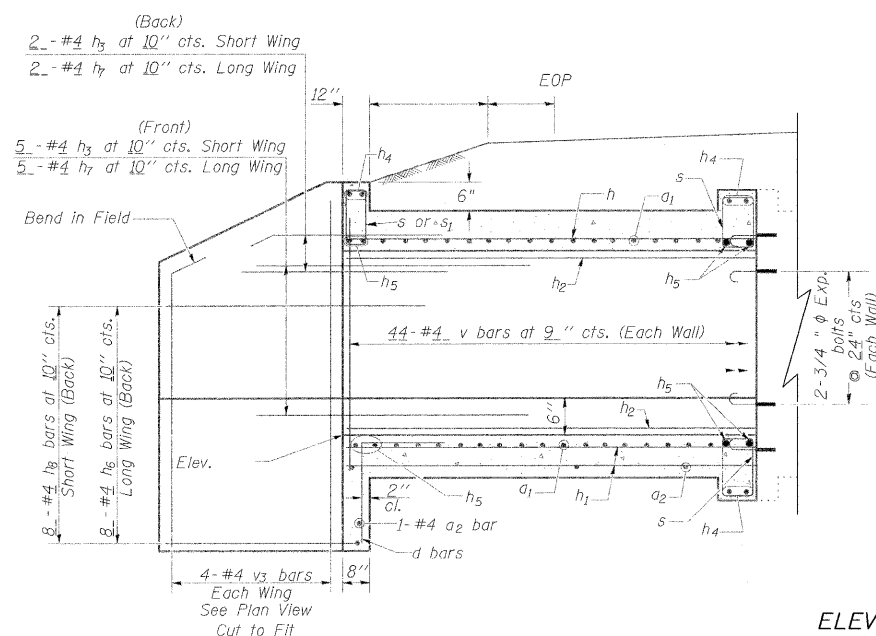
Note to designer:

Area of steel in a₁ reinforcement from the culvert manual design tables needs to be multiplied by sec² θ to incorporate the skew.

REVISIONS	
DRAWN	2-04
REVISED	5-09 SHT CELL
REVISED	
REVISED	

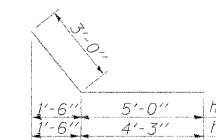
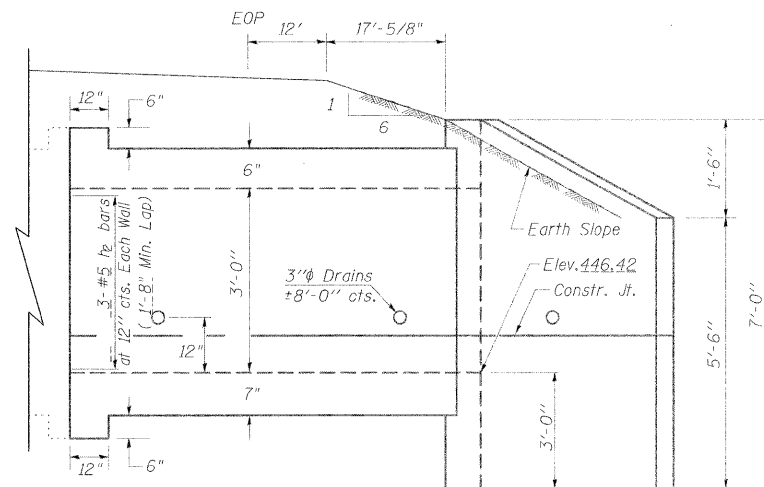
BASED ON: SSB-H-L R-1-2000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION

Dimensions at Rt. L's to $\mathbb{C}$ Roadway



BARS h_3 & h_8



BAR d

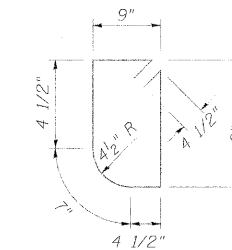


BAR a_i

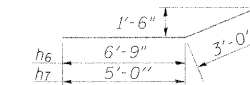
DESIGN STRESSES

$$f_y = 60,000 \text{ psi}$$
$$f'_c = 3,500 \text{ psi}$$

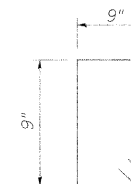
LOADING HS 20-44 & ALT.



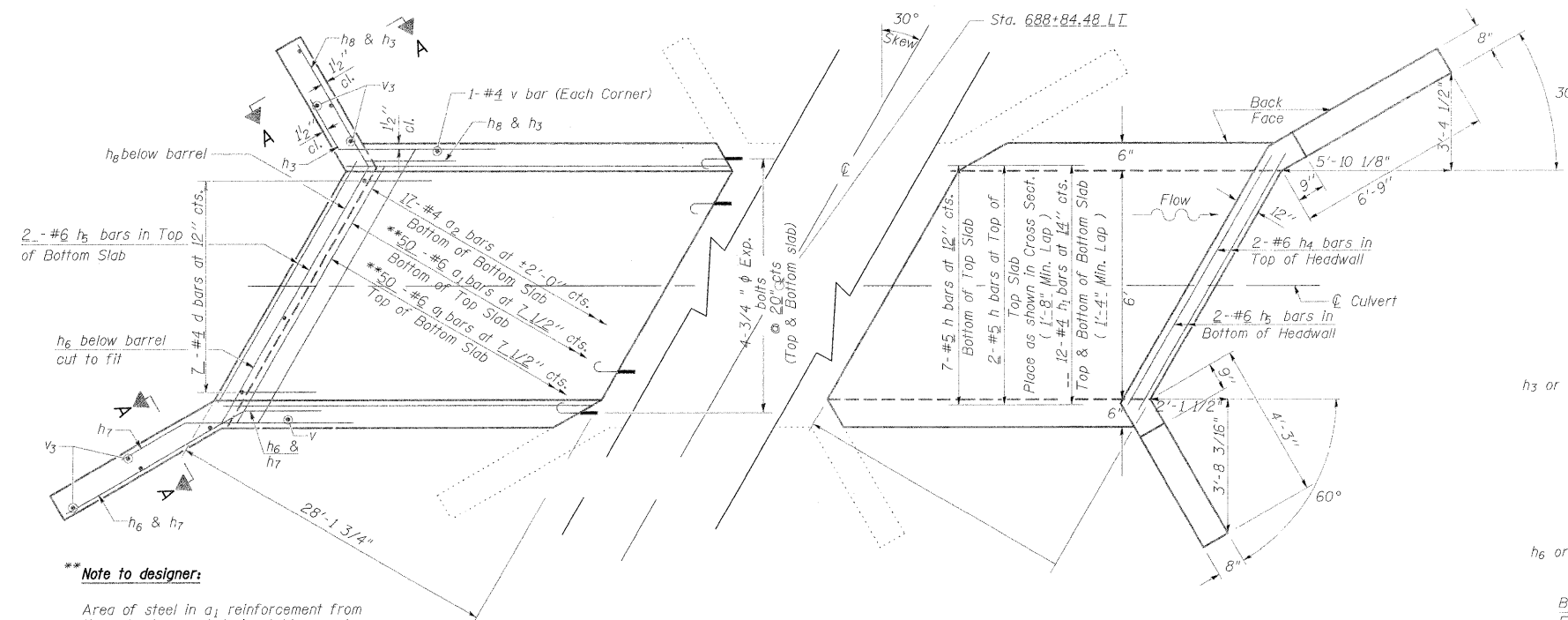
Bar s₁
(Upstream)



BARS h_6 & h_7



Bar s
(Downstream)



****Note to designer:**

Area of steel in a_1 reinforcement from the culvert manual design tables needs to be multiplied by $\sec^2 \theta$ to incorporate the skew.

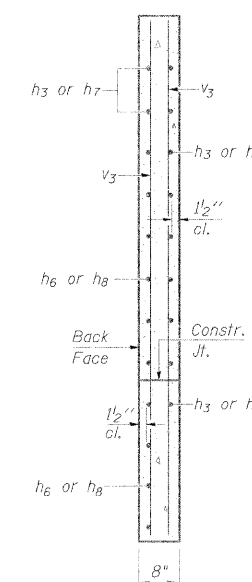
PLAN

NOTES

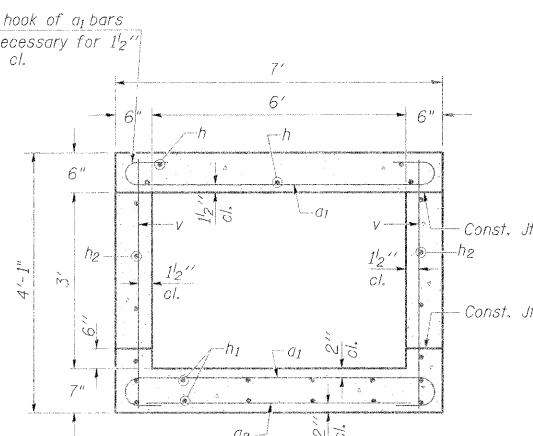
All construction joints shall be bonded.

Expansion bolts shall be $\frac{3}{4}$ " ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

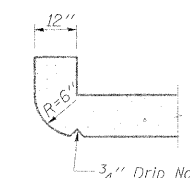
s, s, bars @ 12" centers



SECTION A-A



SECTION THRU BARREL



SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	100	#6	8'-0"	
a ₂	18	#4	6'-6"	
d	7	#4	4'-6"	
h ₁	9	#5	32'-3"	
h ₁	12	#4	32'-3"	
h ₂	6	#5	32'-3"	
h ₃	7	#4	8'-0"	
h ₄	6	#6	7'-9"	
h ₅	8	#6	8'-4"	
h ₆	8	#4	9'-9"	
h ₇	7	#4	8'-0"	
h ₈	8	#4	7'-3"	
s	16	#4	3'-9"	
s ₁	8	#4	3'-7"	
v	90	#4	3'-9"	
v ₃	8	#4	6'-0"	
Concrete Box Culverts			Cu. Yd.	15.6
Reinforcement Bars			Pound	2720
3/4" Expansion bolts			Each	12

REVISIONS	
DRAWN	2-04
REVISED	5-09 SHT CELL
REVISED	
REVISED	

BASED ON: **SSB-H-R 6-1-2000**

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

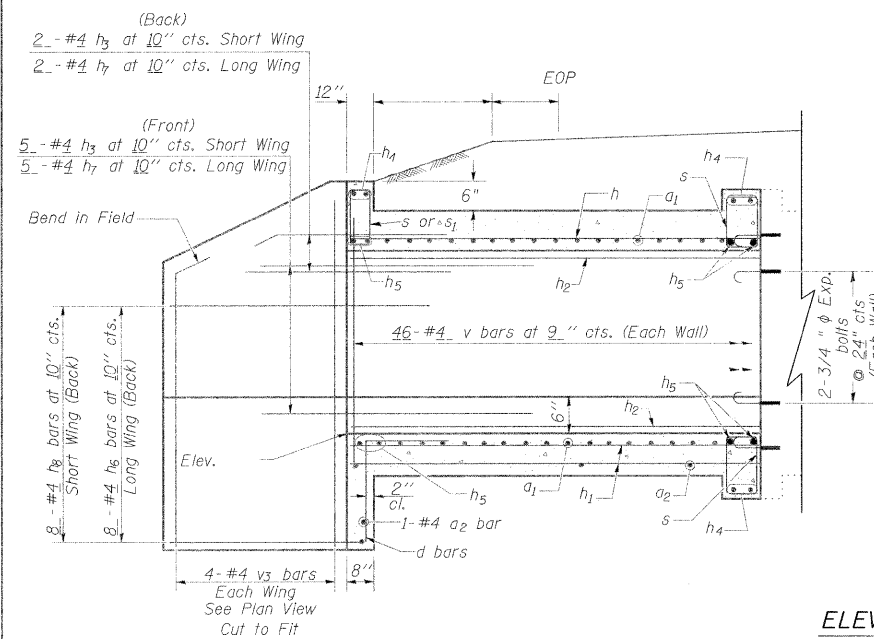
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION STATION 688+84.48 LT
6' X 3', SKEW 30° RT. AH. EXTEND 32'-6"

SCALE: SHEET NO. OF SHEETS STA. TO STA.

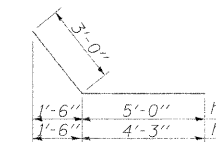
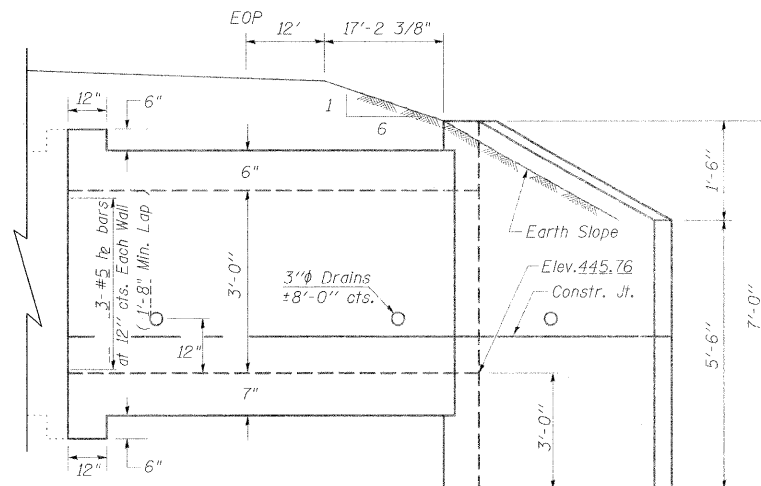
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	110
CONTRACT NO. 98857				
ILLINOIS FED. AID PROJECT				

DEPARTMENT OF TRANSPORTATION



ELEVATION

Dimensions at Rt. L's to @ Roadway



BARS h_3 & h_8



BAR d

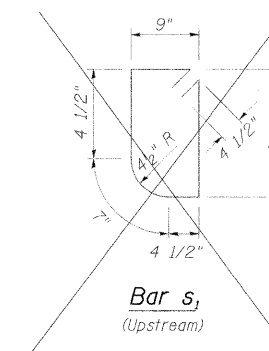


BAR a_1

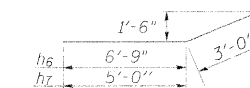
DESIGN STRESSES

$$f_y = 60,000 \text{ psi}$$
$$f'_c = 3,500 \text{ psi}$$

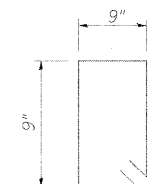
LOADING HS 20-44 & ALT.



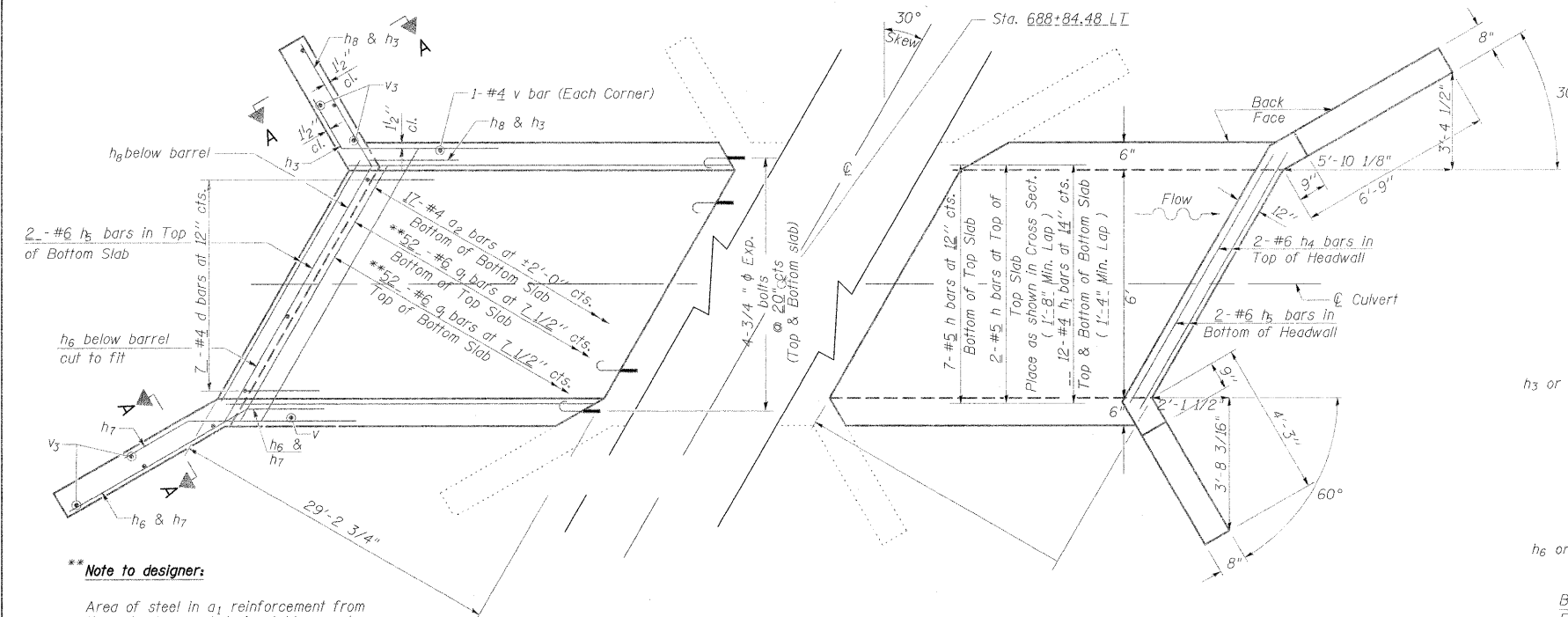
Bar s,
(Upstream)



BARS h_6 & h_7



Bar s
(Downstream)



*** Note to designer:

Area of steel in a_1 reinforcement from the culvert manual design tables needs to be multiplied by $\sec^2 \theta$ to incorporate the skew.

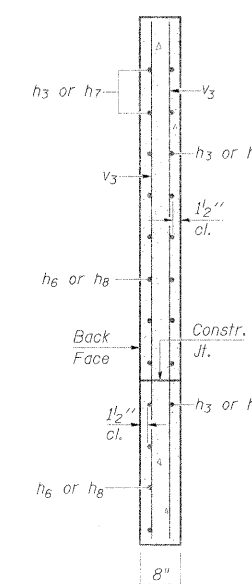
PLAN

NOTES

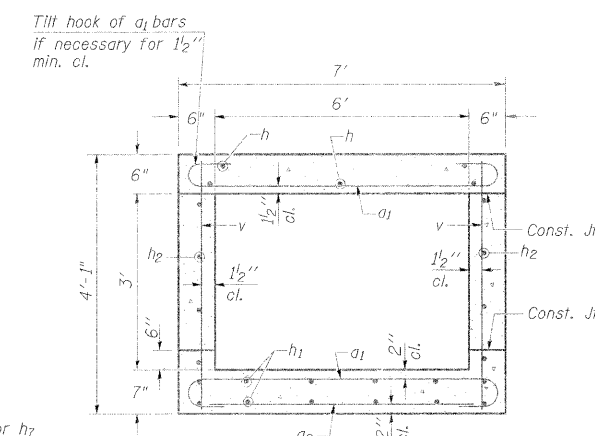
All construction joints shall be bonded.

Expansion bolts shall be $\frac{3}{4}$ " ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.

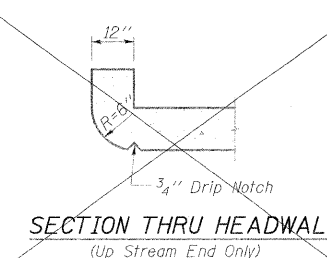
s, s_i bars @ 12" centers



SECTION A-A



SECTION THRU BARREL



SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	104	#6	8'-0"	
a ₂	18	#4	6'-6"	
d	7	#4	4'-6"	
h ₁	9	#5	33'-6"	
h ₁	12	#4	33'-6"	
h ₂	6	#5	33'-6"	
h ₃	7	#4	8'-0"	
h ₄	6	#6	7'-9"	
h ₅	8	#6	8'-4"	
h ₆	8	#4	9'-9"	
h ₇	7	#4	8'-0"	
h ₈	8	#4	7'-3"	
s	24	#4	3'-9"	
s ₁	0	#4		
v	94	#4	3'-9"	
v ₃	8	#4	6'-0"	
Concrete Box Culverts			Cu. Yd.	16.2
Reinforcement Bars			Pound	2810
3"x Reinforcing bolts			Each	12

REVISIONS	
DRAWN	2-04
REVISED	5-09 SHT CELL
REVISED	
REVISED	

BASED ON: *SSB-H-R 6-1-2000*

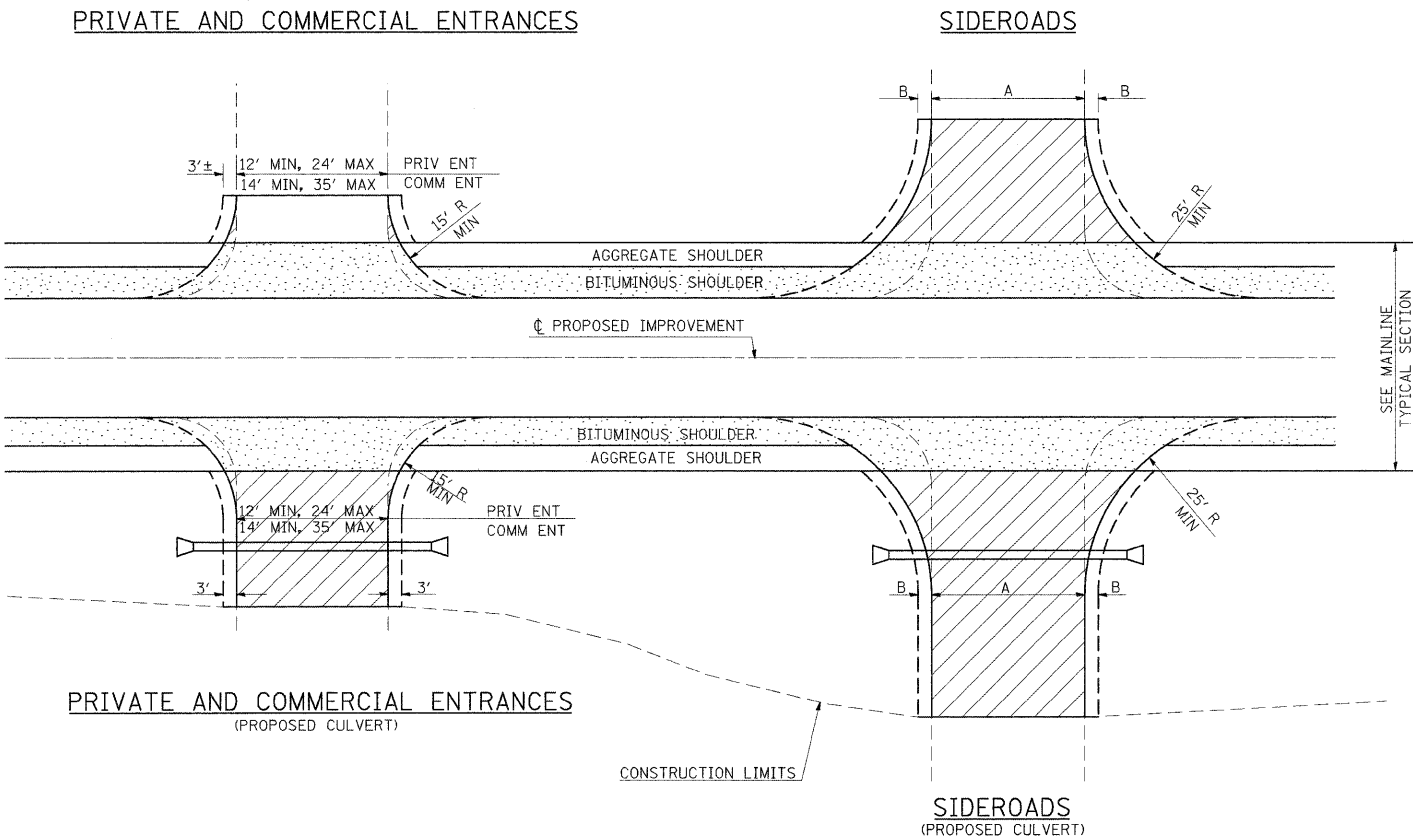
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

FILE NAME =	USER NAME = shepardg	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT EXTENSION STATION 689+51.10 RT 6' X 3', SKEW 30° RT. AH. EXTEND 33'- 9"	F.A.P. R.T.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\p\WIDOT\SHEPARDD\dms47330\	dstuml3-sh-t-culvert.dgn	DRAWN -	REVISED -			331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	111	
PLOT SCALE = 50.0002' / IN.	CHECKED -	REVISED -	SCALE: _____			SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT CONTRACT NO. 98857			
PLOT DATE = 10/14/2009	DATE -	REVISED -									

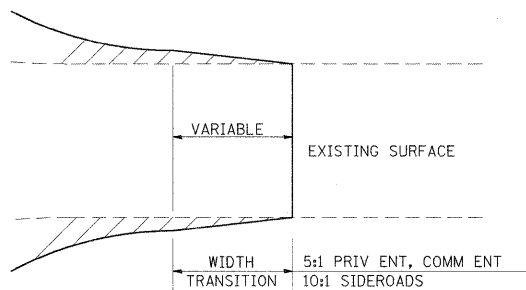
RURAL SIDE APPROACH DETAILS



SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

WIDTH TRANSITION DETAIL TO EXISTING (IF APPLICABLE)

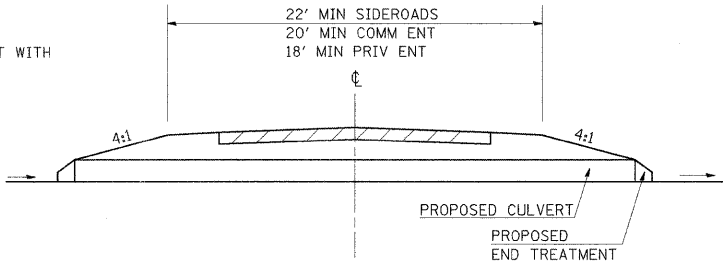


FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE BITUMINOUS AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.

IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

DETAIL FOR CALCULATING CULVERT LENGTH



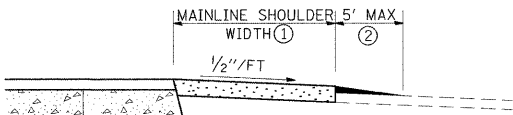
LEGEND

1. CONSTRUCT BITUMINOUS SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; BITUMINOUS TAPER FOR EXISTING HIGHER TYPE SURFACES.
3. 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" BITUMINOUS RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING BITUMINOUS SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.
4. 3" MINIMUM BITUMINOUS RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

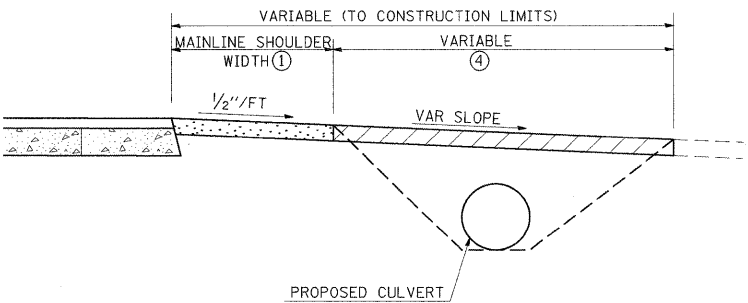
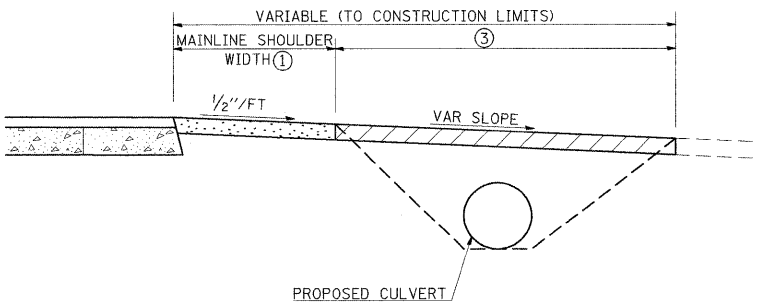
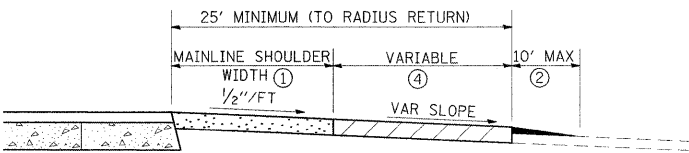
GENERAL NOTES

1. ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
2. IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
3. SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
4. ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
5. THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

PRIVATE AND COMMERCIAL ENTRANCES

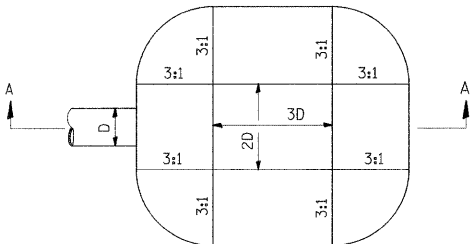


SIDEROADS



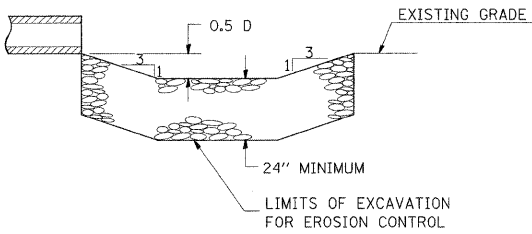
ENERGY DISSIPATOR

EARTH EXCAVATION FOR ENERGY DISSIPATOR



D= INSIDE DIAMETER OF PIPE CULVERT
OR CLEAR HEIGHT OF BOX CULVERT

PLAN



SECTION A-A

THIS WORK INVOLVES THE EXCAVATION OF EARTH AS SHOWN IN THE SKETCH TO THE LENGTH, WIDTH, AND DEPTH AS SPECIFIED. THE EARTH EXCAVATION WILL BE UTILIZED IN THE ROADWAY EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER. THE EXCAVATION SHALL BE PERFORMED AT THE SAME TIME AS THE CULVERT OR DITCH IS CONSTRUCTED TO SERVE AS A TEMPORARY SEDIMENT TRAP.

EARTHWORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE RIPRAP.

ENERGY DISSIPATOR IS TO BE CONSTRUCTED AT THE LOCATION INDICATED ON THE PLAN AND PROFILE SHEETS.

RIPRAP FOR ENERGY DISSIPATOR

RIPRAP FOR ENERGY DISSIPATOR SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 281 OF THE STANDARD SPECIFICATIONS EXCEPT AS REVISED HEREIN.

THE LENGTH, WIDTH, AND DEPTH FOR RIPRAP PLACEMENT SHALL BE AS SPECIFIED IN THESE DETAILS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

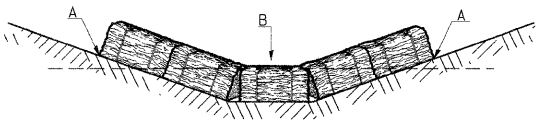
THE RIPRAP FOR THE ENERGY DISSIPATOR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR **STONE RIPRAP, CLASS A4**.

THE STONE DUMPED RIPRAP SHALL CONFORM TO THE QUALITY AND GRADATION REQUIREMENTS OF STONE RIPRAP, CLASS A4.

BEDDING MATERIAL AS SPECIFIED IN SECTION 281 OF THE STANDARD SPECIFICATIONS WILL NOT BE REQUIRED.

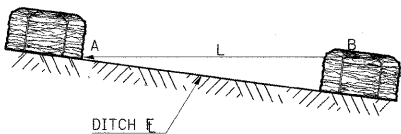
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY STRAW BALE DITCH CHECK IN DRAINAGEWAY



POINTS A SHOULD BE HIGHER THAN POINT B

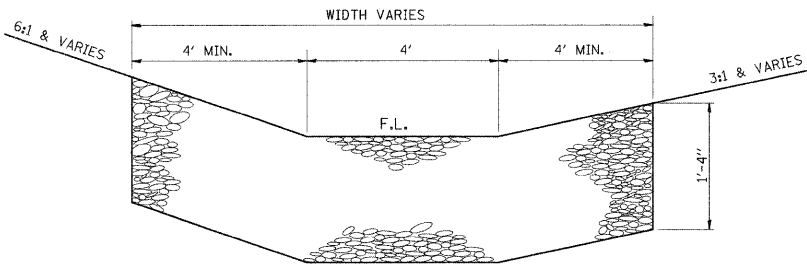
SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT
IN CENTER OF CHECK

TYPICAL DETAIL OF STONE RIPRAP DITCH LINING



NOTES

THIS WORK INCLUDES THE EARTH EXCAVATION REQUIRED TO PLACE THE RIPRAP AS SHOWN. THE MATERIAL RESULTING FROM THE EARTH EXCAVATION SHALL BE PLACED IN THE ROADWAY EMBANKMENT, OR WASTED AS DIRECTED BY THE ENGINEER. THE EARTHWORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DITCH.

THE RIPRAP DITCH SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. CONSTRUCTION OF THE STONE RIPRAP DITCH SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A4 RIPRAP AS INDICATED IN SECTION 281 OF STANDARD SPECIFICATIONS.

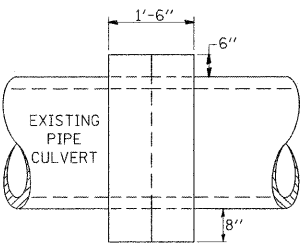
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR **STONE RIPRAP, CLASS A4**, WHICH PRICE SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK IN PLACE AS SHOWN.

BEDDING MATERIAL AND FILTER FABRIC AS SPECIFIED IN SECTION 281 OF THE STANDARD SPECIFICATIONS WILL NOT BE REQUIRED.

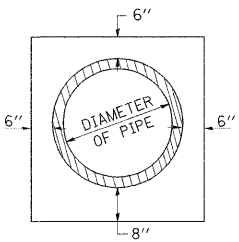
THE WIDTH OF THE RIPRAP DITCH WILL BE AS SPECIFIED IN THE RIPRAP SCHEDULE OR AS DIRECTED BY THE ENGINEER.

DETAILS OF CONCRETE COLLAR

PIPE TO PIPE



SIDE VIEW



END VIEW

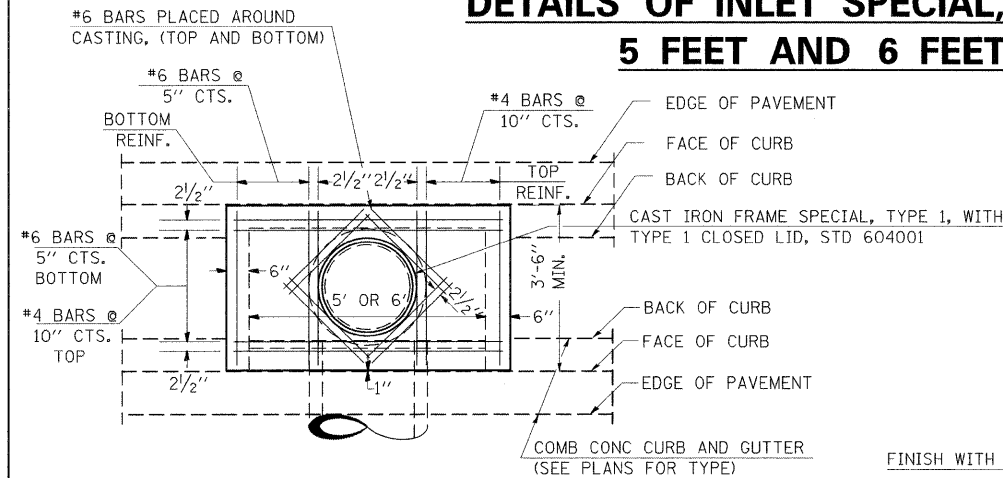
TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

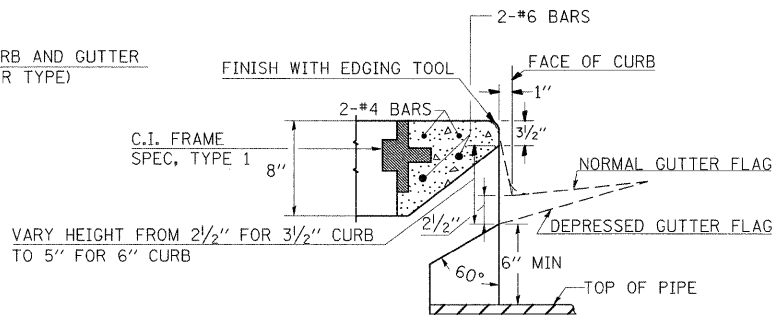
THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR**, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

DETAILS OF INLET SPECIAL, TYPE 3,
5 FEET AND 6 FEET

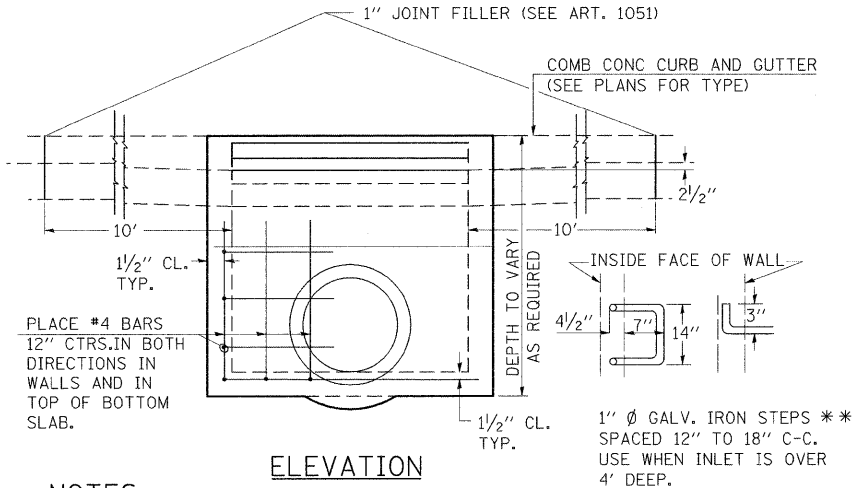


PLAN



SECTION AT WEIR

DESIGN	PIPE DIA	"D"
A	18" & LESS	2'-6"
B	21" & 24"	3'-0"
C	27" & 30"	3'-7"
D	33" & 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"



ELEVATION

NOTES:

PROVIDE 1 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

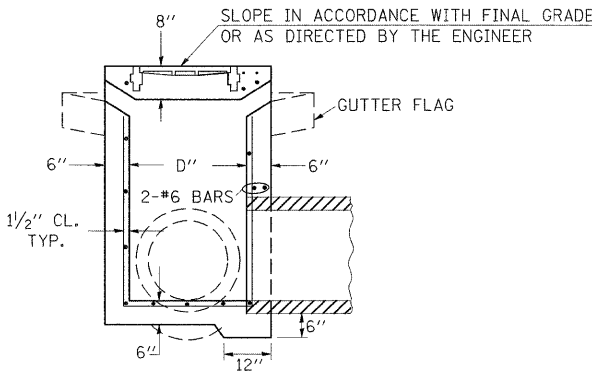
INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **INLET, SPECIAL, TYPE 3, 5 FEET** OR **INLET, SPECIAL, TYPE 3, 6 FEET** WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

**THE GALVANIZED IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN, MAY BE USED WHEN APPROVED BY THE ENGINEER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING TO THE DEPARTMENT'S CURRENT POLICY MEMORANDUM, "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS".

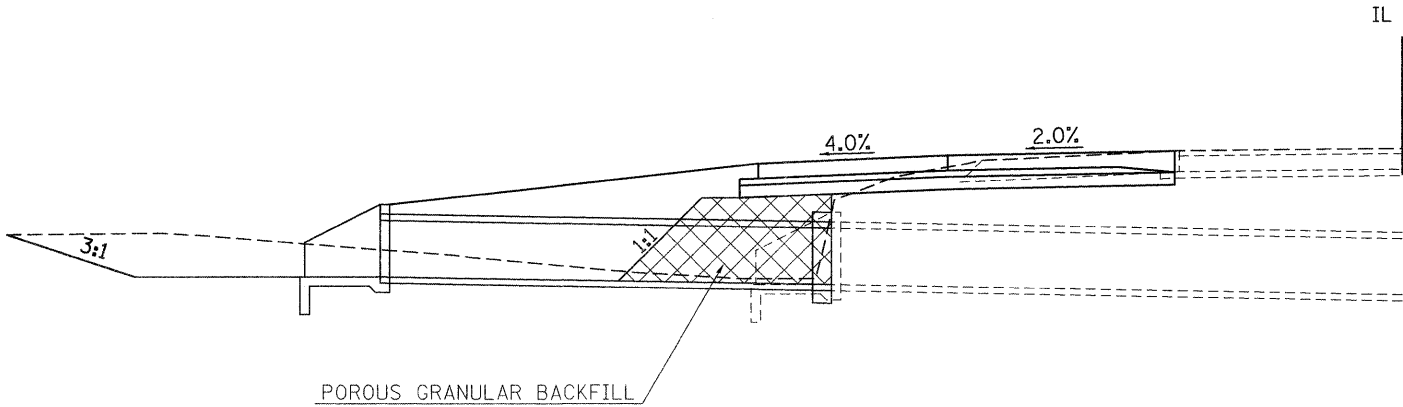
NOTE TO DESIGNER:

WHEN USING THIS STANDARD THE DESIGNER SHOULD ALSO CHECK BDE SPECIAL PROVISION 419 "PRECAST CONCRETE PRODUCTS".



SECTION

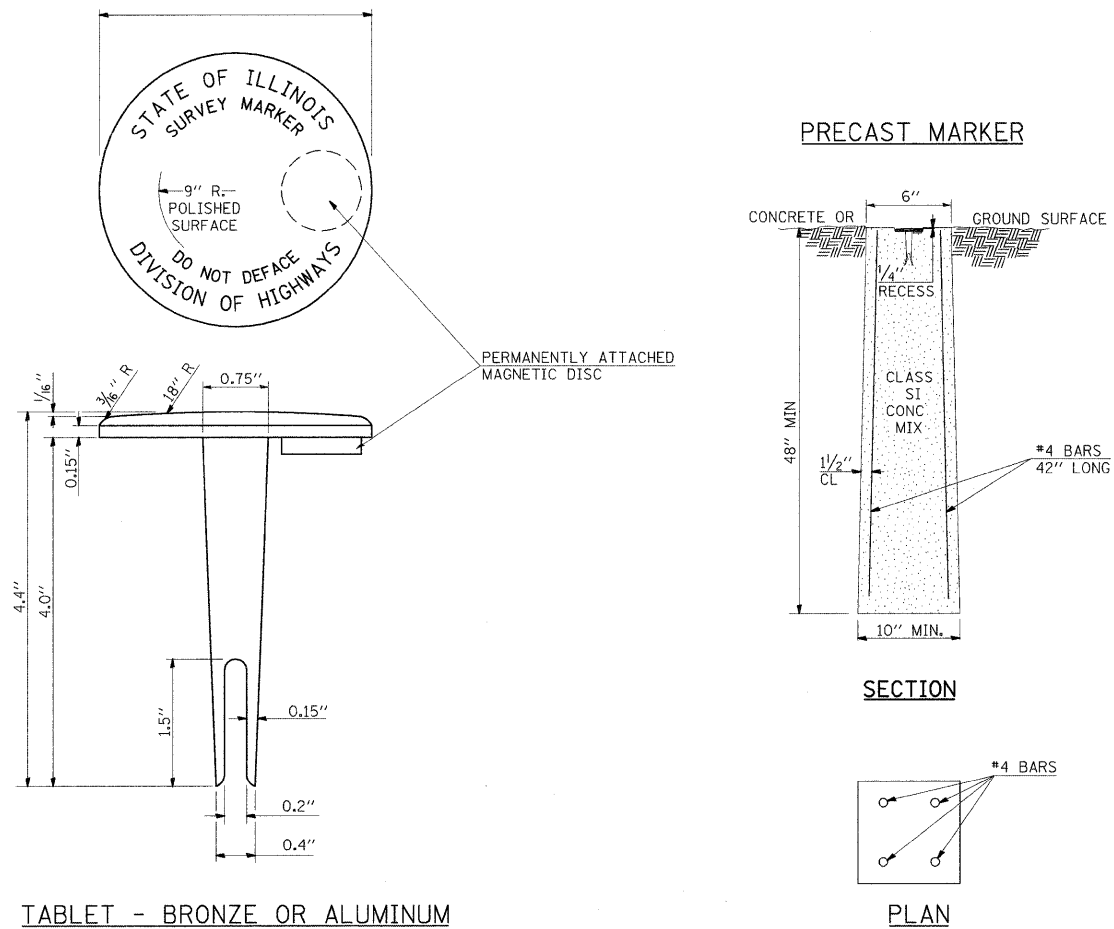
DETAIL OF POROUS GRANULAR
BACKFILL FOR CULVERT EXTENSIONS



TO BE USED AT ALL CROSSROAD CULVERT EXTENSIONS

FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAILS				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\PIWIDOT\SHEPAROGD\dms473307	dstam13-shr:standards.dgn	DRAWN -	REVISED -						331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	114
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -										
	PLOT DATE = 10/14/2009	DATE -	REVISED -										
STD. 9-1					SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. _____	TO STA. _____	ILLINOIS FED. AID PROJECT				

DETAILS OF PERMANENT SURVEY MARKERS



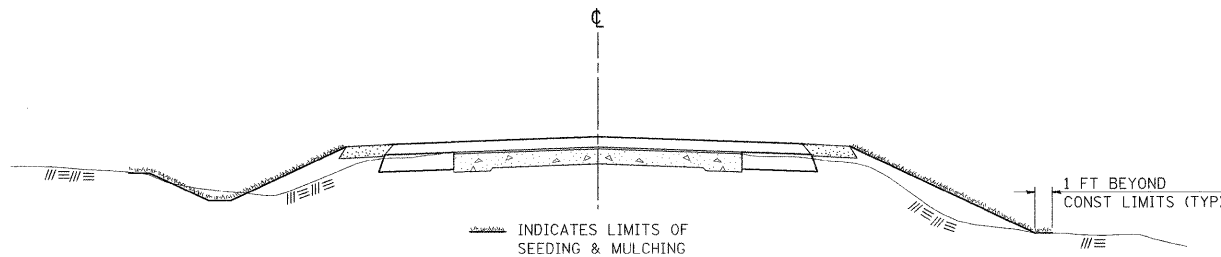
NOTES

1. ACTUAL LOCATIONS TO BE DETERMINED BY THE ENGINEER AND A REPRESENTATIVE FROM THE BUREAU OF DESIGN AFTER GRADING IS COMPLETE AND SIGHT DISTANCE CAN BE DETERMINED BETWEEN SURVEY MARKER LOCATIONS.
2. THE MARKERS SHALL BE PRECAST AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ORDER THAT THERE BE NO FUTURE SETTLEMENT OR HORIZONTAL SHIFTING. THE MONUMENT SHALL BE PLACED IN A WAY THAT THE SURVEY POINT WILL FALL WITHIN THE PORTION OF THE PLAQUE PROVIDED FOR THAT PURPOSE. A REPRESENTATIVE FROM THE BUREAU OF PROGRAM DEVELOPMENT WILL LOCATE AND ETCH THE SURVEY POINT ON THE TABLET.
3. THE CONTRACT UNIT PRICE FOR PERMANENT SURVEY MARKERS WILL BE PAYMENT IN FULL FOR FURNISHING AND INSTALLING THE MARKER.

TOTAL QUANTITY FOR
PERMANENT SURVEY MARKERS=_____

DESIGN NOTE: 2000' SPACING DESIRABLE FOR RURAL
1000' SPACING DESIRABLE FOR URBAN

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

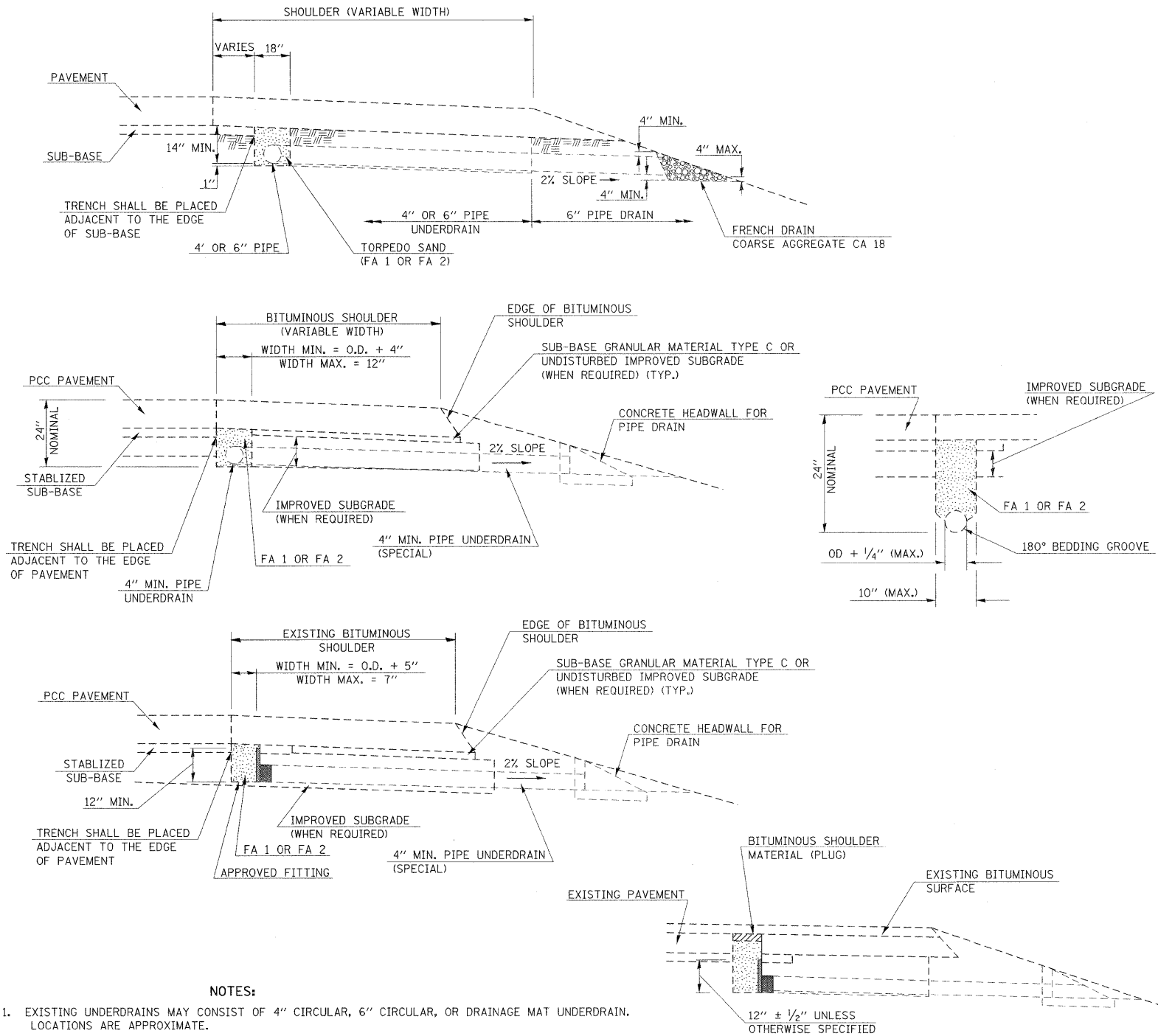
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAILS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\PW\DOT\SHEPAROGD\dms47330\fedstuml3-sht-standards.dgn		DRAWN -	REVISED -					331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	115
PLOT SCALE = 50,000' / IN.		CHECKED -	REVISED -		SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 98857				
PLOT DATE = 10/14/2009		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

PIPE UNDERDRAIN REMOVAL (SPECIAL) & CONCRETE HEADWALL FOR PIPE UNDERDRAIN REMOVAL

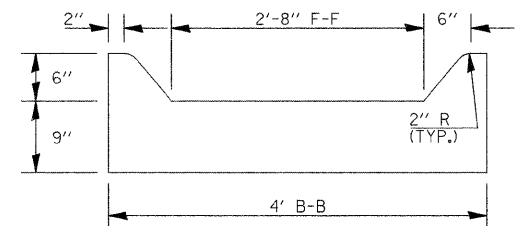
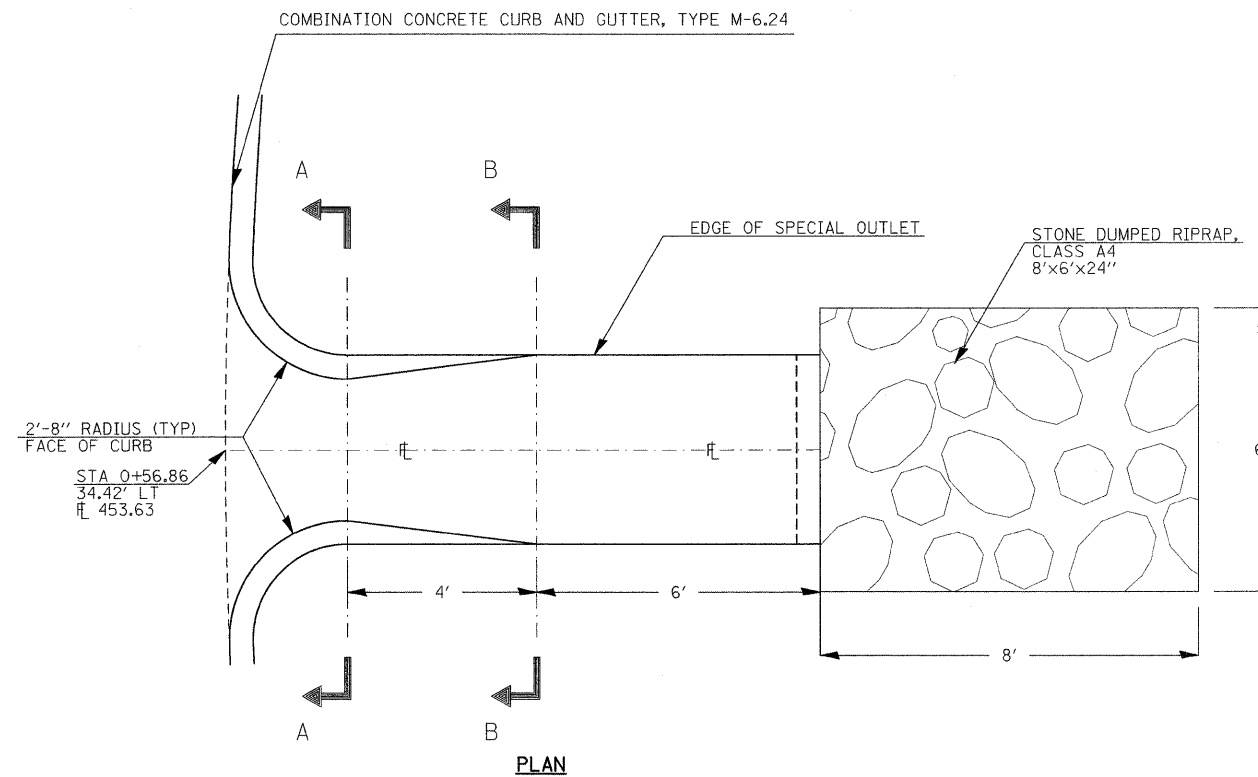
EXISTING UNDERDRAIN TYPES



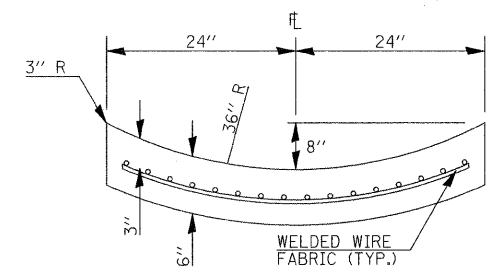
NOTES:

- EXISTING UNDERDRAINS MAY CONSIST OF 4" CIRCULAR, 6" CIRCULAR, OR DRAINAGE MAT UNDERDRAIN. LOCATIONS ARE APPROXIMATE.
- ALL EXISTING UNDERDRAINS, OUTLETS, AND CONCRETE HEADWALLS SHALL BE REMOVED. CONCRETE HEADWALLS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- THE TRENCH REMAINING FROM THE PIPE UNDERDRAIN REMOVAL SHALL BE BACKFILLED WITH SUB-BASE GRANULAR MATERIAL, TYPE A IN AREAS WHICH ARE BENEATH PROPOSED PAVEMENT AND PROPOSED SHOULDER. THE SUB-BASE GRANULAR MATERIAL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAIN REMOVAL.

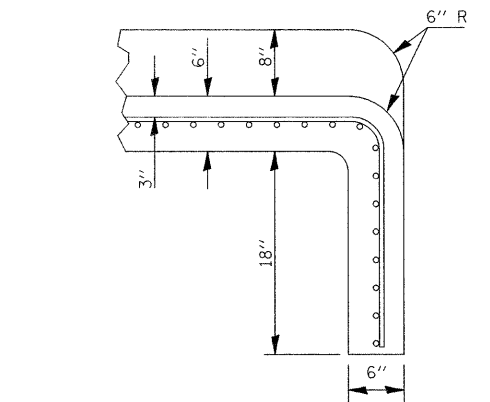
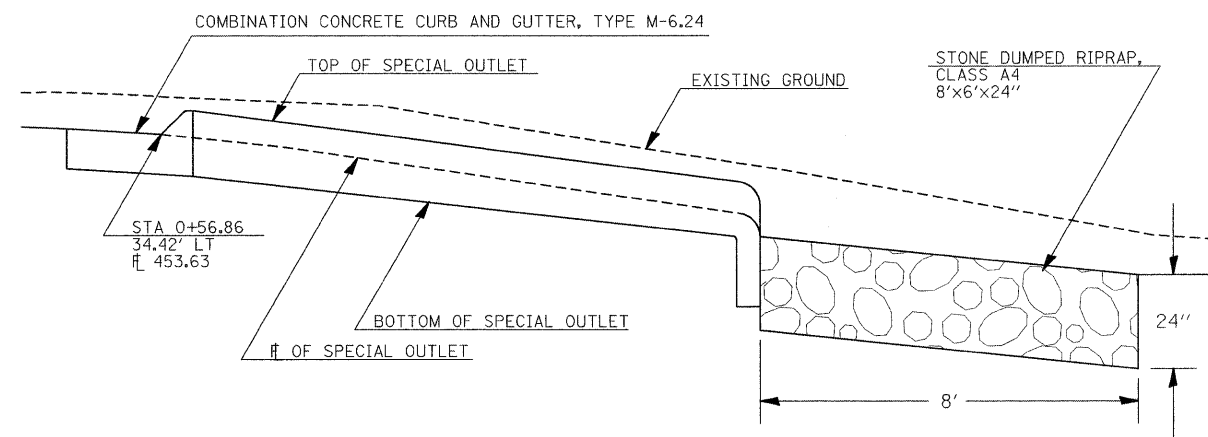
FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pw_work\PWIDOT\SHEPARCGD\dms47330\F	datum13-shr-standards.dgn	DRAWN -	REVISED -					331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	116
PLOT SCALE = 50,000' / 1" IN.		CHECKED -	REVISED -		SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 98857				
PLOT DATE = 10/14/2009		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



SECTIONS AT END OF OUTLET

GUTTER OUTLET SPECIAL
0+56.86 LT

FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAILS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\PWIDOT\SHEPARDGD\dms47330\	dstun13-sht-standards.dgn	DRAWN -	REVISED -					331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	117
PLOT SCALE = 50,0000' / IN.		CHECKED -	REVISED -		SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 98857				
PLOT DATE = 10/14/2009		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

END OF SIDEROAD IMPROVMENTS

CL OF TERMINAL DRIVE, PENTECOST DRIVE, REDCO DRIVE, OR BAINBRIDGE TRAIL

OUTSIDE EDGE OF NEW THIRD LANE, STATION "X"

OUTSIDE EDGE OF EXISTING DRIVING LANE

EXISTING CL OF MAINLINE RT. 13

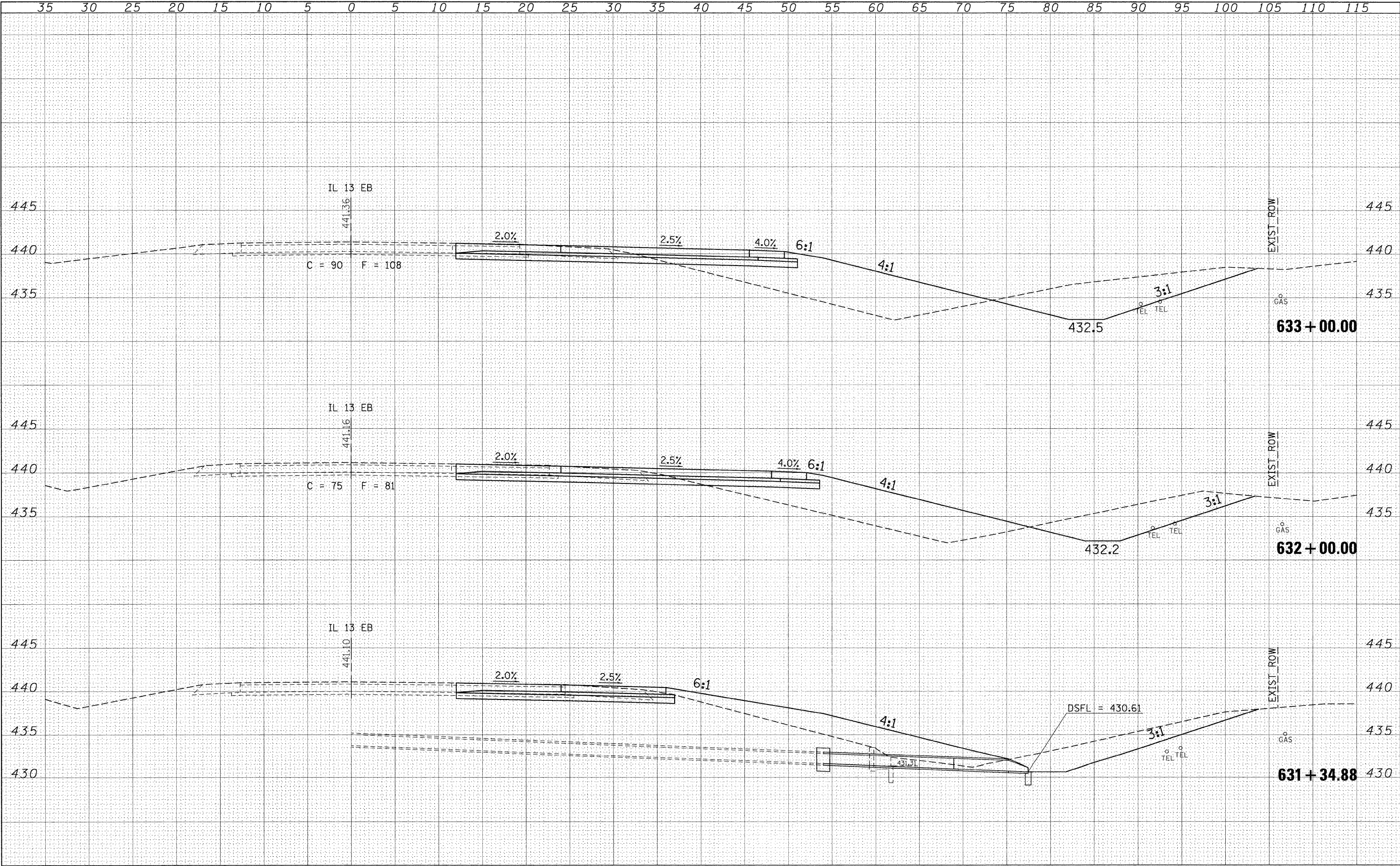


SIDEROAD	STATION X	STATION Y
TERMINAL	+24.0	3+03.8
PENTECOST	+88.0	2+24.5
REDCO	10+24.1	11+09.8
BAINBRIDGE	3+55.8	4+37.9

FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAILS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\100T\SHEPARDGD\dms47330\fedstim13-shit-standards.dgn	DRAWN -	REVISED -	331					(1-2)N-2,R(1X-1)N-3,R-2	WILLIAMSON	202	118	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 98857									
PLOT DATE = 10/14/2009	DATE -	REVISED -	SCALE: _____		SHEET NO. __ OF __ SHEETS	STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT					

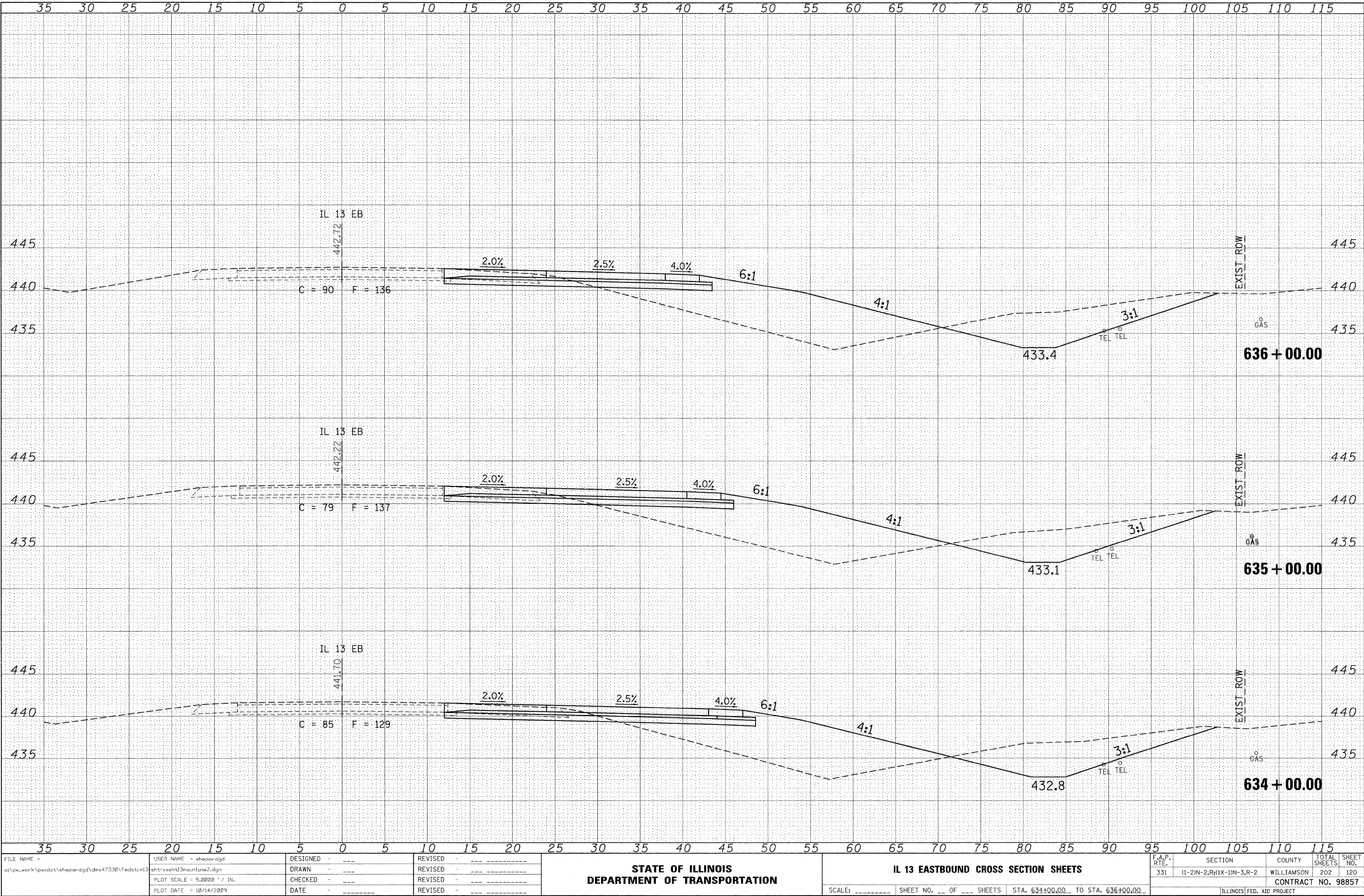
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



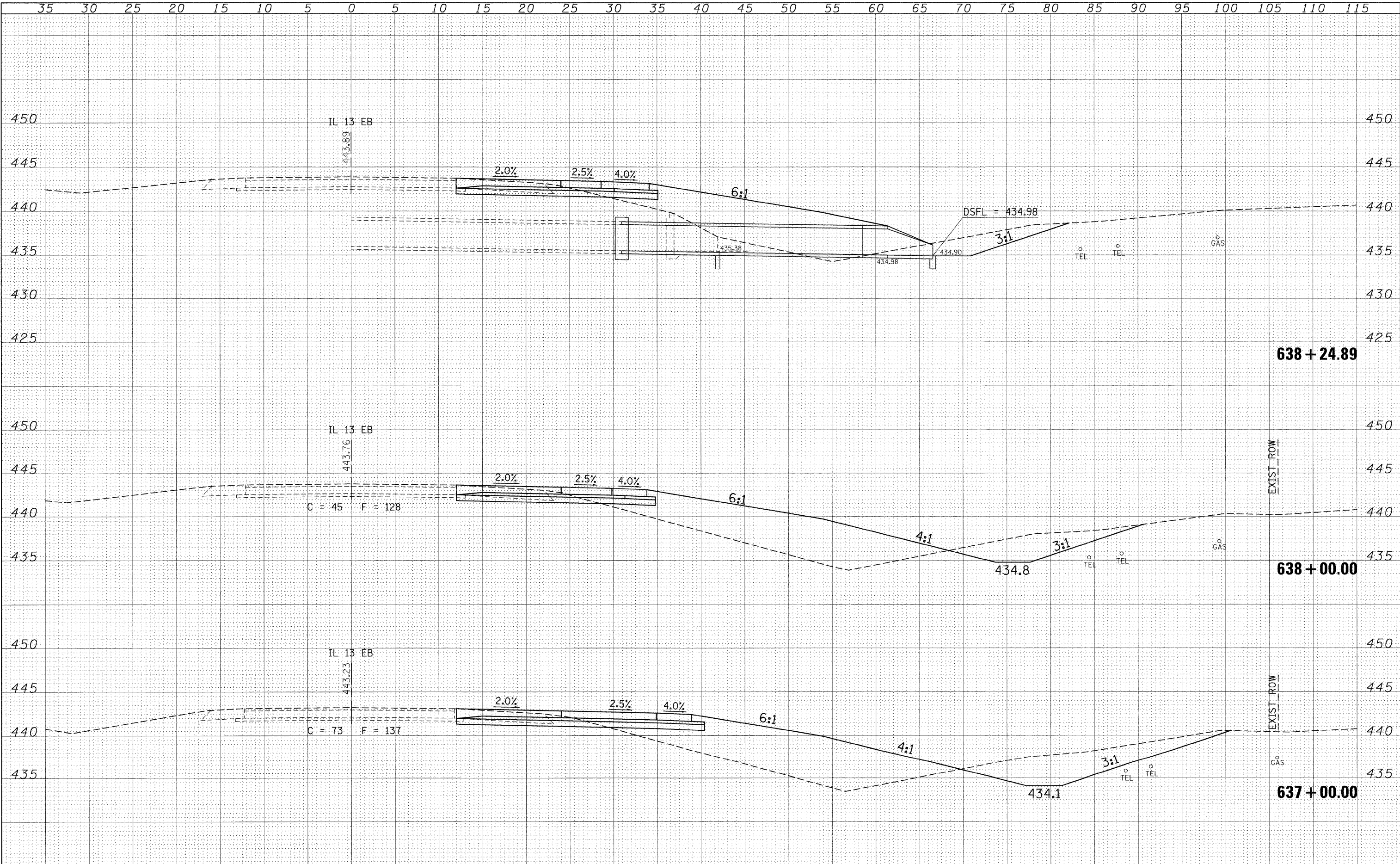
DATE	BY	FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	NO.
		NOTE BOOK				
		AREAS CHECKED				

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



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

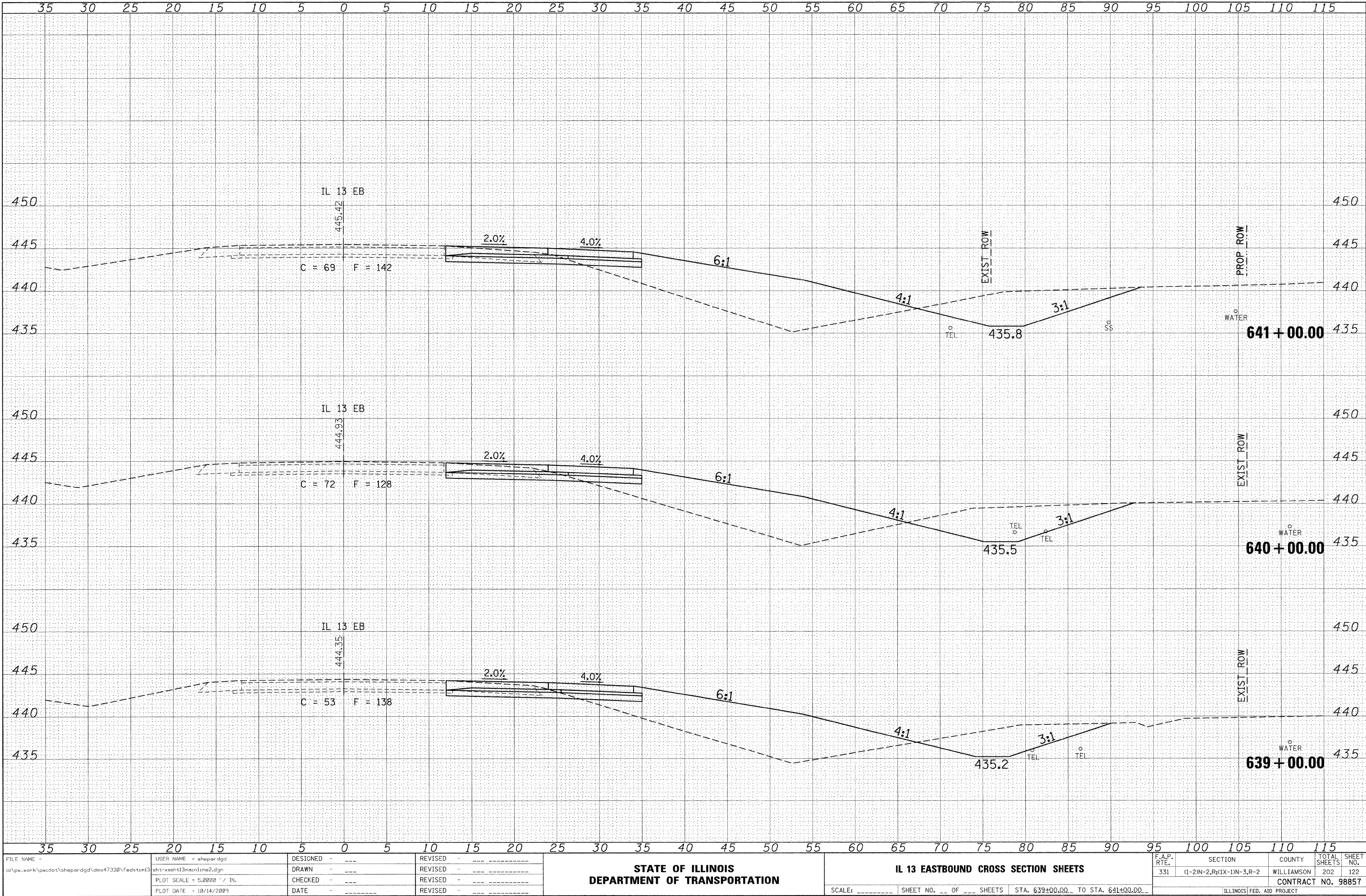
DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



35		30		25		20		15		10		5		0		5		10		15		20		25		30		35		40		45		50		55		60		65		70		75		80		85		90		95		100		105		110		115	
FILE NAME = c:\pw\work\p\wdot\shepardgd\dms47330\Fedstml3				USER NAME = shepardgd				DESIGNED - ---				REVISED - ---				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION												IL 13 EASTBOUND CROSS SECTION SHEETS												F.A.P. RTE. 331	SECTION (1-2)N-2,R;(1X-1)N-3,R-2				COUNTY WILLIAMSON		TOTAL SHEETS 202	SHEET NO. 121													
				shht-xssht13mainline2.dgn				DRAWN - ---				REVISED - ---																																																	
				PLOT SCALE = 5,0000' / IN.				CHECKED - ---				REVISED - ---																																																	
				PLOT DATE = 10/14/2009				DATE - ---				REVISED - ---																																																	
																SCALE: _____												SHEET NO. ____ OF ____ SHEETS				STA. 637+00.00 TO STA. 638+24.89				ILLINOIS FED. AID PROJECT												CONTRACT NO. 98857													

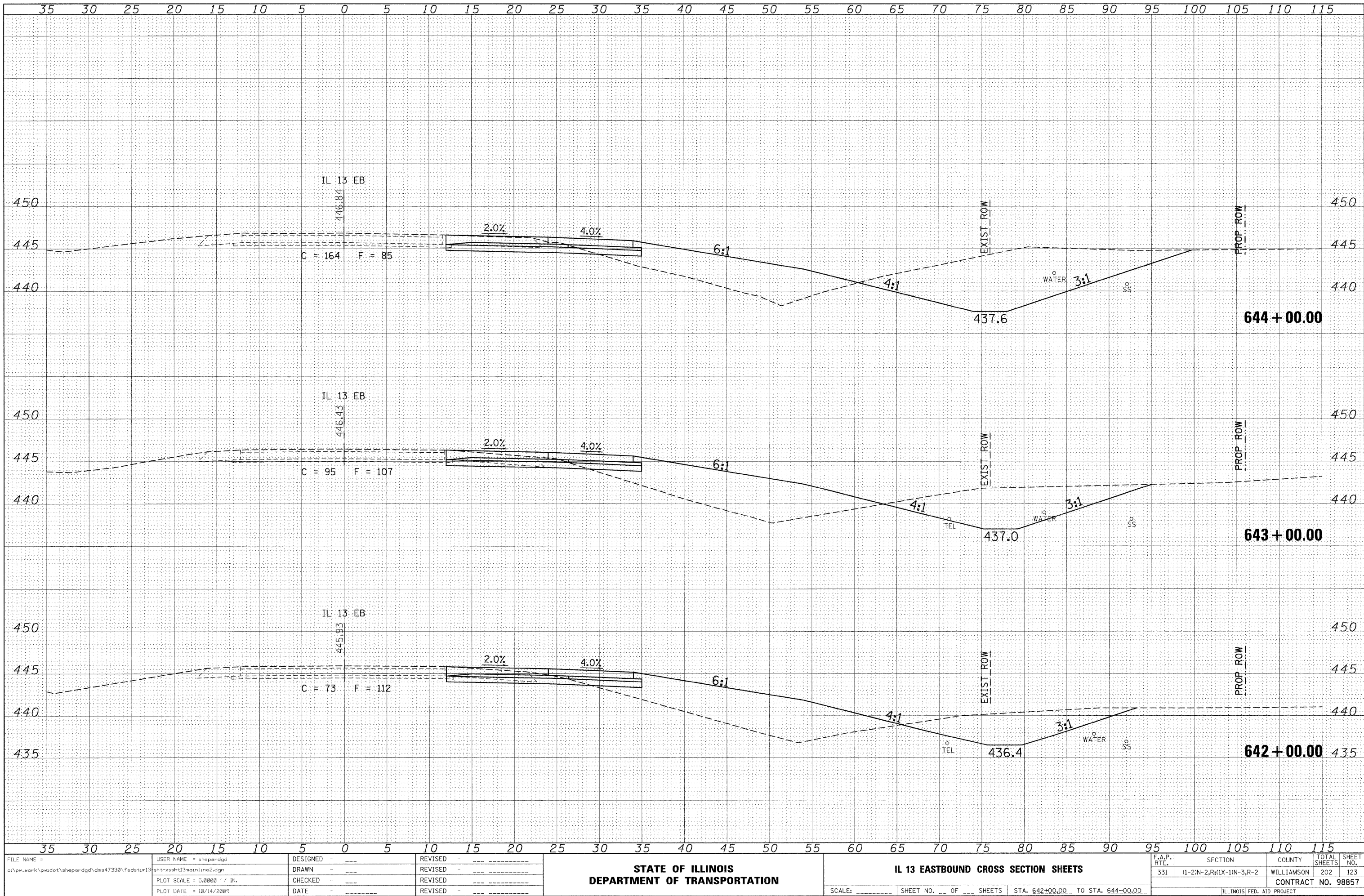
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

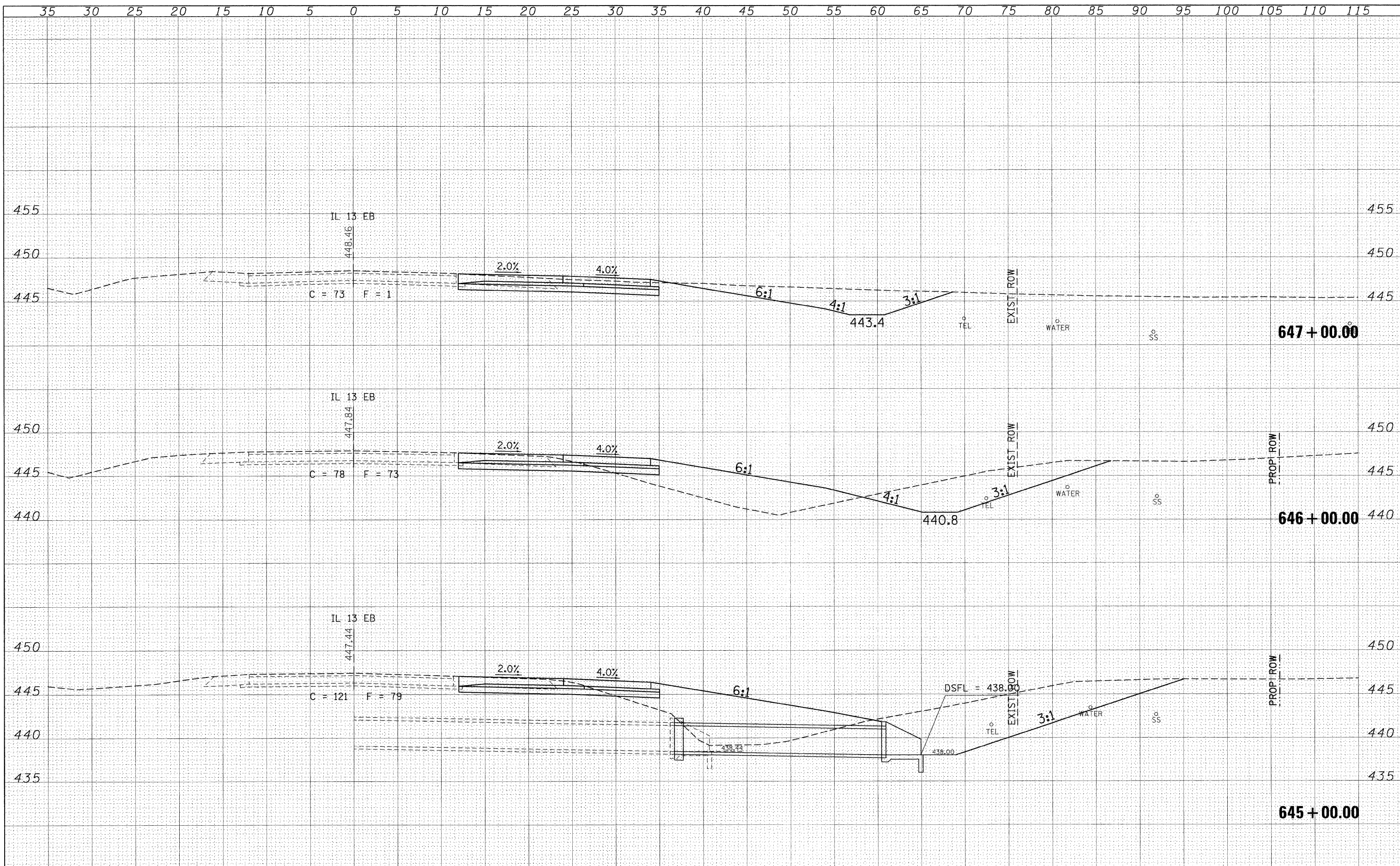


DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



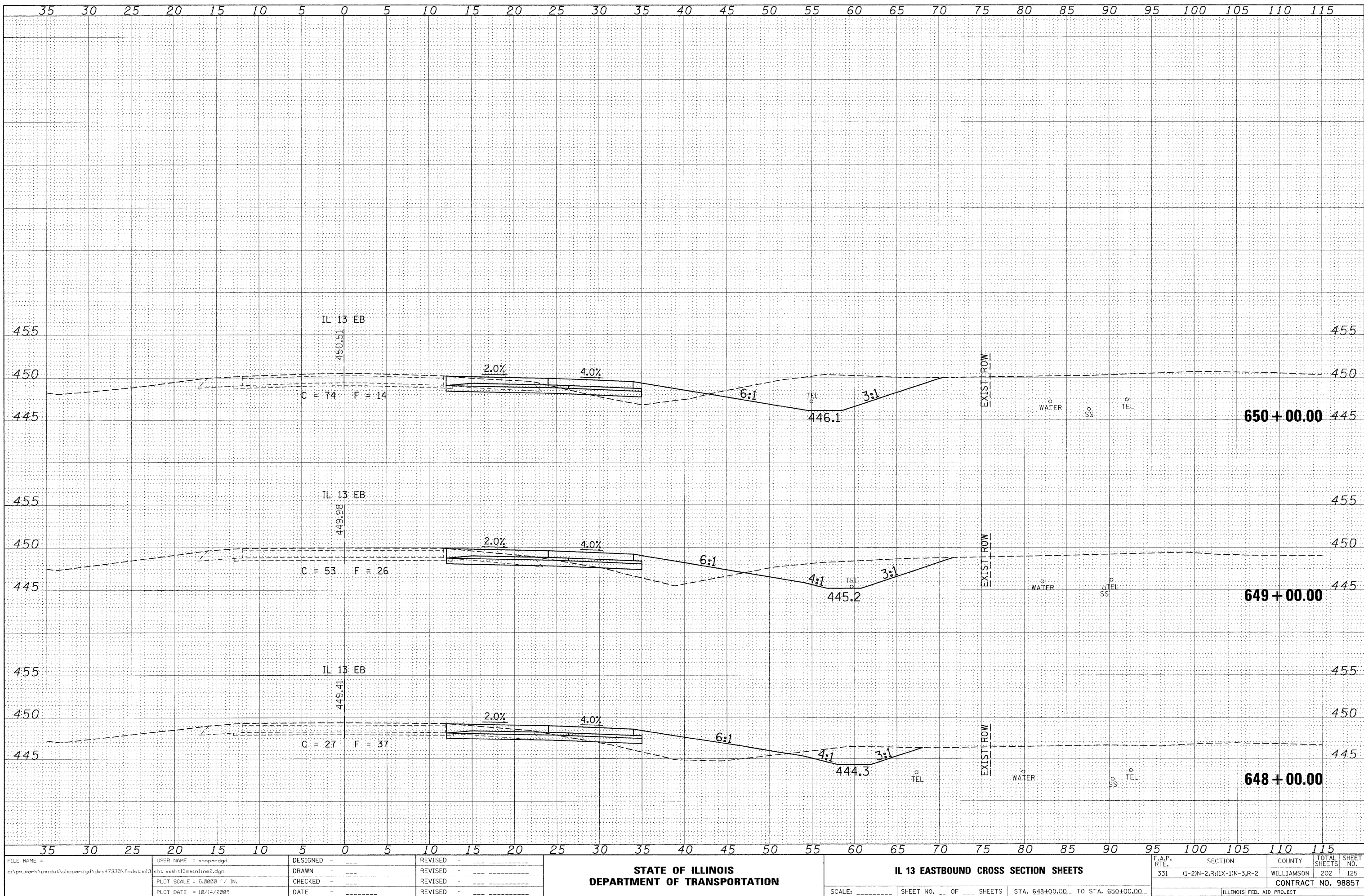
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PIOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO.	AREAS CHECKED _____		



ORIGINAL SURVEY		BY	DATE
NOTED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			

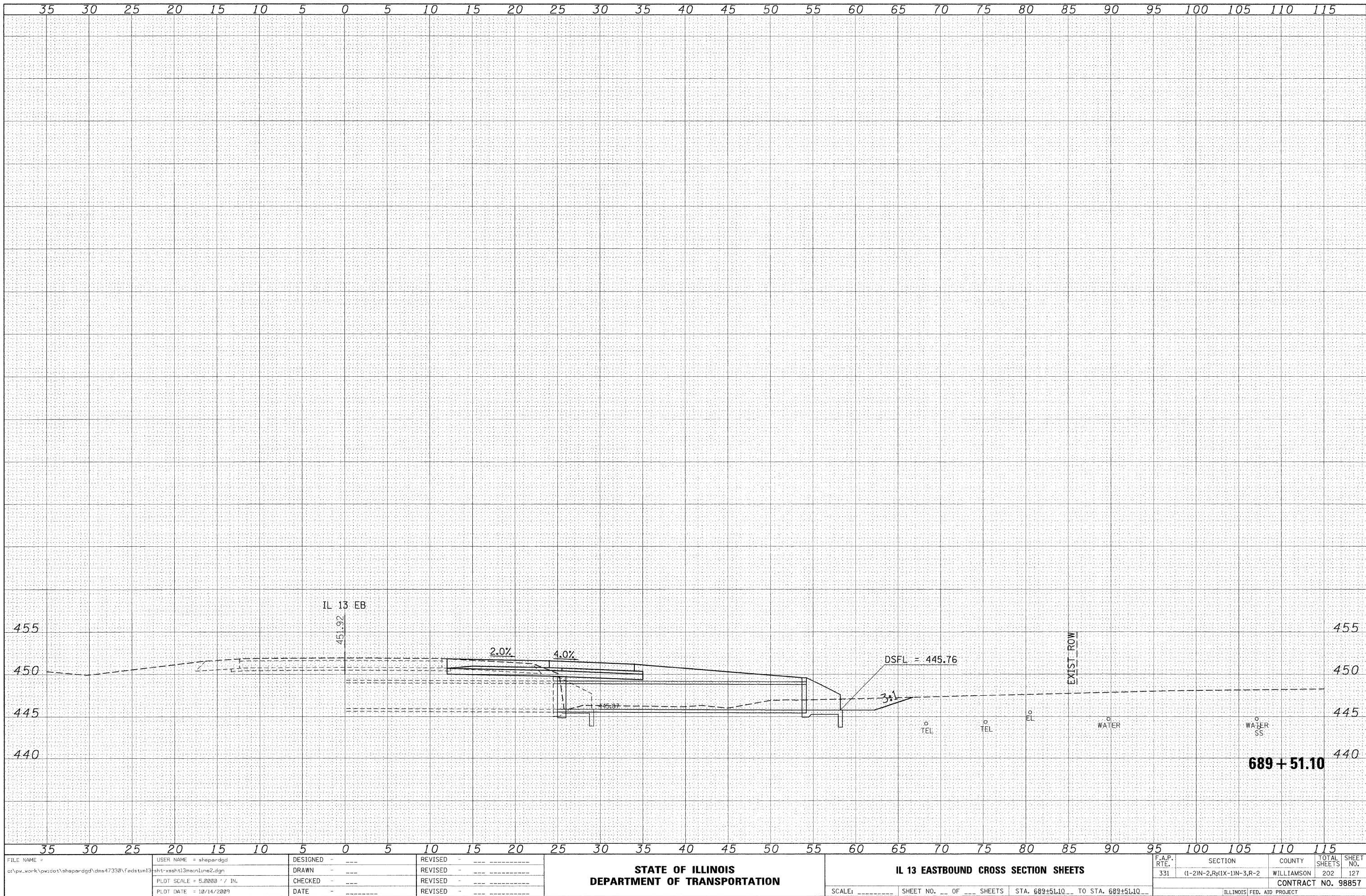
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FILE NAME =									USER NAME = shepardgd									DESIGNED - ---									REVISED - ---									STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION																																				IL 13 EASTBOUND CROSS SECTION SHEETS												F.A.P. RTE.		(1-2)N-2,R;(1X-1)N-3,R-2						COUNTY				TOTAL SHEETS		SHEET NO.																													
c:\pwwork\pwwork\shepardgd\dms47330\fedstml3									sht-xssht13mainline2.dgn									DRAWN - ---									REVISED - ---																																																									331								WILLIAMSON				202		124																													
									PLOT SCALE = 5.0000 ' / IN.									CHECKED - ---									REVISED - ---																																																									CONTRACT NO. 98857																																						ILLINOIS FED. AID PROJECT					
									PLOT DATE = 10/14/2009									DATE - ---									REVISED - ---																																																																																																				

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



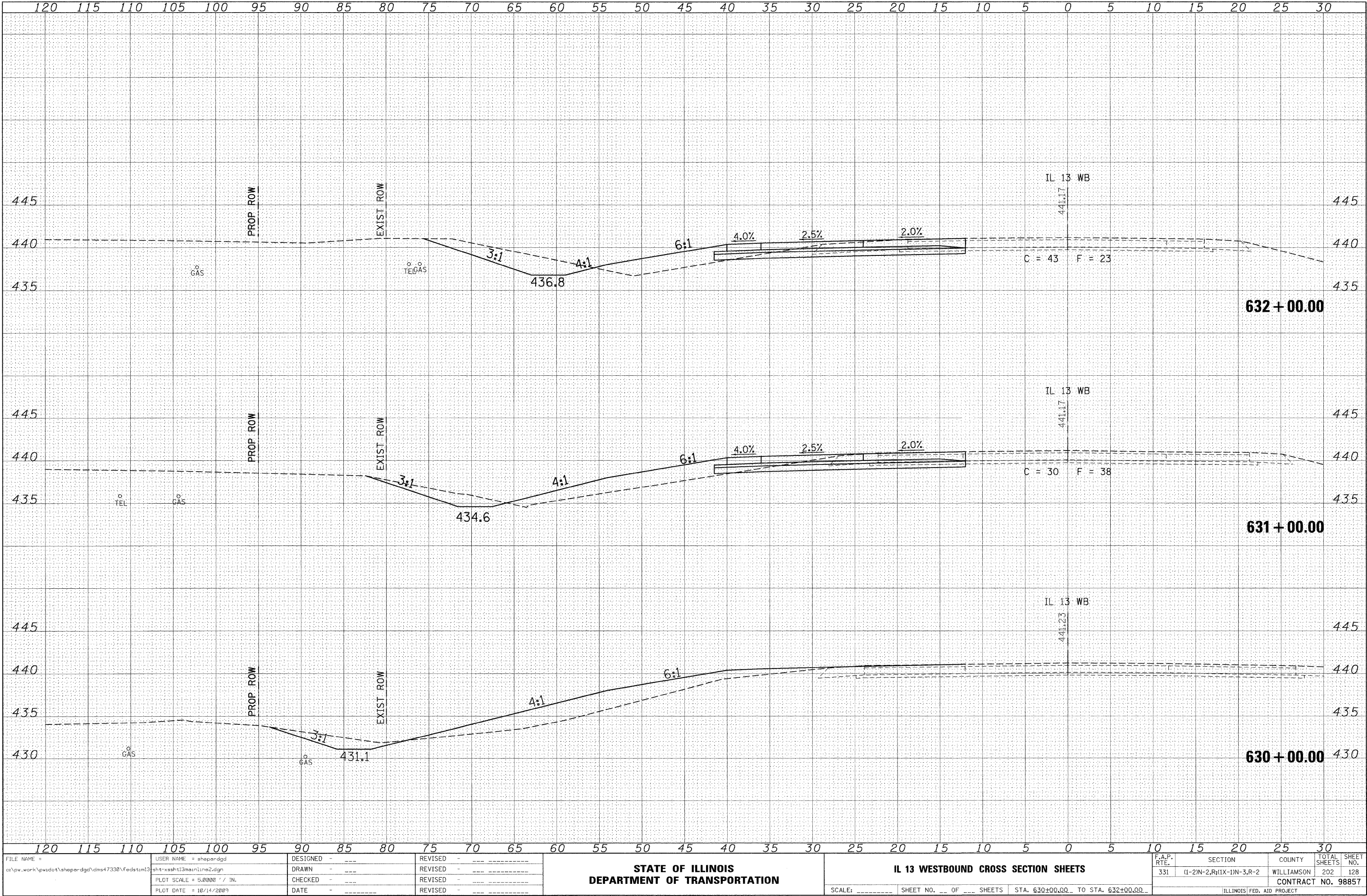
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

ORIGINAL SURVEY				BY	DATE
NOTE BOOK					
NO.					



BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NO.	
AREAS CHECKED	

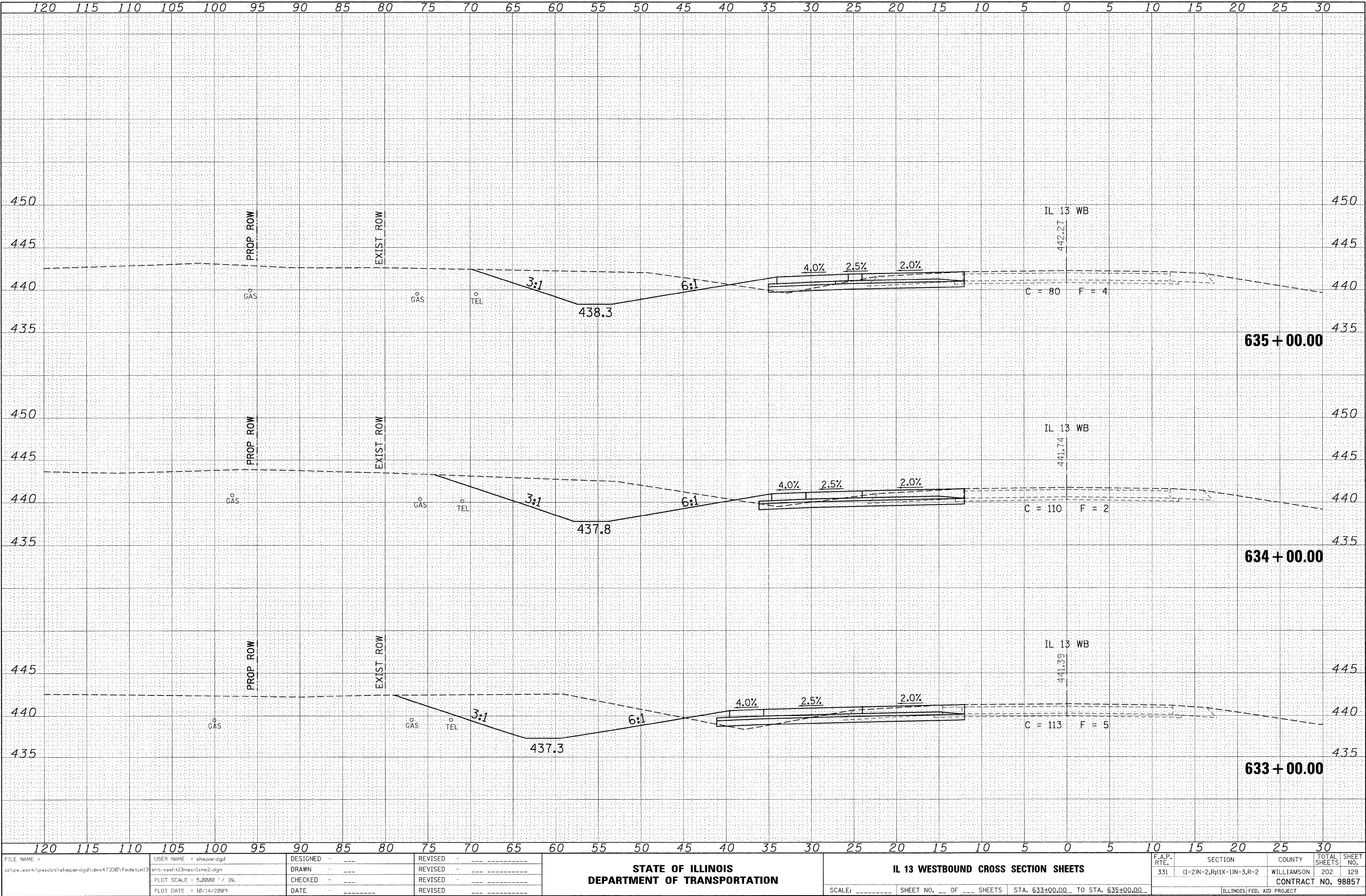
BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NO.	
AREAS CHECKED	



FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 WESTBOUND CROSS SECTION SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\pwidot\shepardgd\cns47330\fedstml3	sht-xssht13mainline2.dgn	DRAWN -	REVISED -			331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	128	
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 98857					
	PLOT DATE = 10/14/2009	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. 630+00.00 TO STA. 632+00.00											

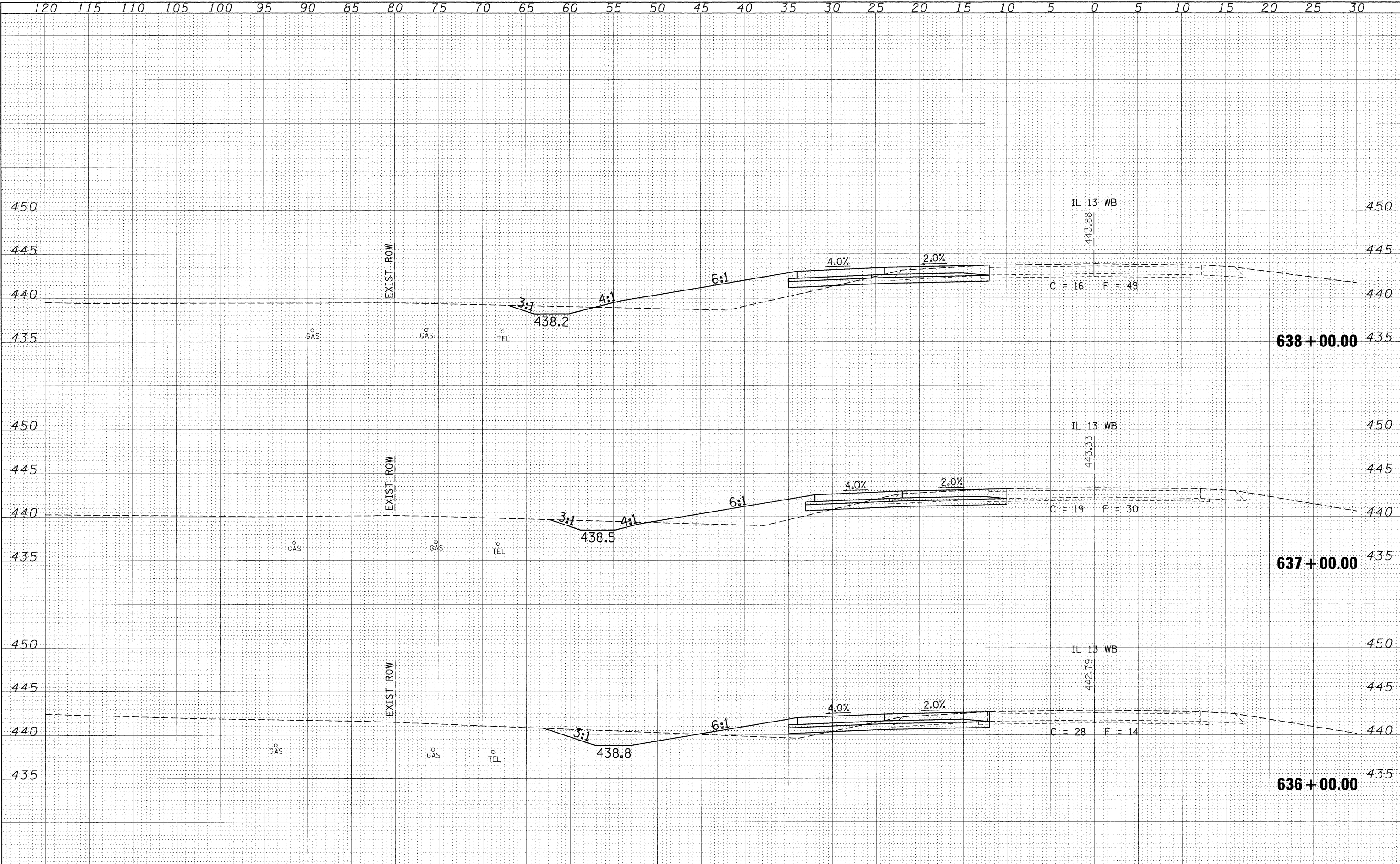
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



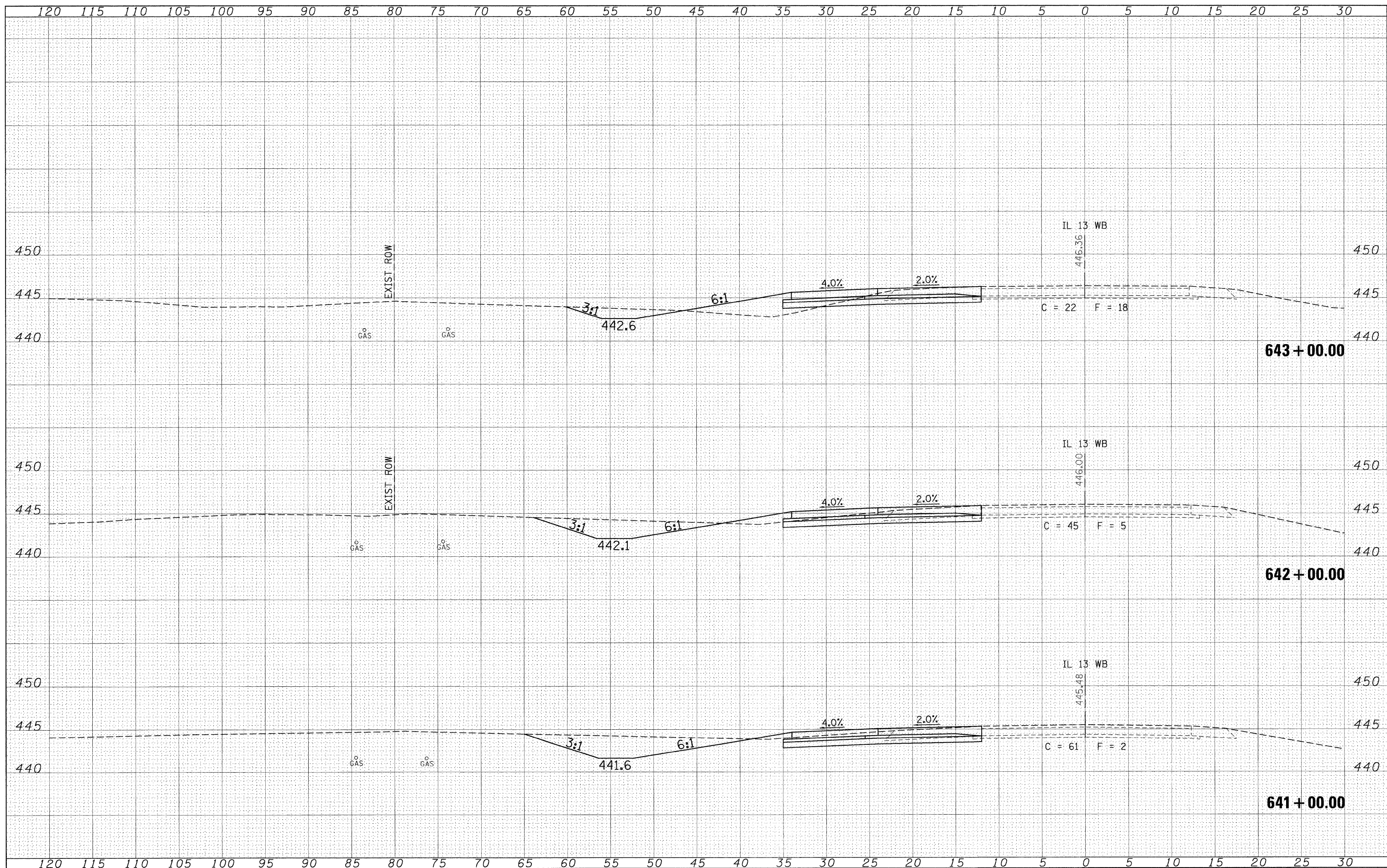
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



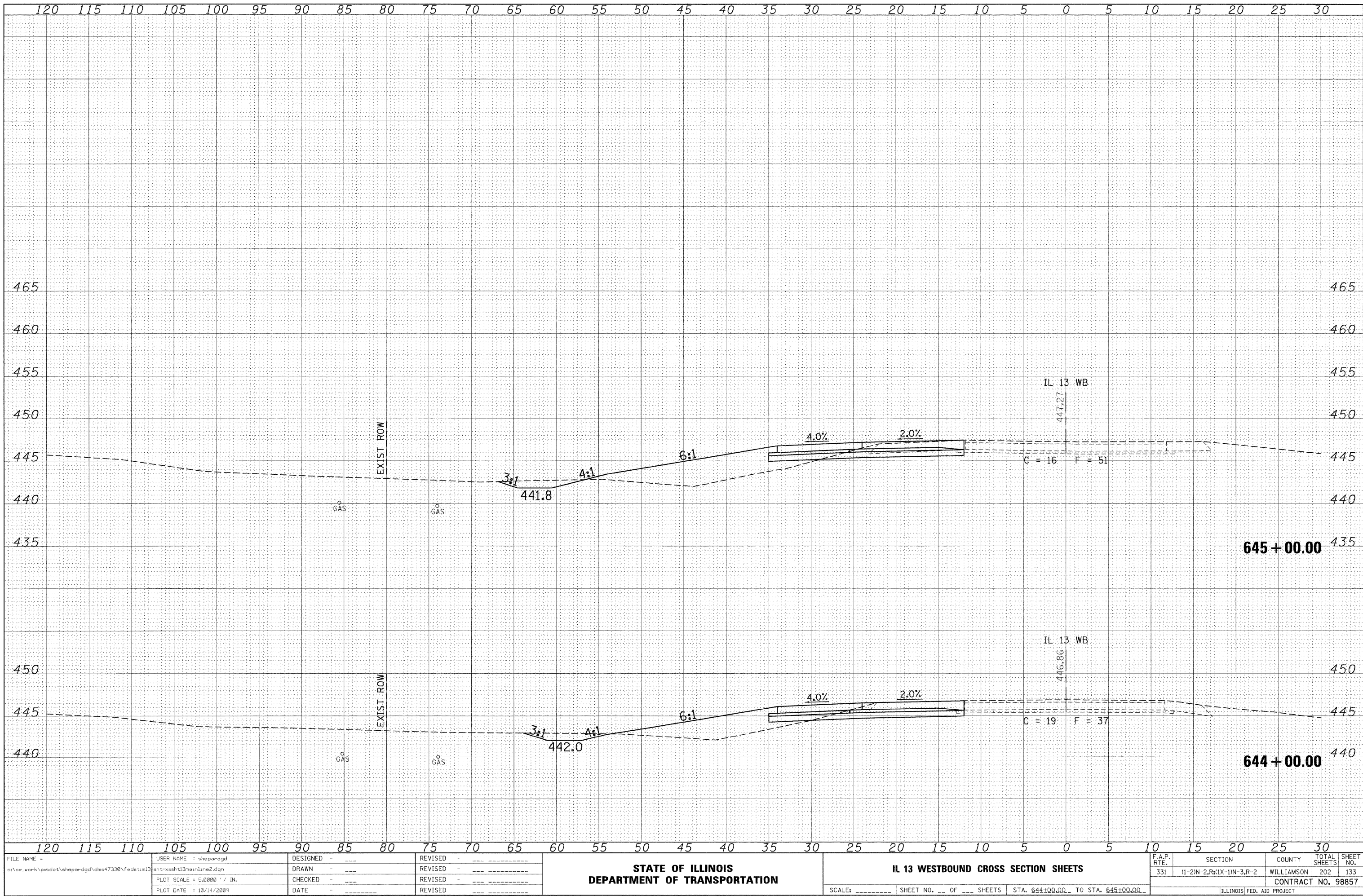
	SURVEYED	BY _____	DATE _____
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

ORIGINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			



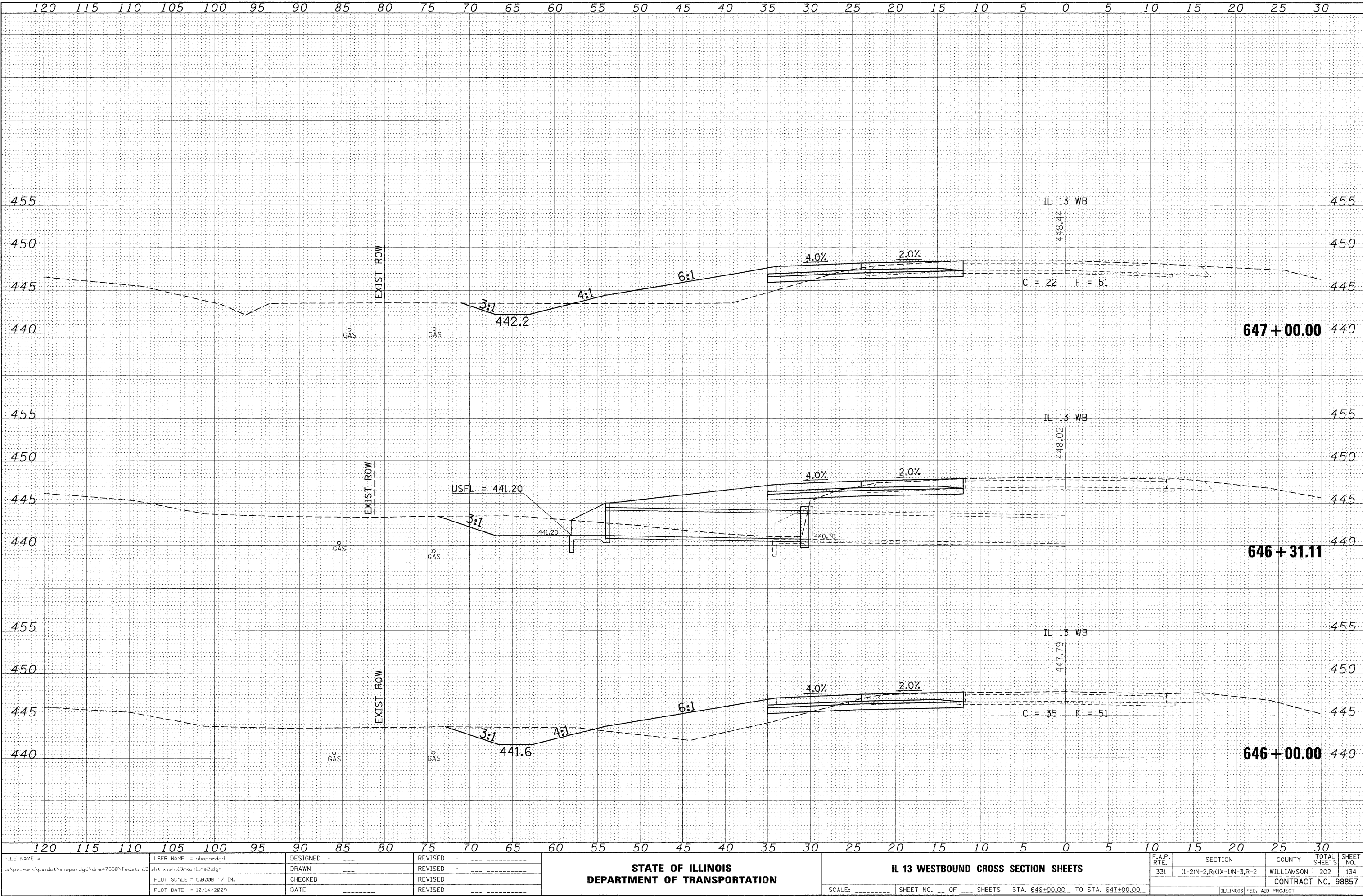
FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 WESTBOUND CROSS SECTION SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\pw_work\pwidot\shepardgd\dms47330\Fedatml3	shhtxsshtl3mainline2.dgn	DRAWN -	REVISED -			331	(1-2)N-2,R,(1X-1)N-3,R-2	WILLIAMSON	202	132	
	PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 98857					
	PLOT DATE = 10/14/2009	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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



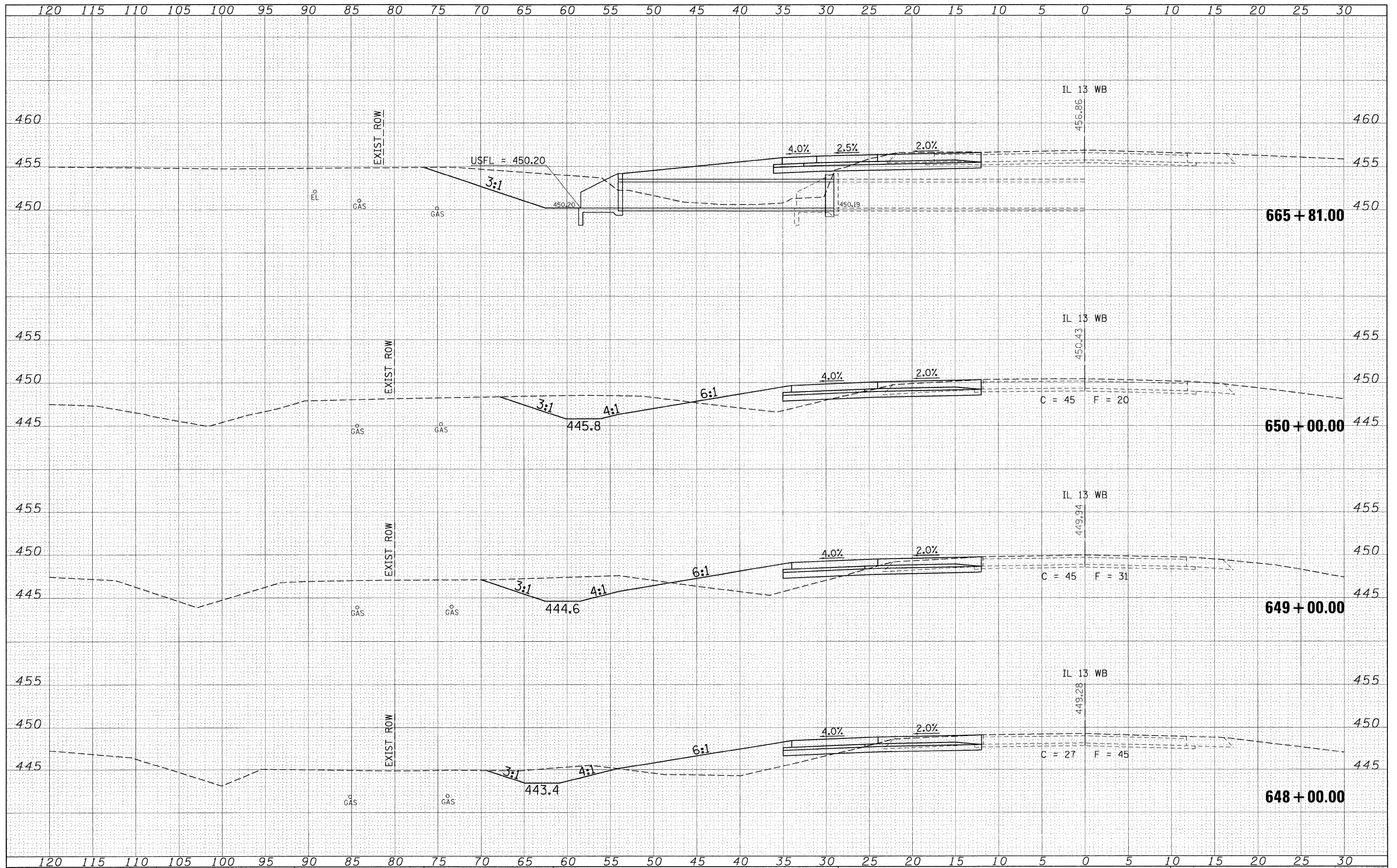
DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	

DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	



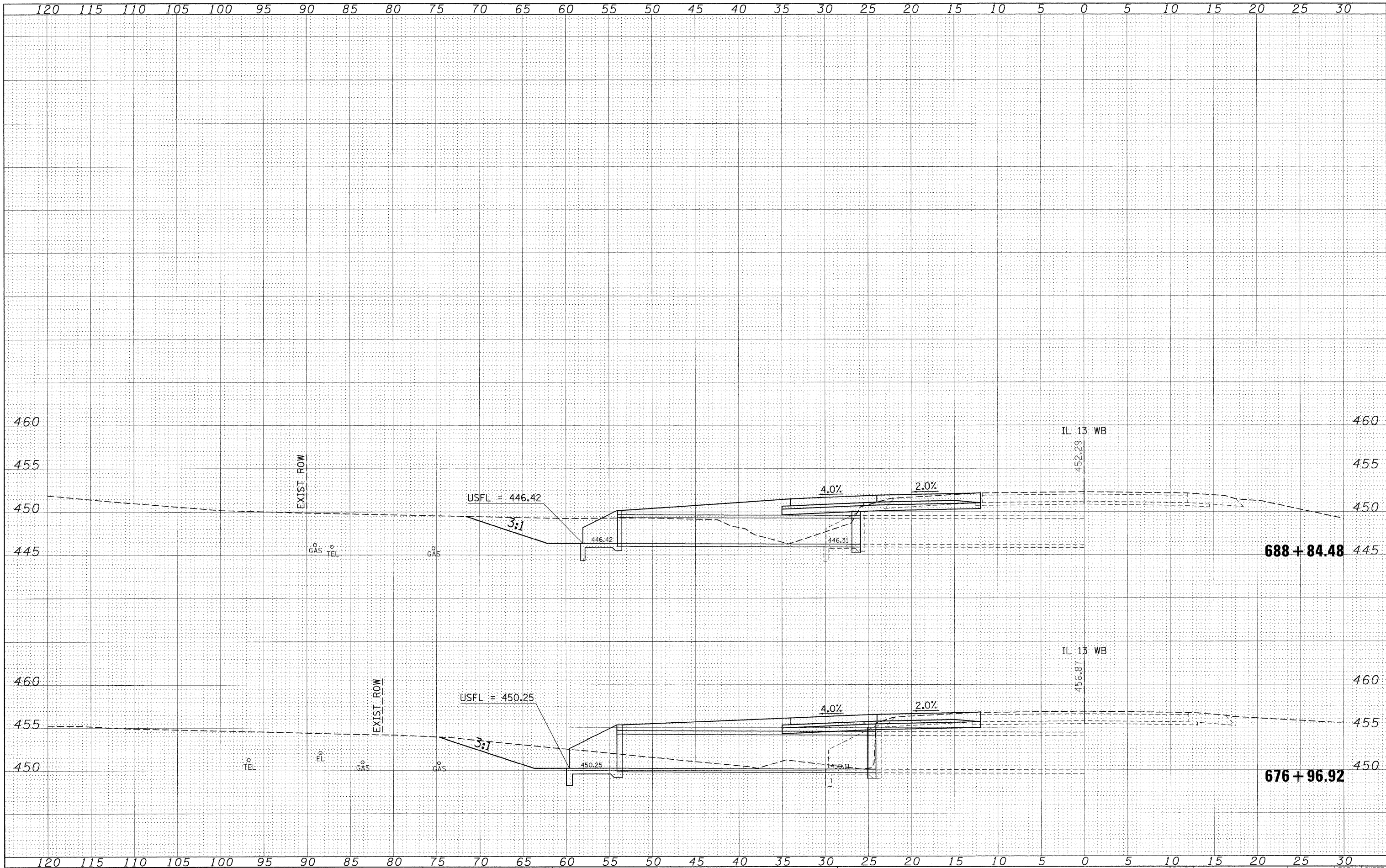
FINAL SURVEY	SURVEYED _____		BY _____	DATE _____
NOTE BOOK	PLOTTED _____			
NO.	TEMPLATE _____			
	AREAS _____			
	AREAS CHECKED _____			

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



FILE NAME =	USER NAME = shepardgd	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 WESTBOUND CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs\pw_work\pwidot\shepardgd\dms47338\fedstml3	shtxsstl3mainline2.dgn	DRAWN - ---	REVISED - ---					331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	135
	PLOT SCALE = 5.0000 ' / ' IN.	CHECKED - ---	REVISED - ---		CONTRACT NO. 98857							
	PLOT DATE = 10/14/2009	DATE - ---	REVISED - ---		SCALE: -----	SHEET NO. -- OF -- SHEETS	STA. 648+00.00 TO STA. 665+81.00		ILLINOIS FED. AID PROJECT			

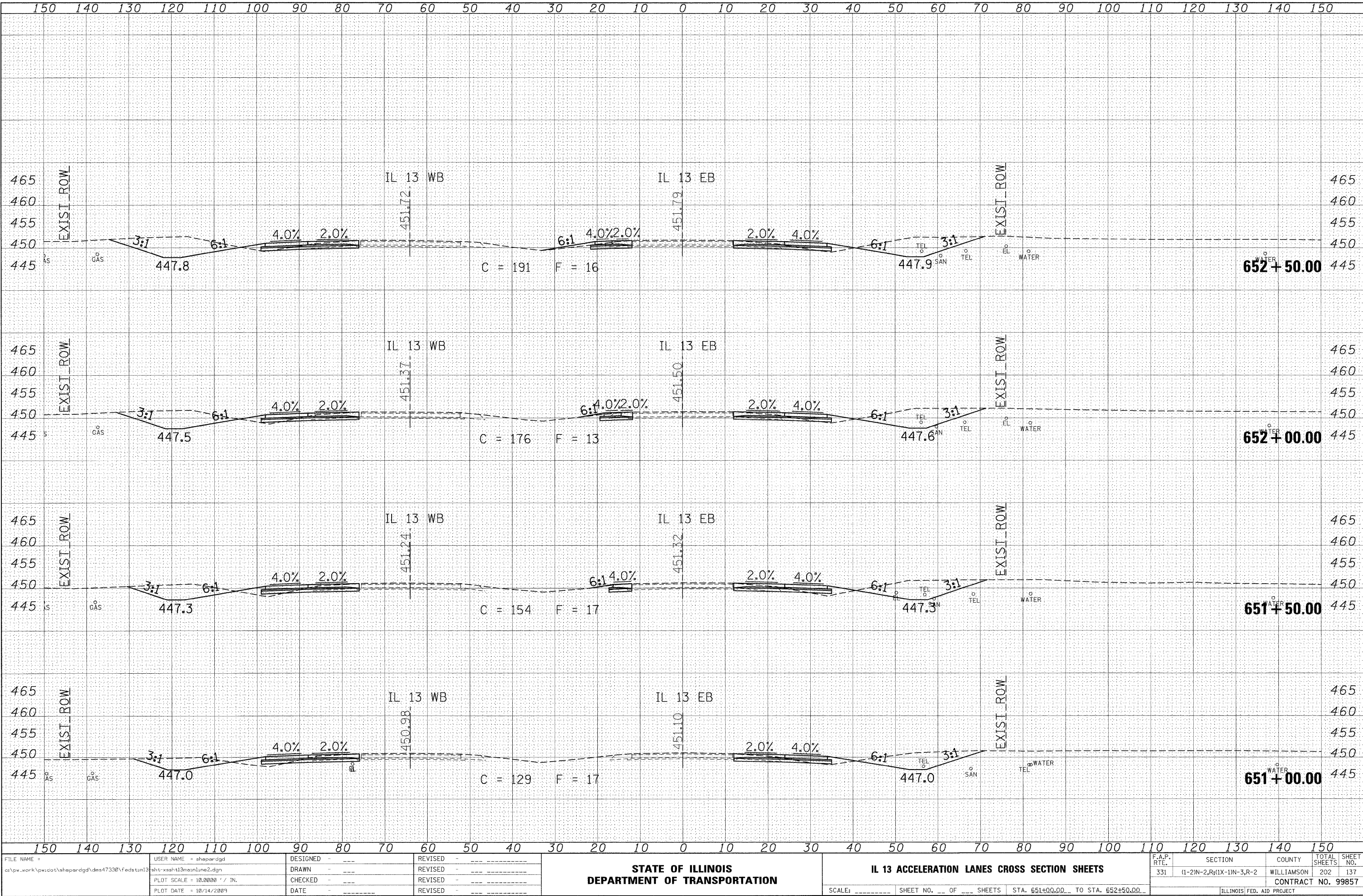
ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		



FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 WESTBOUND CROSS SECTION SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw_work\pwsdot\shepardgd\dms47330\fedstml3	sht-xshtl3mainline2.dgn	DRAWN -	REVISED -			331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	136	
	PLOT SCALE = 5.0000 ' / IN.	CHECKED -	REVISED -			CONTRACT NO. 98857					
	PLOT DATE = 10/14/2009	DATE -	REVISED -			SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. 676+96.92 TO STA. 688+84.48					
								ILLINOIS FED. AID PROJECT			

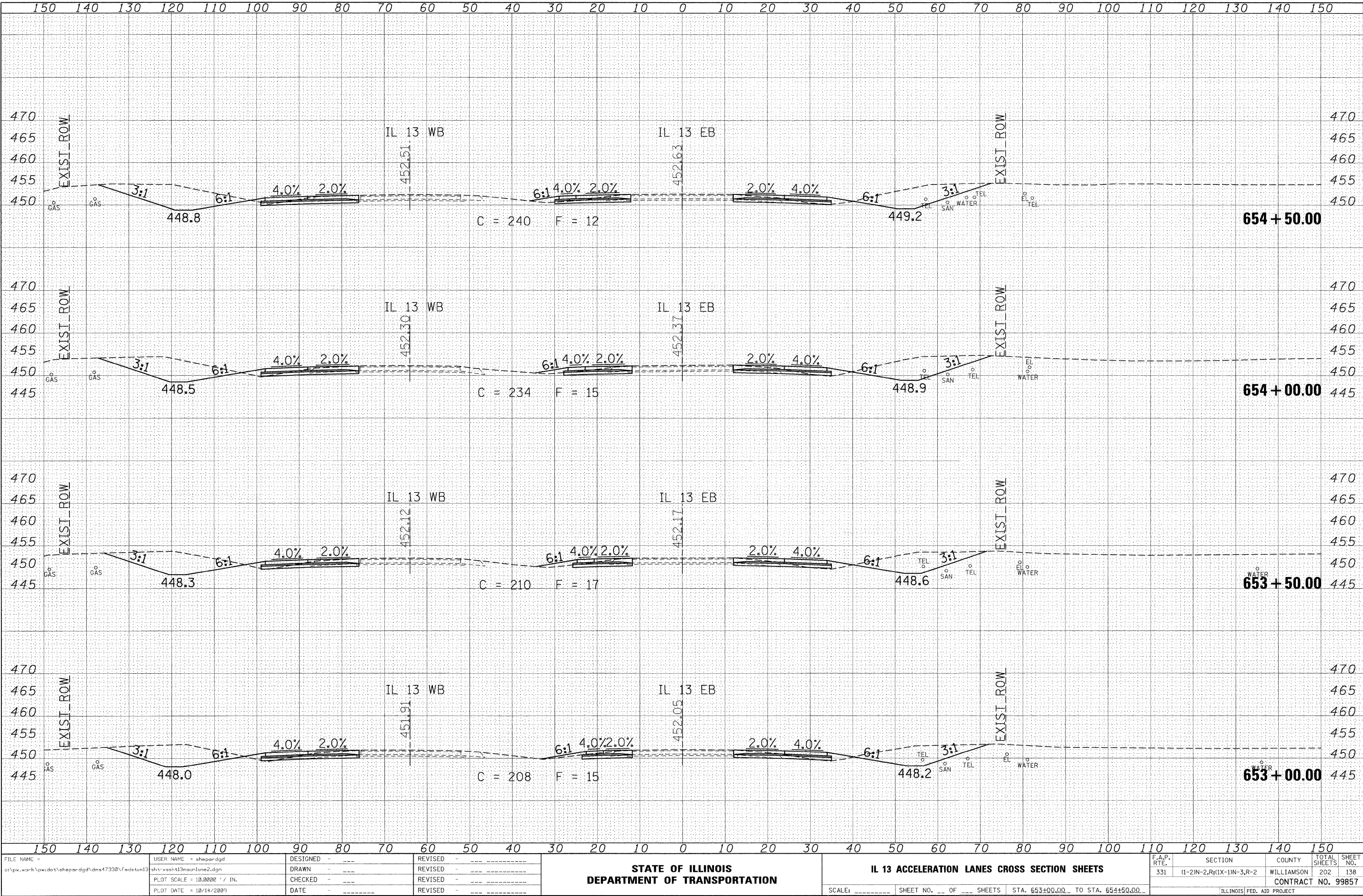
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

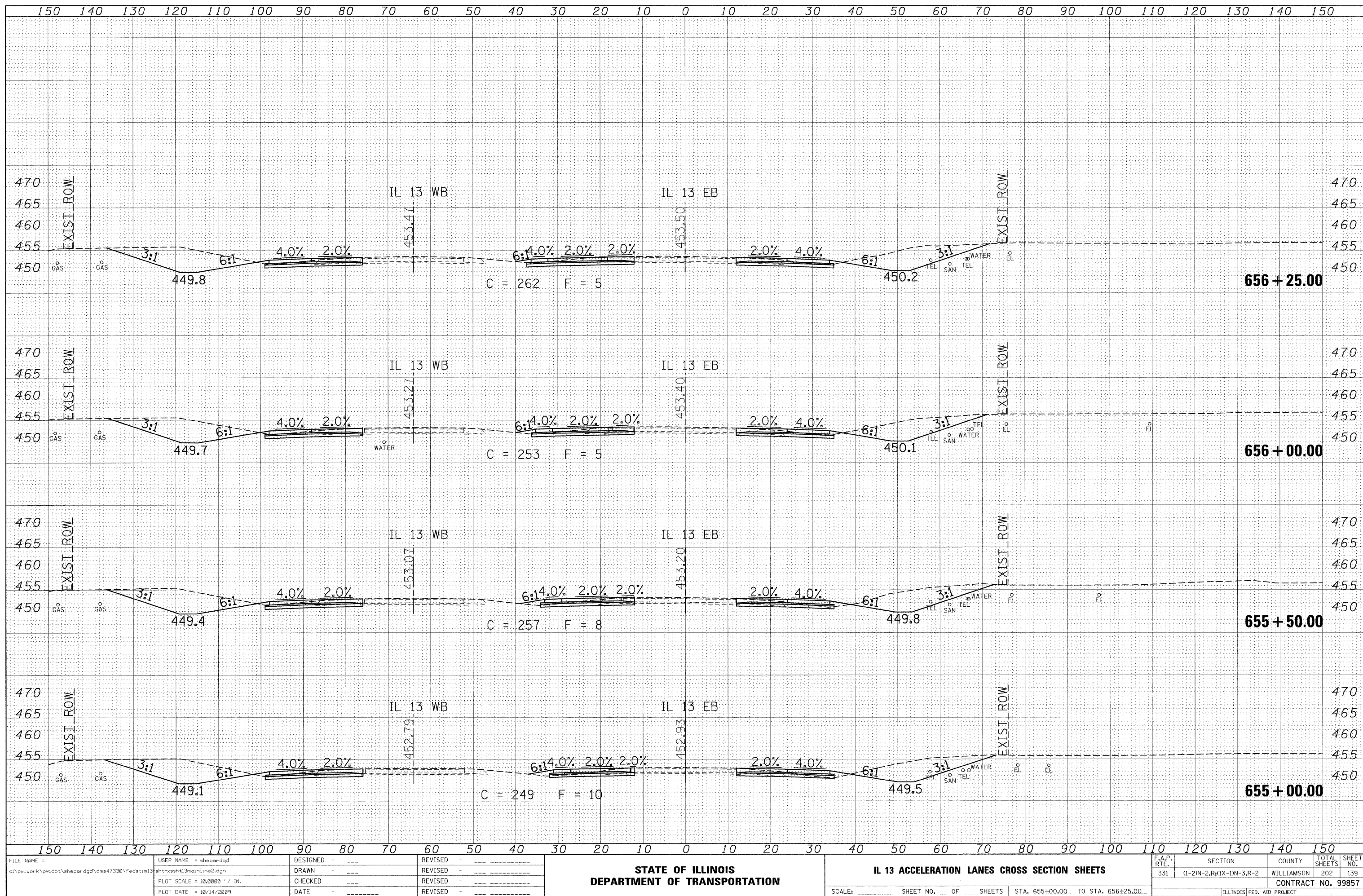
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



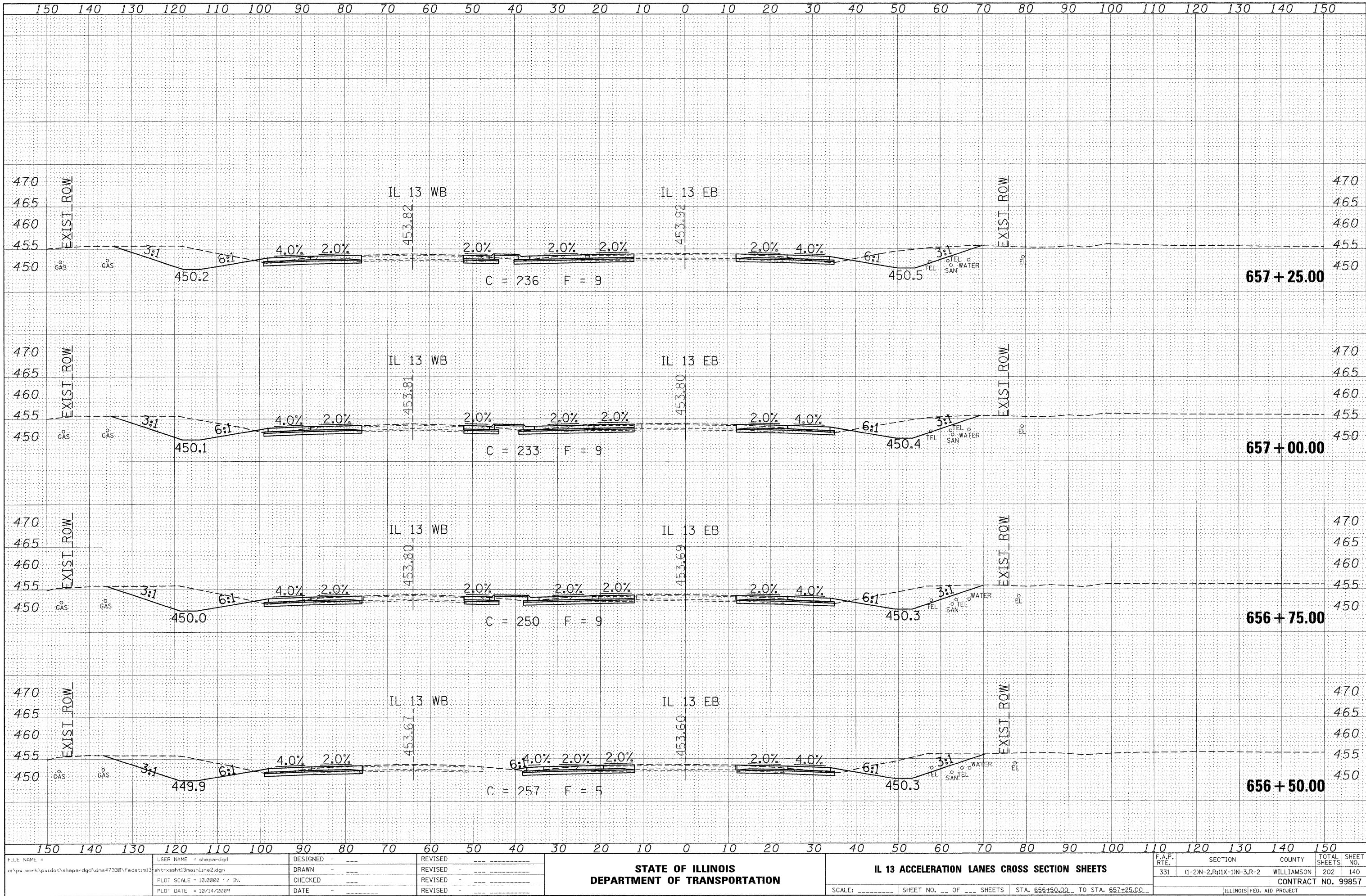
BY	DATE				
FINAL	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED	
NO.	NO.	NO.	NO.	NO.	NO.

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



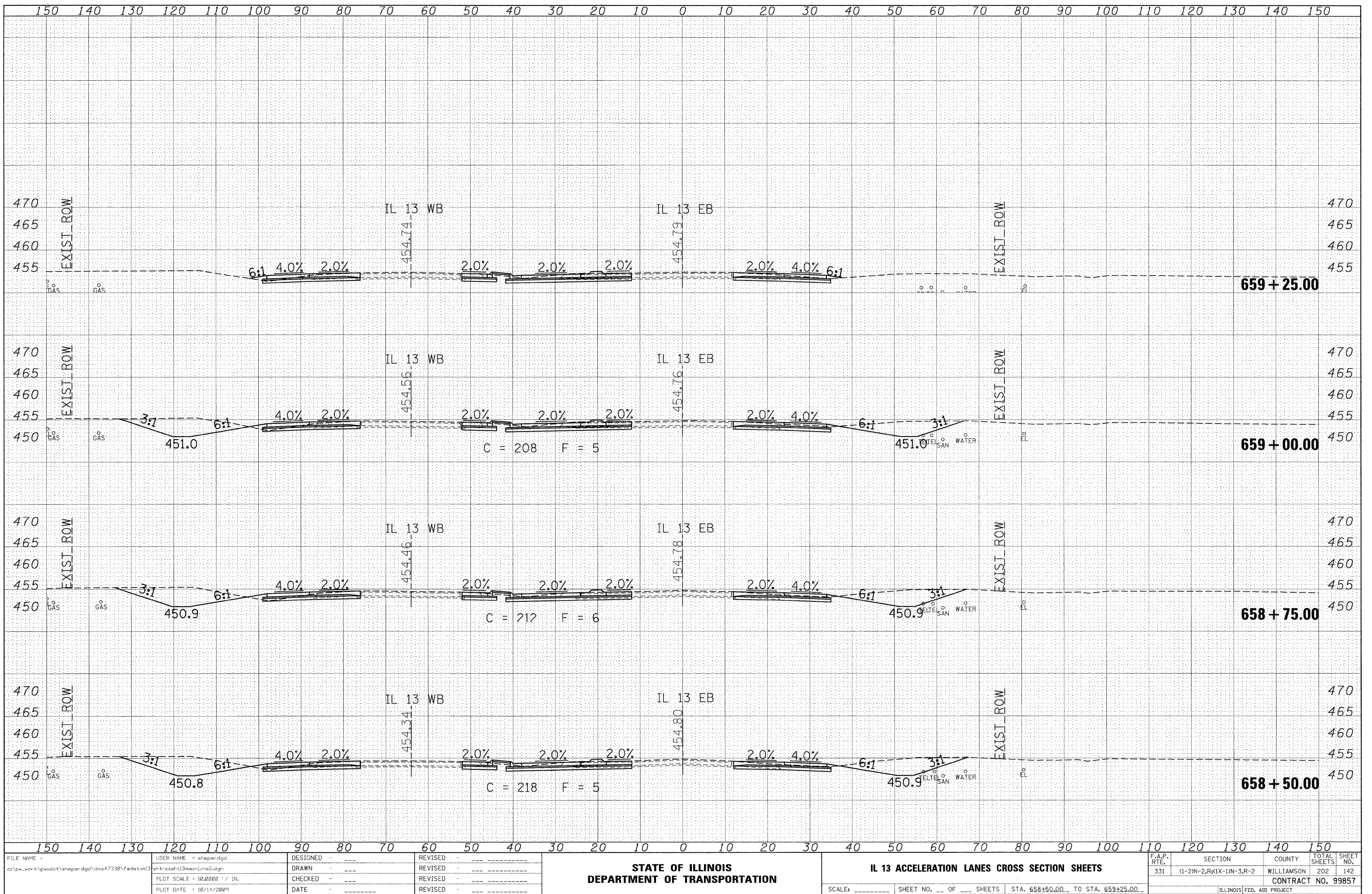


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NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AND AREAS CHECKED _____		



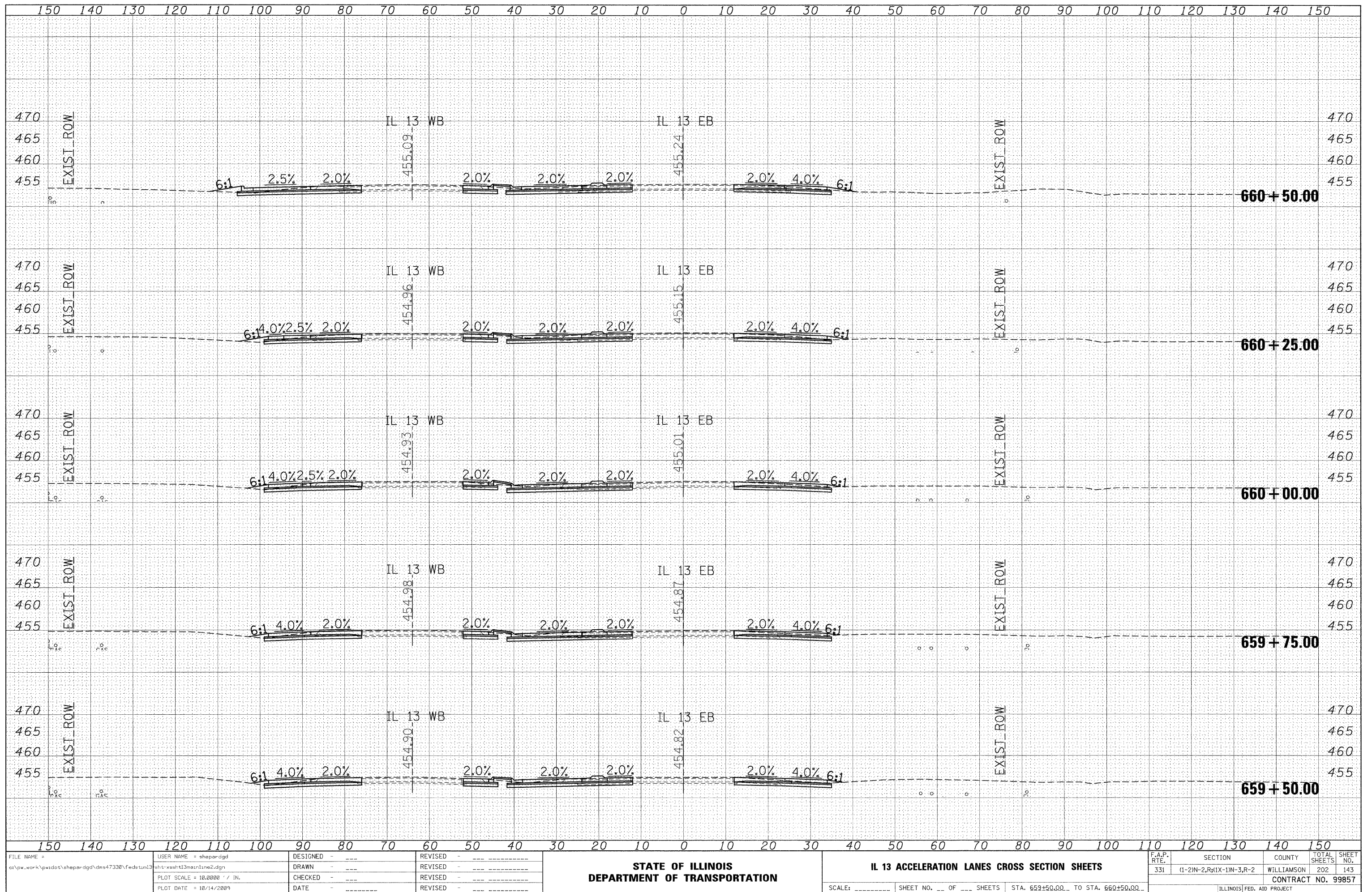
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NOTE BOOK			
NO.	AREAS CHECKED		

ORIGINAL SURVEY				BY	DATE
SURVEYED					
PLOTTED					
TEMPLATE					
AREAS					
AREAS CHECKED					



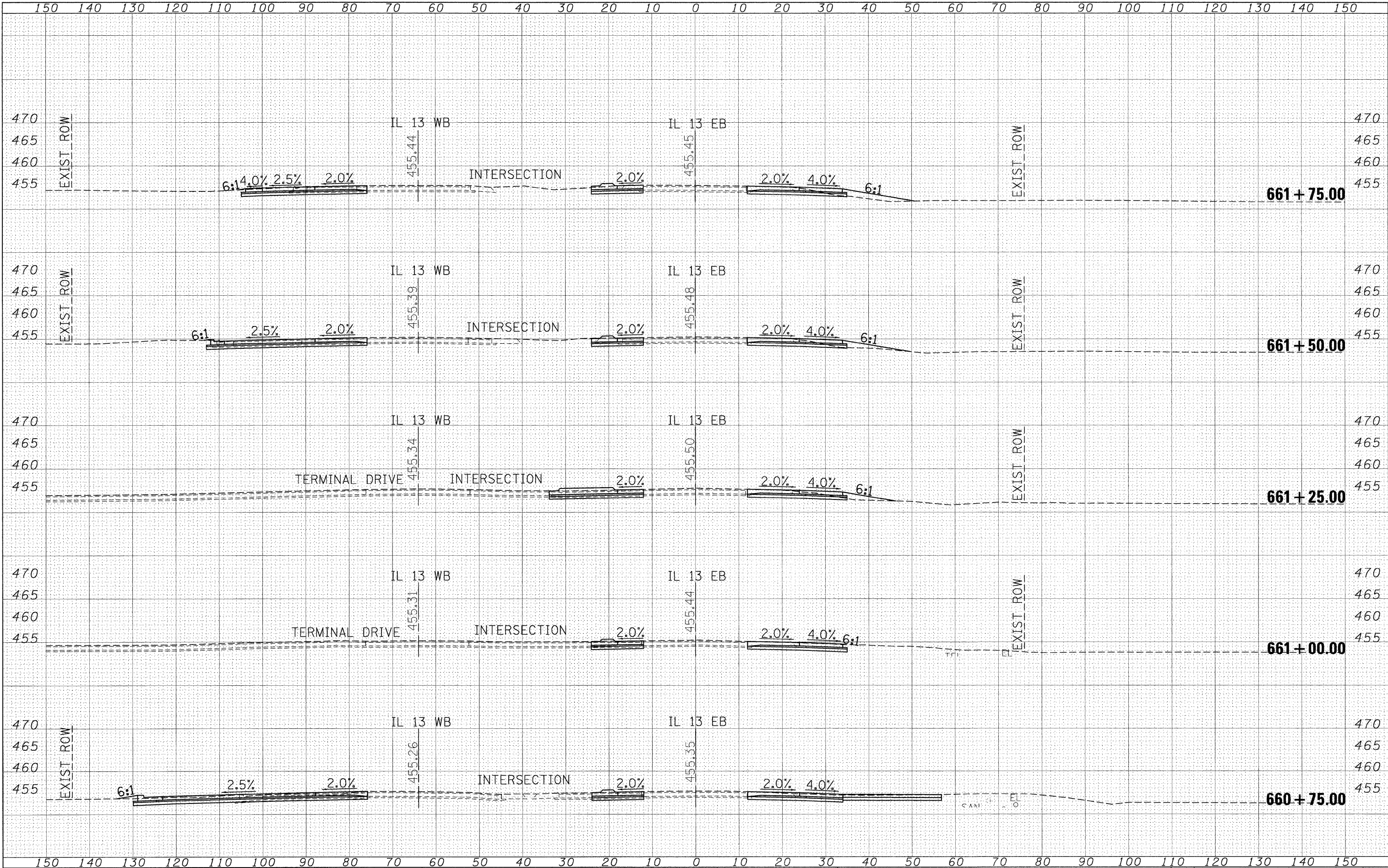
FINAL SURVEY	SURVEYED PIOTTED TEMPLATE AREAS AREAS CHECKED	BY	DATE
NO.			

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



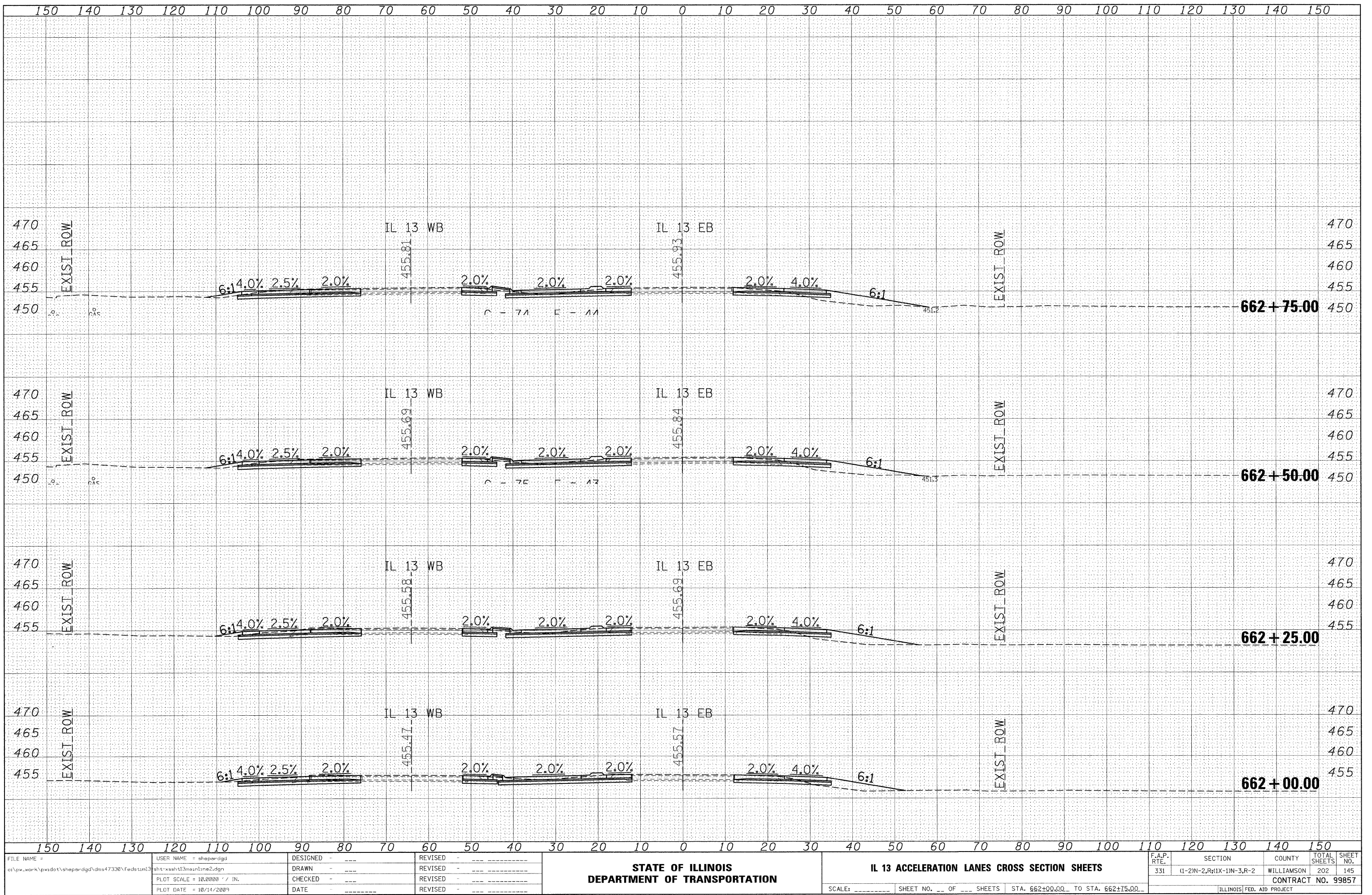
DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	BY
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



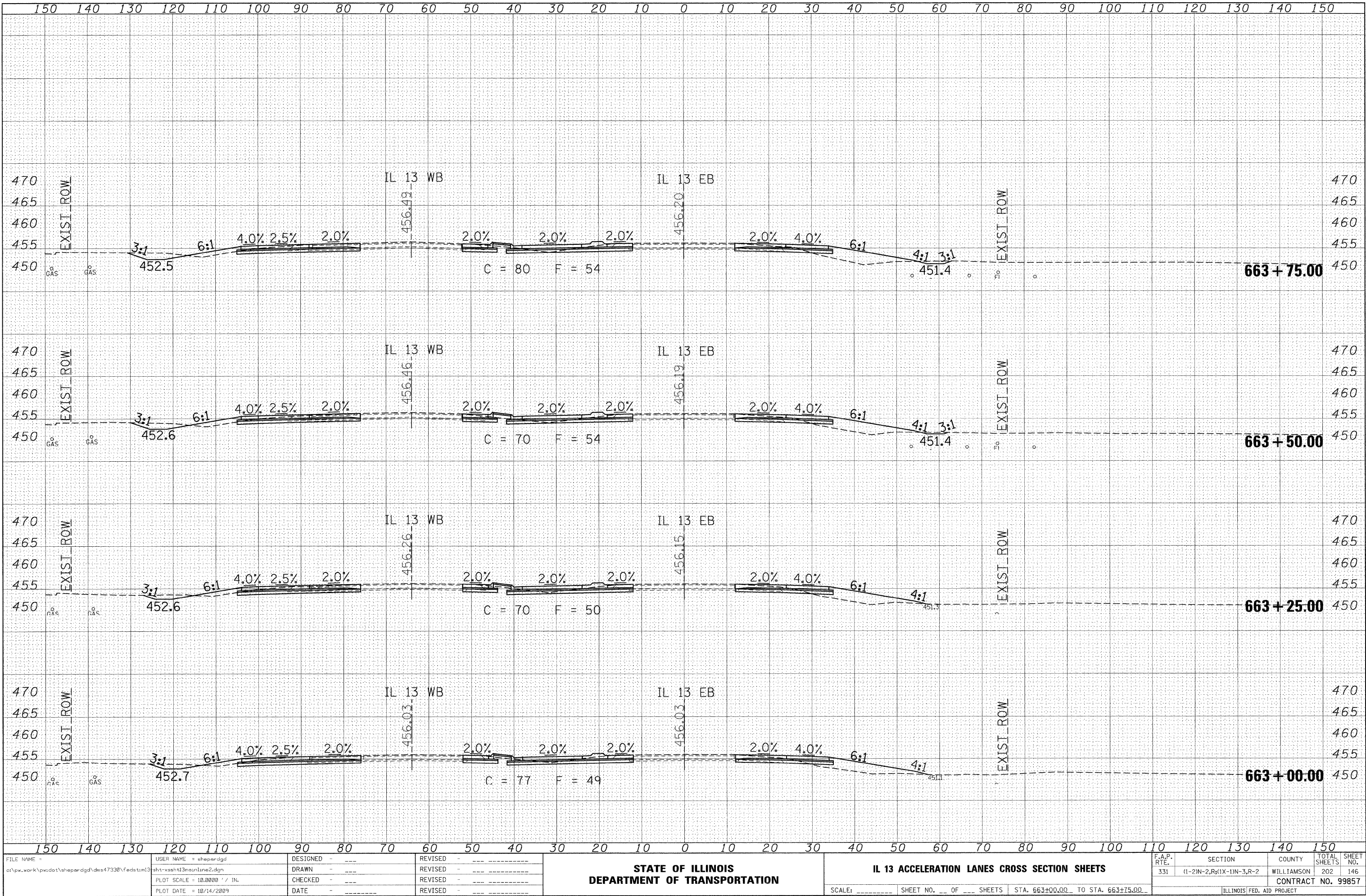
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO.	AREAS CHECKED _____		

ORIGINAL SURVEY		BY _____	DATE _____
NOTE BOOK		SURVEYED _____	
		PLOTTED _____	
		TEMPLATE _____	
		AREAS _____	
		AREAS CHECKED _____	

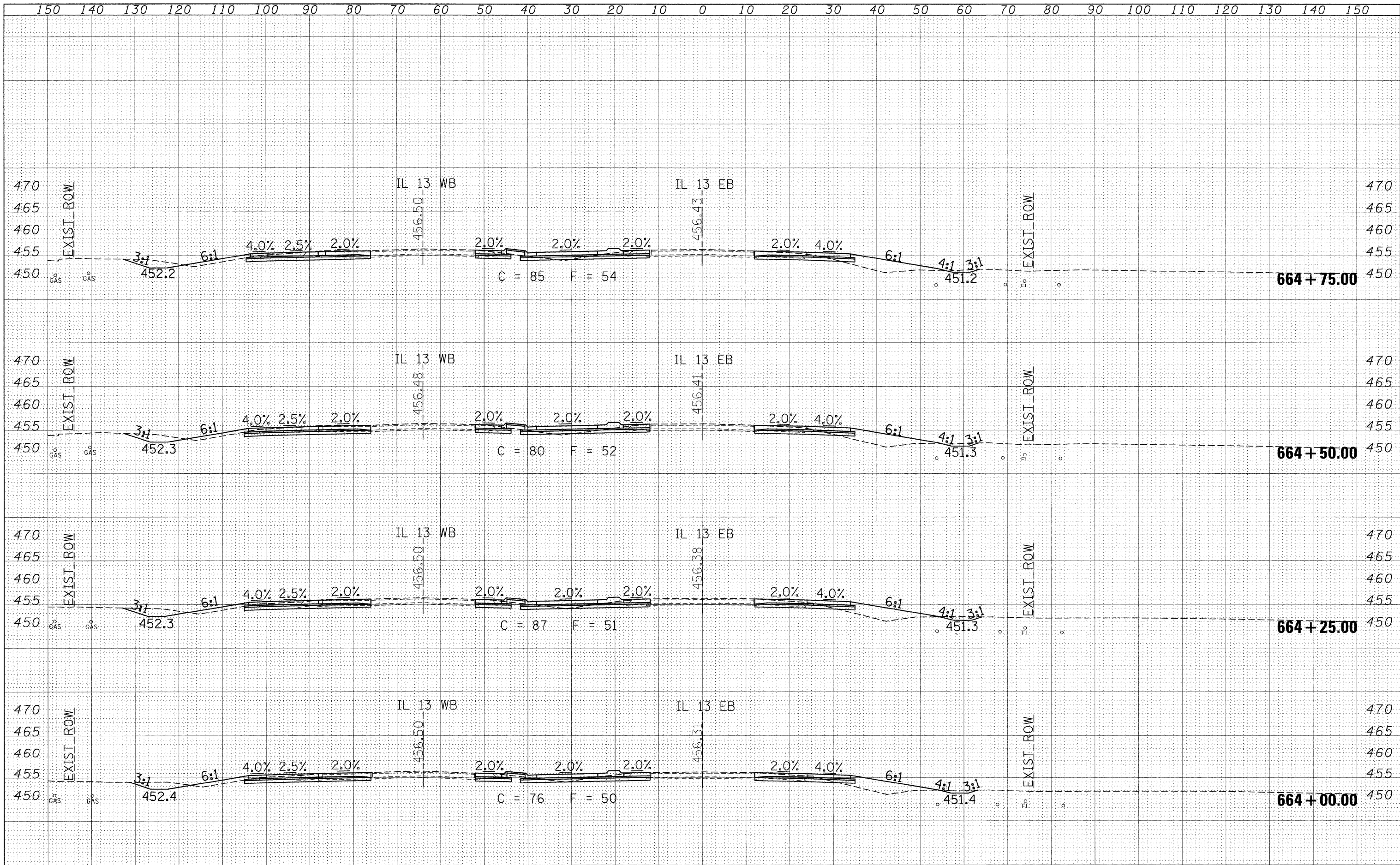


DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



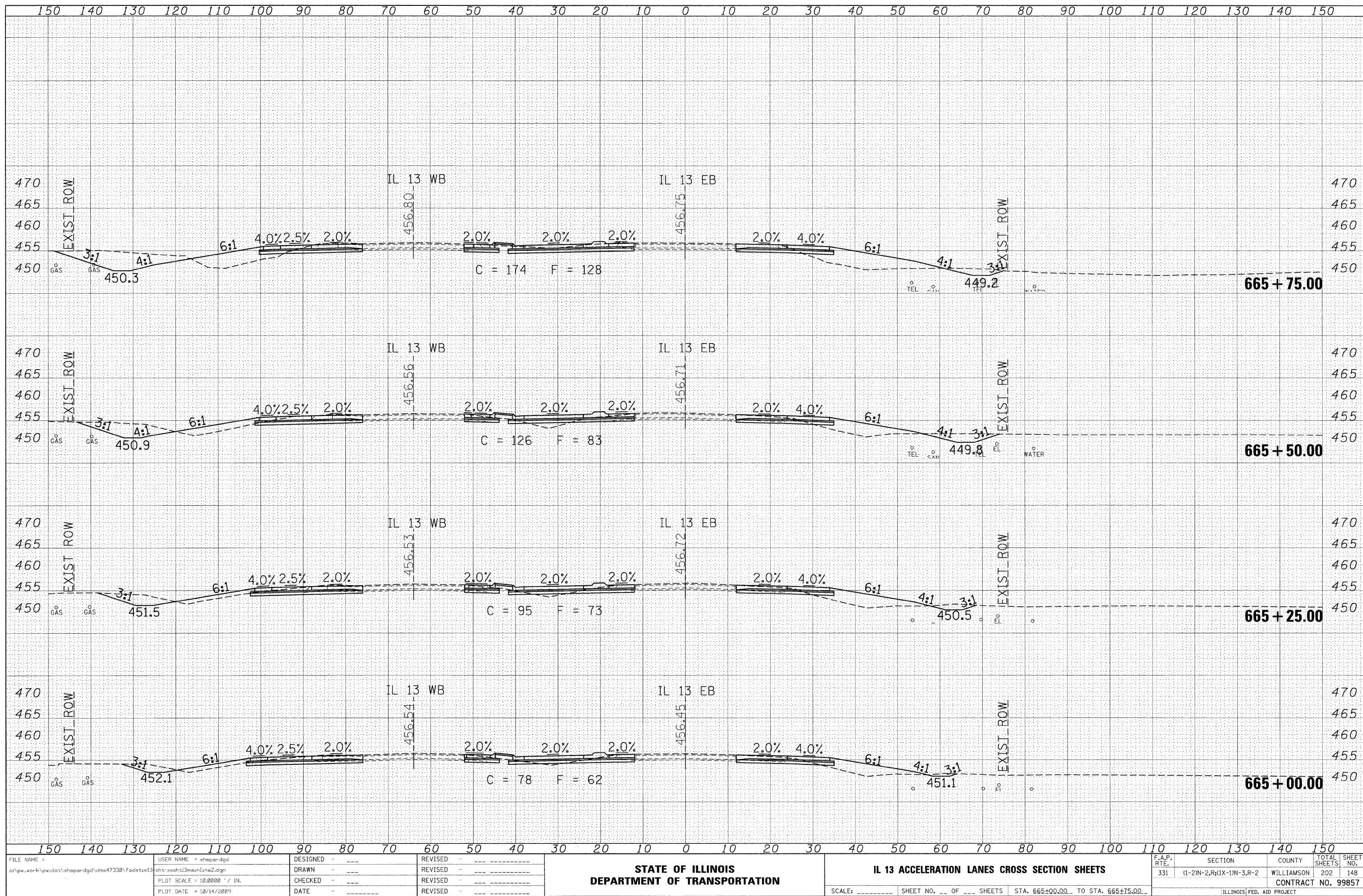
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NOTE BOOK	PLOTTED _____			
	TEMPLATE _____			
	AREAS _____			
	AREAS CHECKED _____			



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150																			
FILE NAME =		USER NAME = shepardgd	DESIGNED - ---	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 ACCELERATION LANES CROSS SECTION SHEETS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
c:\pwwork\pwwork\shepardgd\dms47330\fedstml3		shht-xssht13mainline2.dgn	DRAWN - ---	REVISED - ---							331	(1-2)N-2,R(1X-1)N-3,R-2	WILLIAMSON	202	147				
PLOT SCALE = 10.0000' / IN.		CHECKED - ---	REVISED - ---	CONTRACT NO. 99857															
PLOT DATE = 10/14/2009		DATE - ---	REVISED - ---	SCALE: _____ SHEET NO. ____ OF ____ SHEETS					STA. 664+00.00 TO STA. 664+75.00										
															ILLINOIS FED. AID PROJECT				

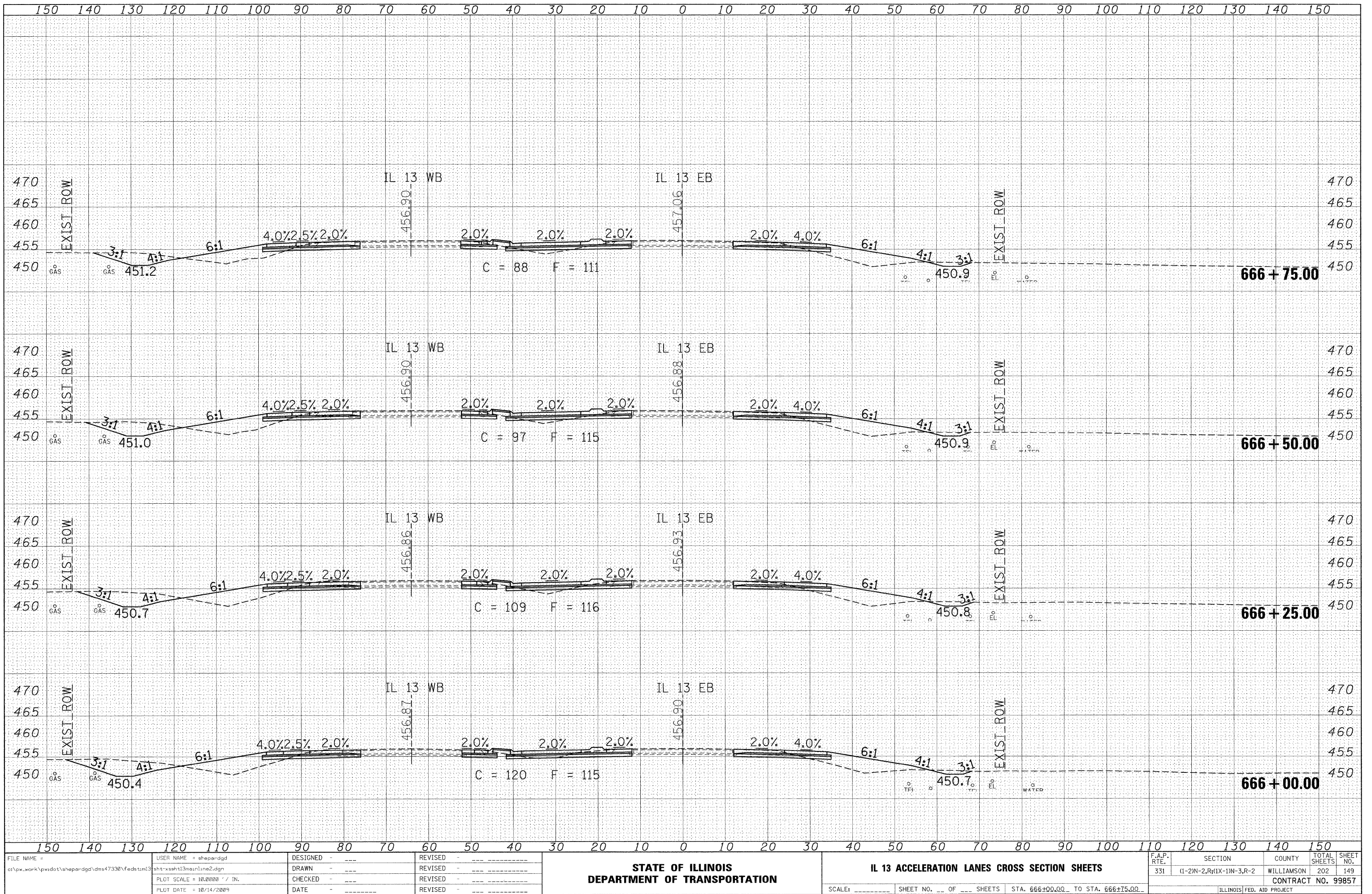
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

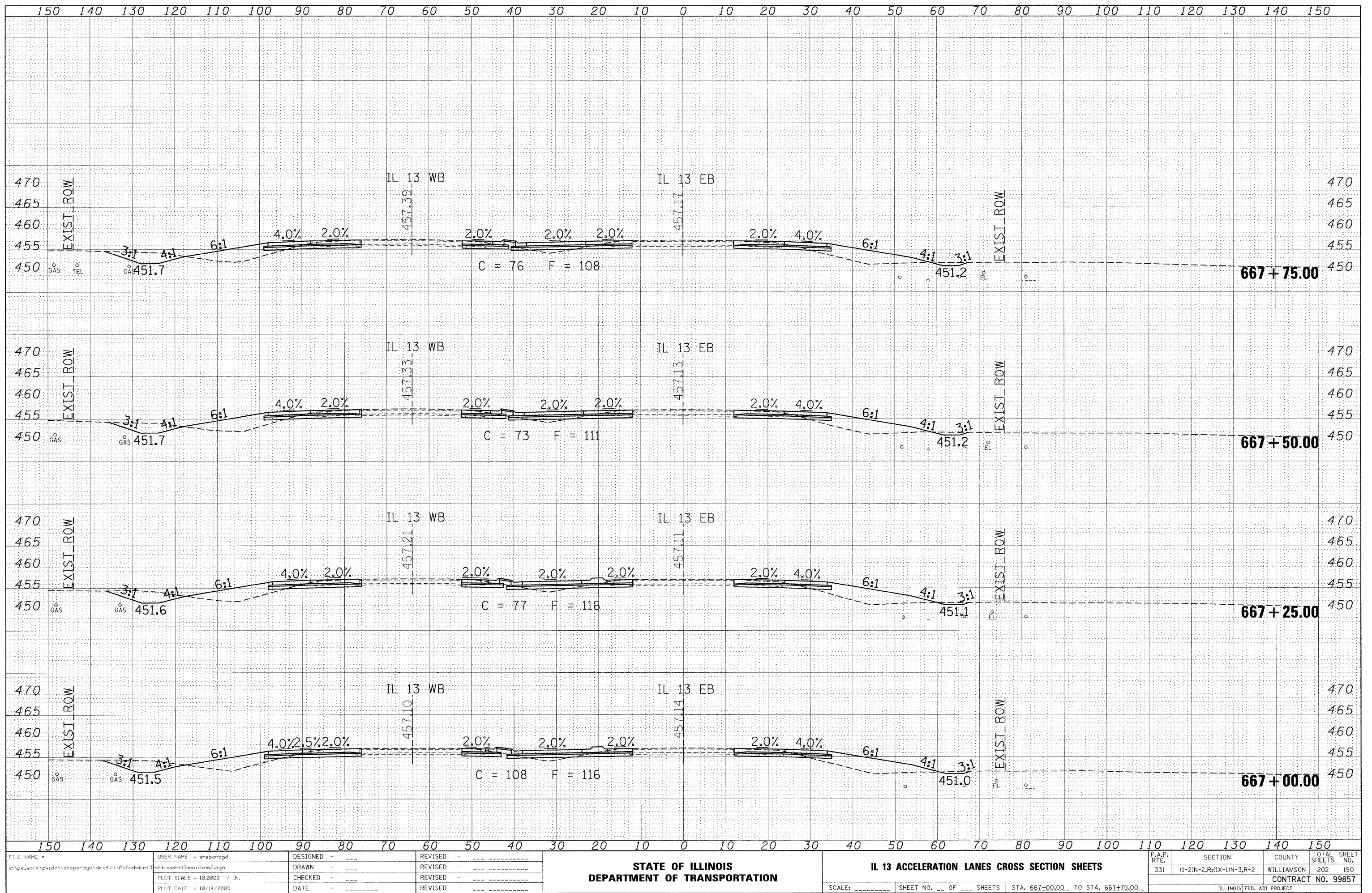
ORIGINAL SURVEY				DATE
NOTE BOOK	SURVEYED		BY	
	PLOTTED			
	TEMPLATE			
	AREAS			
	AREAS CHECKED			
NO.				



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

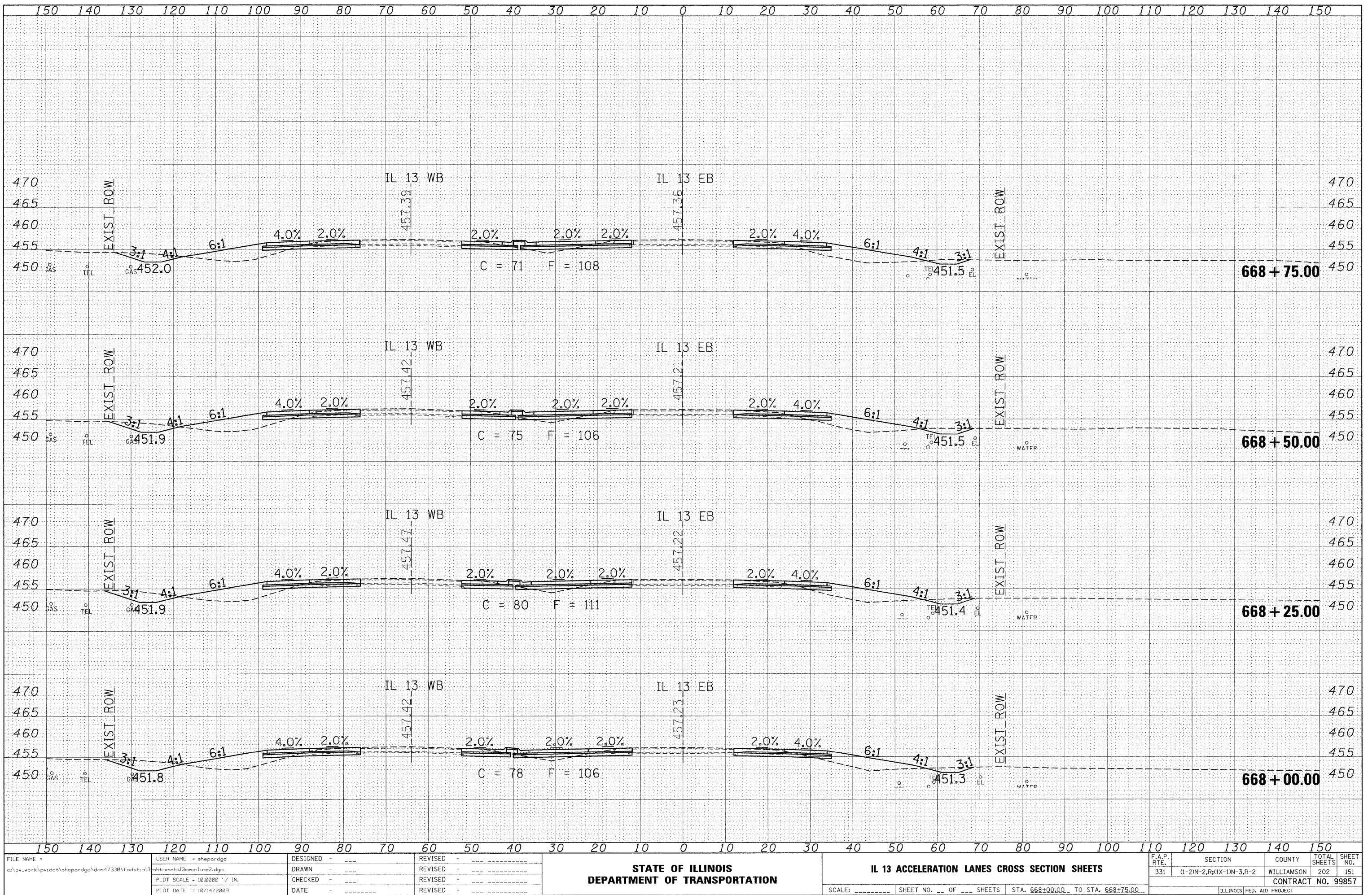
ORIGINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			





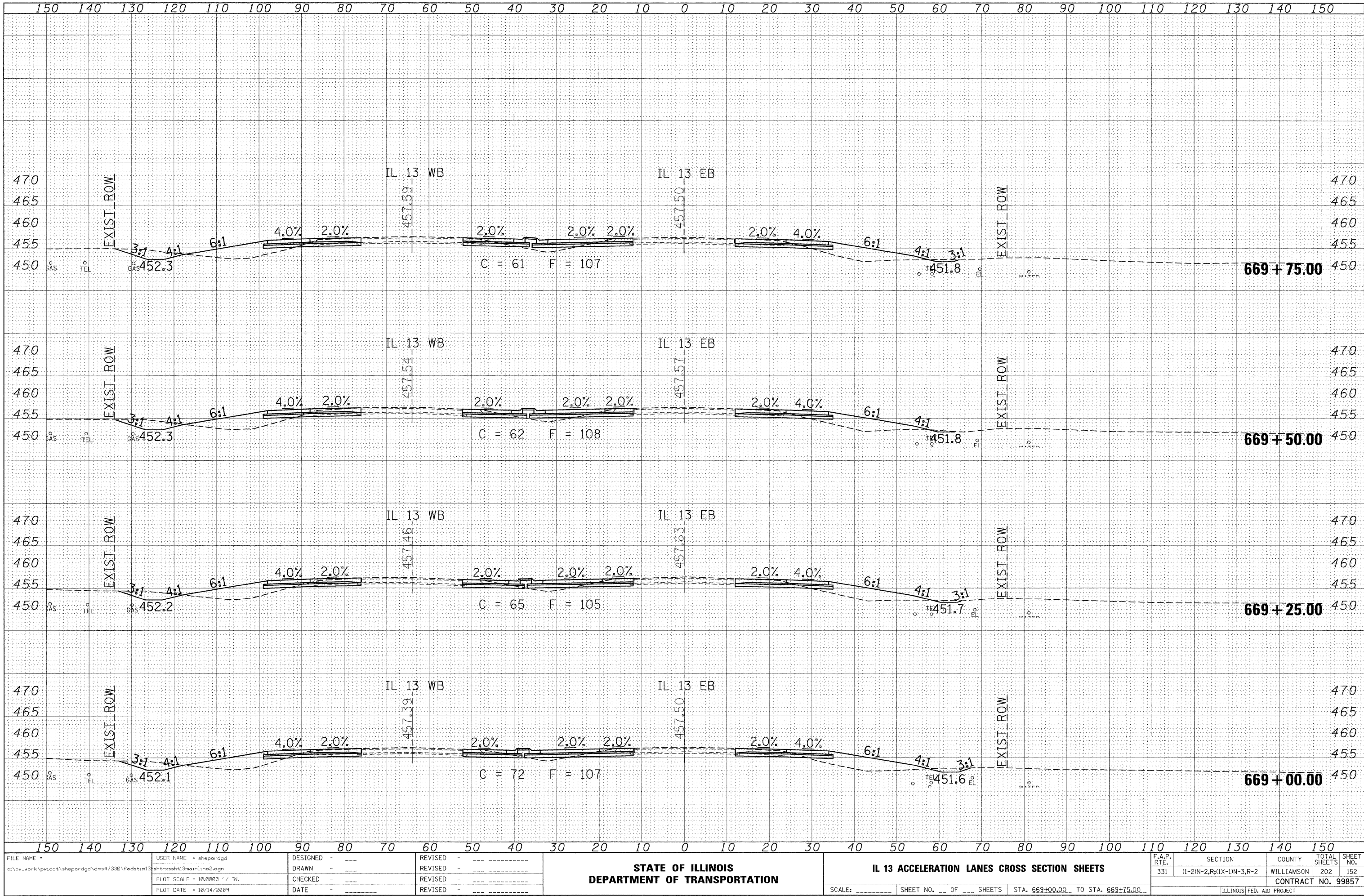
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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



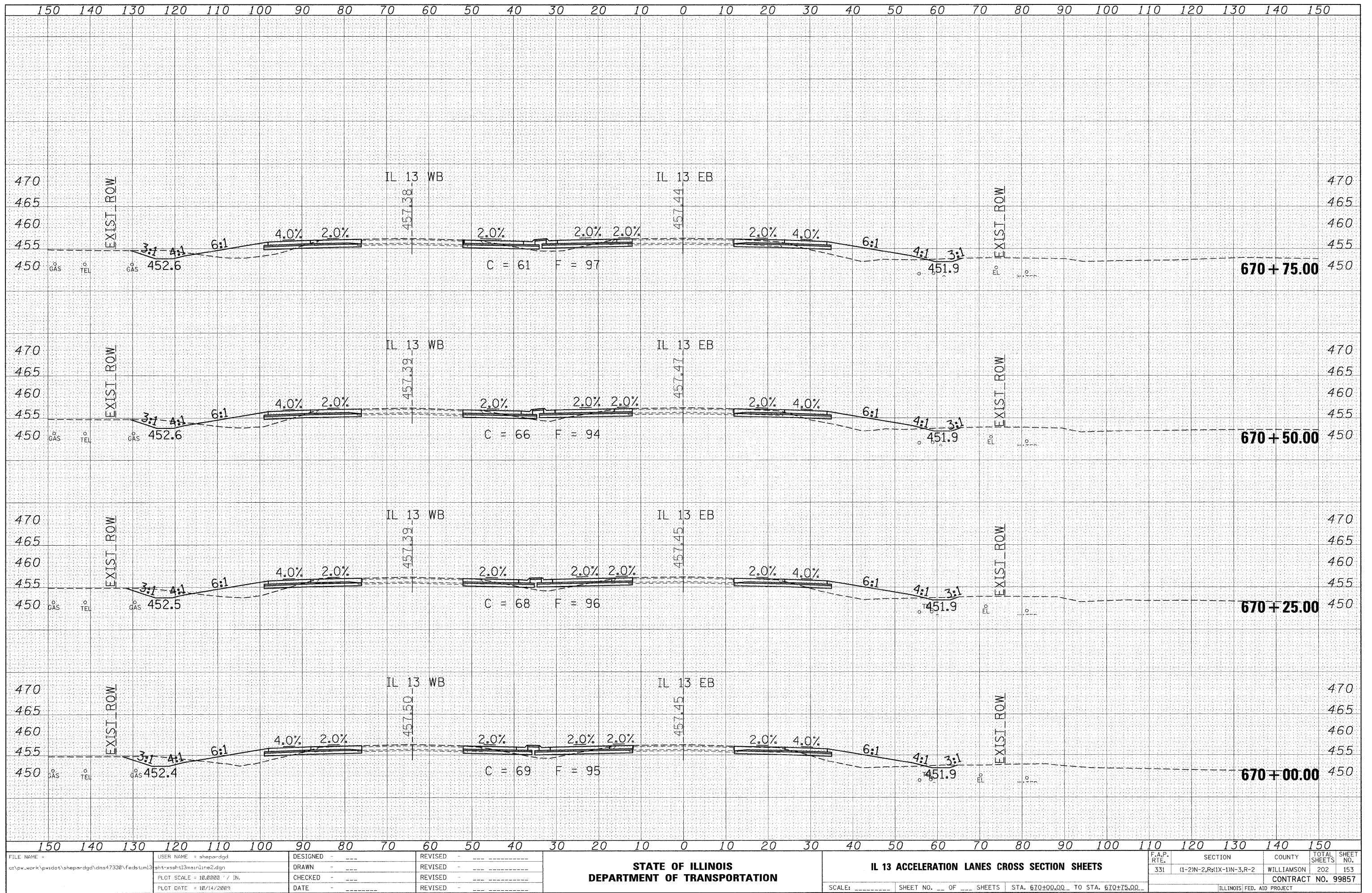
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

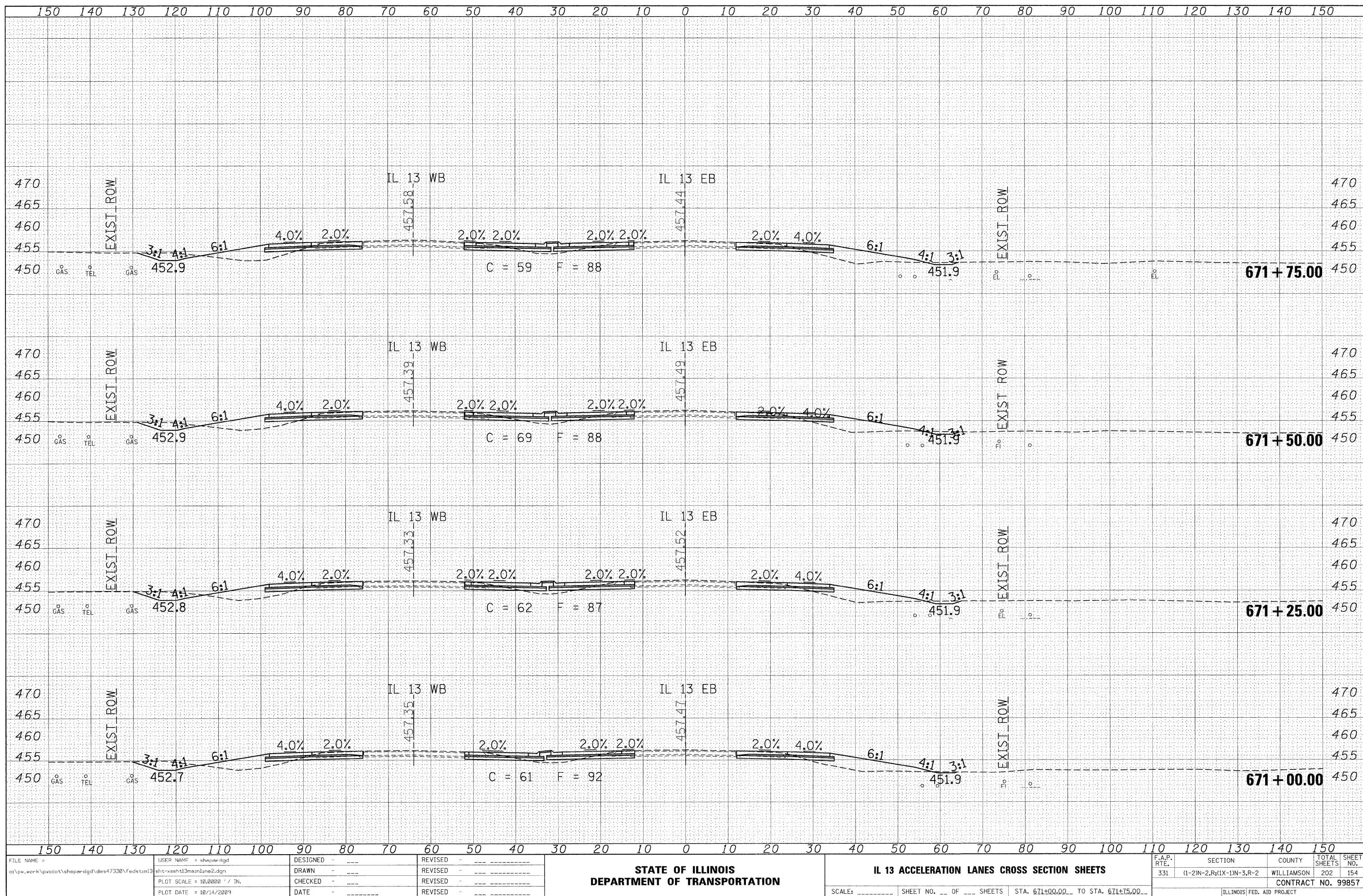
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



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

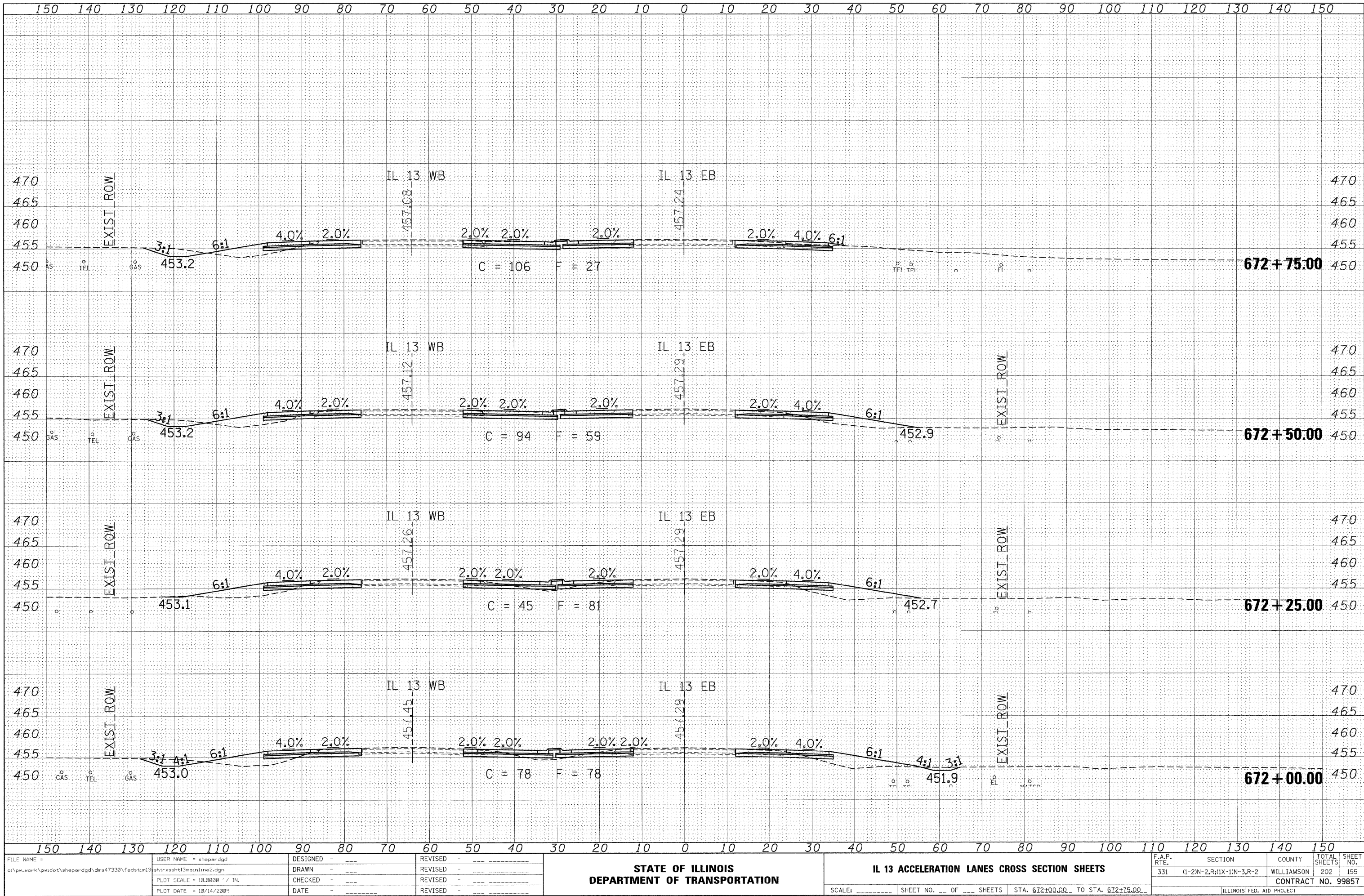
ORIGINAL SURVEY		BY _____	DATE _____
NOTE BOOK		SURVEYED PLOTTED TEMPLATE AREAS	
N _{O.}		AREAS CHECKED	





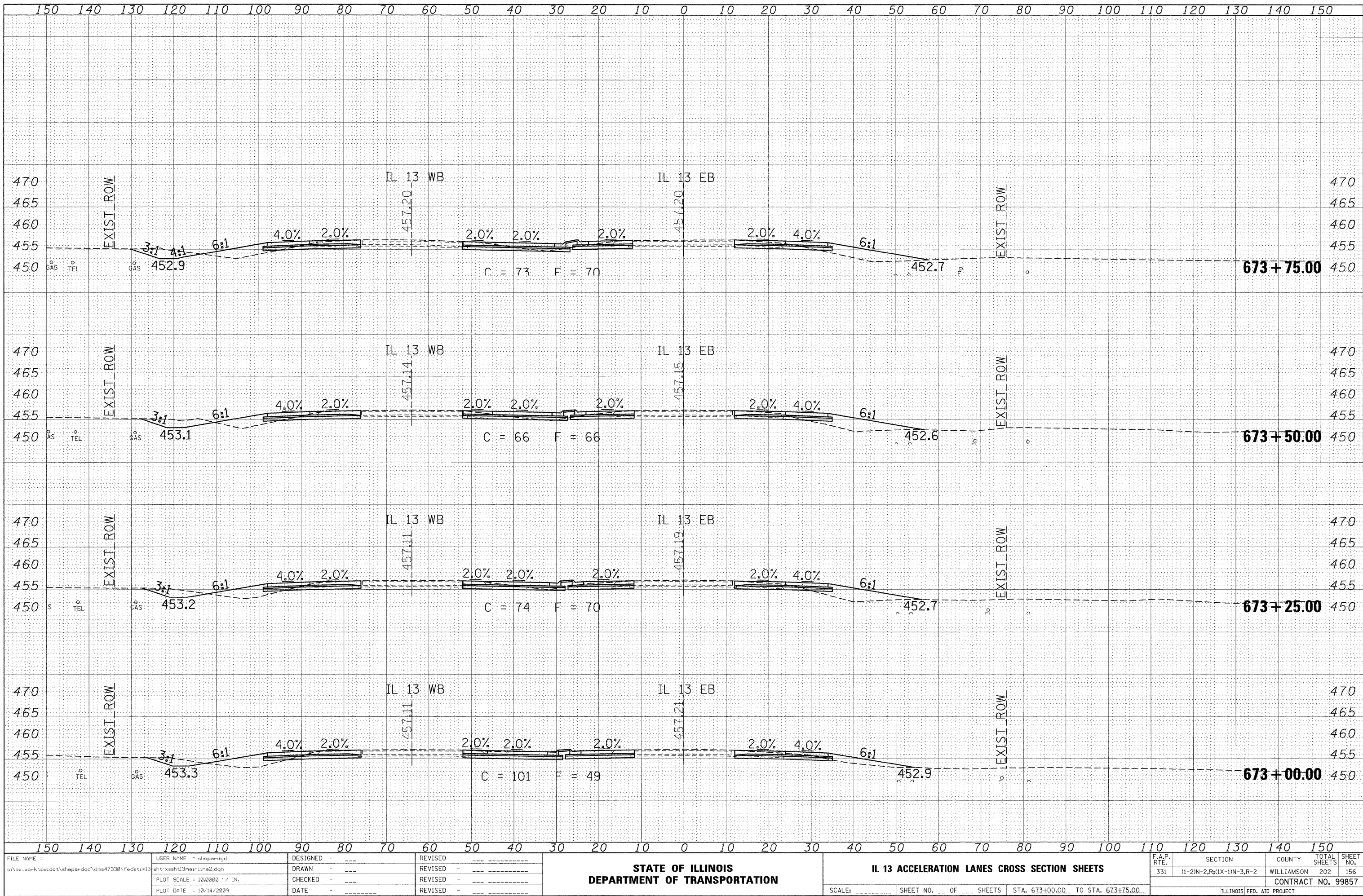
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



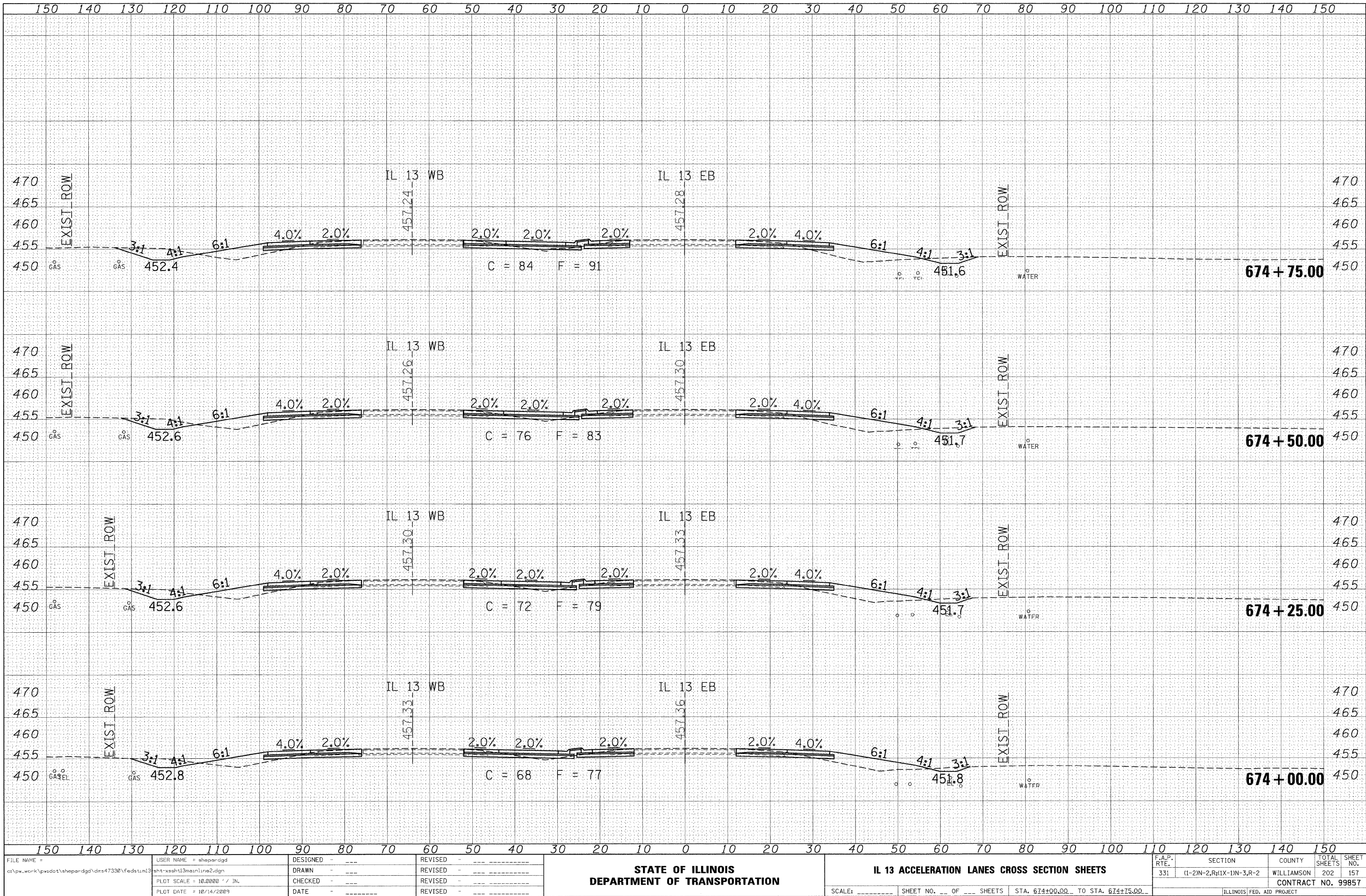
DATE	BY
SURVEYED	
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TEMPLATE	
NOTE BOOK	
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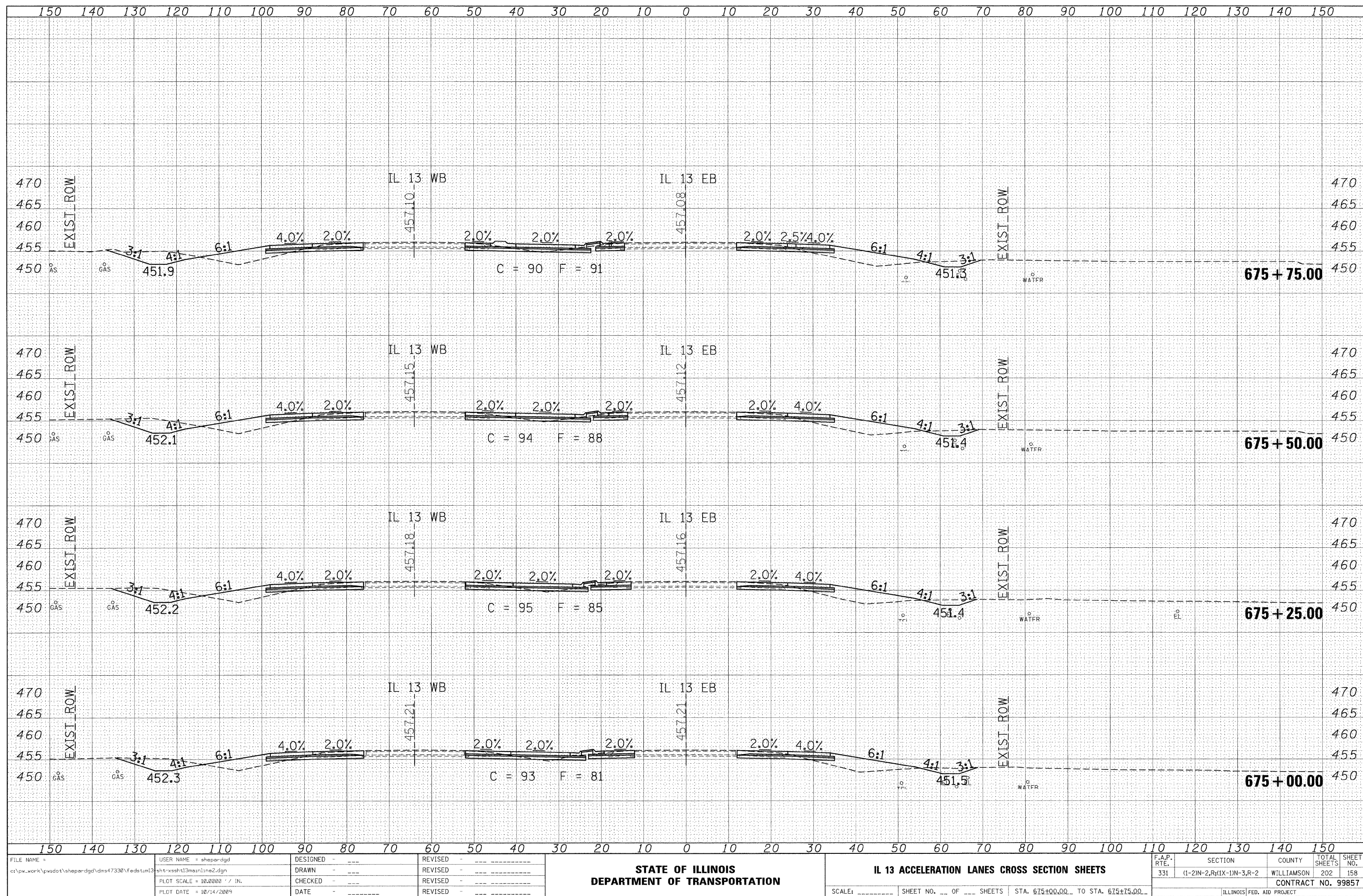
DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	



DATE	BY
SURVEYED	
PLOTTED	
REPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

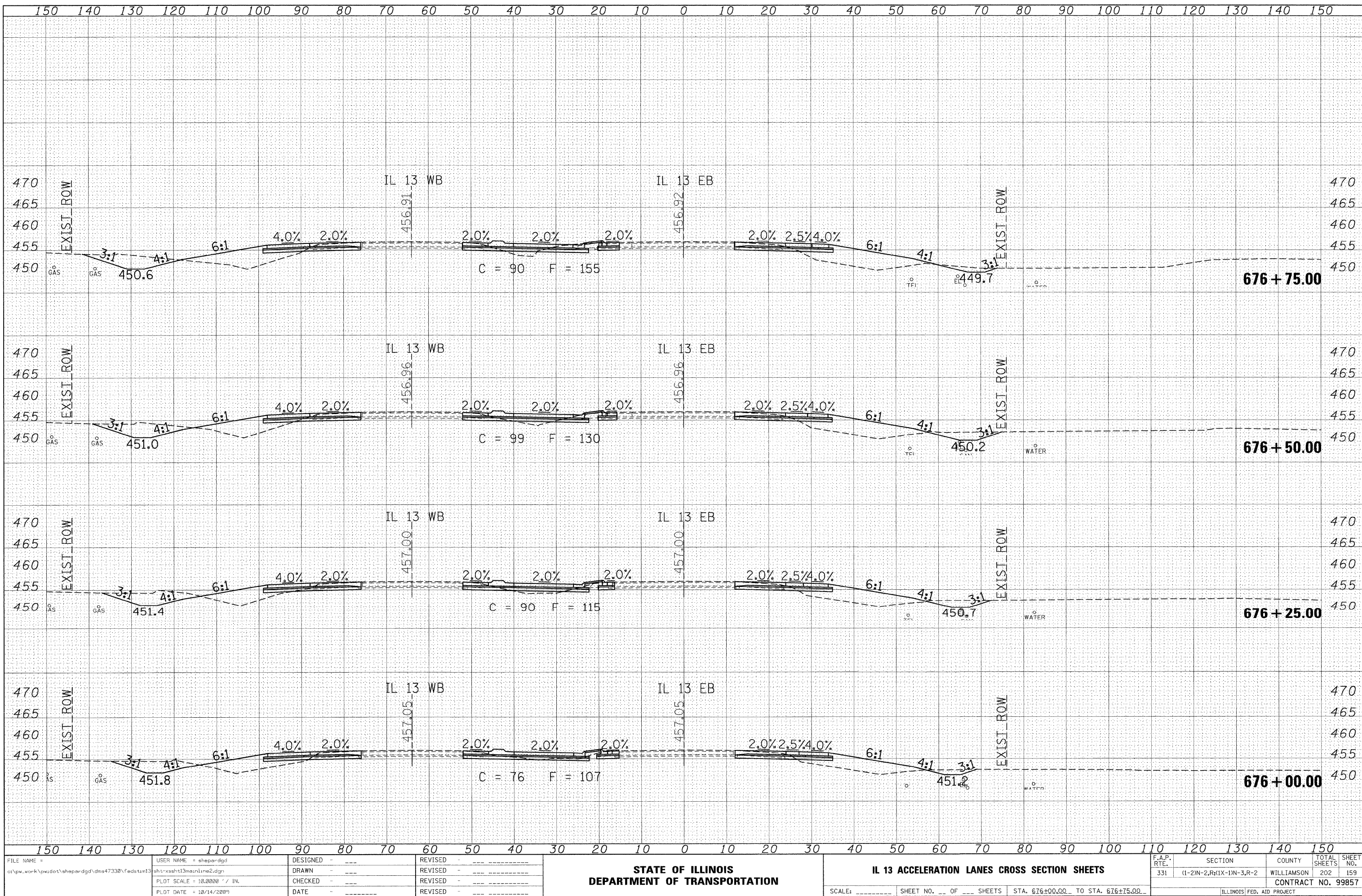
DATE	BY
SURVEYED	
PLOTTED	
REPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	





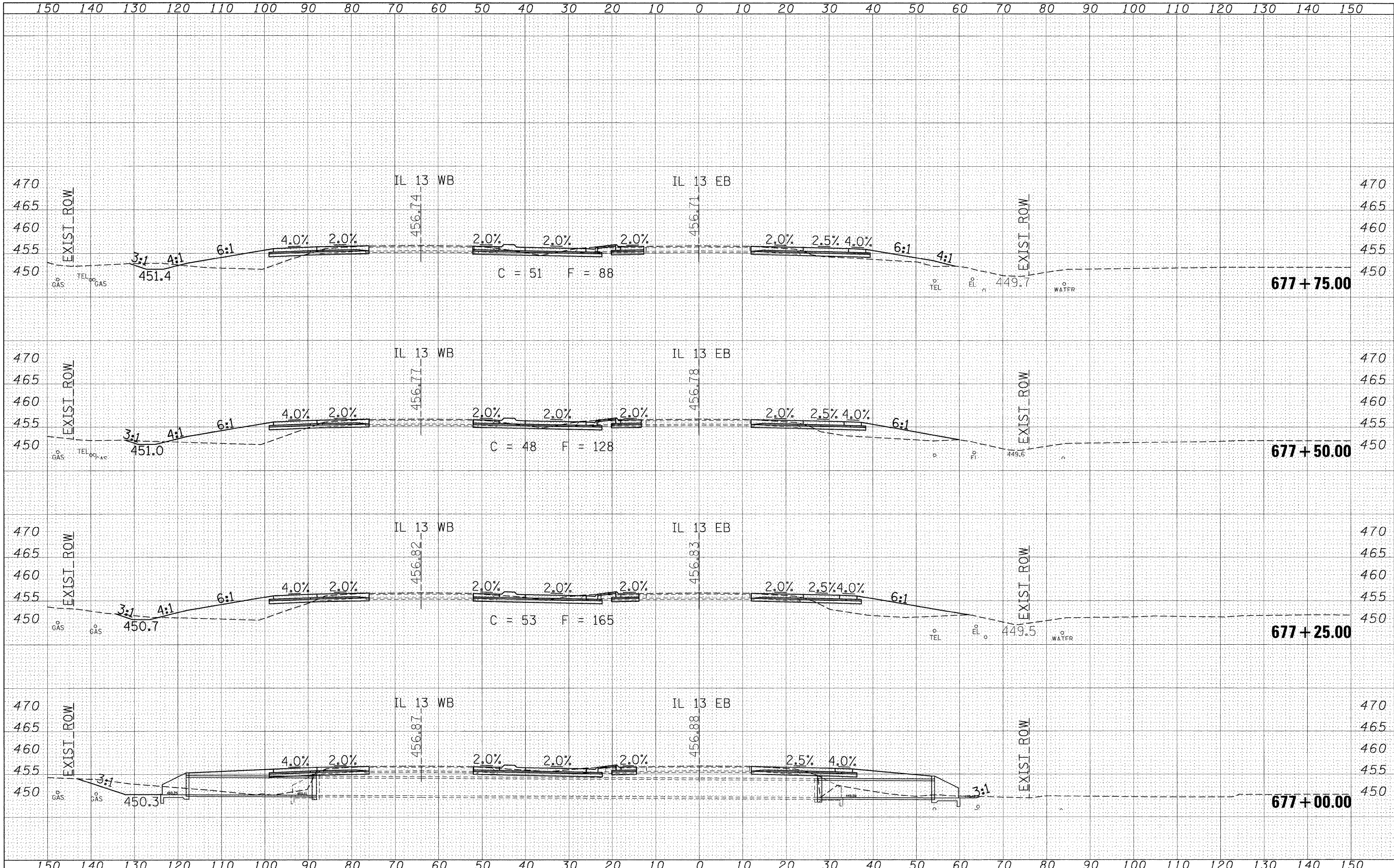
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

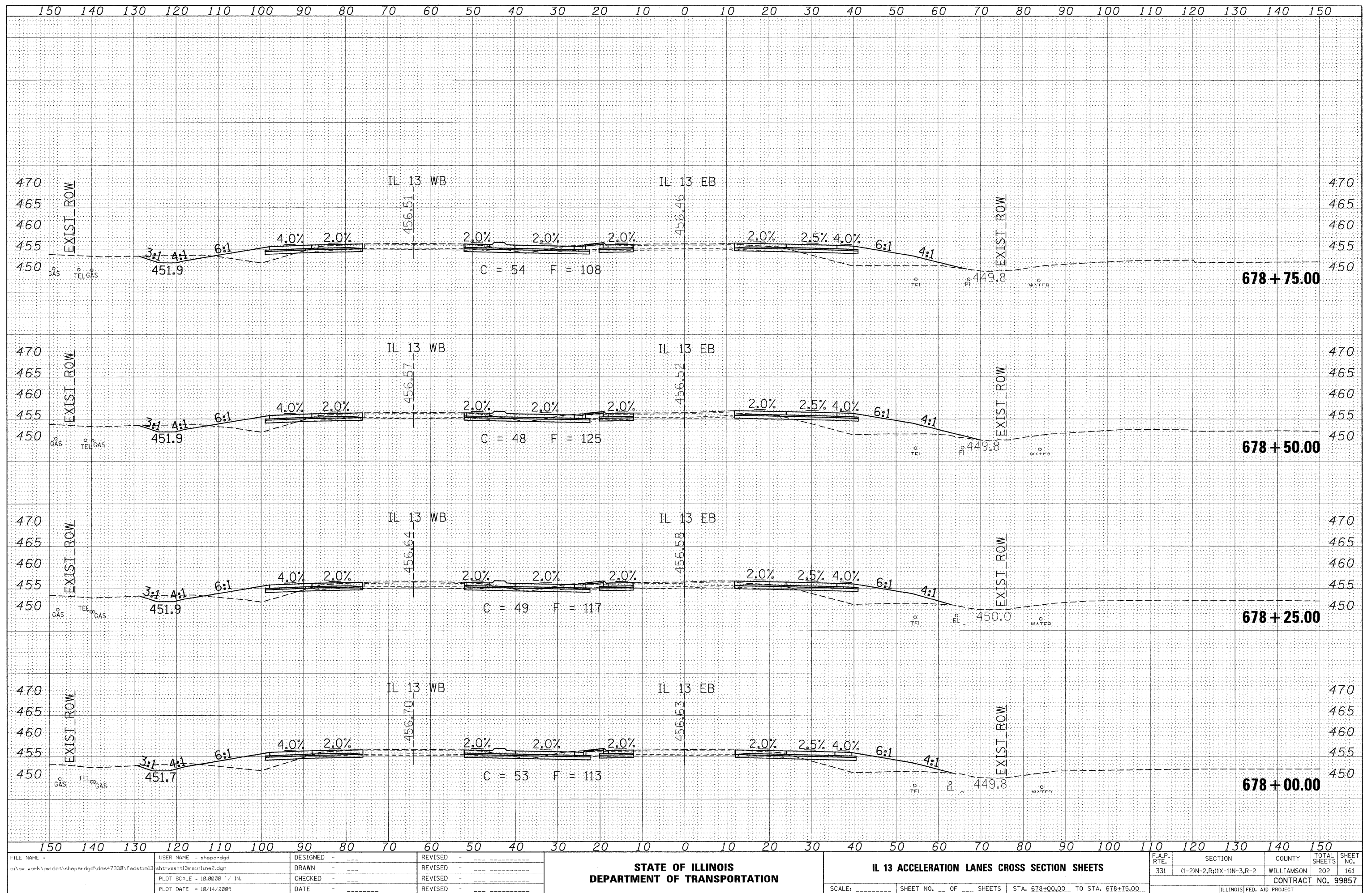
ORIGINAL SURVEY		BY _____	DATE _____
NOTE BOOK		SURVEYED _____	
		PLOTTED _____	
		TEMPLATE _____	
		AREAS _____	
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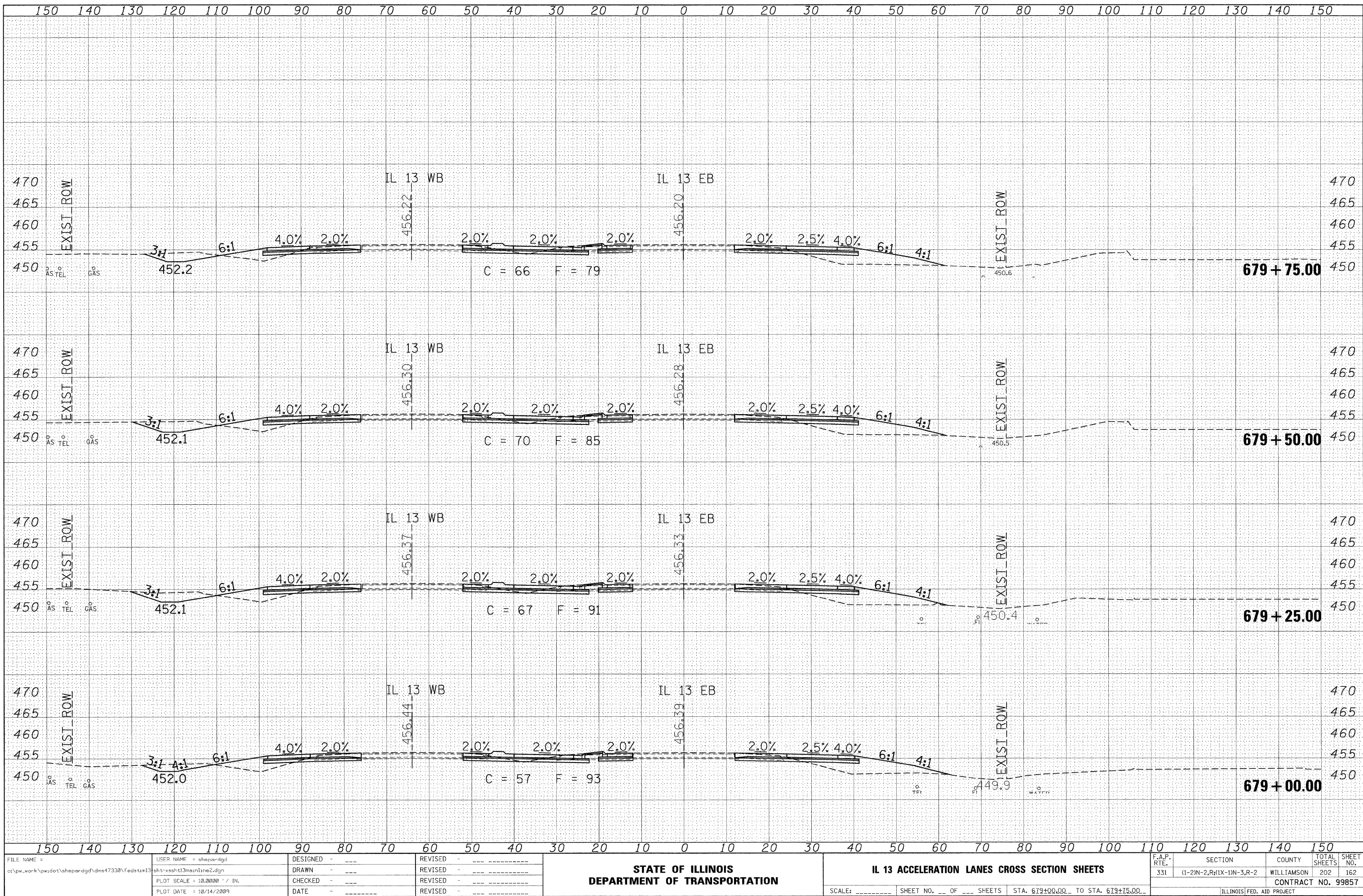
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	REPLATE
	AREAS CHECKED

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



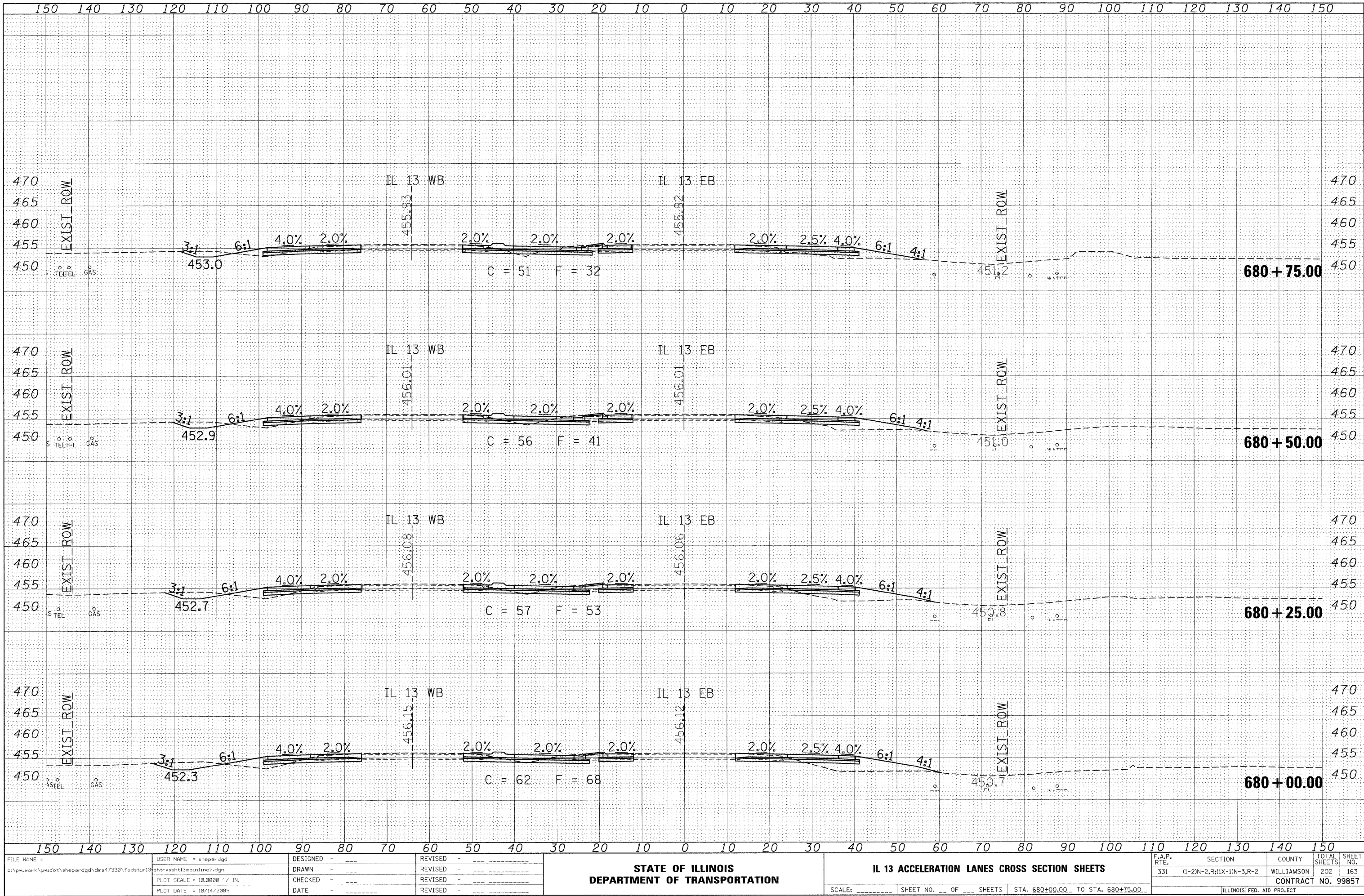


ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

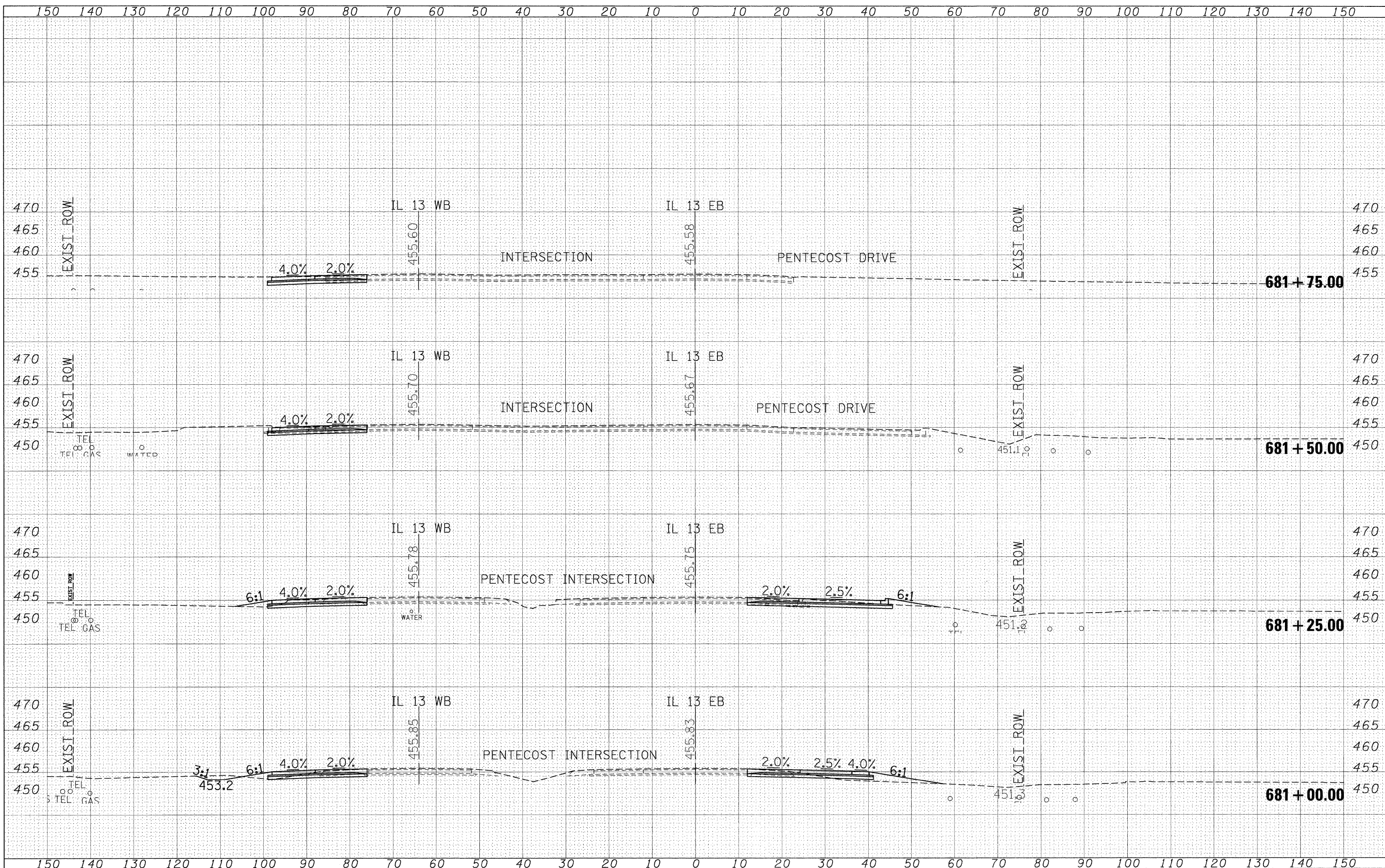


DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



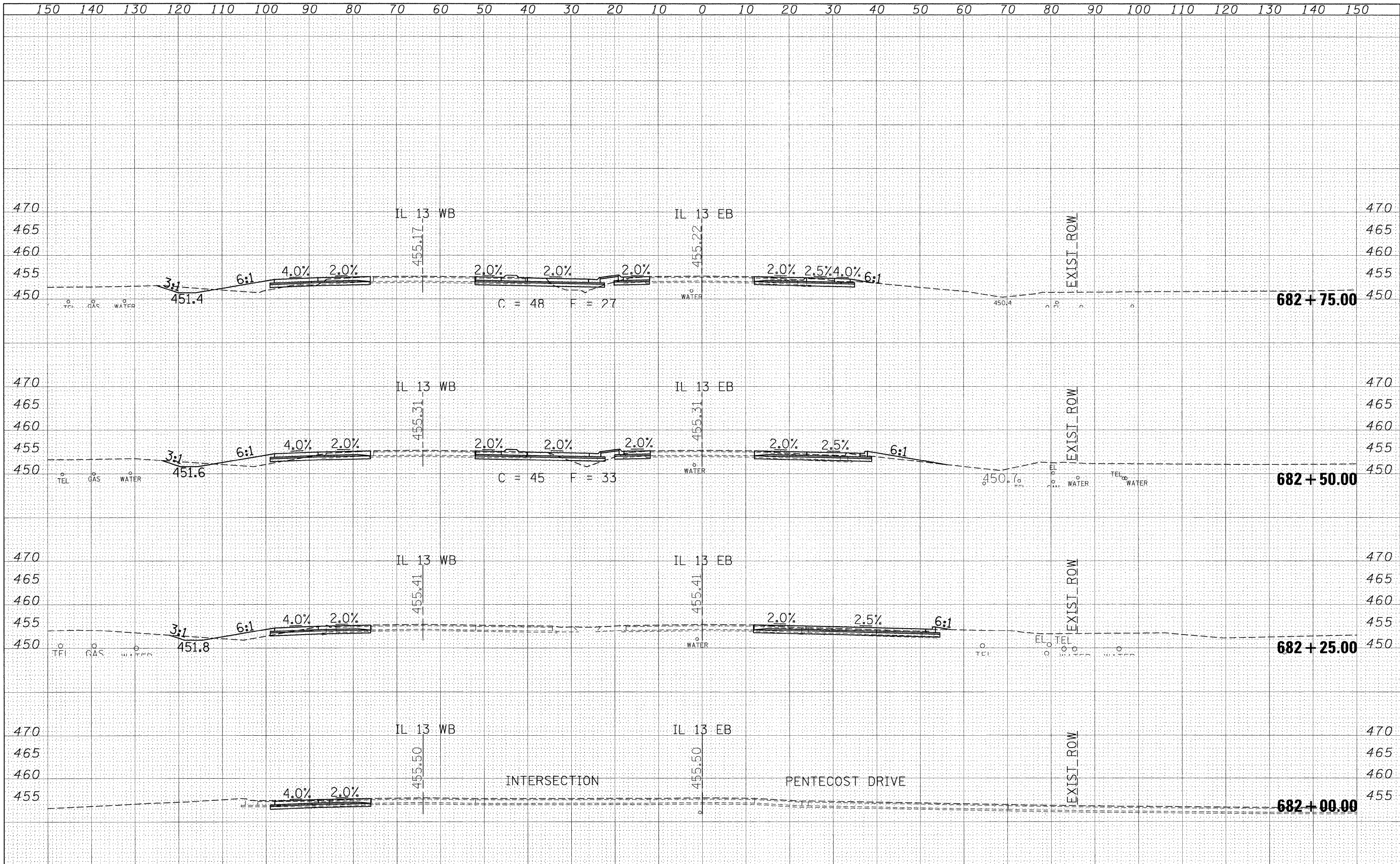
ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		



FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 ACCELERATION LANES CROSS SECTION SHEETS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pwork\p\dotd\shepardgd\dms47330\Fedsta1n13	sht-xssht13mainline2.dgn	DRAWN -	REVISED -						331	(1-2)N-2,R(1X-1)N-3,R-2	WILLIAMSON	202	164
	PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -		CONTRACT NO. 99857								
	PLOT DATE = 10/14/2009	DATE -	REVISED -		SCALE: _____	SHEET NO. __ OF _____ SHEETS	STA. 681+00.00__ TO STA. 681+75.00__		ILLINOIS FED. AID PROJECT				

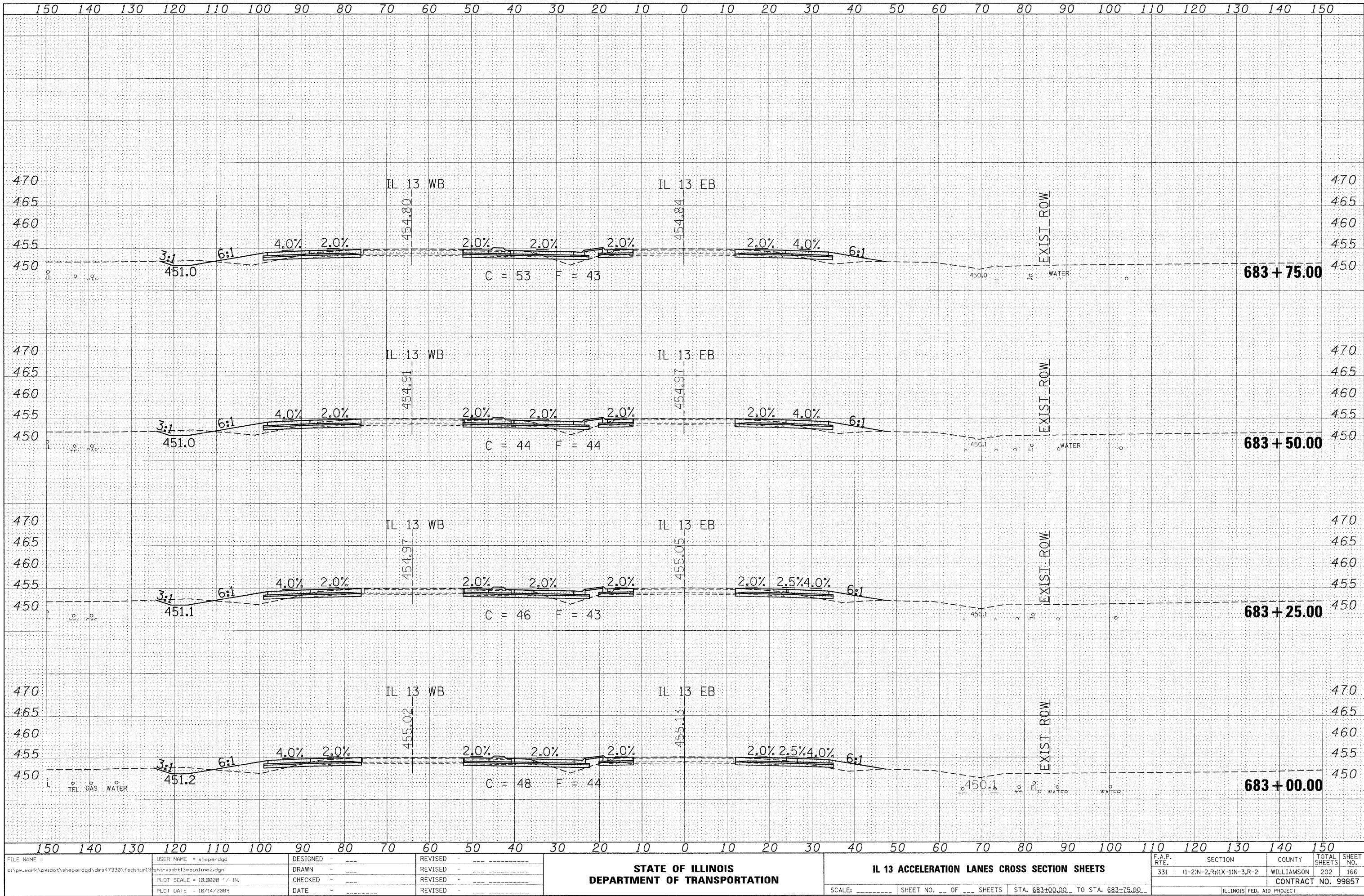
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REPLATE
NO.	AREAS CHECKED



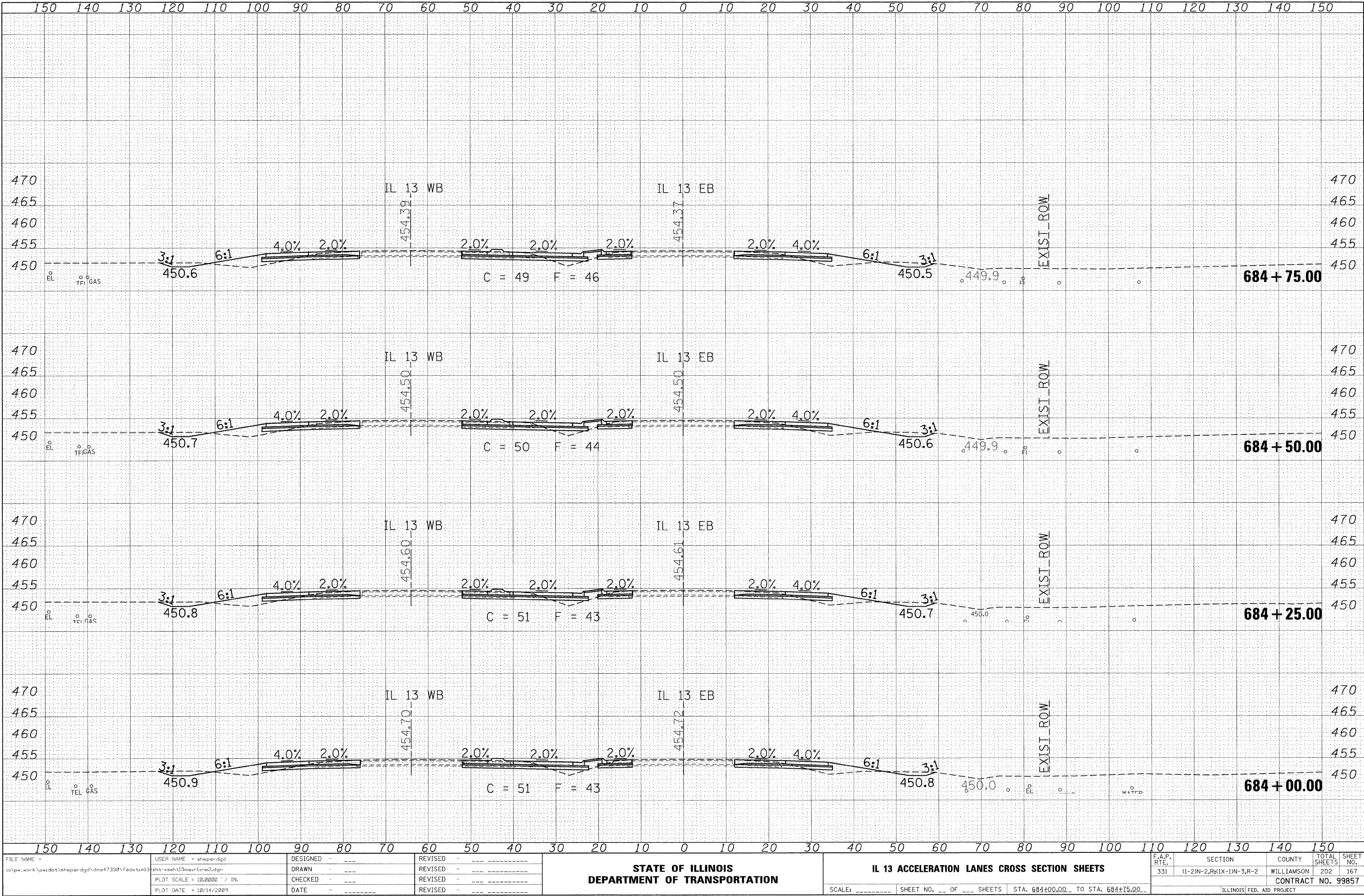
DATE	BY
FINAL SURVEY	SURVEYED
NO.	PILOTED
	NOTE BOOK
	DATE
	AREAS CHECKED

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



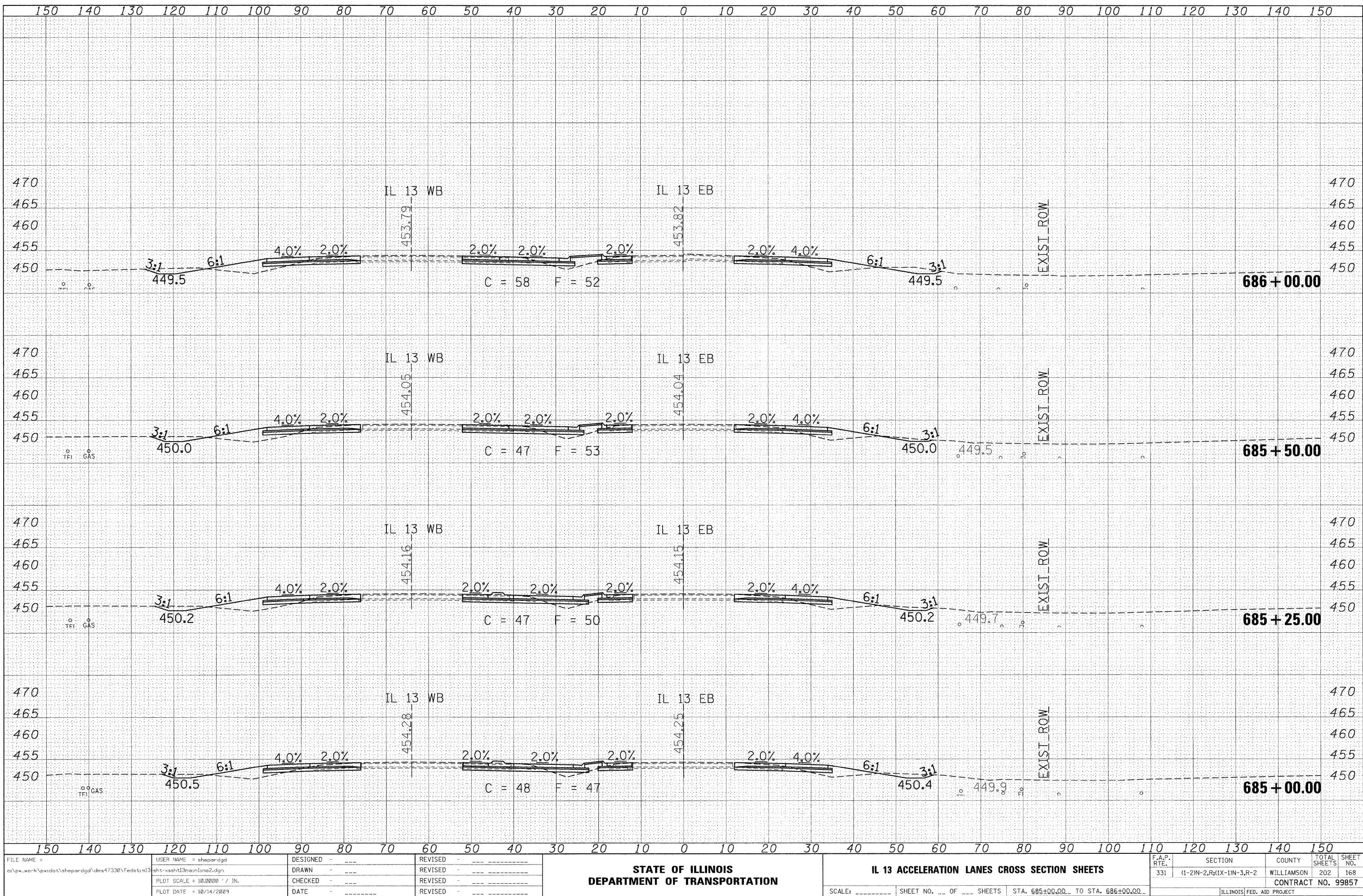
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
NO.	



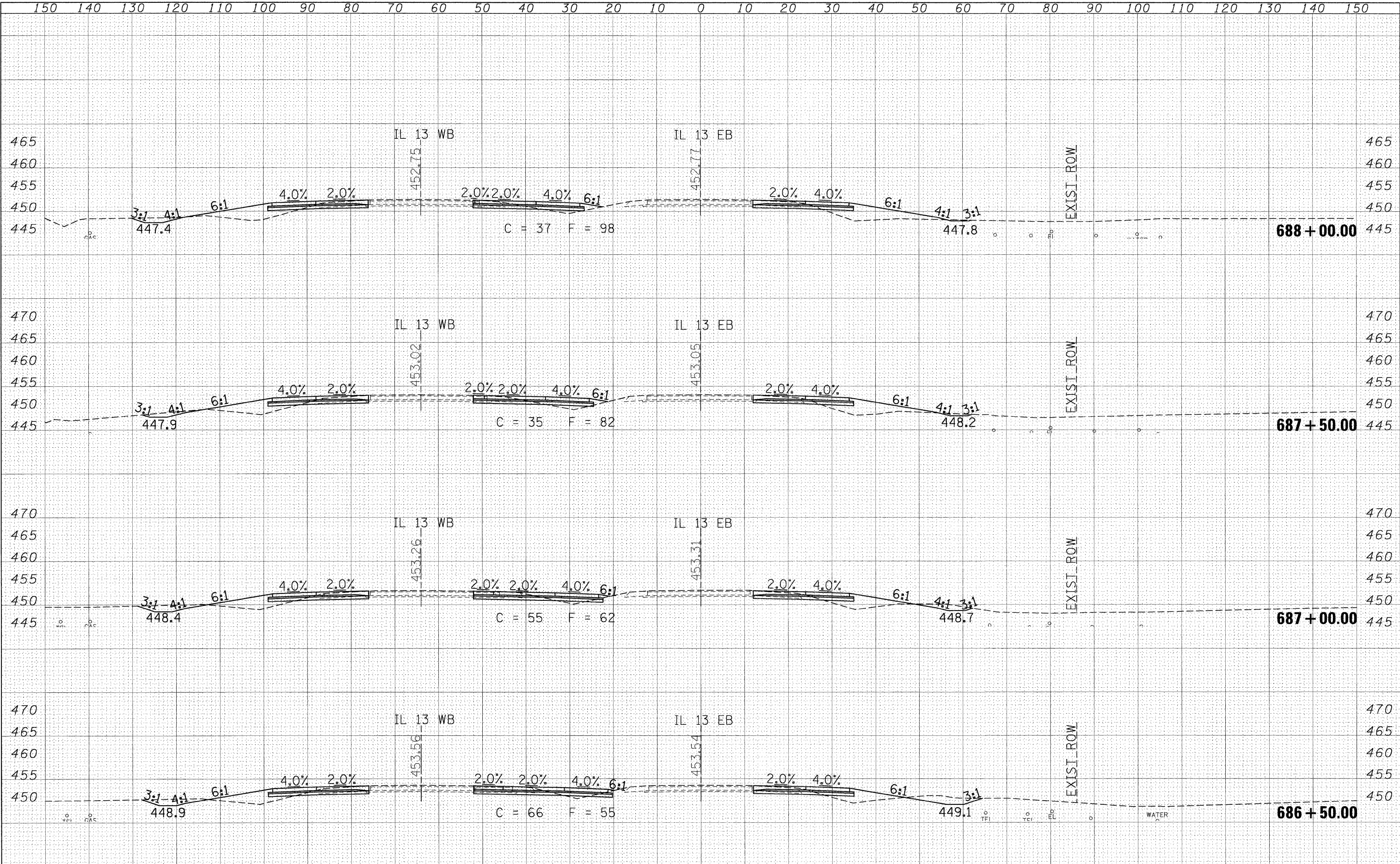
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

					DATE
SURVEYED					BY
PLOTTED					
TEMPLATE					
AREAS					
AREAS CHECKED					
NO.					



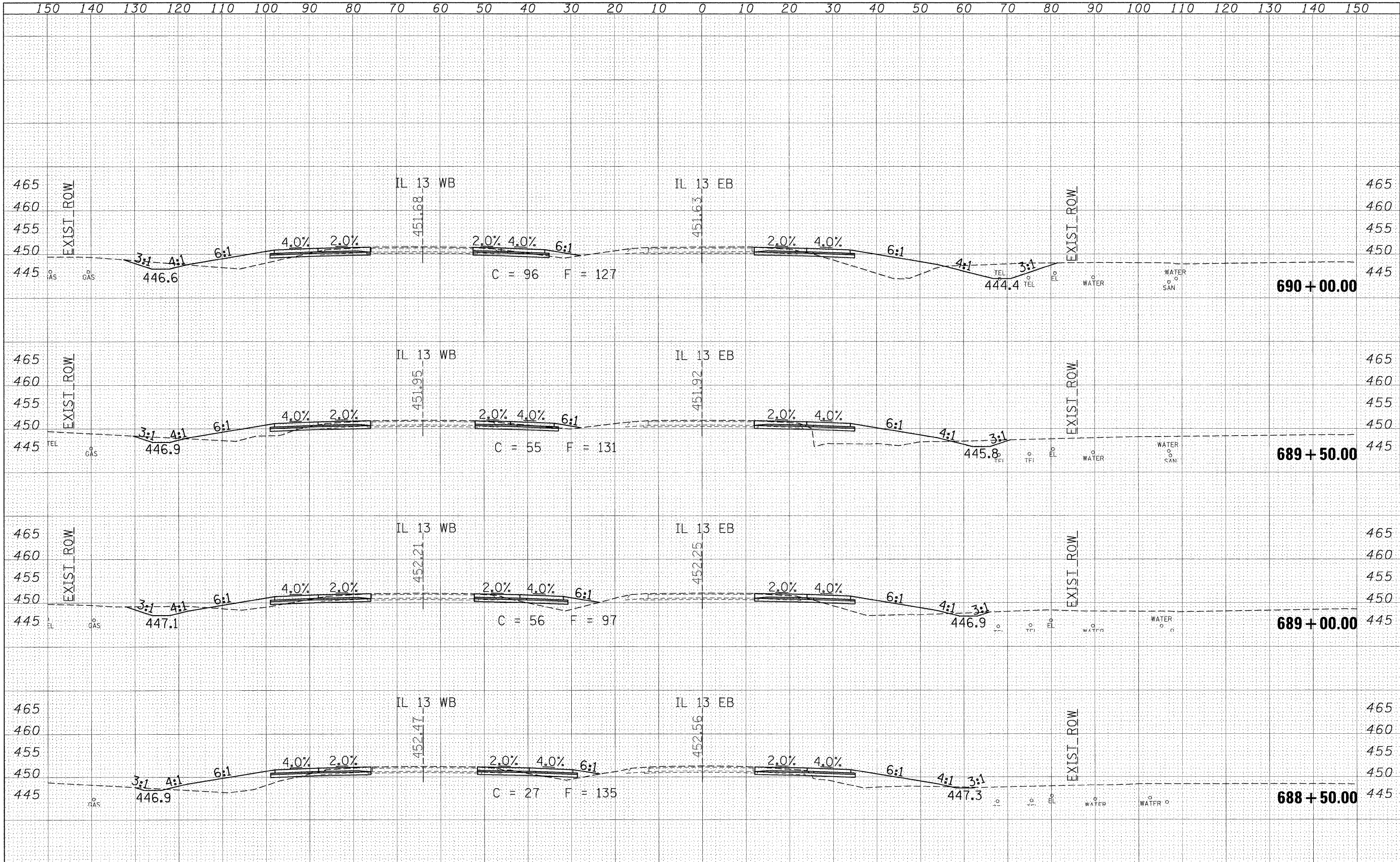
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	REPLATE
	AREAS CHECKED

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



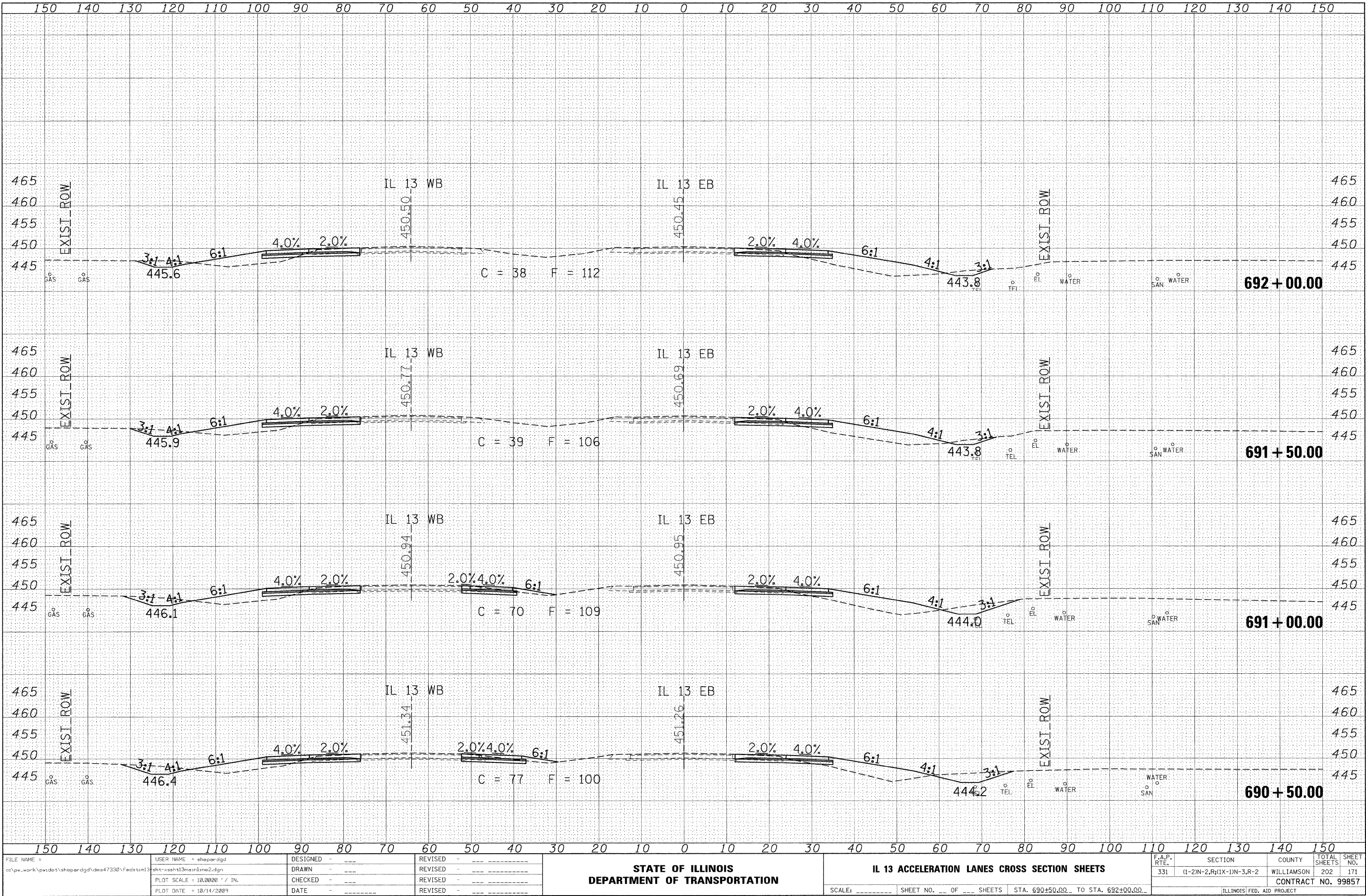
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



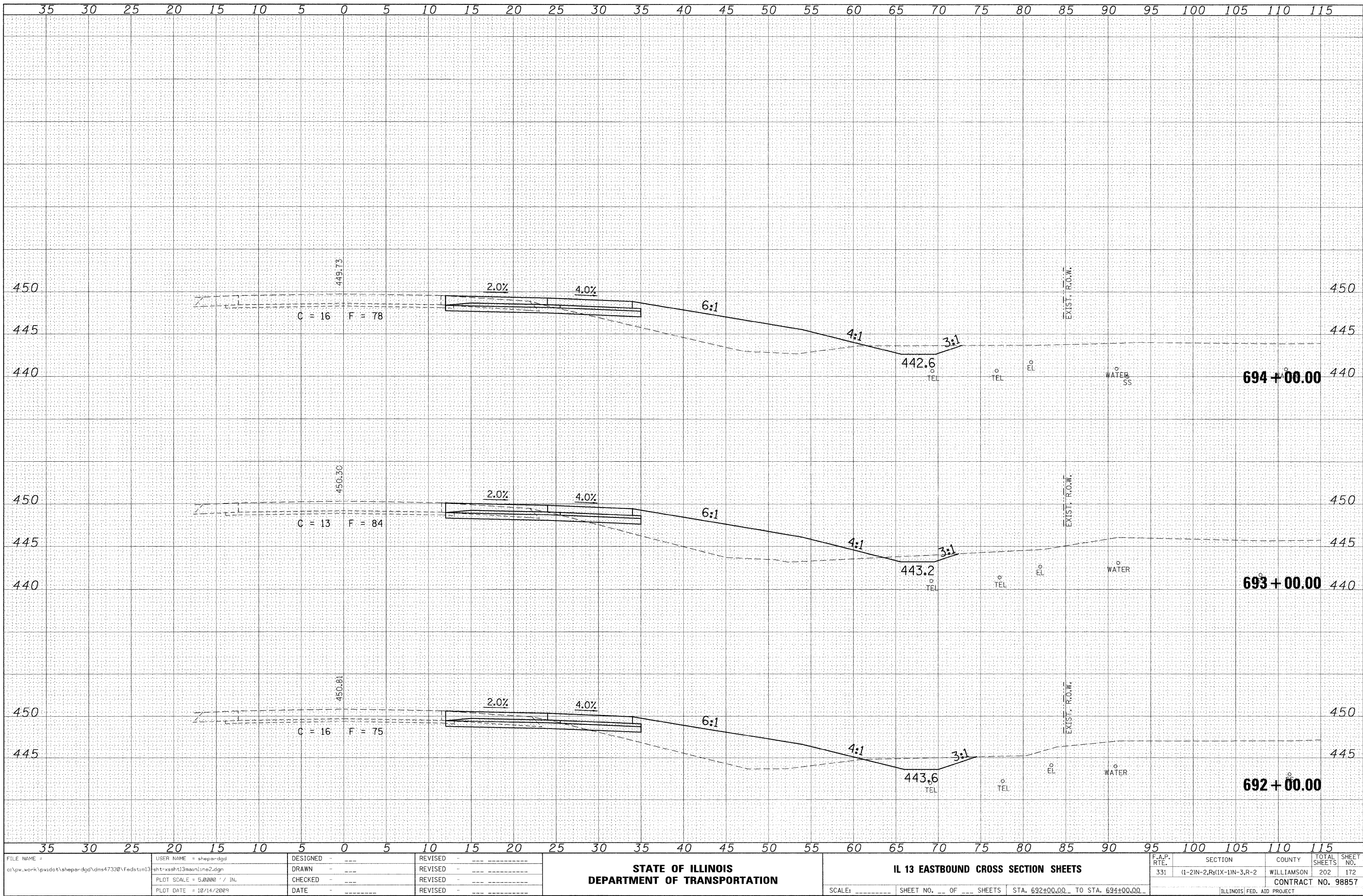
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



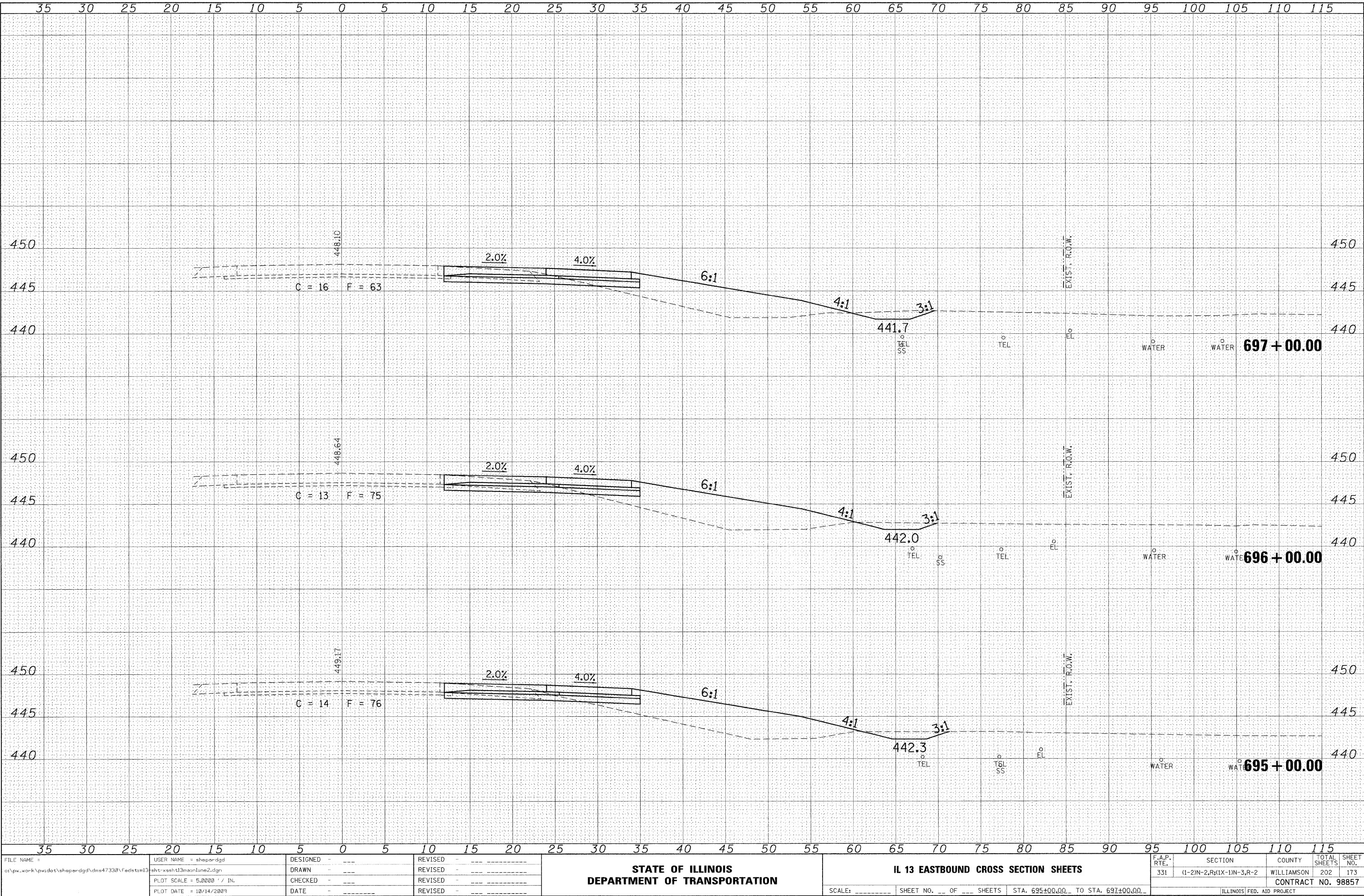
DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
		FINAL	NO.		

DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
		ORIGINAL	NO.		



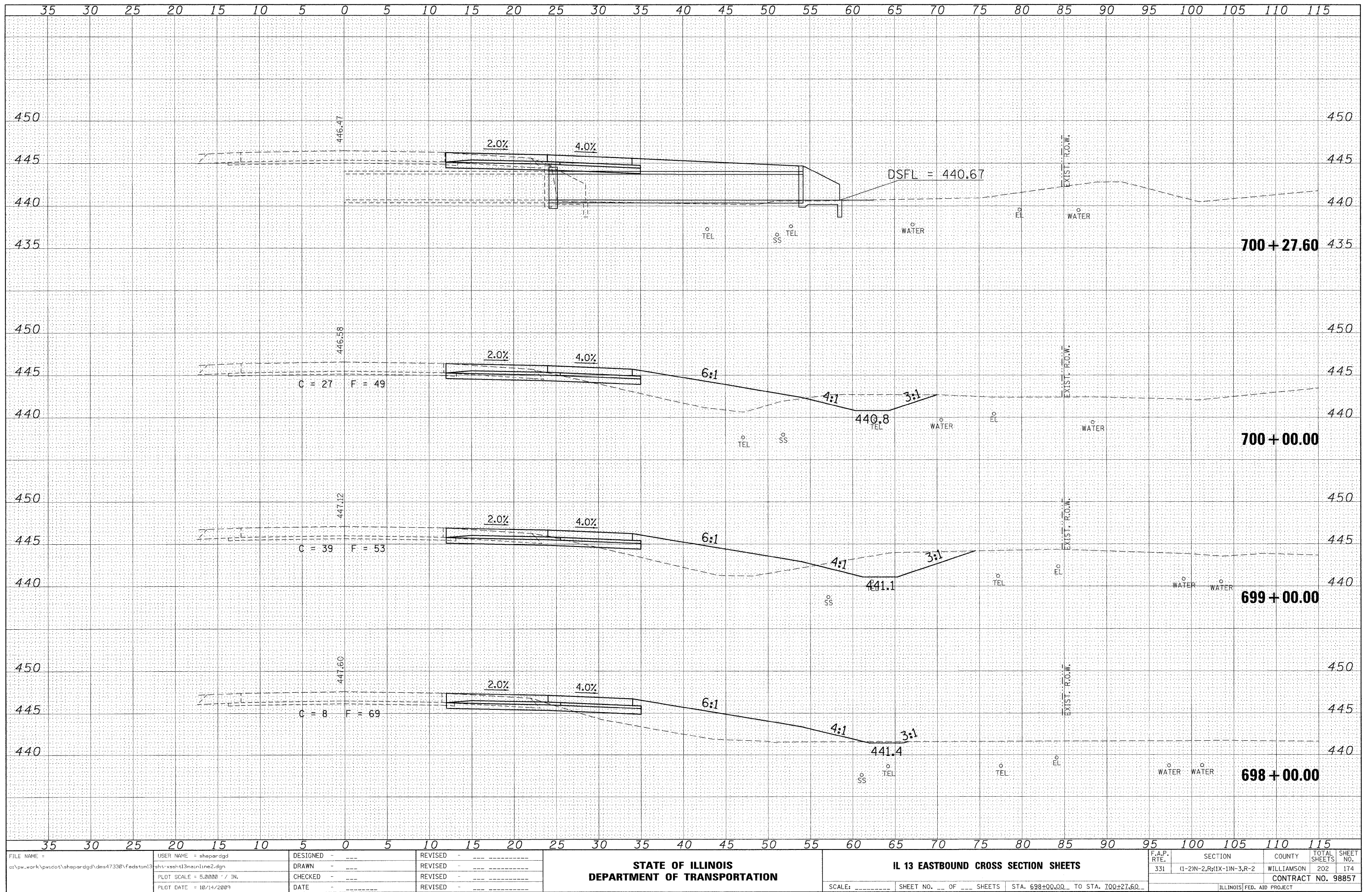
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREA
NO.	CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREA
NO.	CHECKED



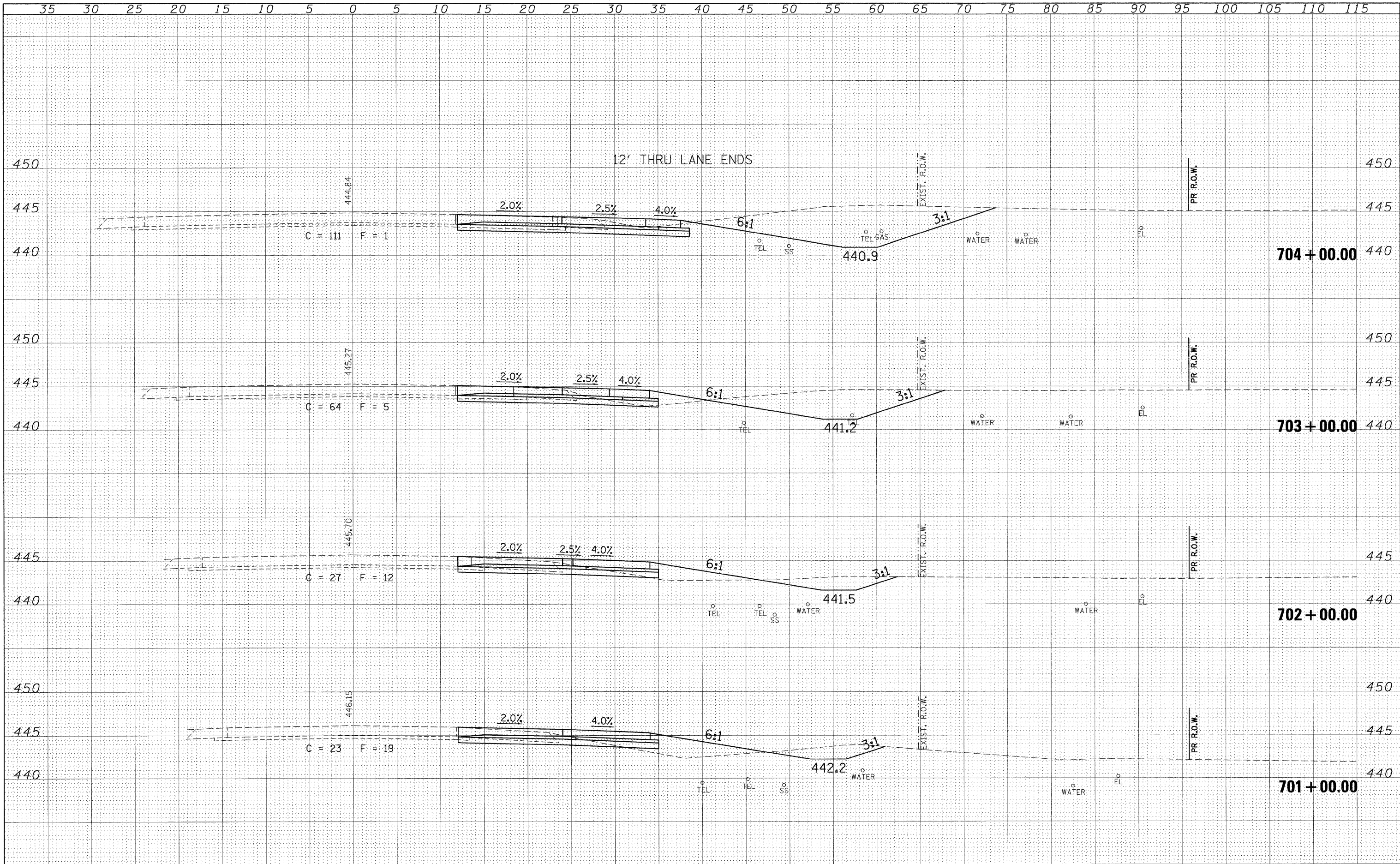
FINAL SURVEY	BY _____		DATE _____
NOTE BOOK	SURVEYED _____		
	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

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



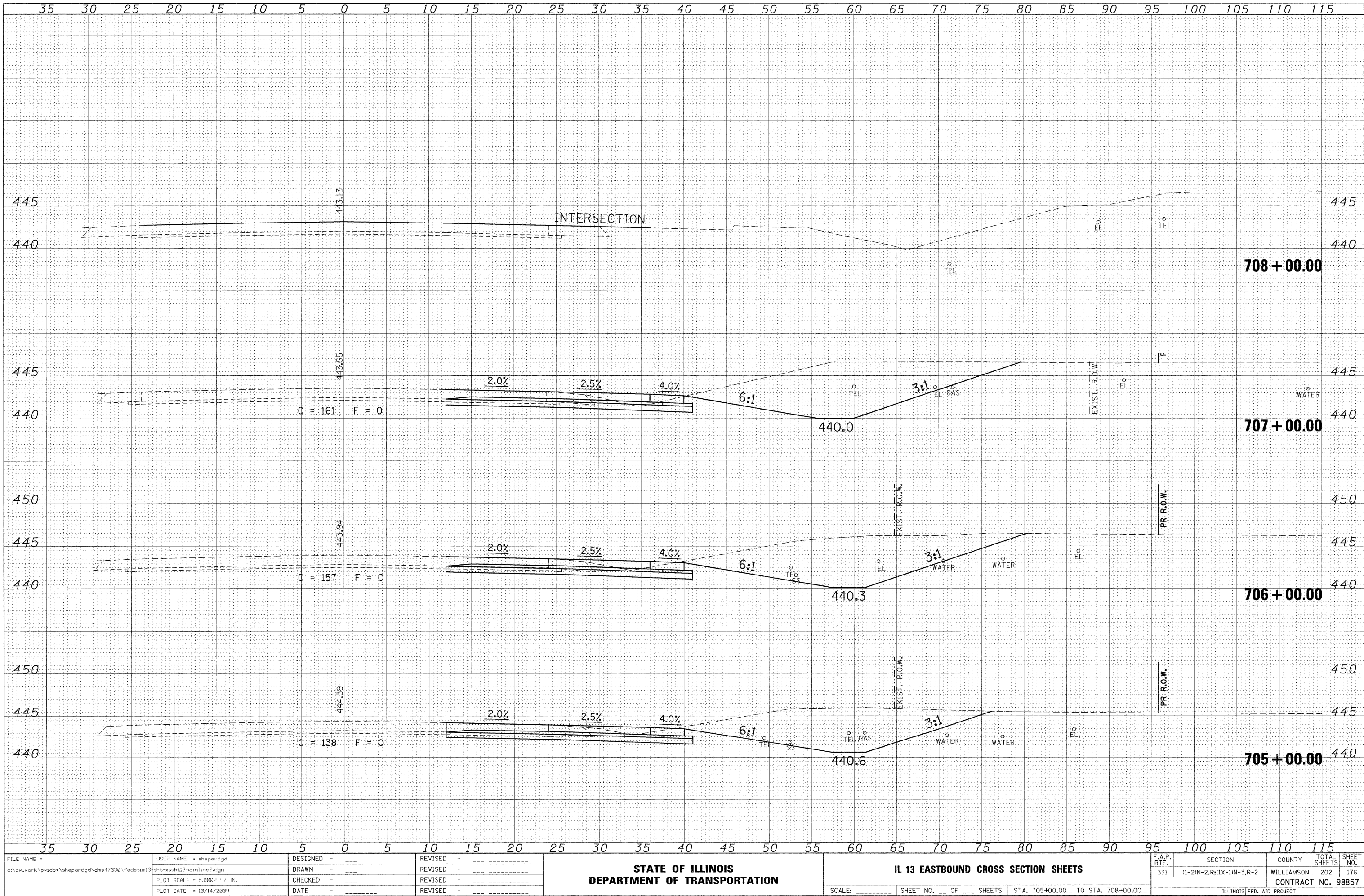
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



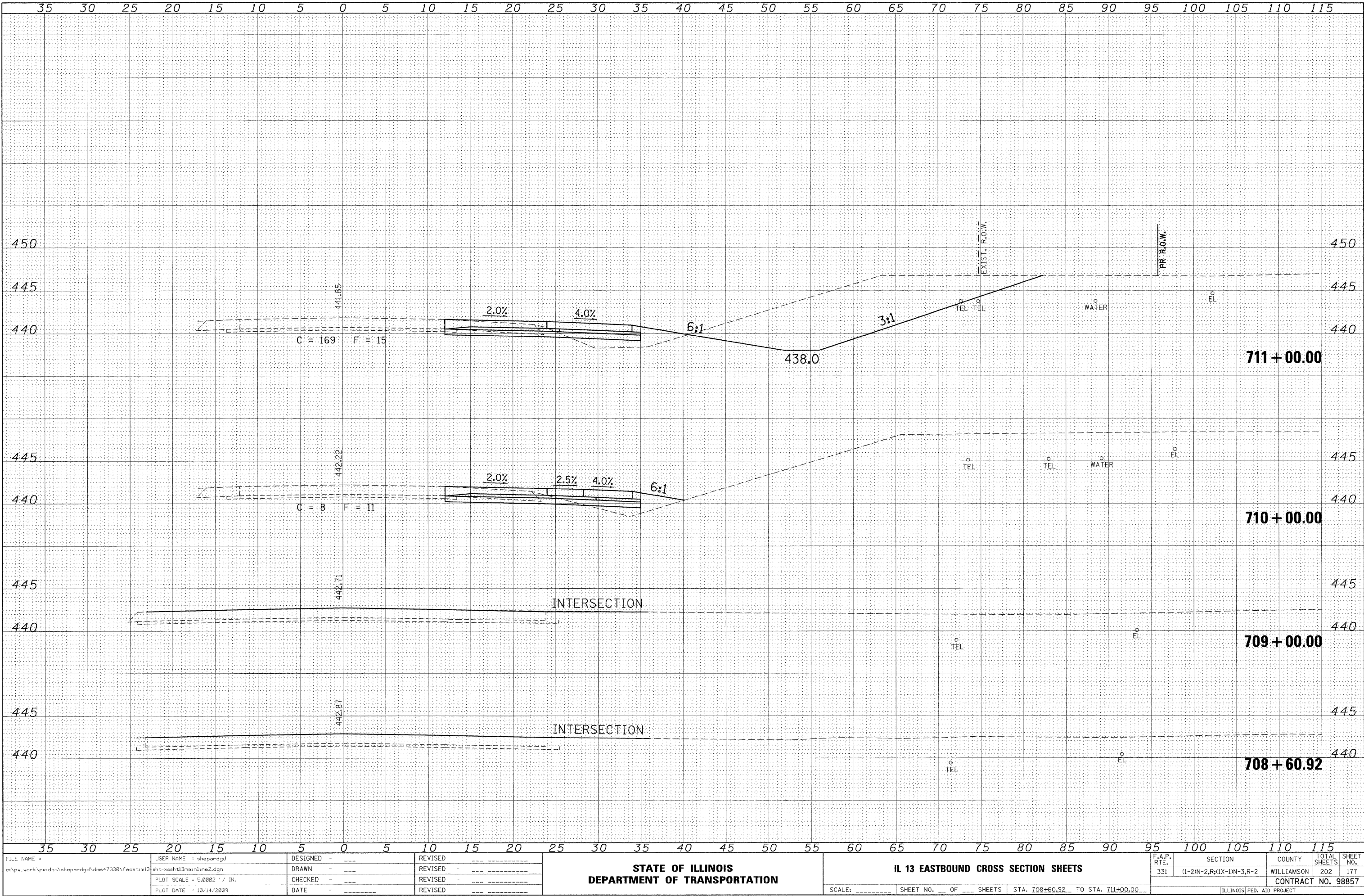
DATE	BY	NO.
FINAL SURVEY	SURVEYED	NO.
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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

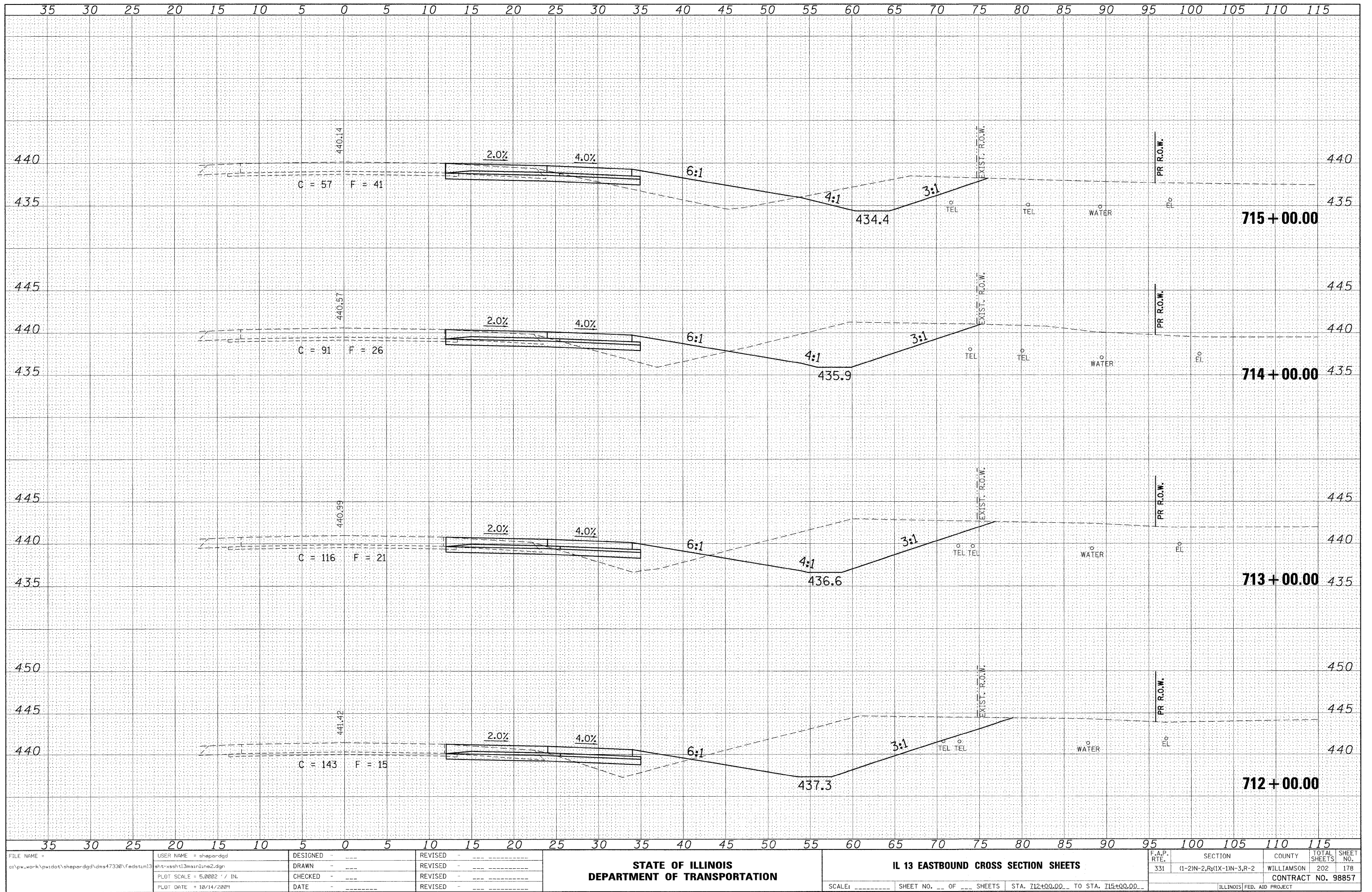


FINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

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

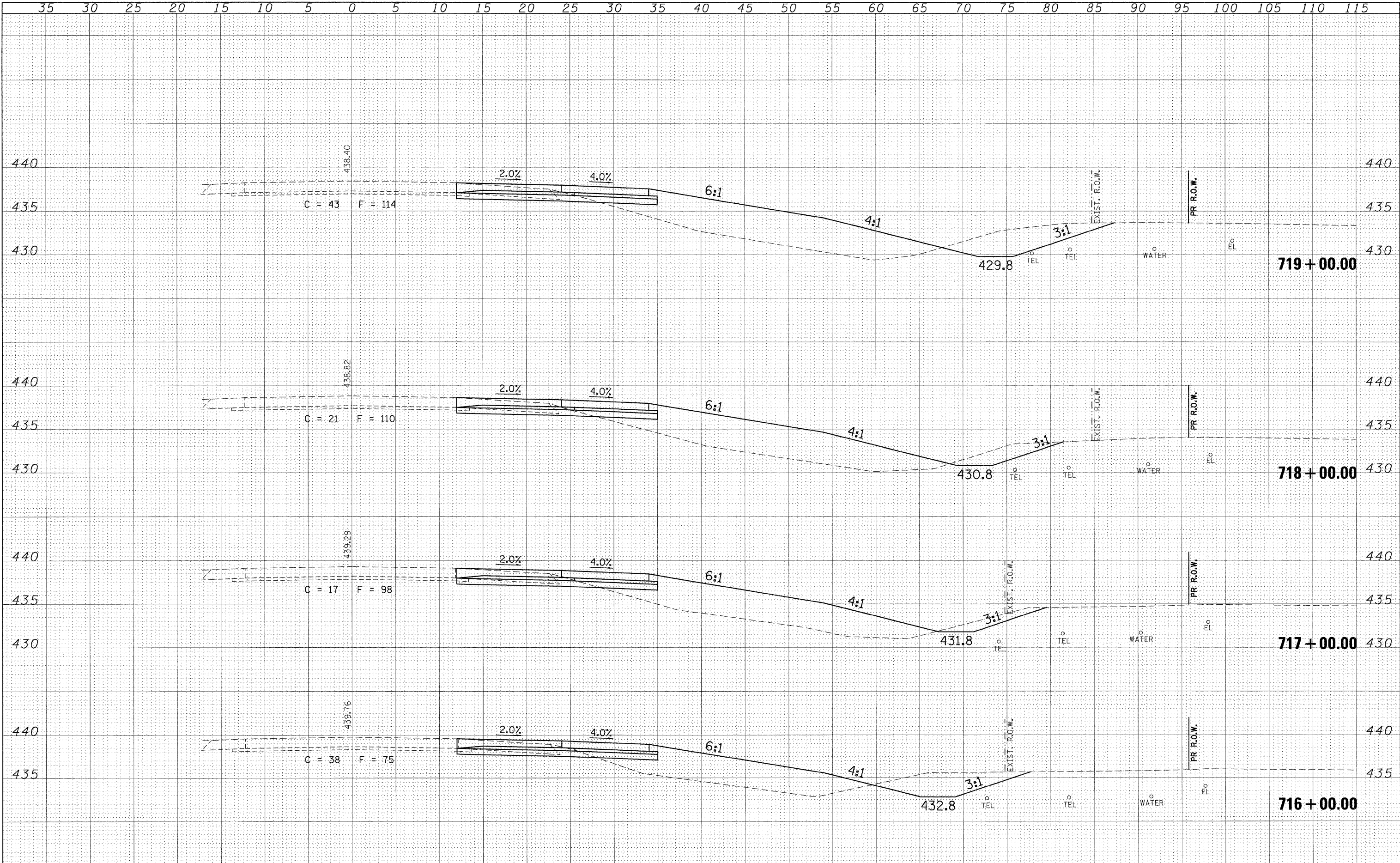


ORIGINAL SURVEY	SURVEYED BY	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	
NO.		



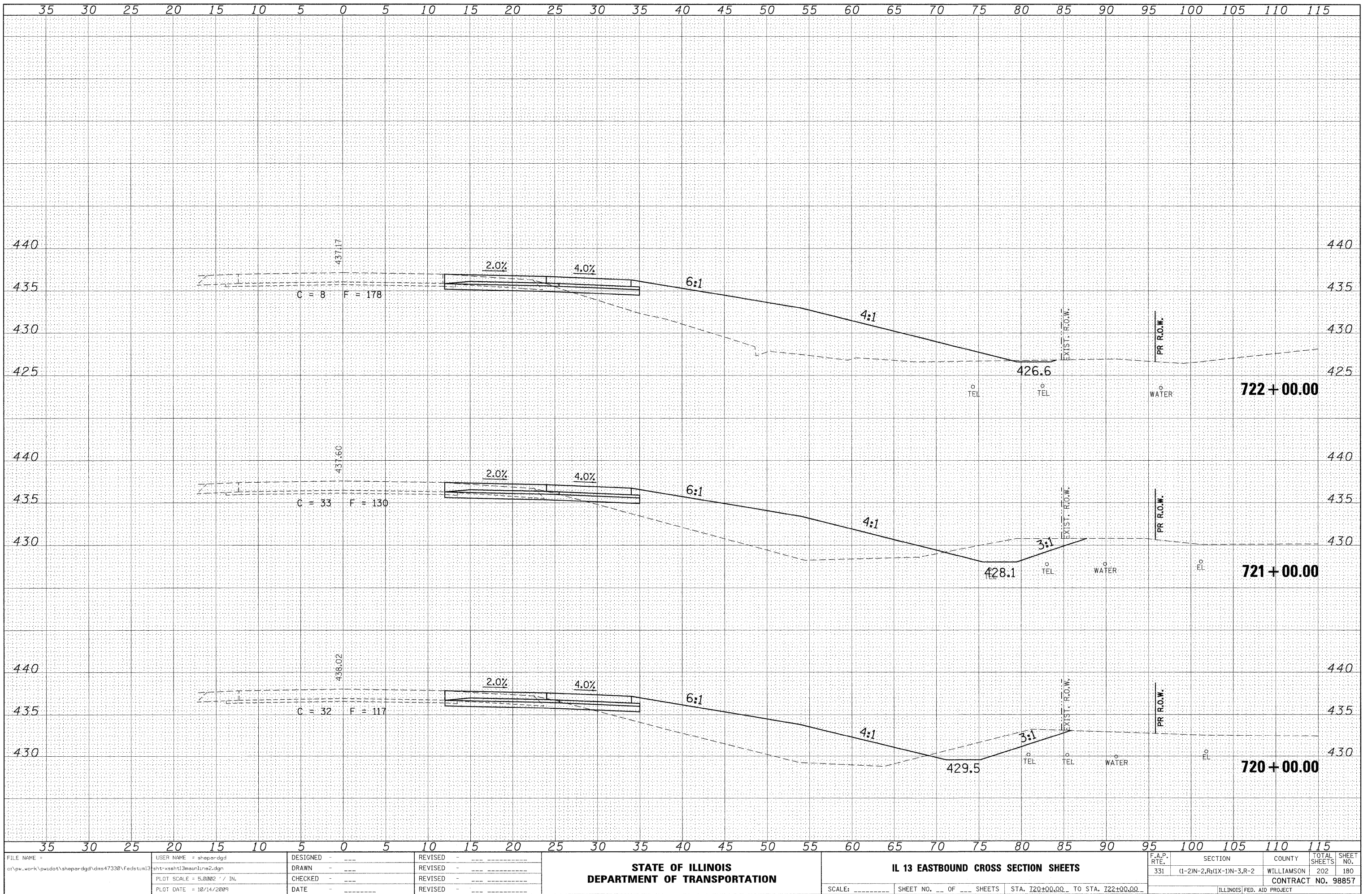
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMP. PLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMP. PLATE
NO.	AREAS CHECKED



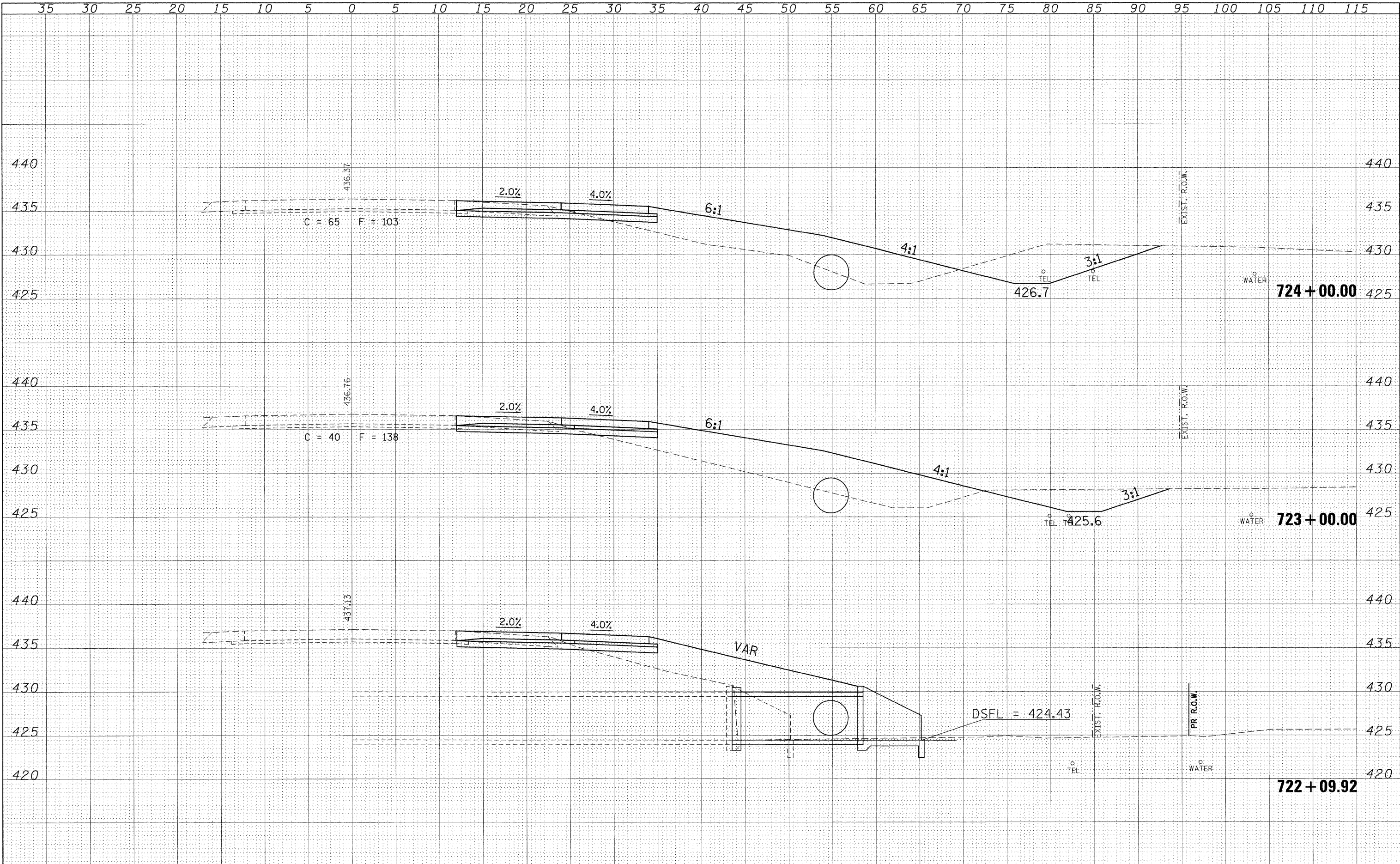
FINAL SURVEY	BY _____		DATE _____
NOTE BOOK	SURVEYED _____		
	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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



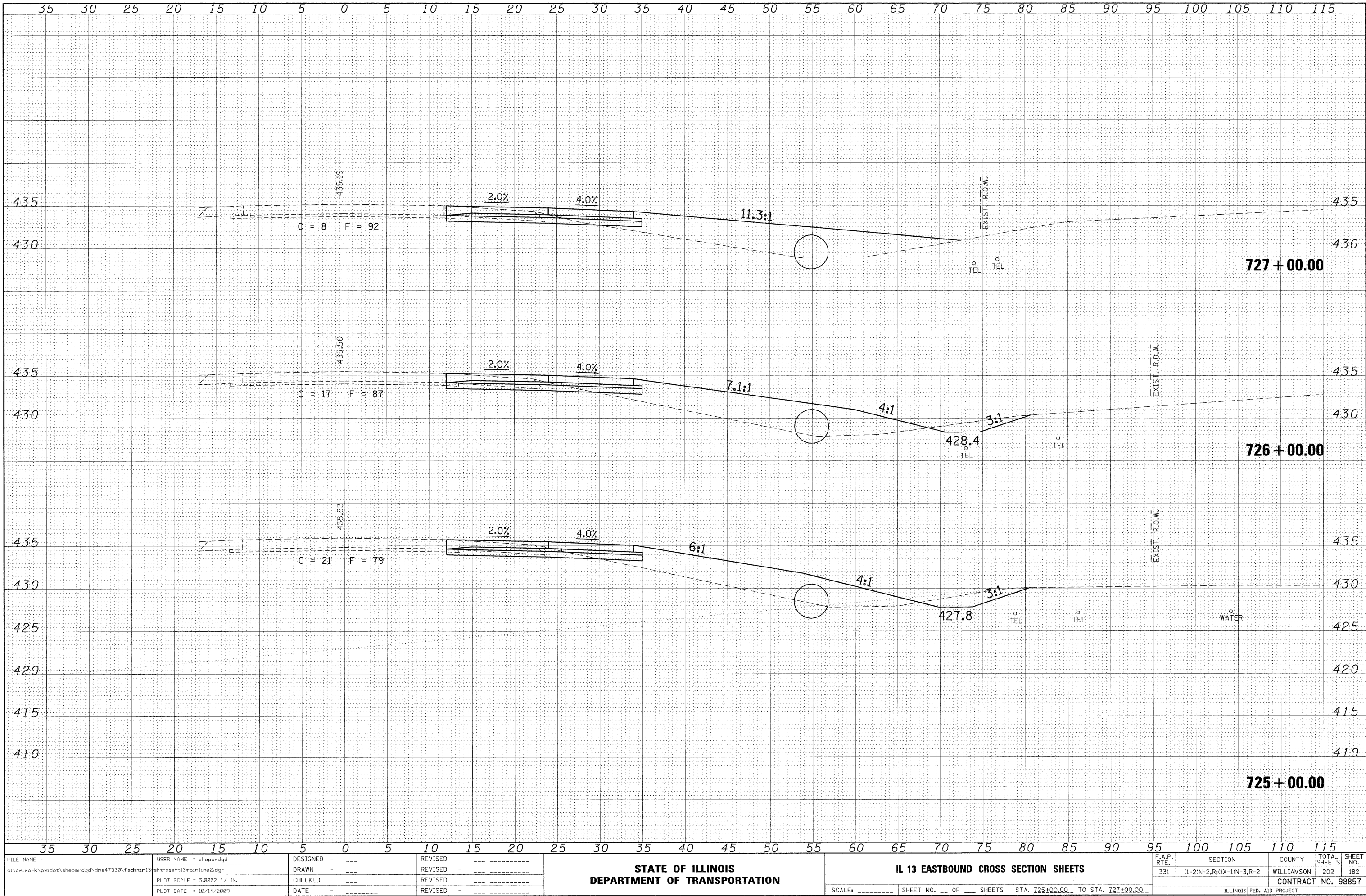
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REVISIONS
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REVISIONS
NO.	AREAS CHECKED



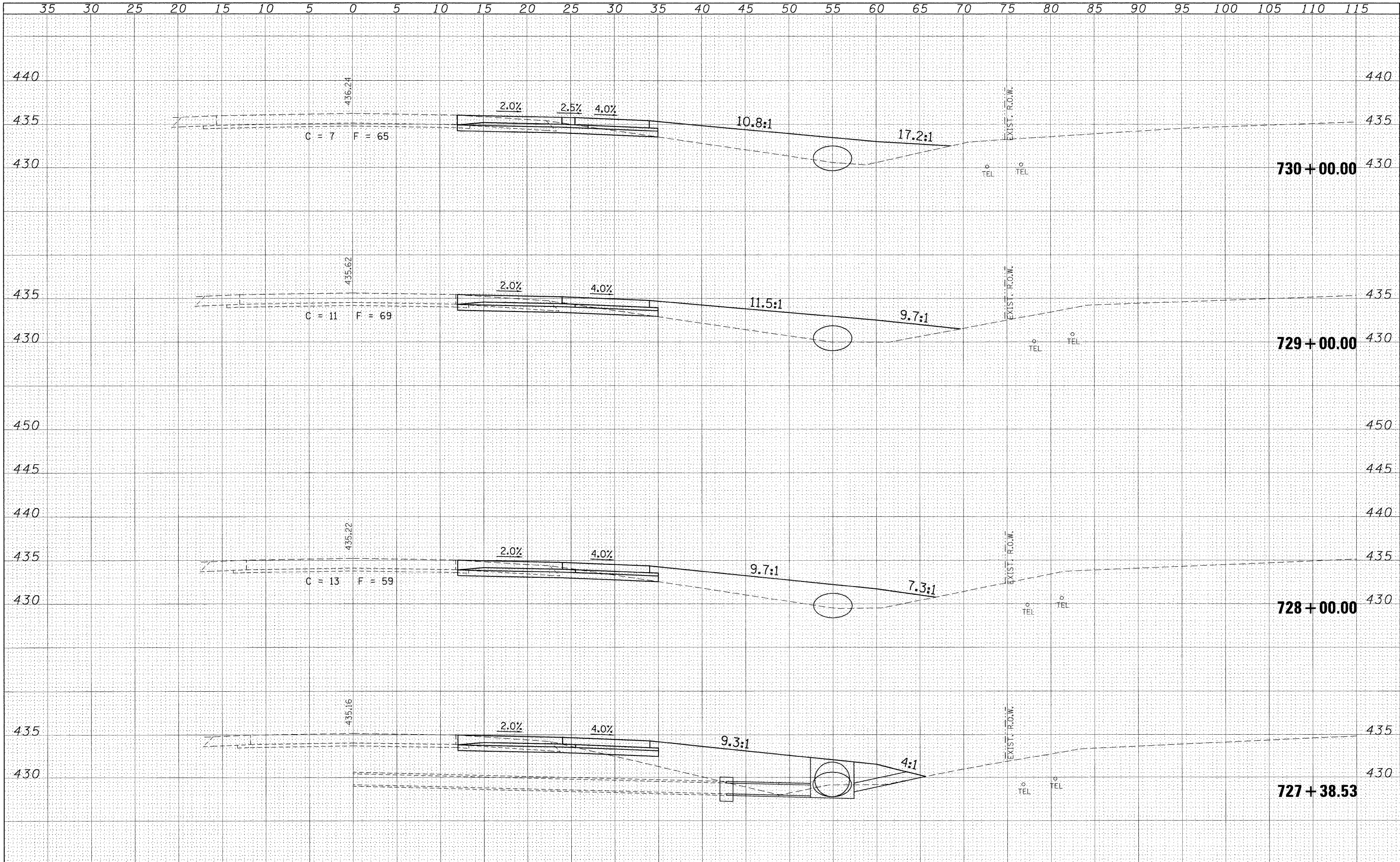
BY	DATE
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

BY	DATE
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

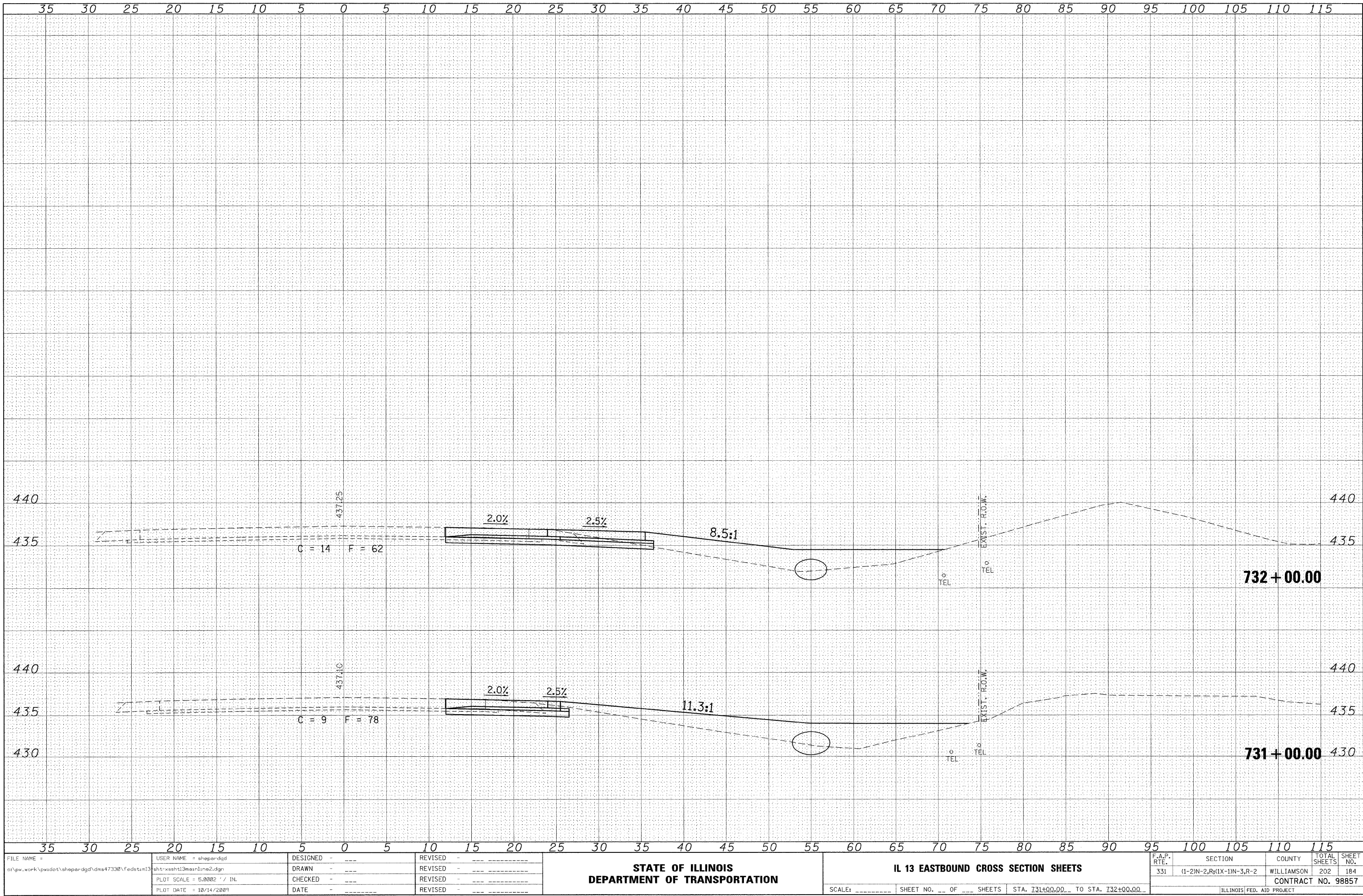


DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

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

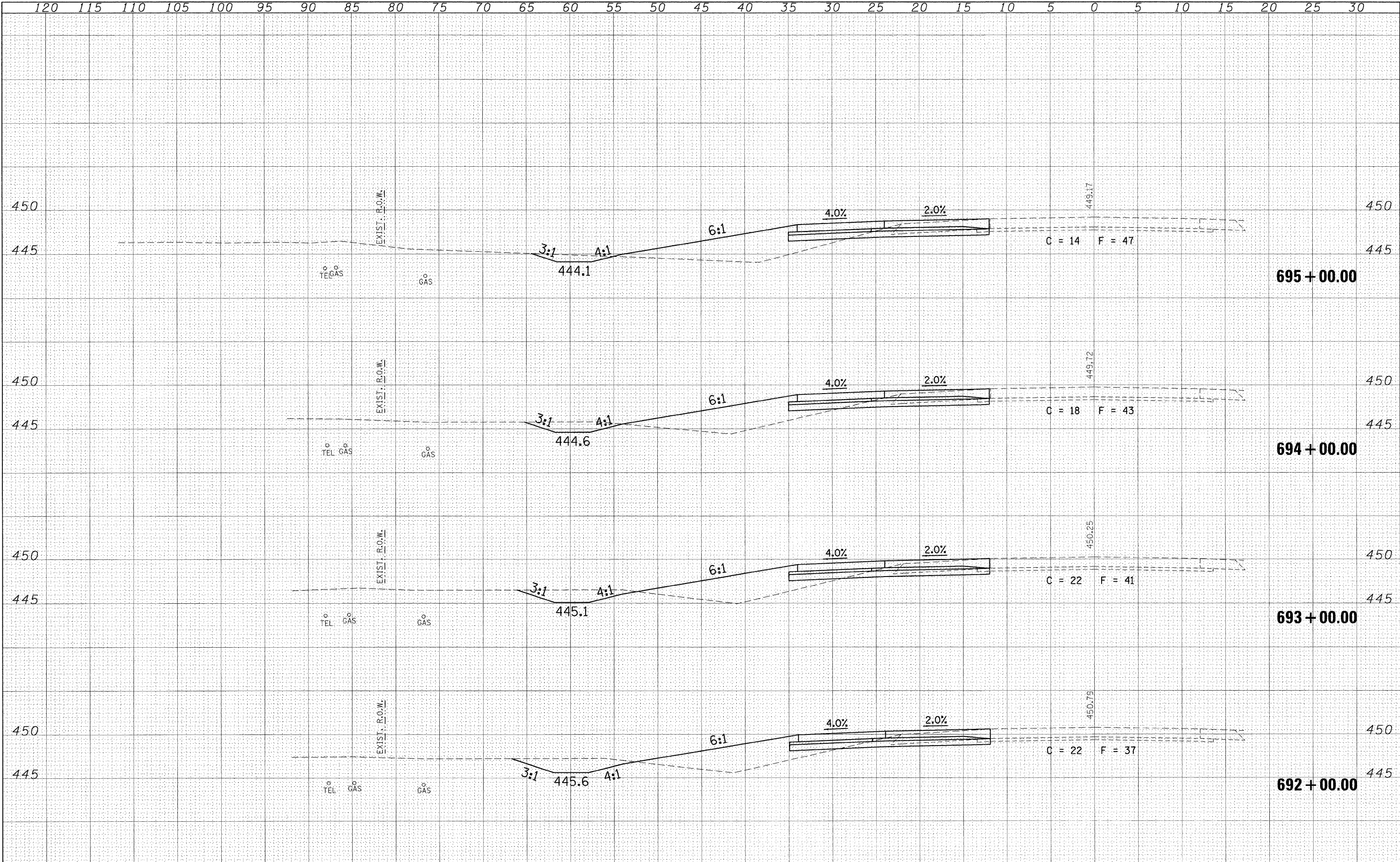


ORIGINAL SURVEY			BY	DATE
NOTE BOOK				
NO.			SURVEYED	
			PLOTTED	
			TEMPLATE	
			AREAS	
			AREAS CHECKED	



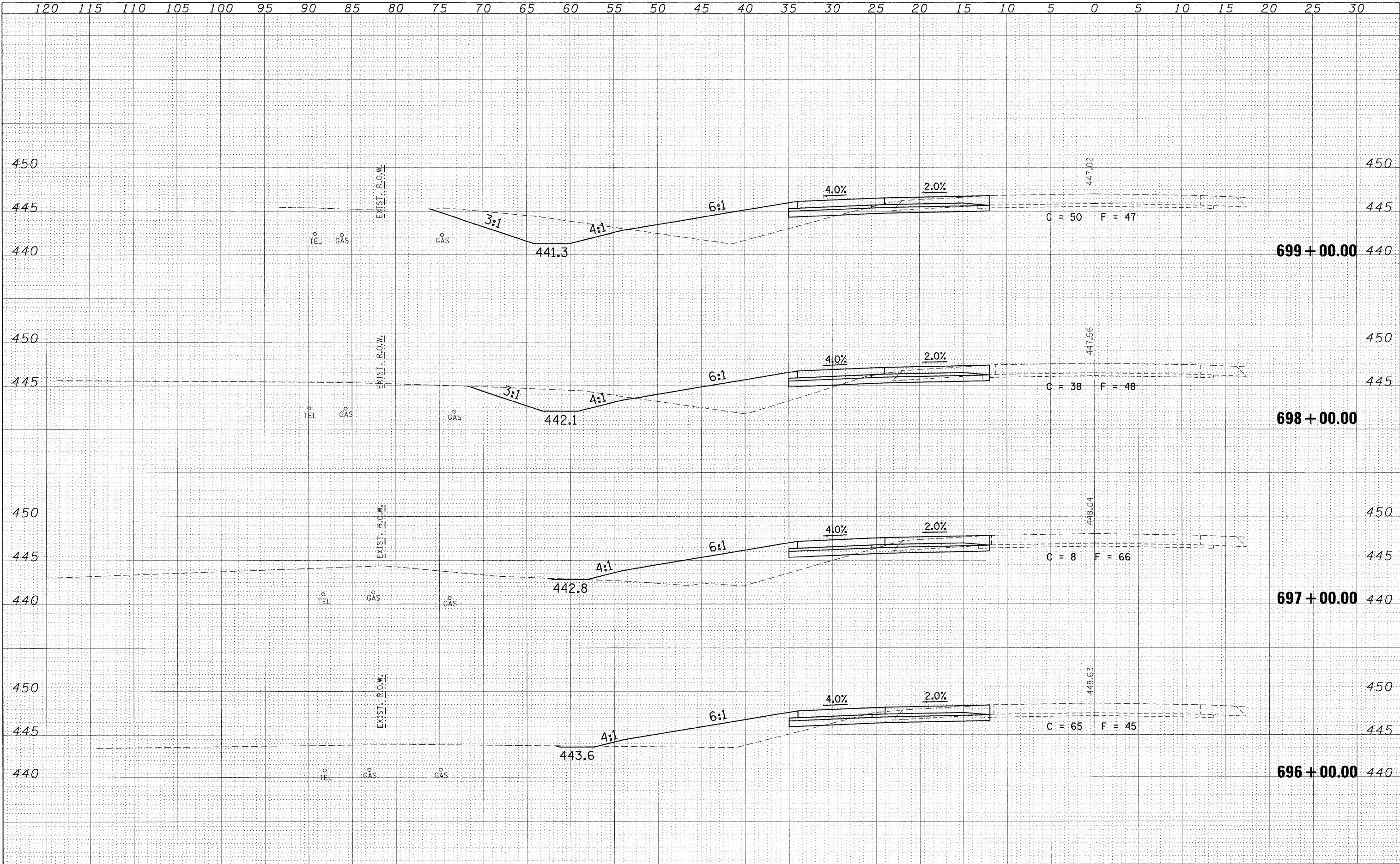
DATE	BY
SURVEYED	NO.
PLOTTED	NO.
NOTE BOOK	NO.
AREAS CHECKED	NO.

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



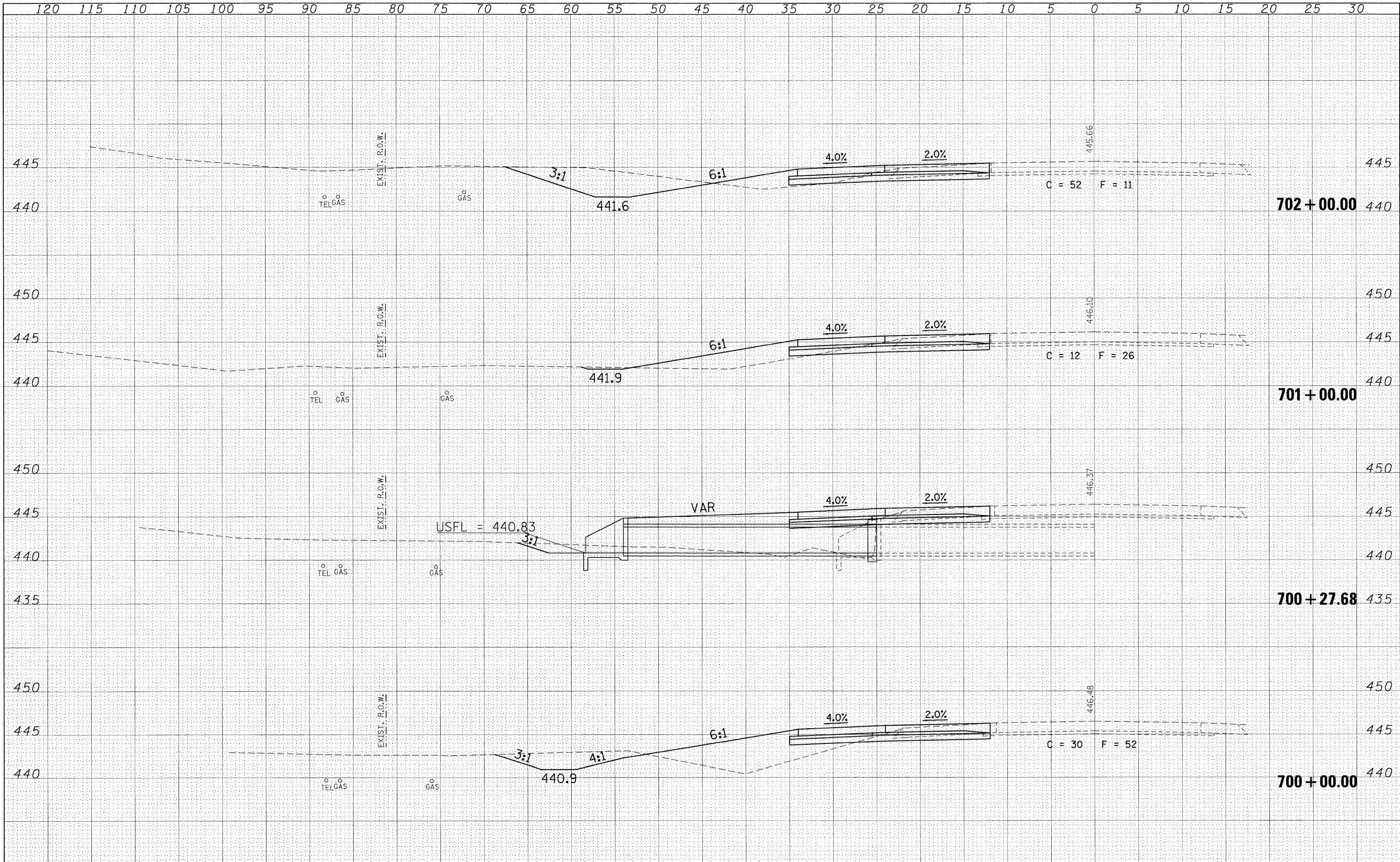
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



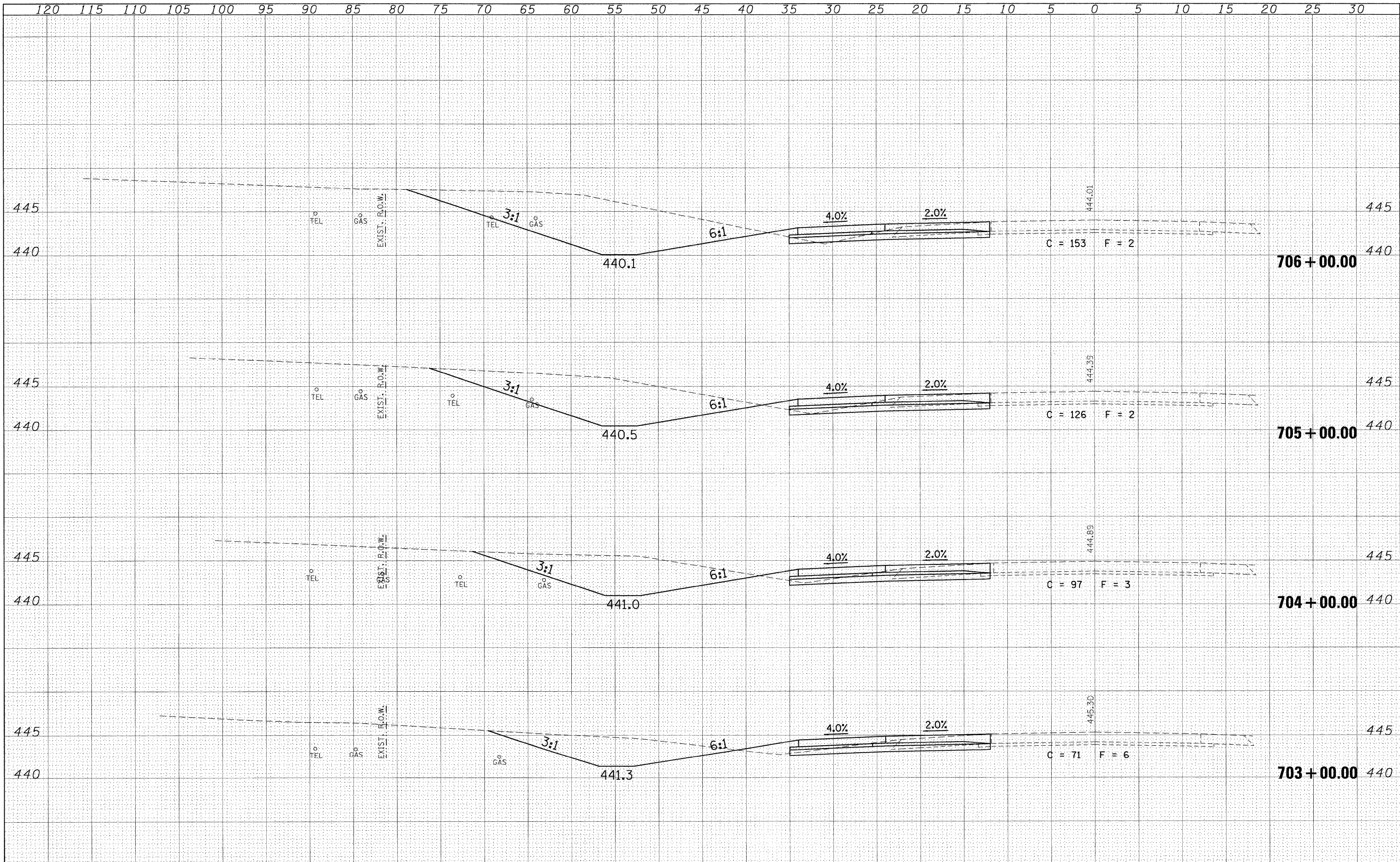
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMA
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMA
NO.	AREAS CHECKED



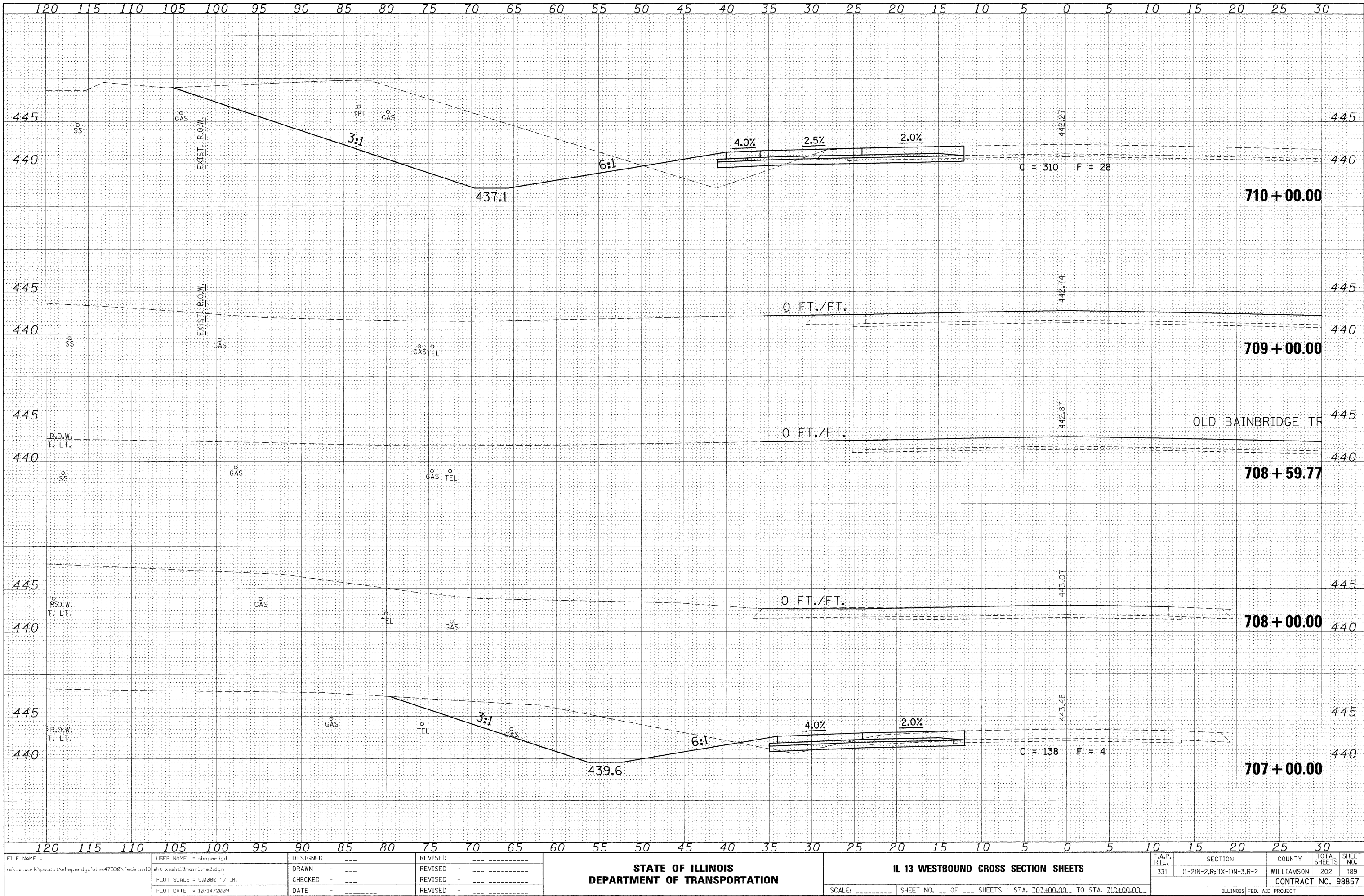
DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



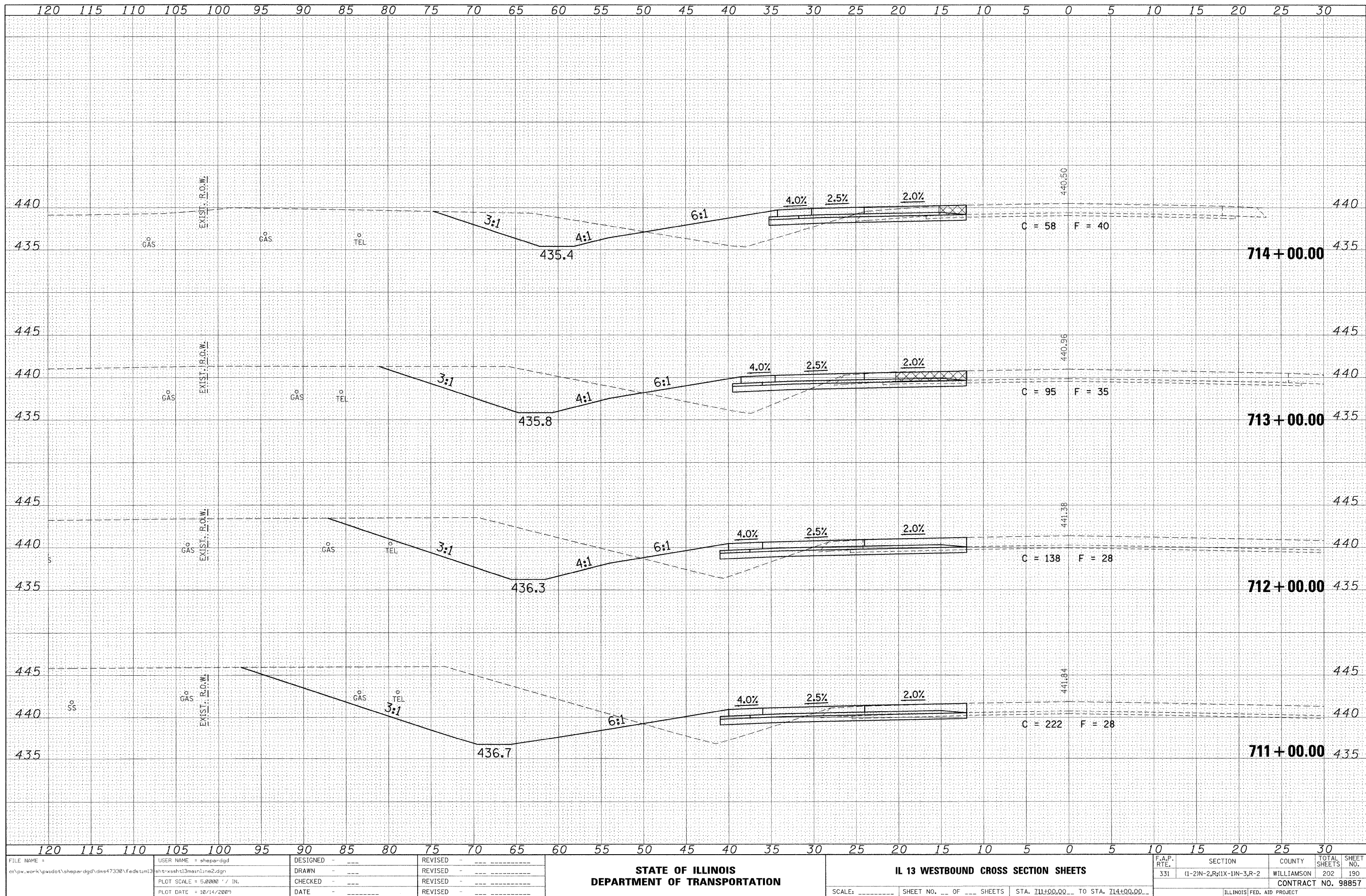
DATE	BY	FINAL SURVEY	SURVEYED	PLOTTED	DATE	NO.

DATE	BY	ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	NO.

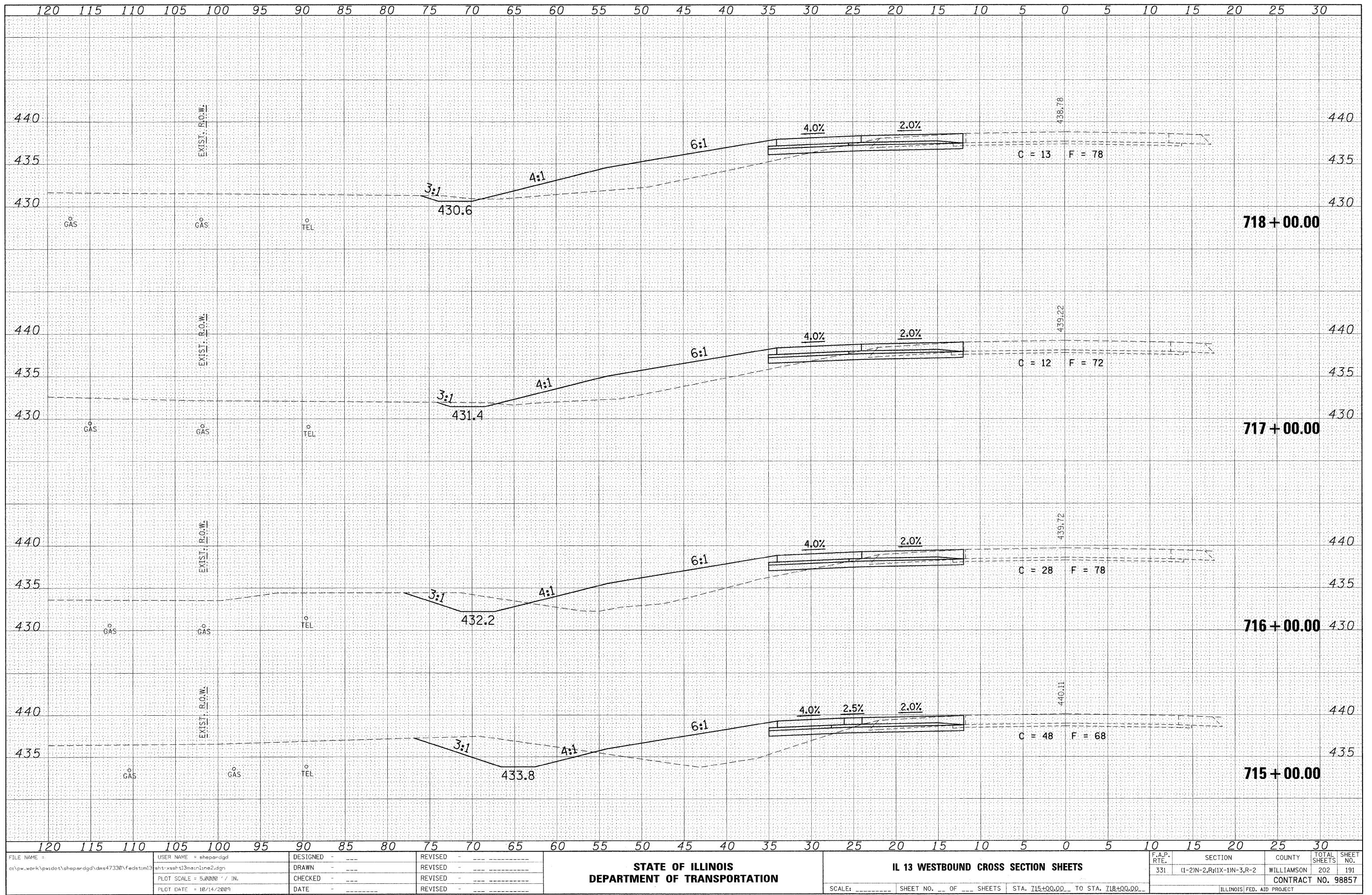


FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

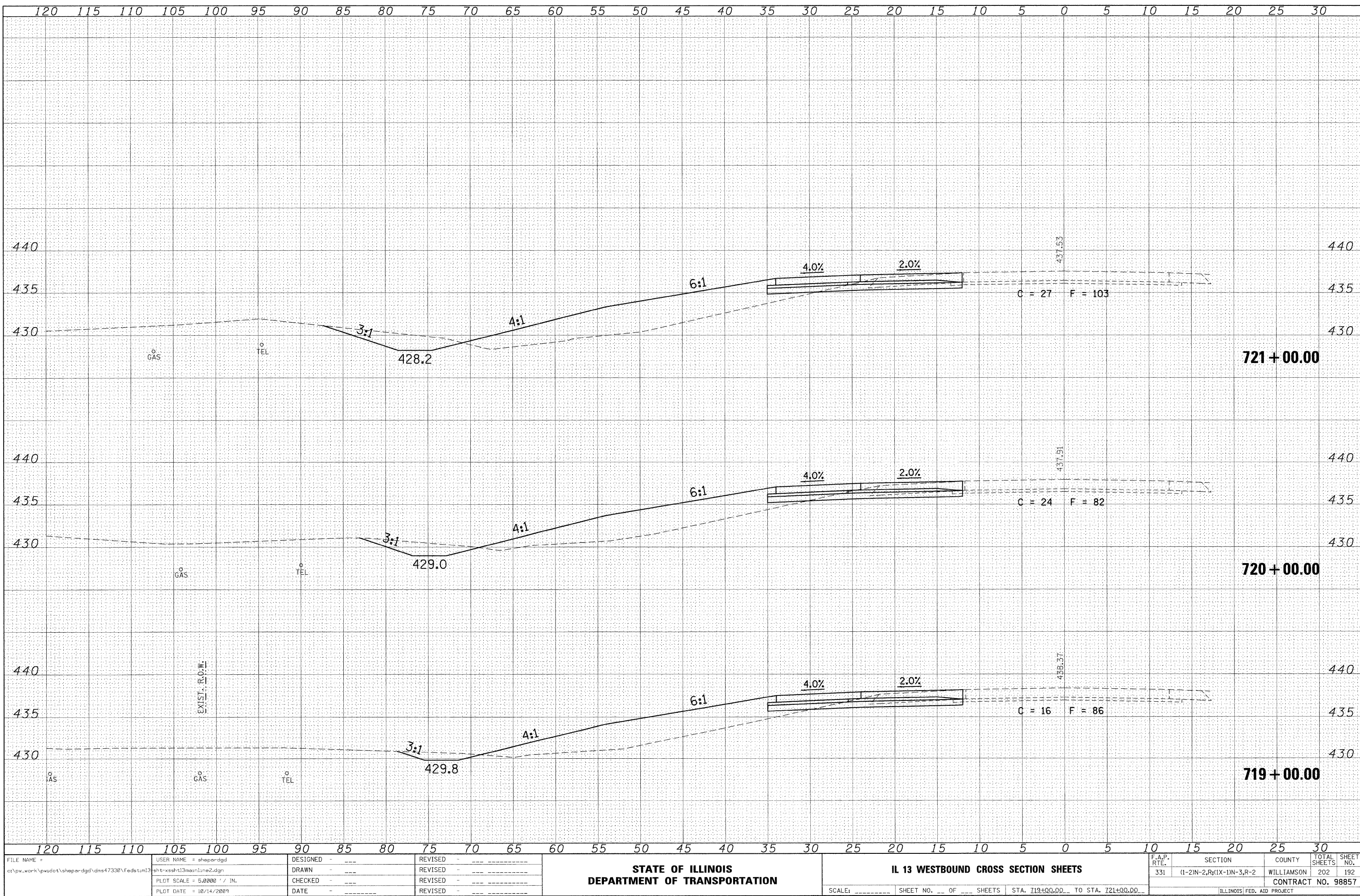
ORIGINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			



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

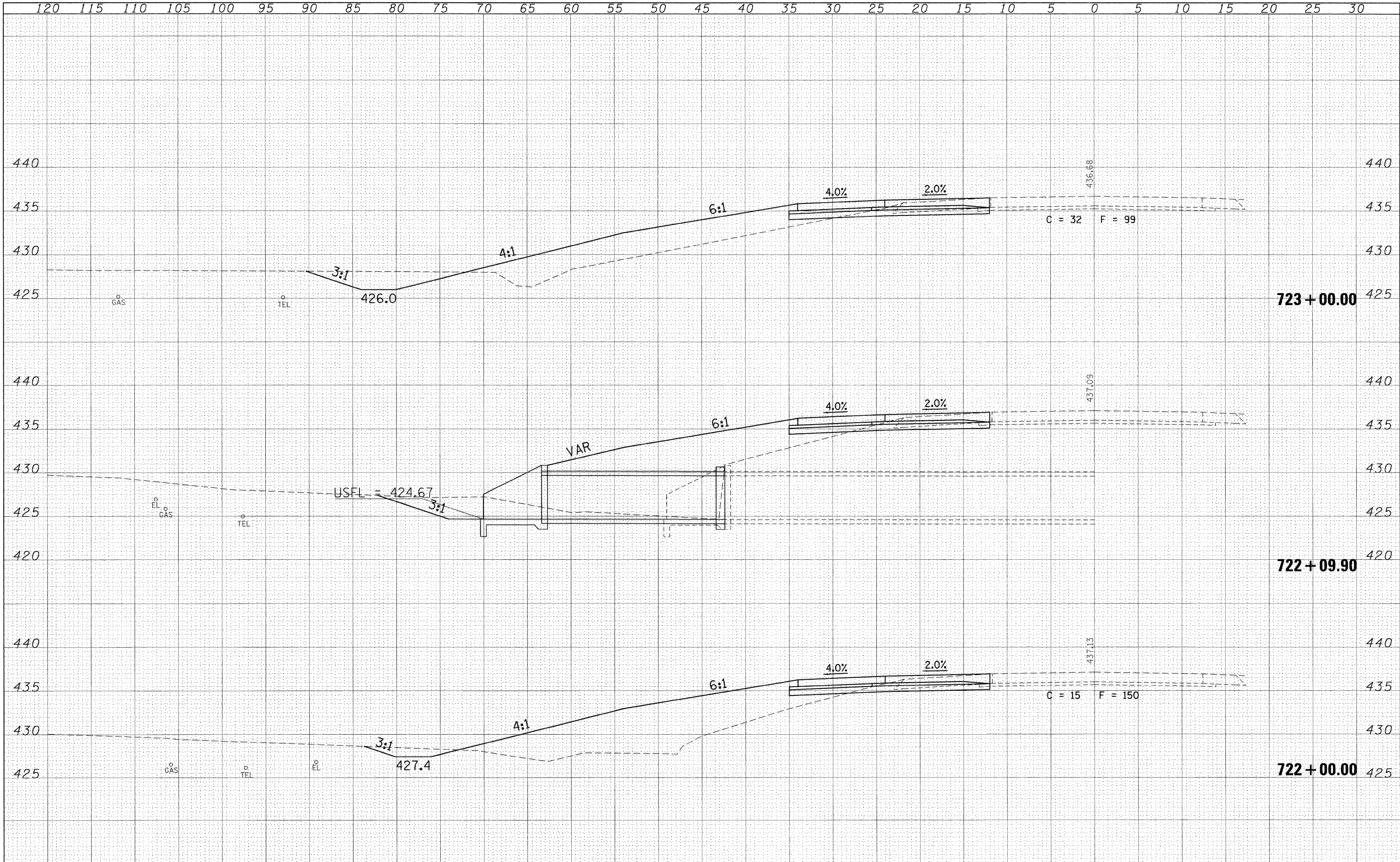


ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
NO.	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

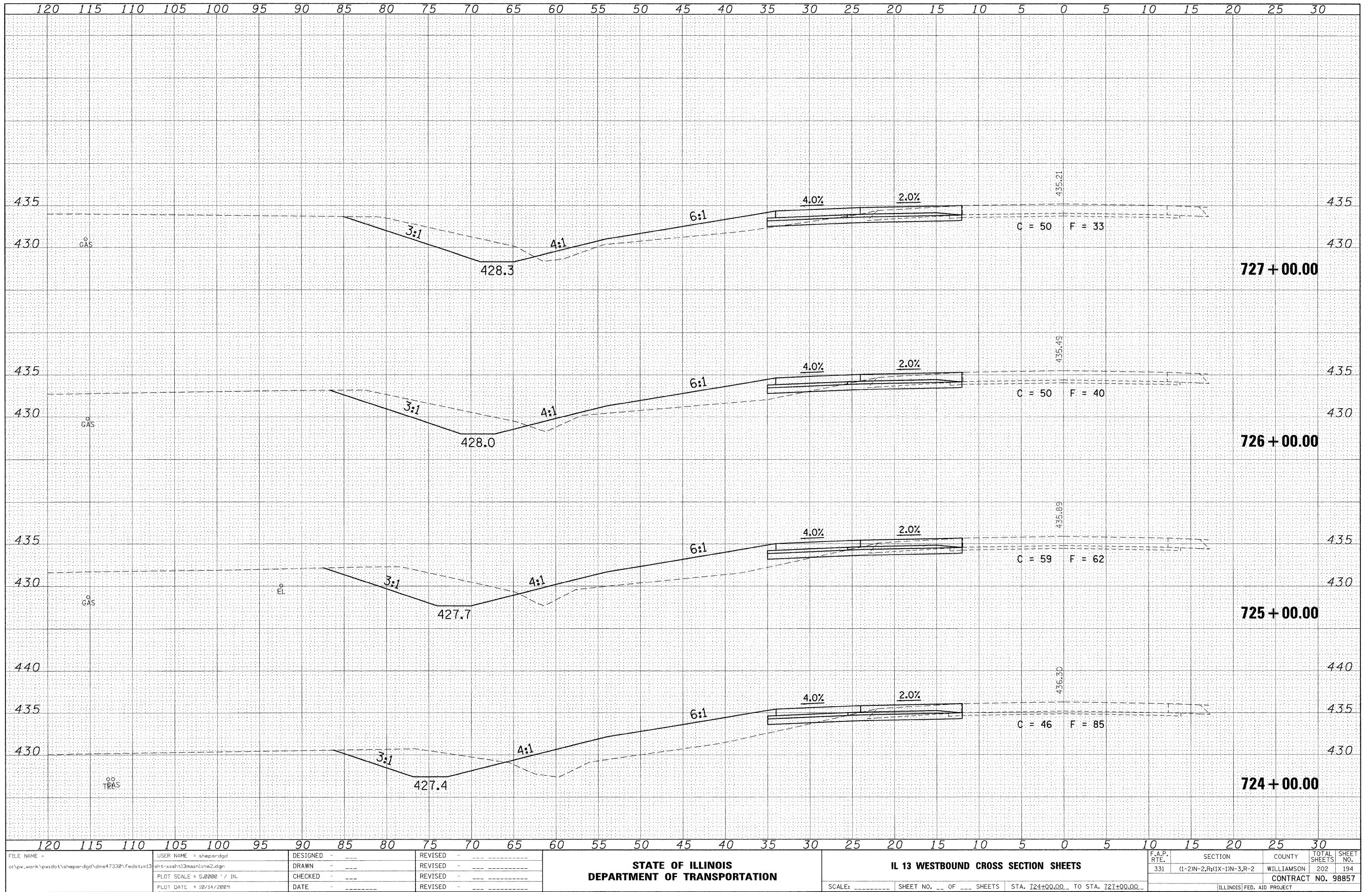


DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REVISIONS
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REVISIONS
NO.	AREAS CHECKED

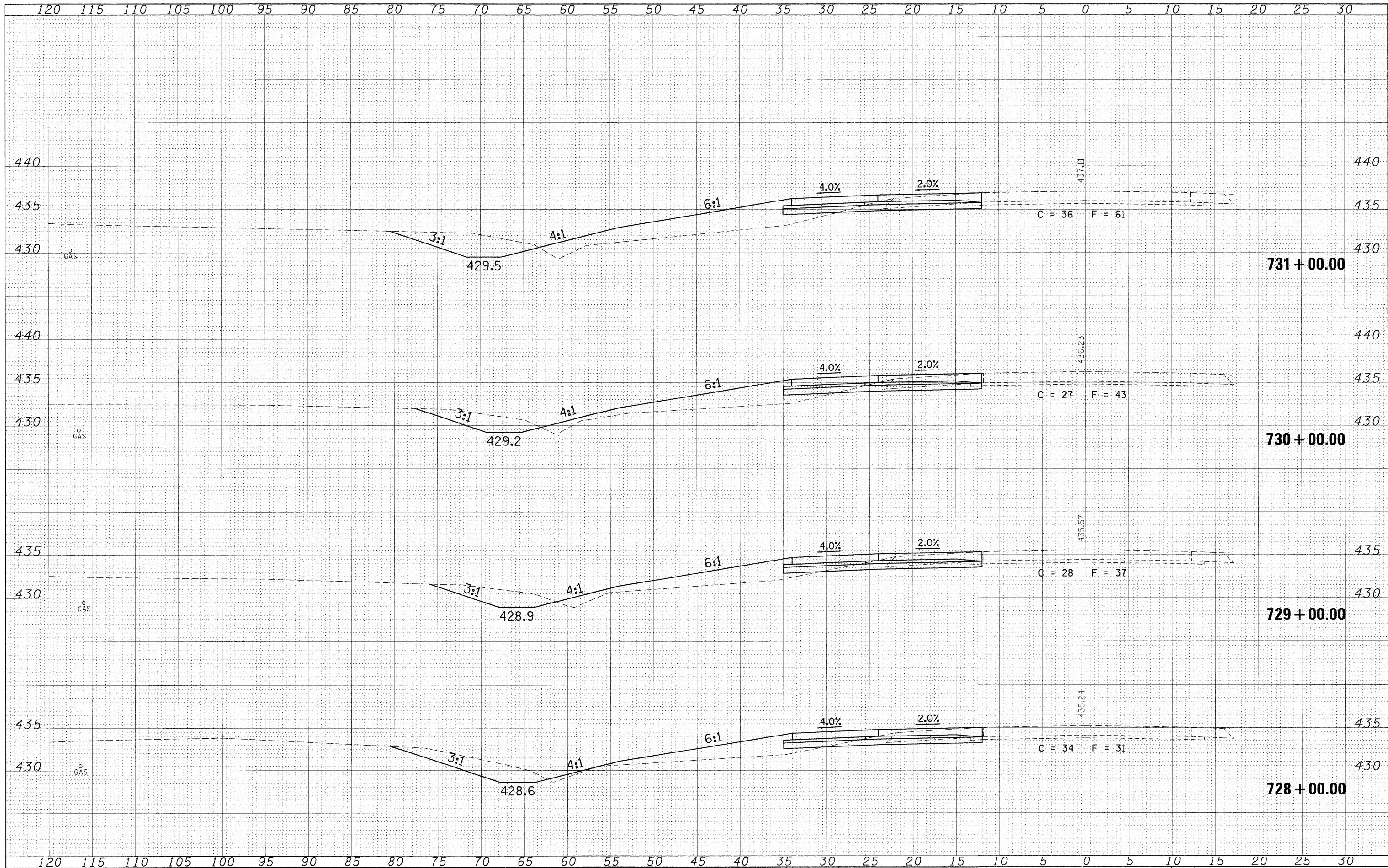


ORIGINAL SURVEY	SURVEYED _____ BY _____ DATE _____
NOTE BOOK	PLOTTED _____
	TEMPLATE _____
	AREAS _____
NO. _____	AREAS CHECKED _____



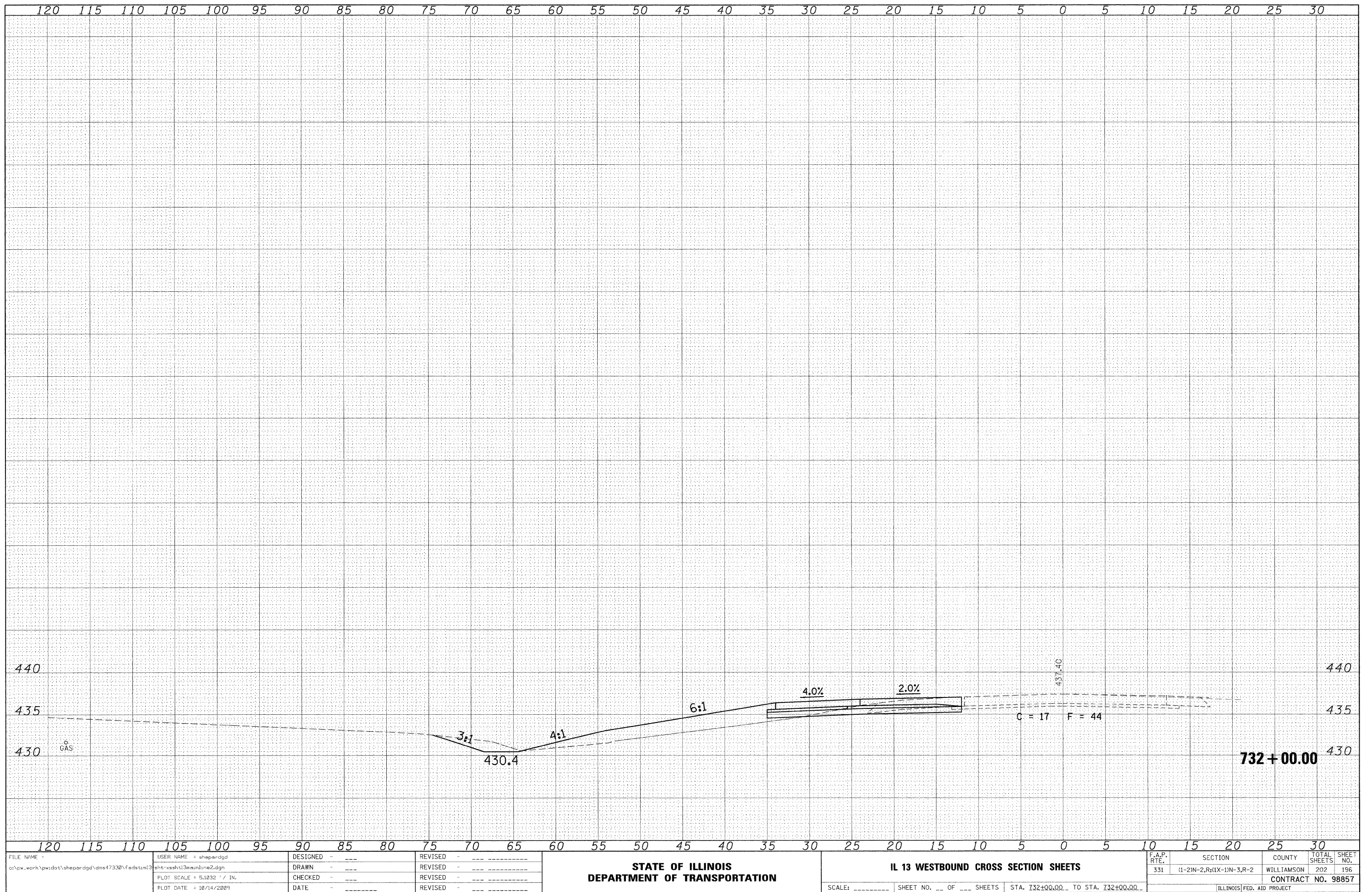
FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		



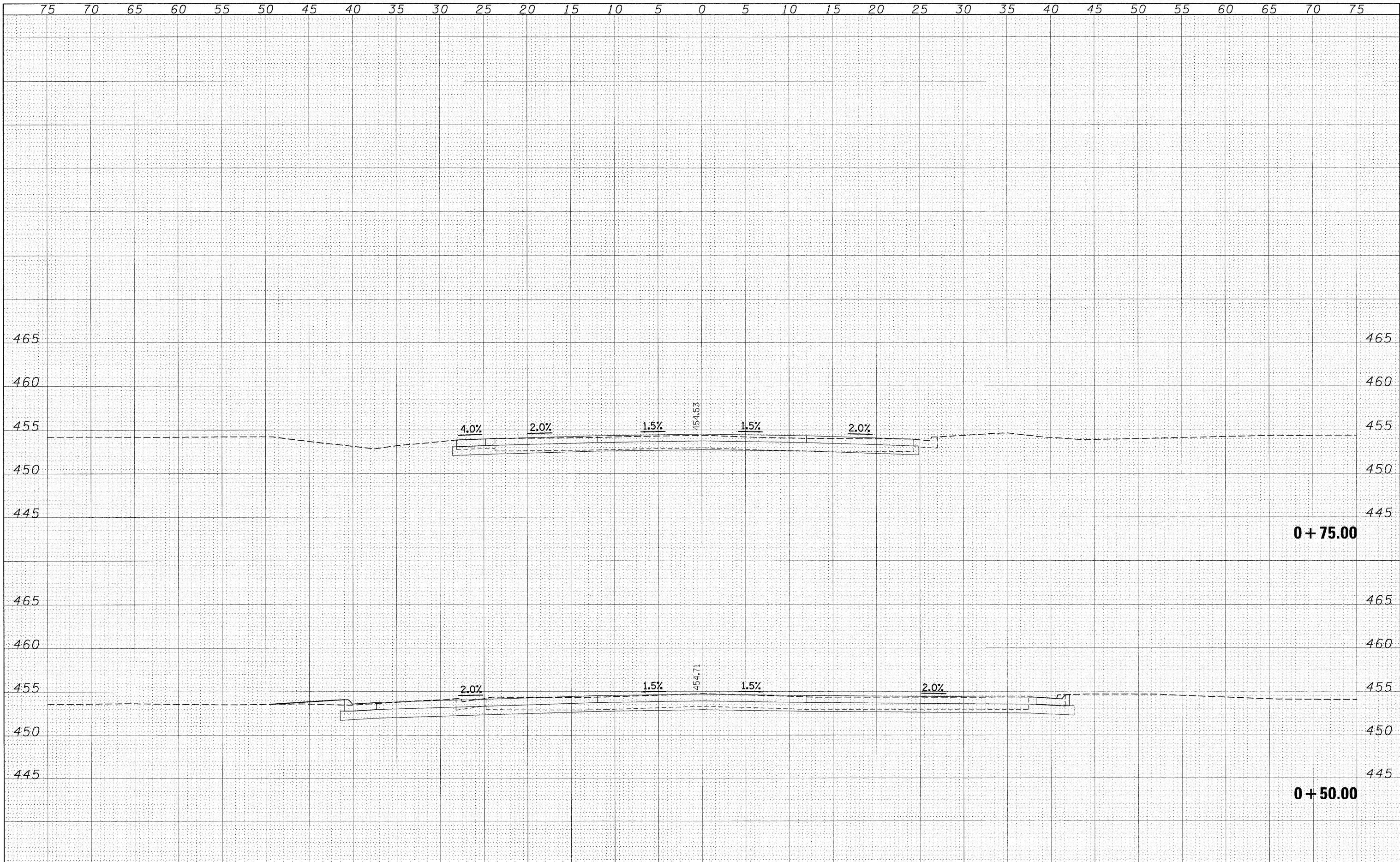
FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 WESTBOUND CROSS SECTION SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\wdot\shepardgd\des47330\fedstin3	sht-xssh13mainline2.dgn	DRAWN -	REVISED -			331	(1-2)N-2,Ry(1X-1)N-3,R-2	WILLIAMSON	202	195
		CHECKED -	REVISED -			CONTRACT NO. 98857				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
				SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. 728+00.00 TO STA. 731+00.00				

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



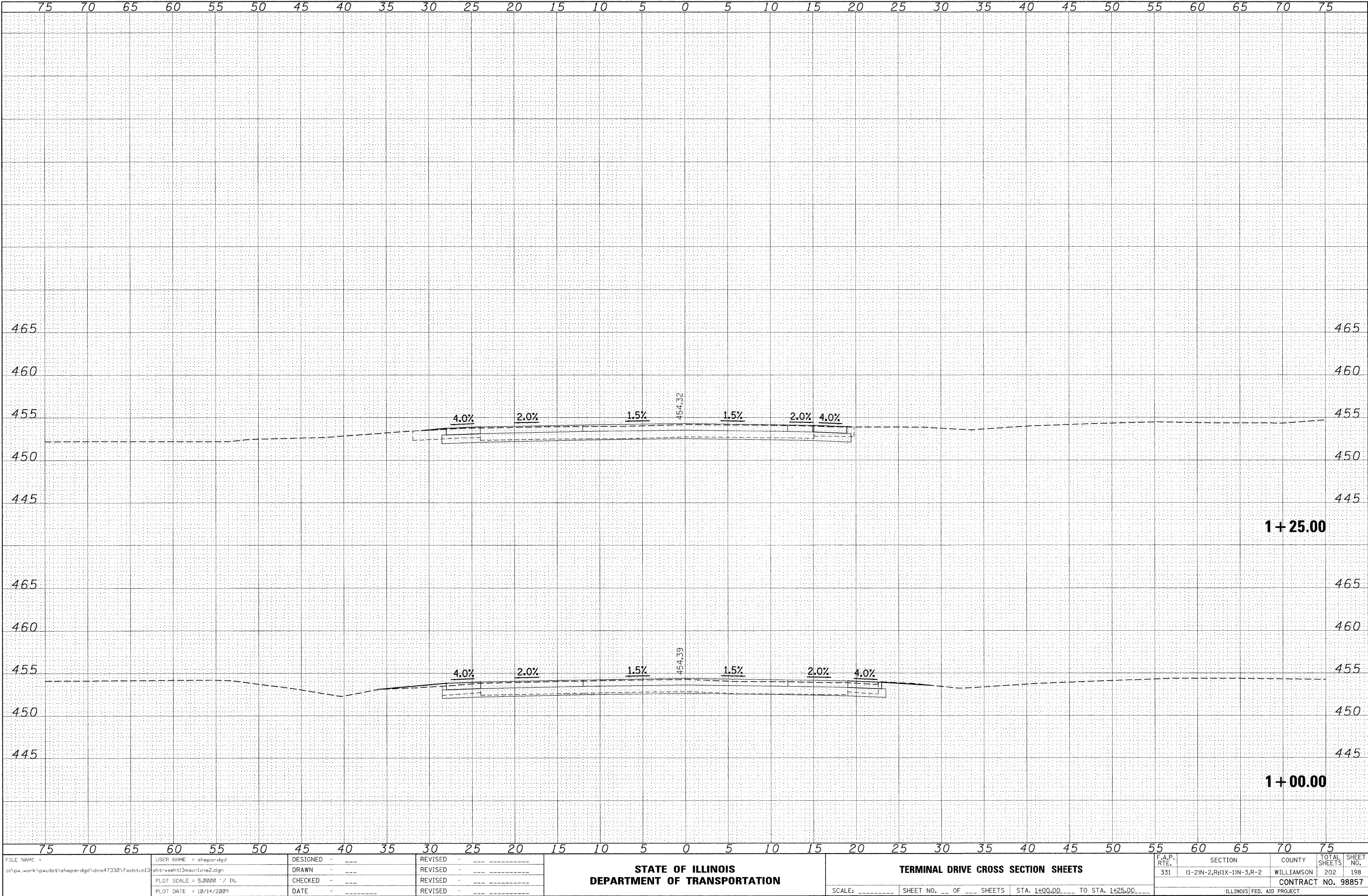
FINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	REPLATE		
NO.	AREAS CHECKED		

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



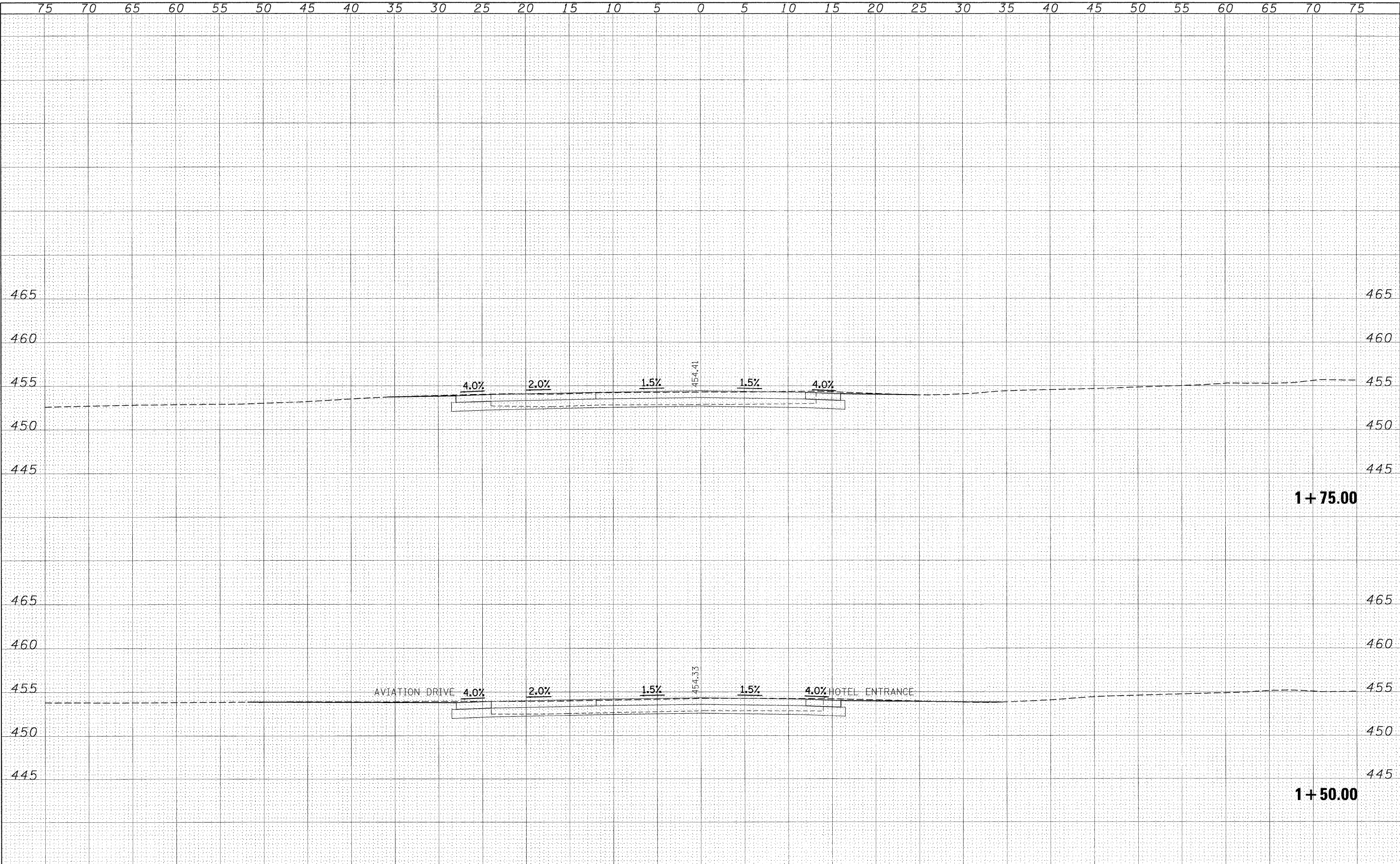
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	DATE		
	AREAS CHECKED		

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



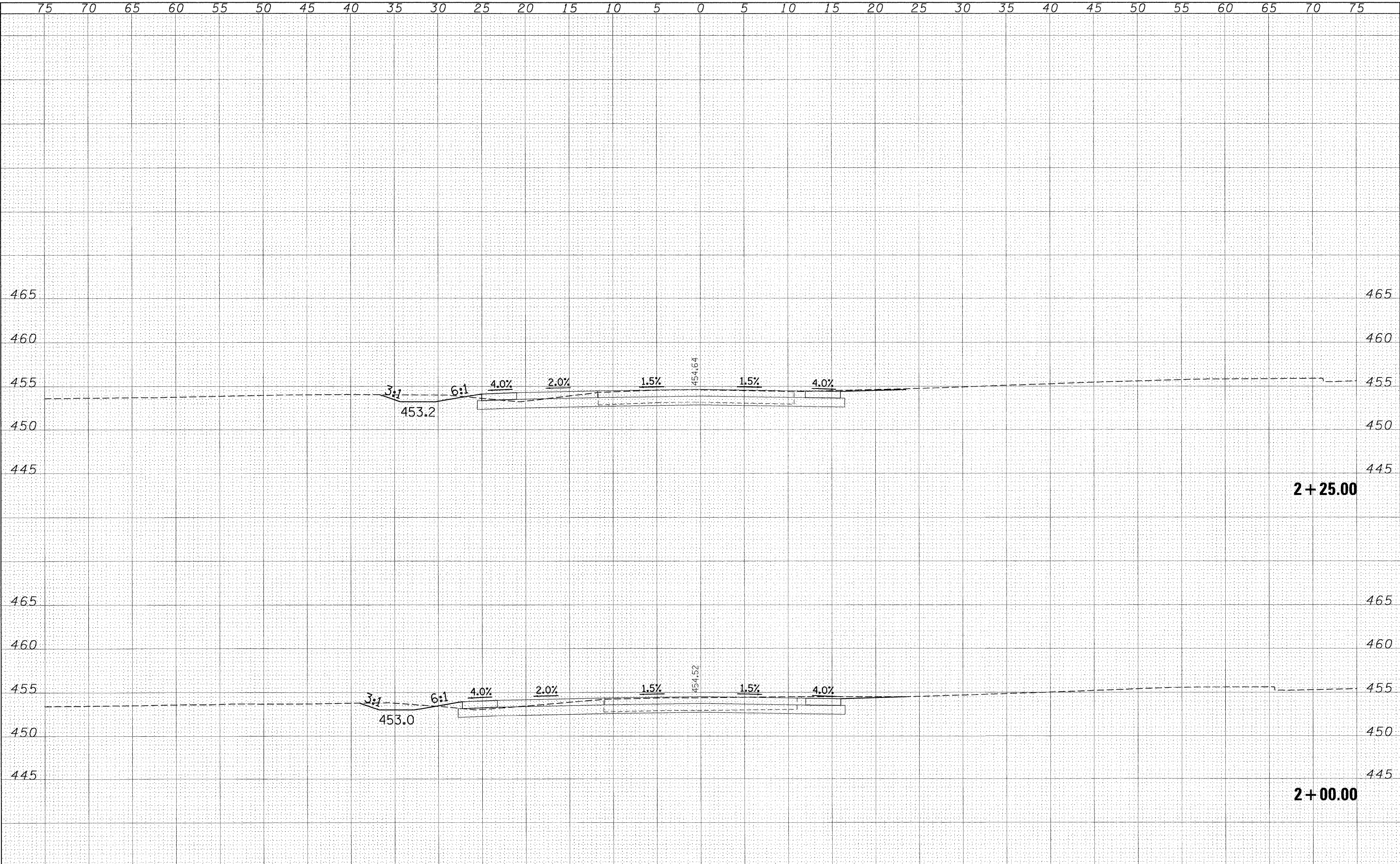
DATE	BY	SURVEYED	PLOTTED	TEMP.	AREAS CHECKED
		FINAL	NOTE BOOK		
		NO.			

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



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

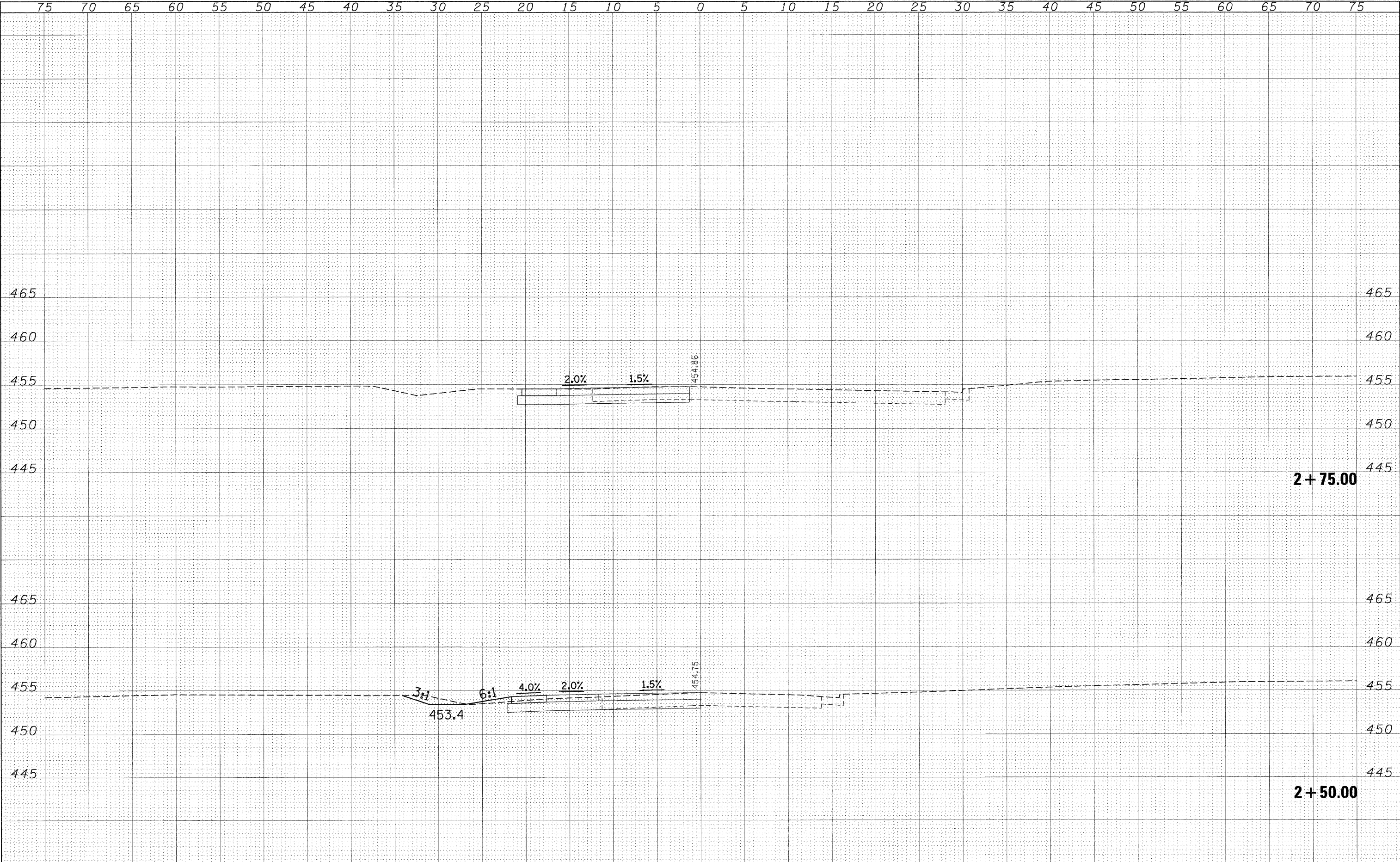
DATE	BY	SURVEYED	PLOTTED	REPLATE	AREAS CHECKED
ORIGINAL		NOTE BOOK			
NO.					



FILE NAME =	USER NAME = shepardgd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				TERMINAL DRIVE CROSS SECTION SHEETS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pw\dot\shepardgd\ins47330\Fedstun13	shhtxssht13mainline2.dgn	DRAWN -	REVISED -									331	(1-2)N-2,R;(1X-1)N-3,R-2	WILLIAMSON	202	200
	PLOT SCALE = 5,0000 ' / IN.	CHECKED -	REVISED -													CONTRACT NO. 98857
	PLOT DATE = 10/14/2009	DATE -	REVISED -													ILLINOIS FED. AID PROJECT
				SCALE: _____				SHEET NO. __ OF __ SHEETS				STA. 2+00.00 TO STA. 2+25.00				

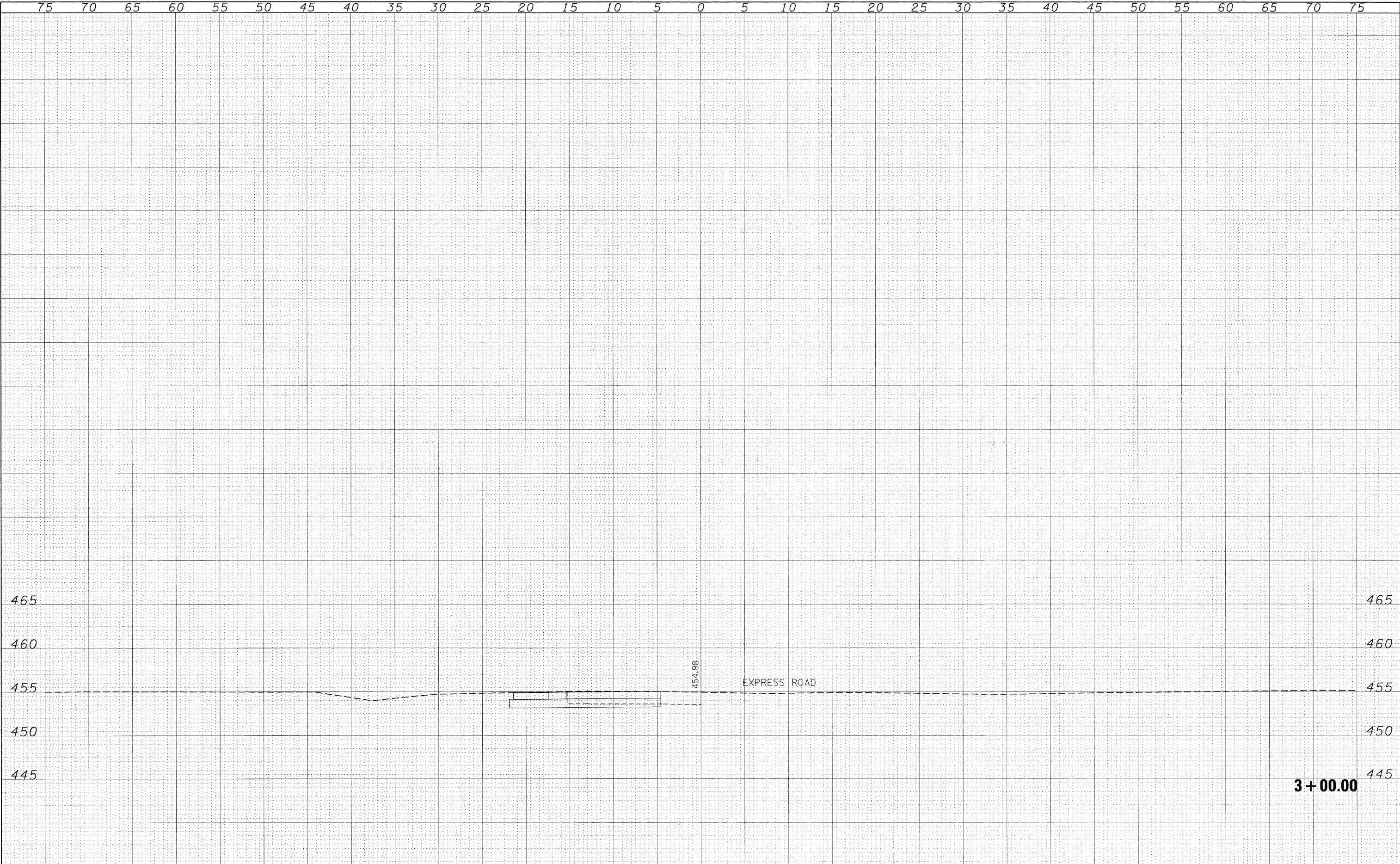
DATE	BY	SURVEYED	PLOTTED	REPLATE	NO.
FINAL		NO. BOOK	NO. DATE	AREAS CHECKED	

DATE	BY	SURVEYED	PLOTTED	REPLATE	NO.
ORIGINAL		NO. BOOK	NO. DATE	AREAS CHECKED	



FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	REPLATE		
	NOTE BOOK		
	NO.		

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	REPLATE		
	NOTE BOOK		
	NO.		



75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75											
FILE NAME =			USER NAME = shepardgd			DESIGNED - ---			REVISED - ---			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										TERMINAL DRIVE CROSS SECTION SHEETS						F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.								
c:\pw\work\pw1da\t\shepardgd\dms47330\fedstim13			sht-xsh13mainline2.dgn			DRAWN - ---			REVISED - ---																			331	(1-2)N-2,R;(1X-1)N-3,R-2		WILLIAMSON	202	202								
			PLOT SCALE = 5,0000 / / IN.			CHECKED - ---			REVISED - ---																			SCALE: _____					SHEET NO. ____ OF ____ SHEETS		STA. 3+00.00 ____ TO STA. 3+00.00 ____		ILLINOIS FED. AID PROJECT				
			PLOT DATE = 10/14/2009			DATE - ---			REVISED - ---																																
																																	CONTRACT NO. 98857								