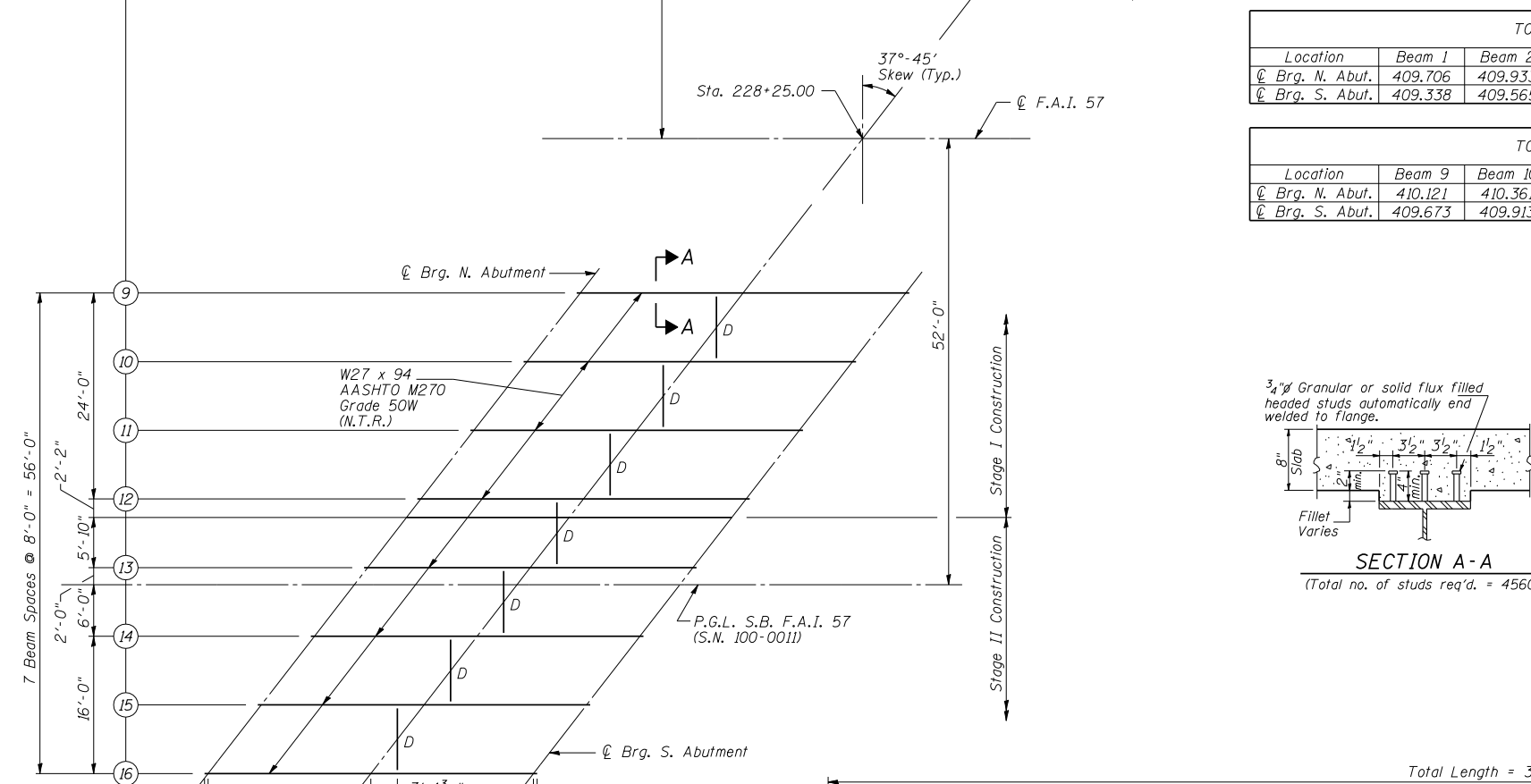
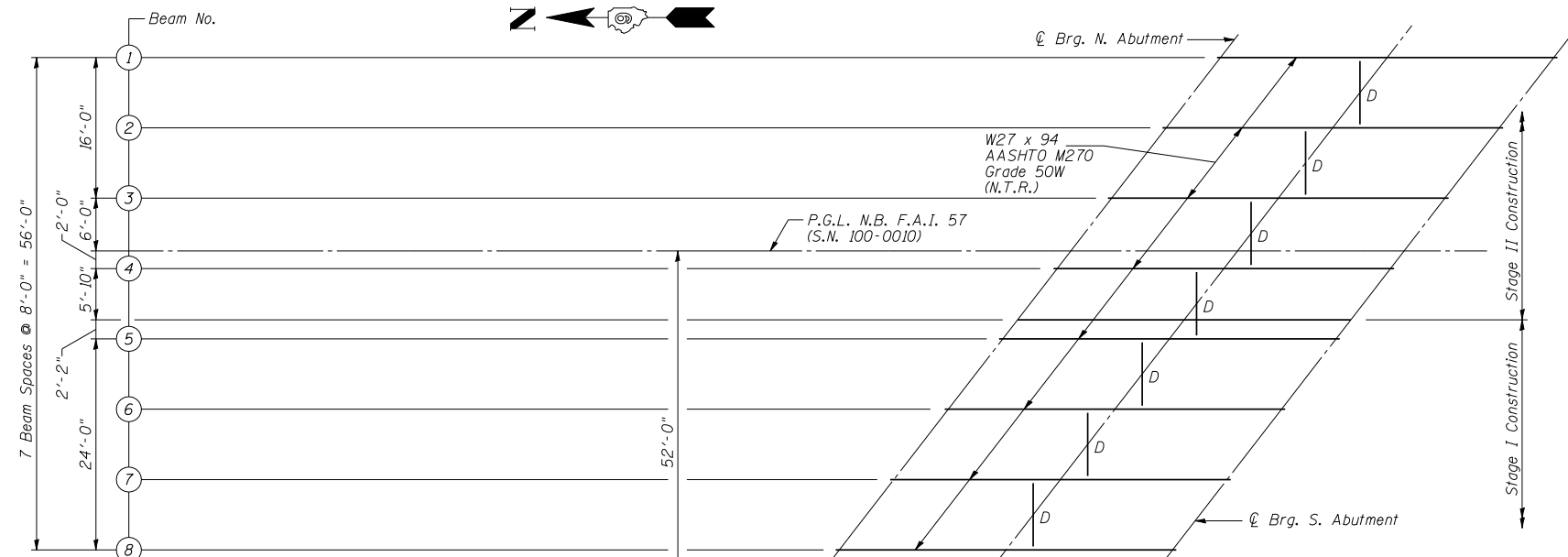
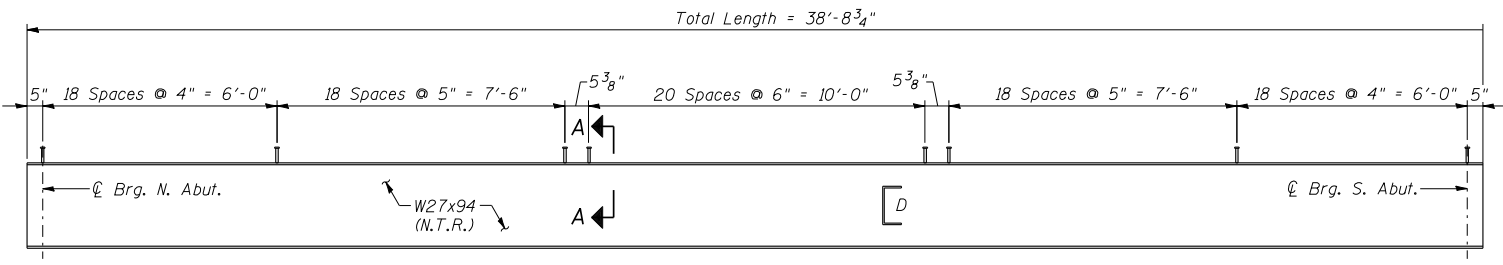


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



FRAMING PLAN



BEAM ELEVATION

LRFD BEAM REACTION TABLE

		Abut. 1 & 2
$R_{DC1}$	(k)	18.5
$R_{DC2}$	(k)	2.5
$R_{DW}$	(k)	7.6
$R_{L \cdot Imp}$	(k)	79.4
$R_{Total}$	(k)	107.9

\*\*\* LFD BEAM REACTION TABLE

		Abut. 1 & 2
$R_{\phi}$	(k)	28.5
$R_{L}$	(k)	44.2
$R_{I}$	(k)	13.3
$R_{Total}$	(k)	86.0

\*\*\* For use w/abutment design

BEAM MOMENT TABLE

		0.5 Span
$I_s$	(in <sup>4</sup> )	3,270
$I_c(n)$	(in <sup>4</sup> )	10,463
$I_c(3n)$	(in <sup>4</sup> )	7,943
$S_s$	(in <sup>3</sup> )	243
$S_c(n)$	(in <sup>3</sup> )	388
$S_c(3n)$	(in <sup>3</sup> )	352
$Z$		—
$DC1$	(k/')	0.94
$M_{DC1}$	(k)	170
$DC2$	(k/')	0.13
$M_{DC2}$	(k)	23
$DW$	(k/')	0.40
$M_{DW}$	(k)	72
$M_L \cdot Imp$	(k)	536
$M_u$ (Strength I)	(k)	1,288
$\phi M_n$	(k)	2134
$f_s$ DC1	(ksi)	8.37
$f_s$ DC2	(ksi)	0.80
$f_s$ DW	(ksi)	2.46
$f_s$ $1.3(L+I)$	(ksi)	21.58
$f_s$ (Service II)	(ksi)	33.21
$f_s$ (Total)(Strength I)	(ksi)	42.73
$V_r$	(k)	28.65

\* Compact, Braced Section.  
\*\* Non-Compact Section.

NOTES:

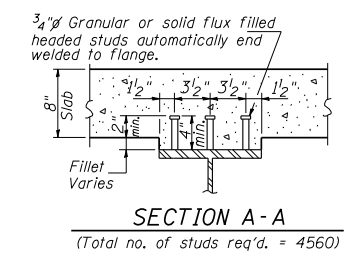
- $I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(3n), S_c(3n)$ : 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-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $DC1$ : Un-factored non-composite dead load (kips/ft.).
- $M_{DC1}$ : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$ : Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- $M_{DC2}$ : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- $DW$ : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- $M_{DW}$ : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $M_L \cdot Imp$ : Un-factored live load moment plus dynamic load allowance (Impact)(kip-ft.).
- $M_u$  (Strength I): Factored design moment (kip-ft.).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L \cdot Imp$
- $\phi M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 (Kip-ft.).
- $f_s$  (Service II): Sum of stresses as computed from the moments below (ksi).  
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_L \cdot Imp$
- $f_s$  (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L \cdot Imp$

TOP OF BEAM ELEVATIONS STR. NO. 100-0010

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
⊕ Brg. N. Abut.	409.706	409.933	410.129	410.252	410.187	410.091	409.985	409.878
⊕ Brg. S. Abut.	409.338	409.565	409.760	409.883	409.818	409.722	409.616	409.510

TOP OF BEAM ELEVATIONS STR. NO. 100-0011

Location	Beam 9	Beam 10	Beam 11	Beam 12	Beam 13	Beam 14	Beam 15	Beam 16
⊕ Brg. N. Abut.	410.121	410.361	410.601	410.830	411.029	411.039	410.977	410.884
⊕ Brg. S. Abut.	409.673	409.913	410.153	410.383	410.581	410.592	410.529	410.436



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	64

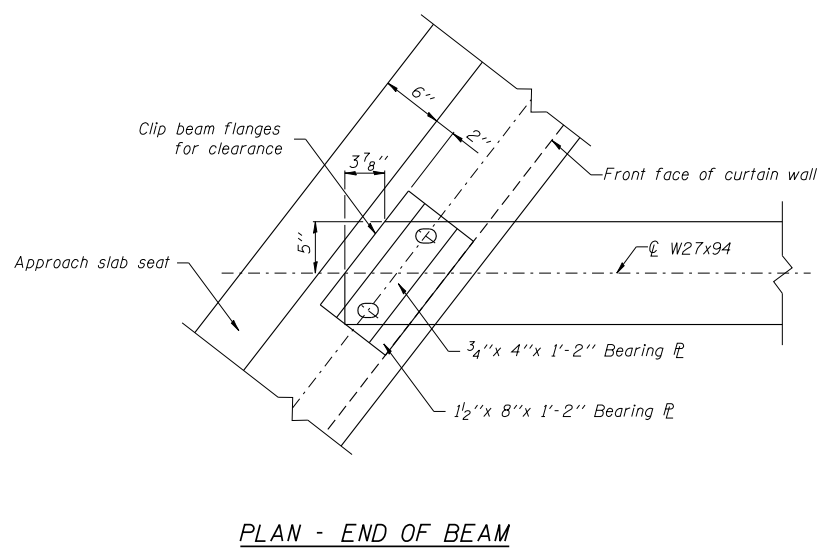
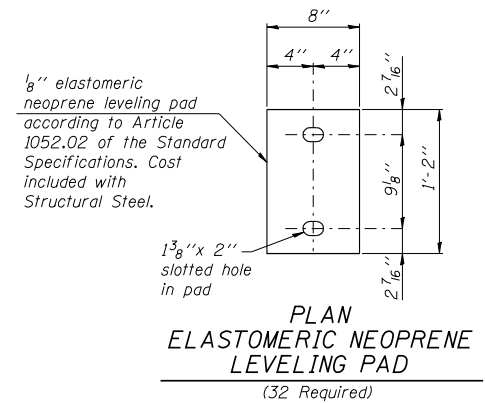
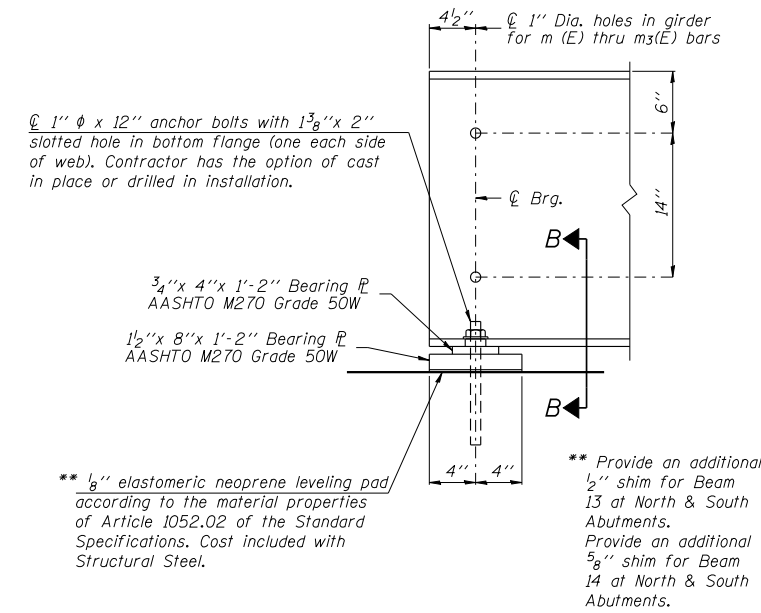
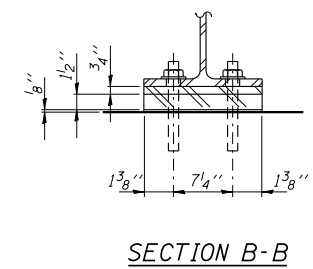
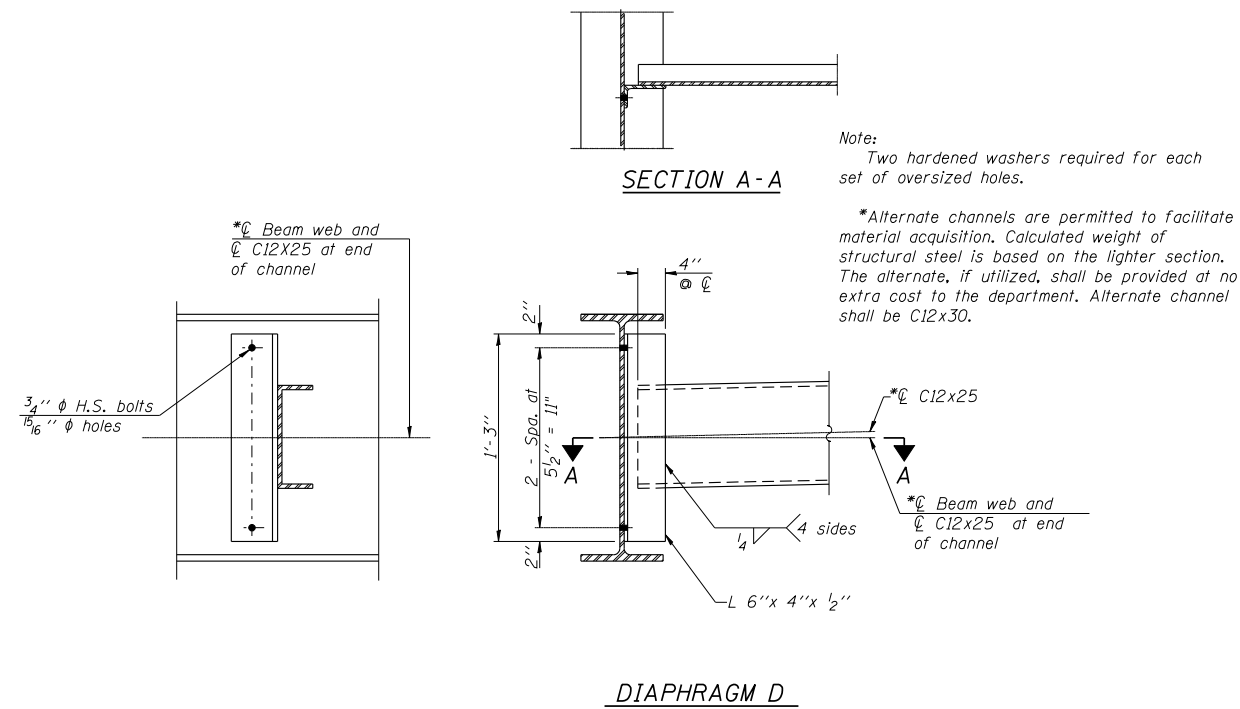
NOTES:

- All steel for flanges, webs, diaphragms, connection plates, and bearings shall be AASHTO M270 Grade 50W.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

FRAMING PLAN & DETAILS  
F.A.I. RTE. 57 OVER  
LAKE CREEK BRANCH  
STATION 228+25.00  
STRUCTURE NO. 100-0010 (N.B.)  
STRUCTURE NO. 100-0011 (S.B.)

<p>CRAWFORD MURPHY &amp; TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL</p> <p>DESIGNED BY: KEH CHECKED BY: WLB</p>	<p>SHEET NO. 18</p> <p>29 SHEETS</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		I-57	(X1-4-1) BR -1	WILLIAMSON	202	101
CONTRACT NO. 78334						
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT						

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



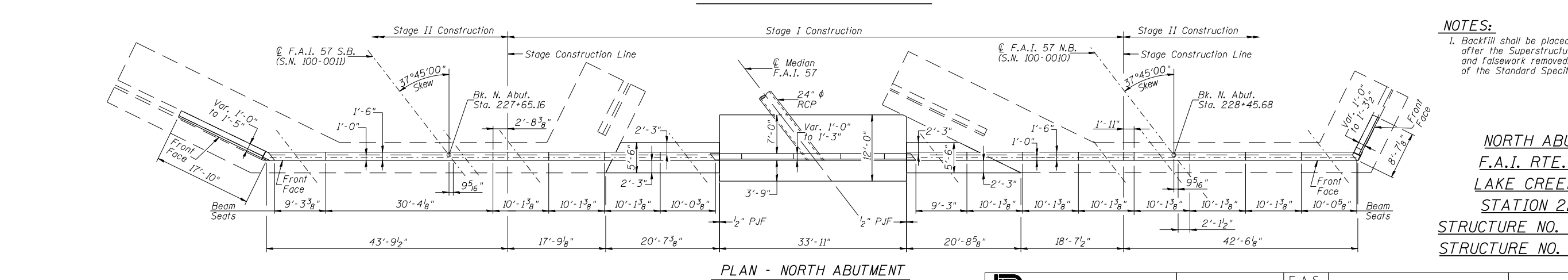
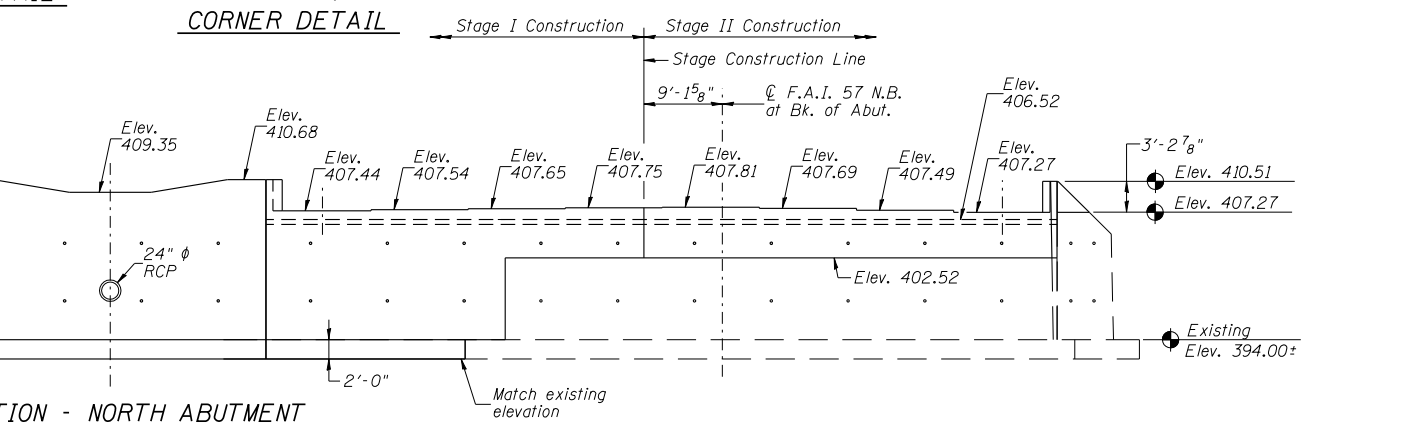
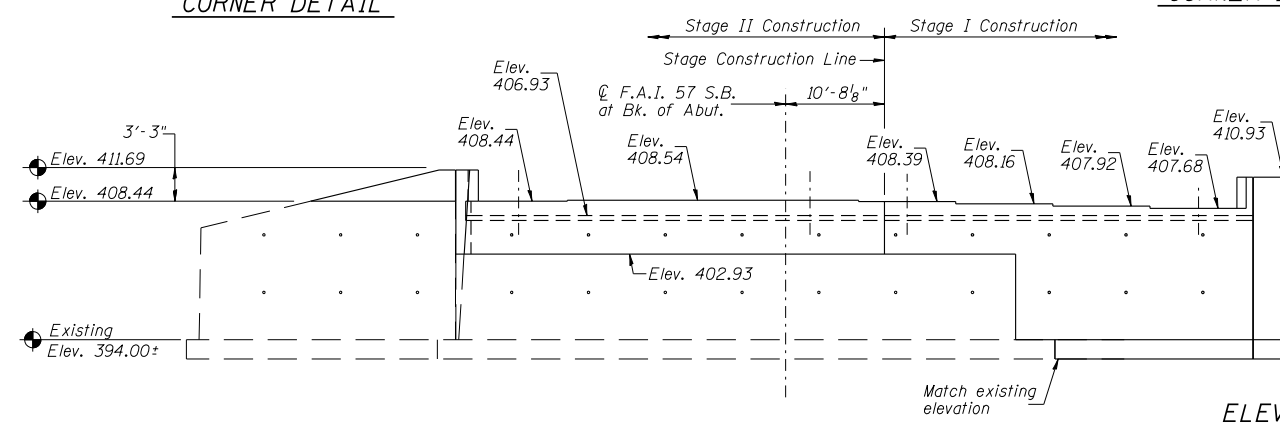
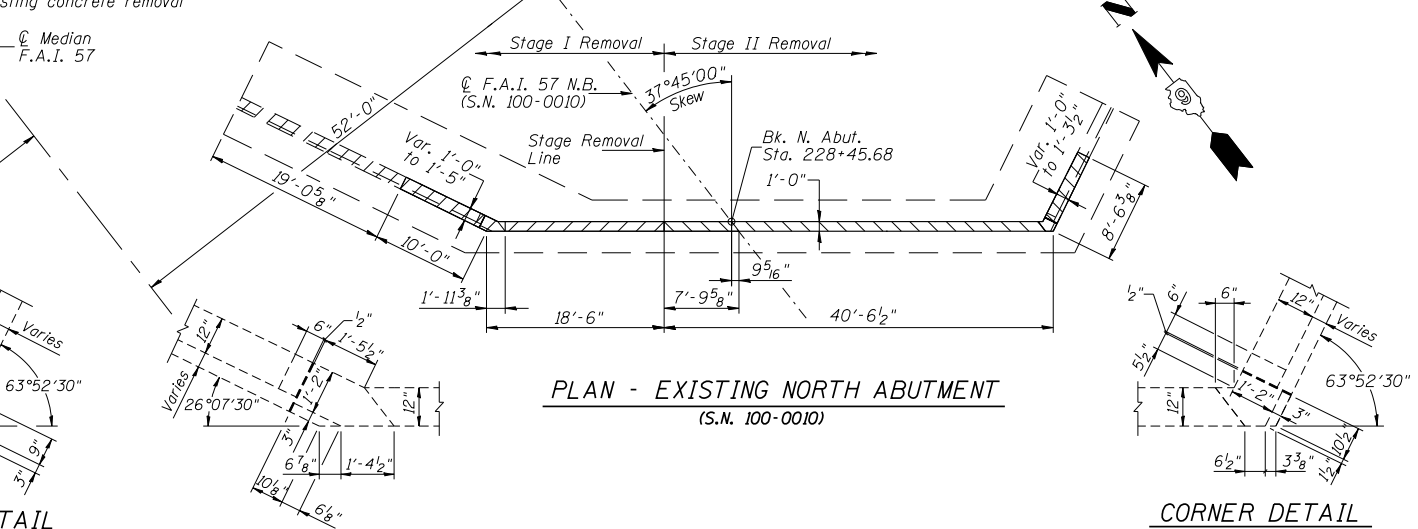
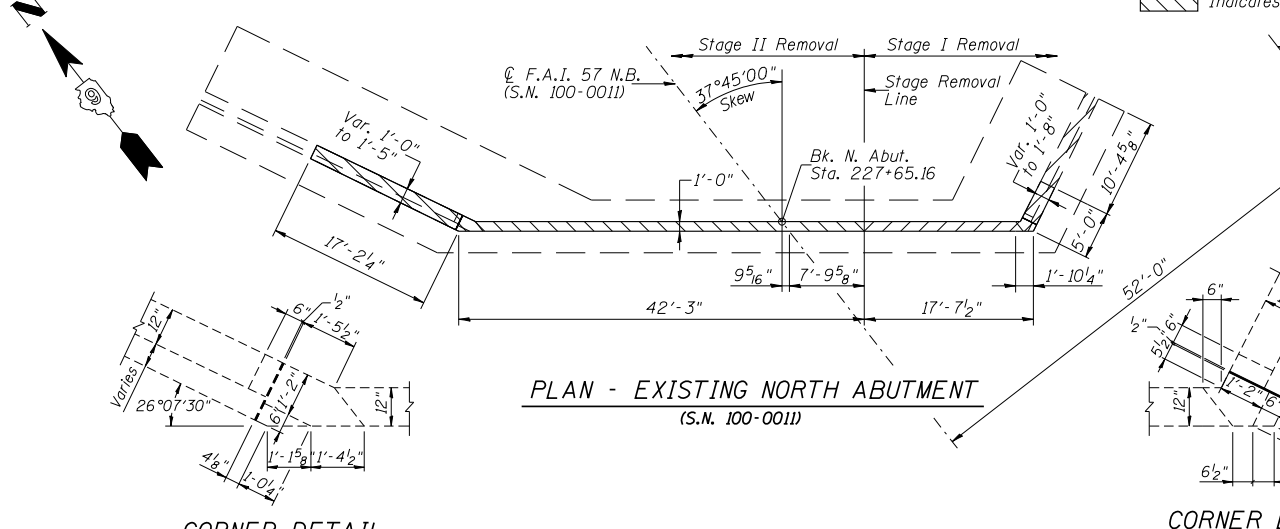
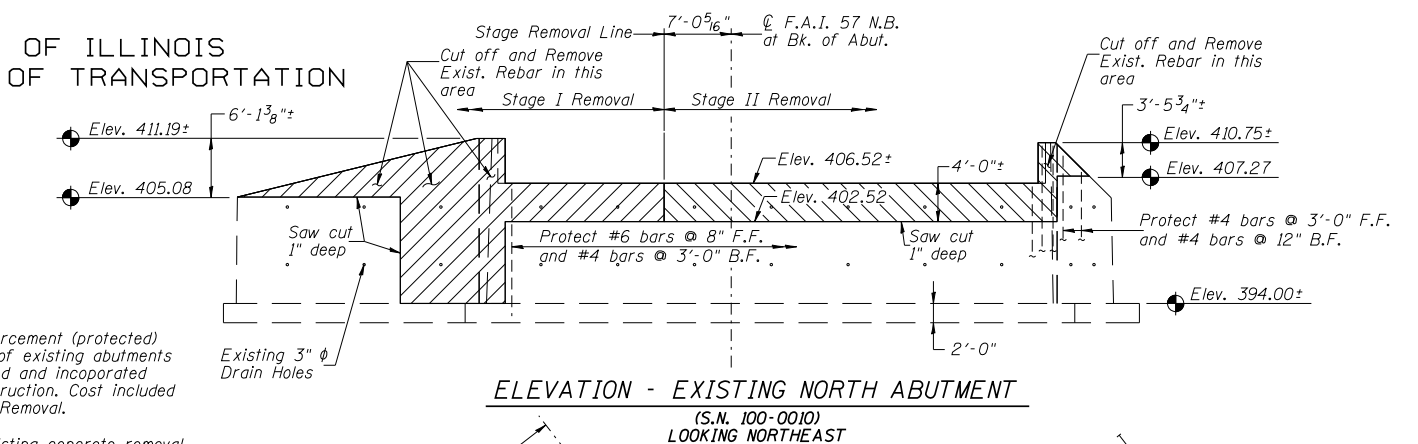
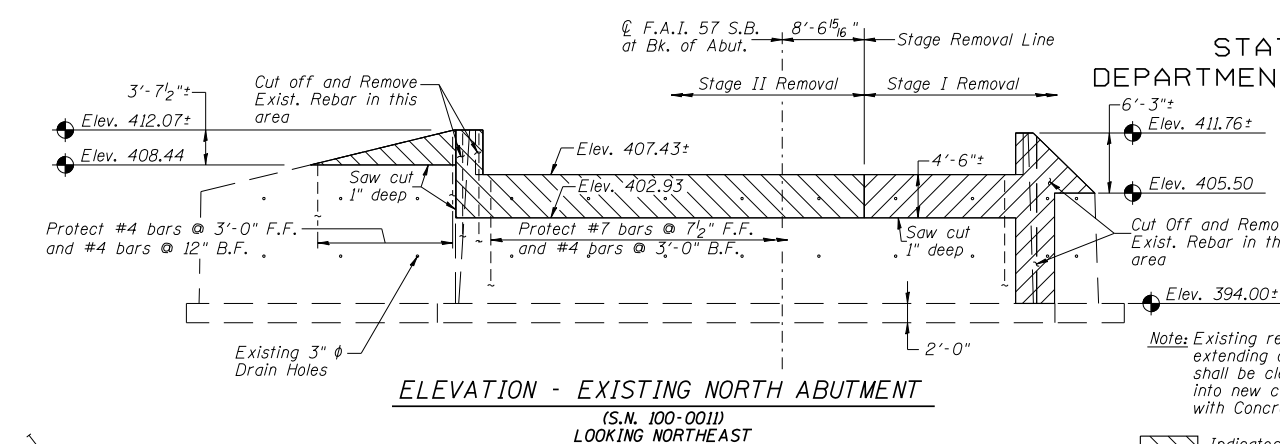
**NOTES:**  
1. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.

FRAMING DETAILS  
F.A.I. RTE. 57 OVER  
LAKE CREEK BRANCH  
STATION 228+25.00  
STRUCTURE NO. 100-0010 (N.B.)  
STRUCTURE NO. 100-0011 (S.B.)

 CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL	SHEET NO. 19	F.A.S. RTE. I-57	SECTION (X1-4-1) BR -1	COUNTY WILLIAMSON	TOTAL SHEETS 202	SHEET NO. 102
	29 SHEETS	CONTRACT NO. 78334			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT	
DESIGNED BY: KEH CHECKED BY: WLB	DRAWN BY: GLD DATE: 4/12/10					



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Note: Existing reinforcement (protected) extending out of existing abutments shall be cleaned and incorporated into new construction. Cost included with Concrete Removal.

Indicates existing concrete removal

**NOTES:**  
1. Backfill shall be placed behind the abutment after the Superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.

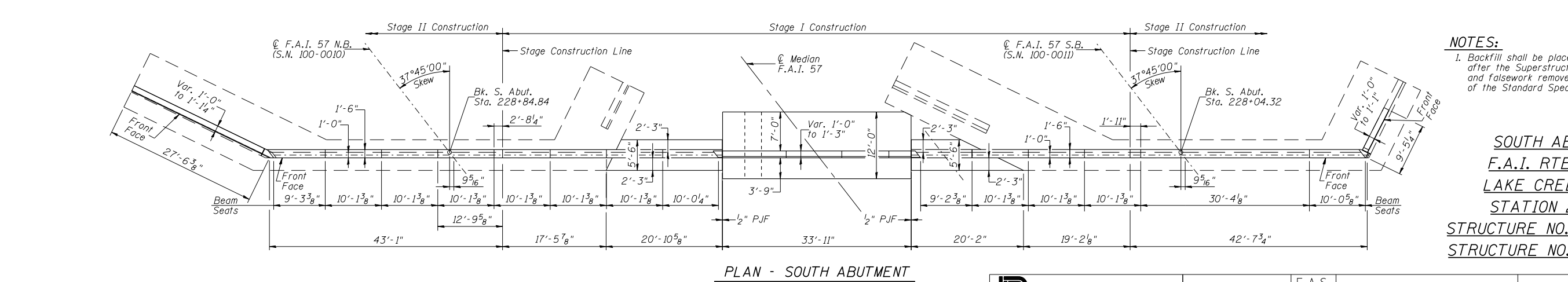
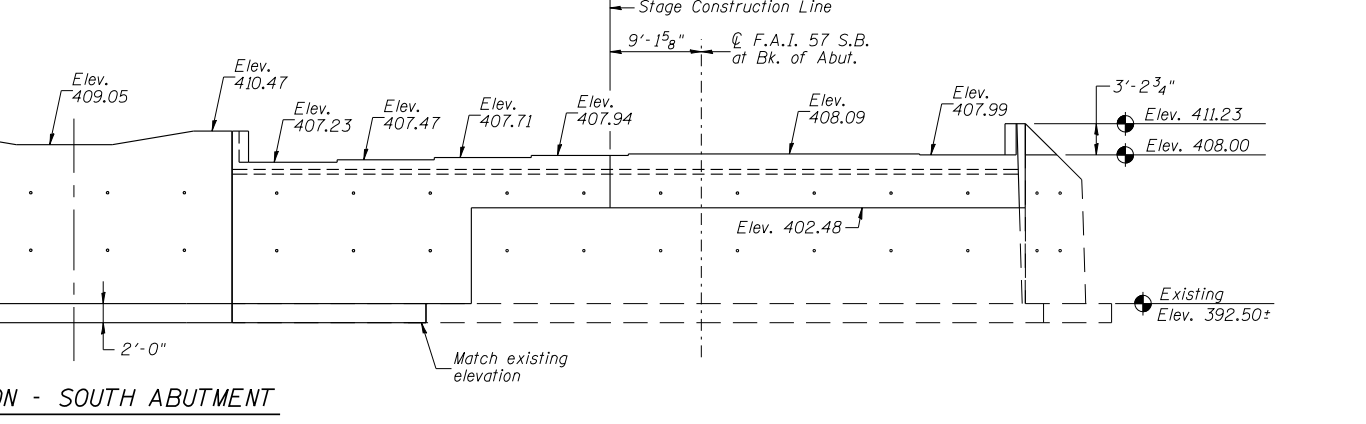
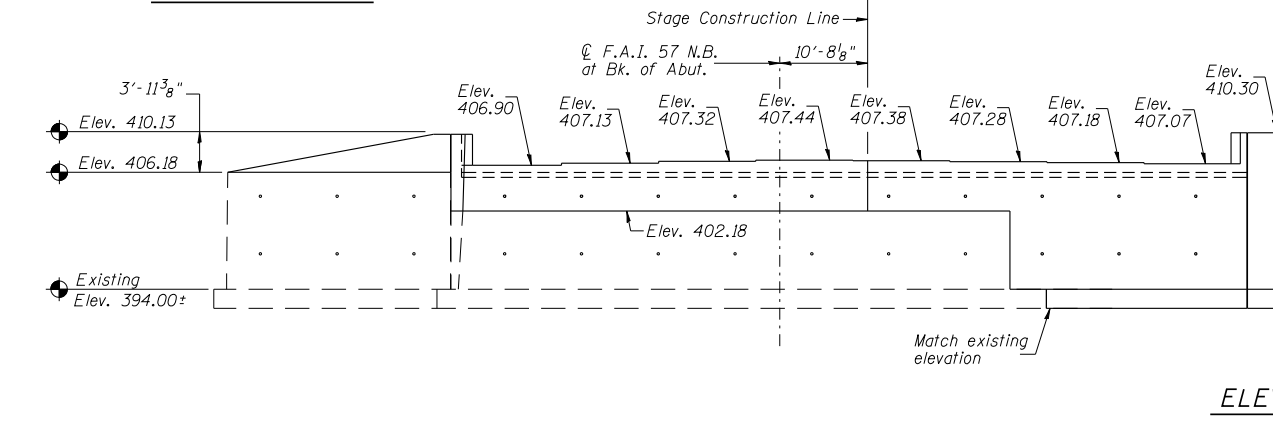
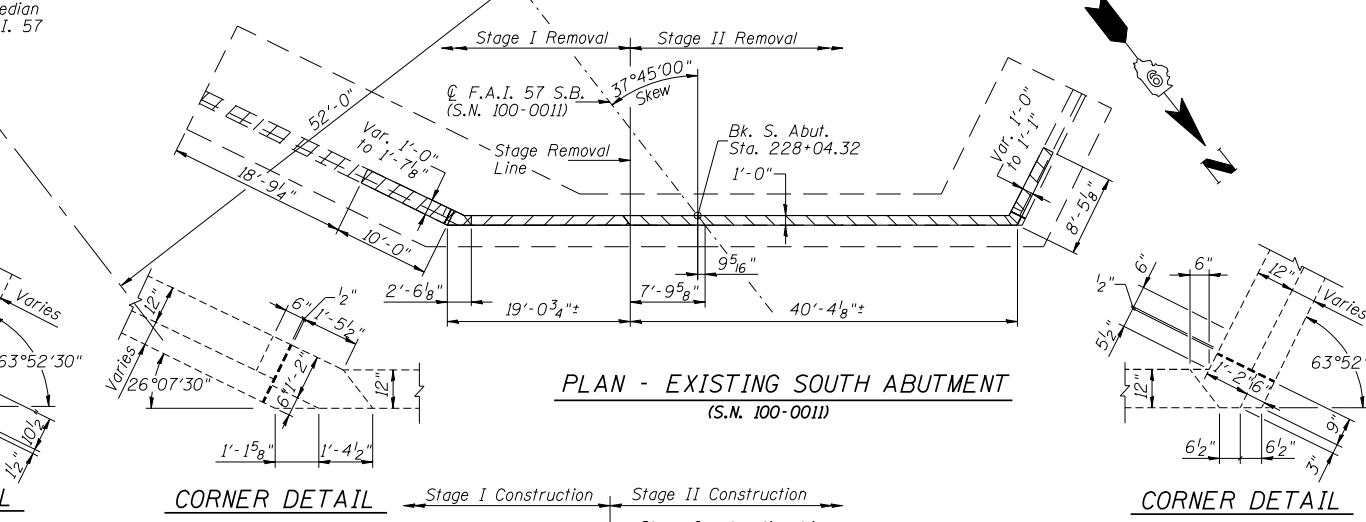
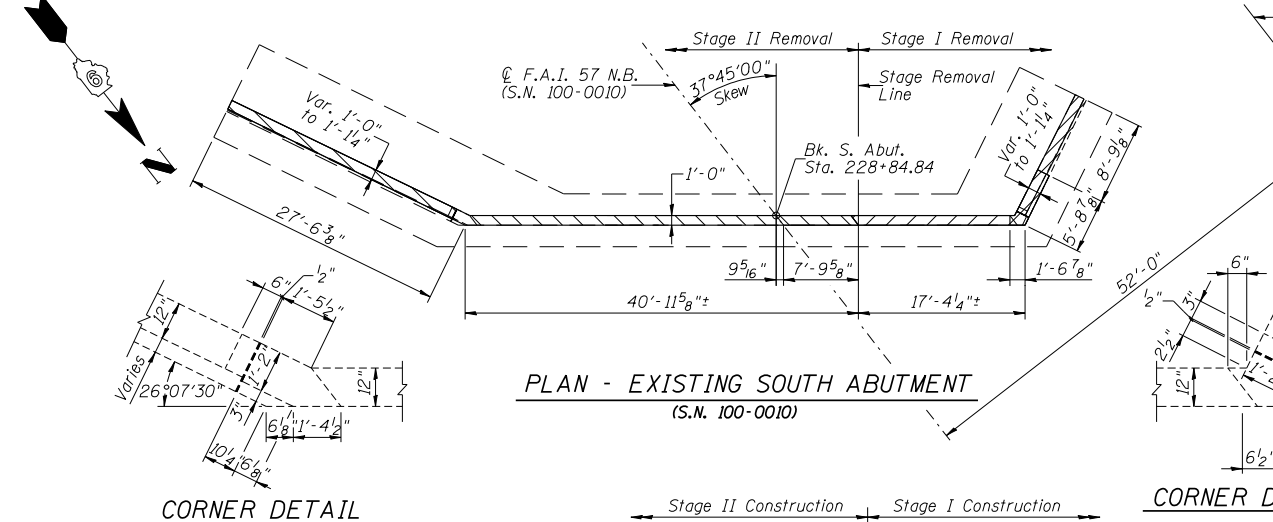
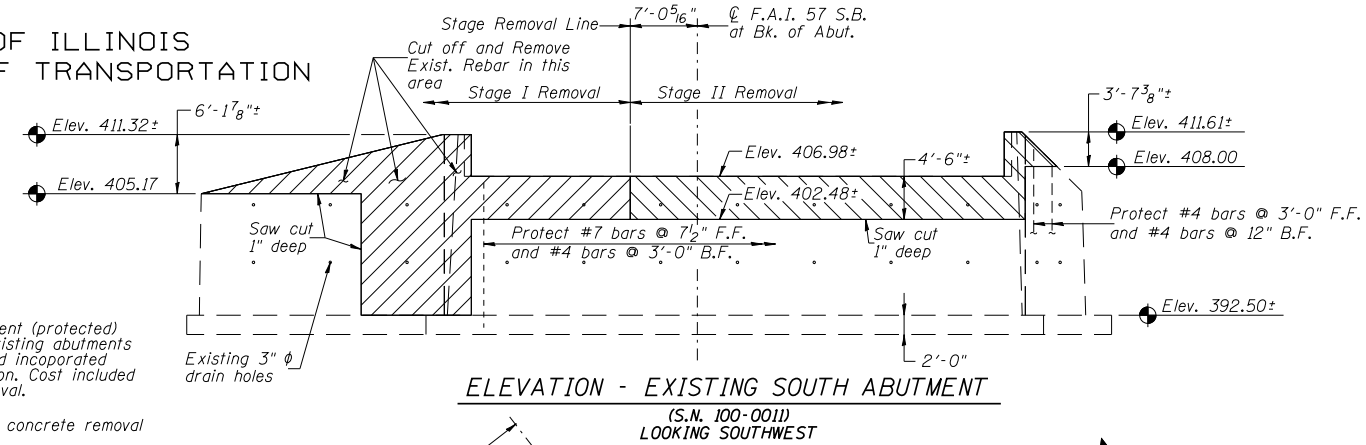
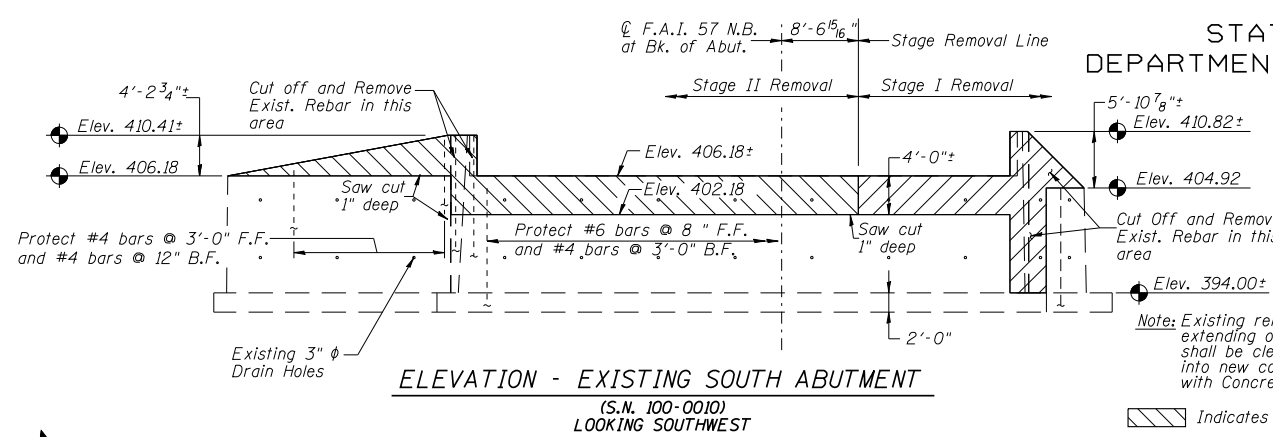
**NORTH ABUTMENT 1**  
F.A.I. RTE. 57 OVER  
LAKE CREEK BRANCH  
STATION 228+25.00  
STRUCTURE NO. 100-0010 (N.B.)  
STRUCTURE NO. 100-0011 (S.B.)

 CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL DESIGNED BY: DRAWN BY: GLD CHECKED BY: WLB DATE: 4/12/10	SHEET NO. 20	F.A.S. RTE. I-57	SECTION (X1-4-1) BR -1	COUNTY WILLIAMSON	TOTAL SHEETS 202	SHEET NO. 103
	29 SHEETS	CONTRACT NO. 78334			FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT	





STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



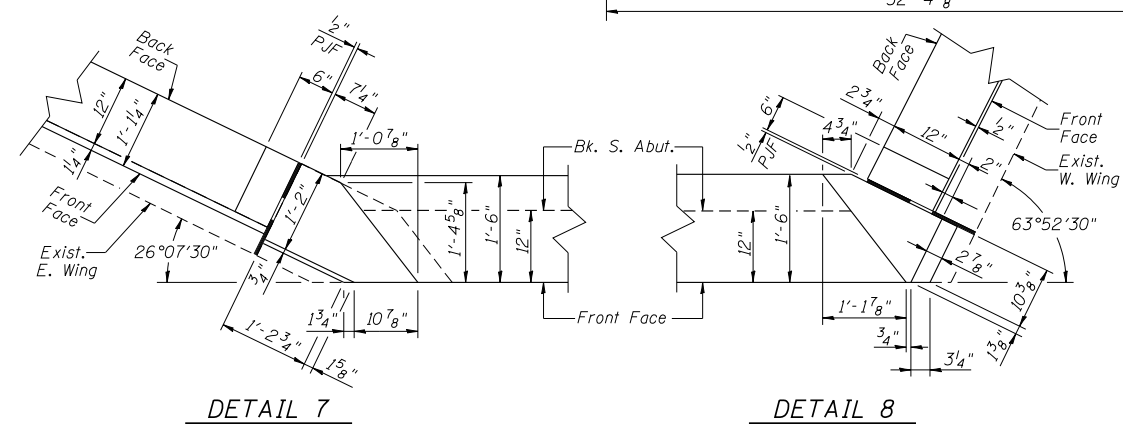
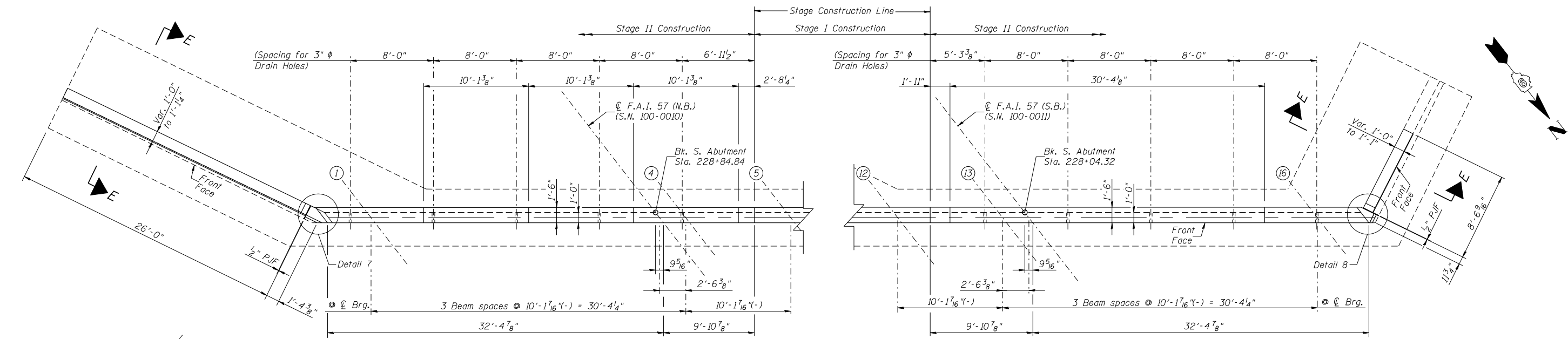
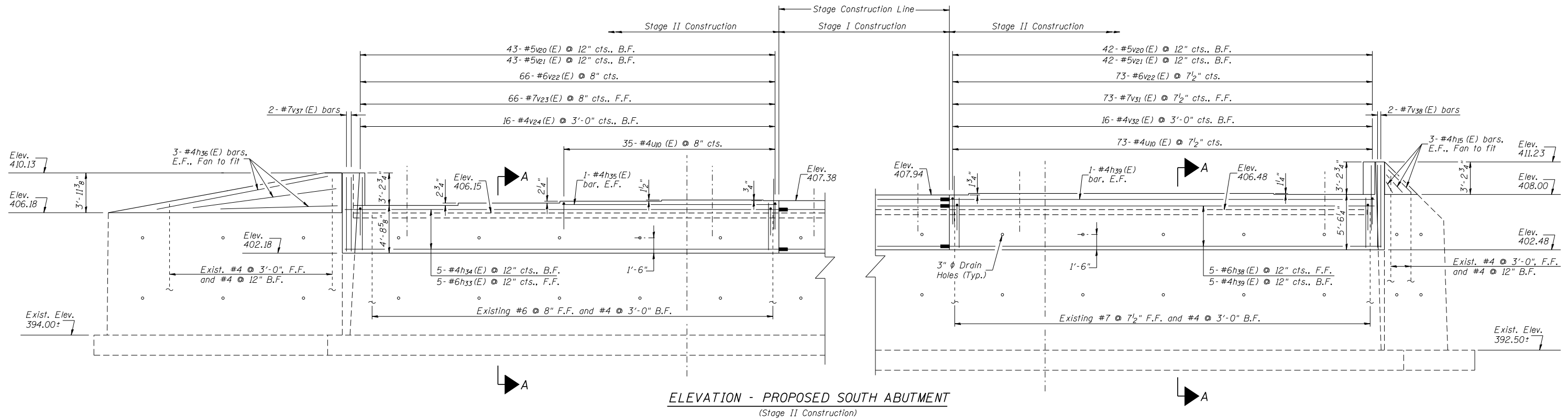
**NOTES:**  
1. Backfill shall be placed behind the abutment after the Superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.

**SOUTH ABUTMENT 1**  
**F.A.I. RTE. 57 OVER**  
**LAKE CREEK BRANCH**  
**STATION 228+25.00**  
**STRUCTURE NO. 100-0010 (N.B.)**  
**STRUCTURE NO. 100-0011 (S.B.)**

<b>CMT</b> CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL DESIGNED BY: _____ DRAWN BY: GLD CHECKED BY: WLB DATE: 4/12/10	SHEET NO. 23	F.A.S. RTE. I-57	SECTION (X1-4-1) BR -1	COUNTY WILLIAMSON	TOTAL SHEETS 202	SHEET NO. 106
	29 SHEETS	CONTRACT NO. 78334		FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**NOTES:**

- For Sections A-A, E-E, and Bill of Material See Sheet 26 of 29.
- See Sheet 23 of 29 for seat elevations.

**SOUTH ABUTMENT 3**  
**F.A.I. RTE. 57 OVER**  
**LAKE CREEK BRANCH**  
**STATION 228+25.00**  
**STRUCTURE NO. 100-0010 (N.B.)**  
**STRUCTURE NO. 100-0011 (S.B.)**

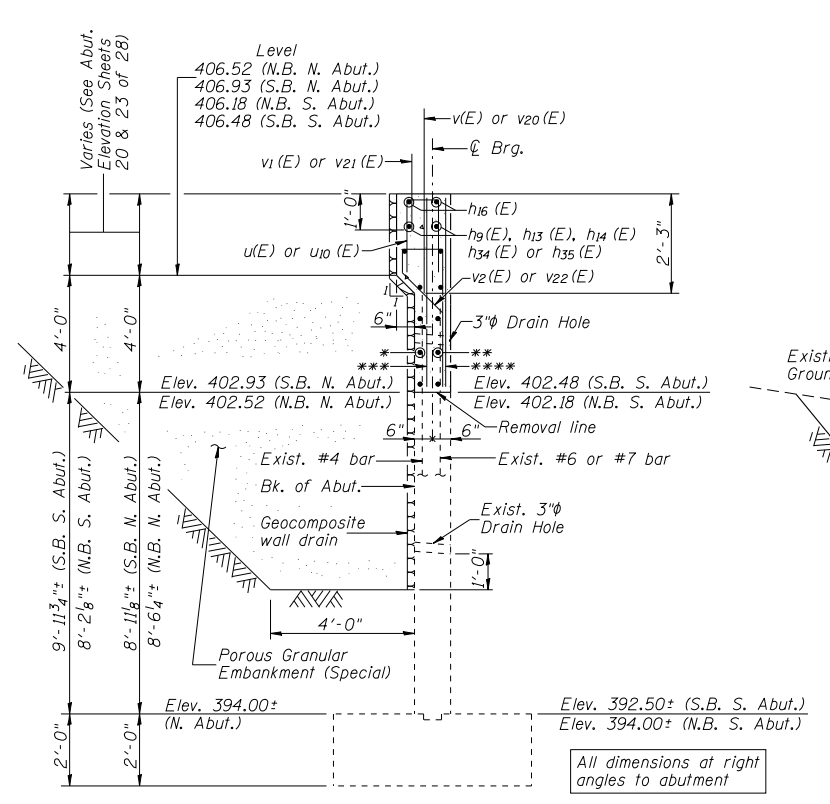
<b>CMT</b> CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS SPRINGFIELD, IL    AURORA, IL    ST. LOUIS, MO ROCKFORD, IL    PEORIA, IL    CHICAGO, IL DESIGNED BY:    DRAWN BY: GLD CHECKED BY: WLB    DATE: 4/12/10	SHEET NO. 25	F.A.S. RTE. I-57	SECTION (X1-4-1) BR -1	COUNTY WILLIAMSON	TOTAL SHEETS 202	SHEET NO. 108
	29 SHEETS	CONTRACT NO. 78334				
FED. ROAD DIST. NO. 9    ILLINOIS    FED. AID PROJECT						

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT  
BILL OF MATERIAL

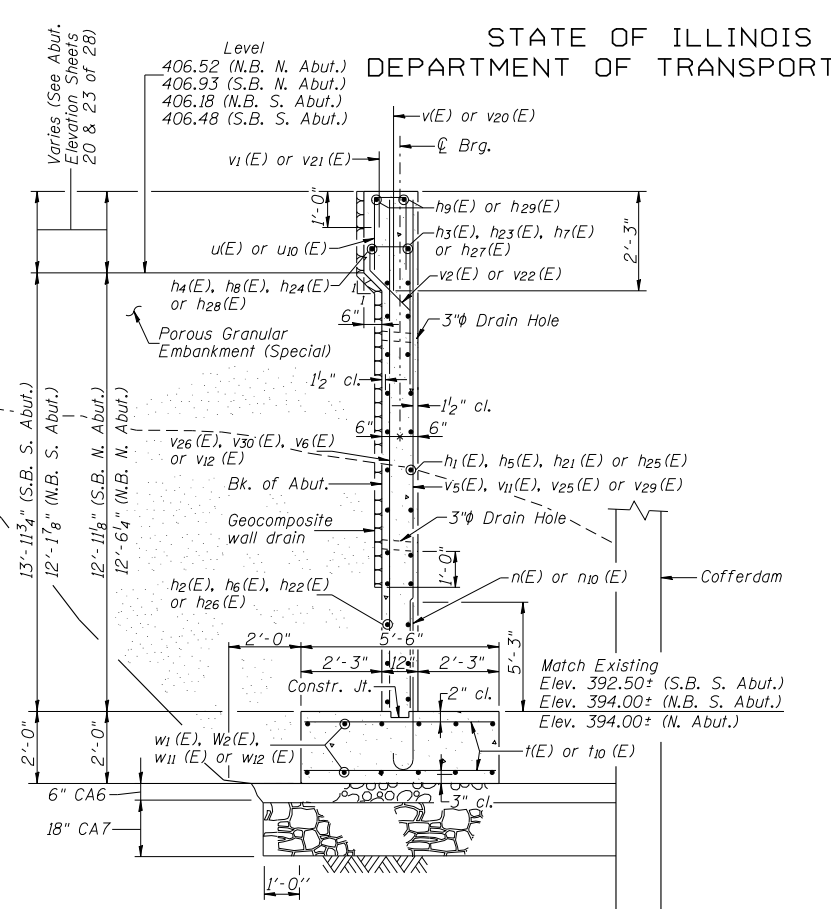
Bar	No.	Size	Length	Shape
h (E)	18	6	4'-0"	—
h1 (E)	9	6	24'-7"	—
h2 (E)	9	4	24'-7"	—
h3 (E)	5	6	39'-1"	—
h4 (E)	5	4	39'-1"	—
h5 (E)	9	6	24'-5"	—
h6 (E)	9	4	24'-5"	—
h7 (E)	5	6	38'-1"	—
h8 (E)	5	4	38'-1"	—
h9 (E)	2	4	17'-3"	—
h10 (E)	4	4	15'-0"	—
h11 (E)	25	4	33'-8"	—
h12 (E)	10	6	42'-1"	—
h13 (E)	10	4	42'-1"	—
h14 (E)	2	4	21'-10"	—
h15 (E)	6	4	7'-9"	—
h16 (E)	2	4	30'-1"	—
h17 (E)	4	16'-8"	—	—
h18 (E)	16	5	6'-0"	—
h19 (E)	7	4	42'-5"	—
n (E)	95	7	7'-6"	C
n1 (E)	40	6	4'-1"	C
s (E)	8	3	4'-1"	D
t (E)	84	5	5'-2"	—
t1 (E)	41	8	11'-8"	—
t2 (E)	41	6	11'-8"	—
t3 (E)	2	5	11'-8"	—
u (E)	128	4	4'-9"	—
v (E)	161	5	4'-6"	—
v1 (E)	161	5	2'-0"	—
v2 (E)	255	6	7'-2"	—
v3 (E)	86	7	4'-6"	—
v4 (E)	22	4	4'-6"	—
v5 (E)	36	7	13'-2"	—
v6 (E)	13	4	13'-2"	—
v7 (E)	3	7	16'-5"	—
v8 (E)	23	7	6'-1"	—
v9 (E)	91	7	5'-1"	—
v10 (E)	21	4	5'-1"	—
v11 (E)	37	7	13'-5"	—
v12 (E)	13	4	13'-5"	—
v13 (E)	3	7	16'-8"	—
v14 (E)	10	4	16'-8"	—
v15 (E)	41	4	11'-6"	—
v16 (E)	41	6	9'-0"	—
v17 (E)	2	7	7'-8"	—
v18 (E)	2	7	8'-6"	—
w (E)	12	8	5'-0"	—
w1 (E)	12	5	19'-11"	—
w2 (E)	12	5	20'-4"	—
w3 (E)	26	5	33'-7"	—
Porous Granular Embankment (Special)	Cu. Yd.	2544		
Concrete Removal	Cu. Yd.	43.2		
Structure Excavation	Cu. Yd.	1380		
Cofferdam Excavation	Cu. Yd.	1195		
Cofferdam (Ty. 2)	Each	1		
Concrete Structures	Cu. Yd.	122.2		
Reinforcement Bars Epoxy Coated	Pound	19,340		
Bar Splicers	Each	22		
Geocomposite Wall Drain Epoxy Coated	Sq. Yd.	282		
w10 (E)	12	8	5'-0"	—
w11 (E)	12	5	20'-6"	—
w12 (E)	12	5	19'-1"	—
w13 (E)	26	5	10'-7"	—
w14 (E)	26	5	26'-7"	—
Porous Granular Embankment (Special)	Cu. Yd.	2808		
Concrete Removal	Cu. Yd.	43.8		
Structure Excavation	Cu. Yd.	1380		
Cofferdam Excavation	Cu. Yd.	1255		
Cofferdam (Ty. 2)	Each	1		
Concrete Structures	Cu. Yd.	124.4		
Reinforcement Bars Epoxy Coated	Pound	19,880		
Bar Splicers	Each	22		
Geocomposite Wall Drain Epoxy Coated	Sq. Yd.	284		

SOUTH ABUTMENT  
BILL OF MATERIAL



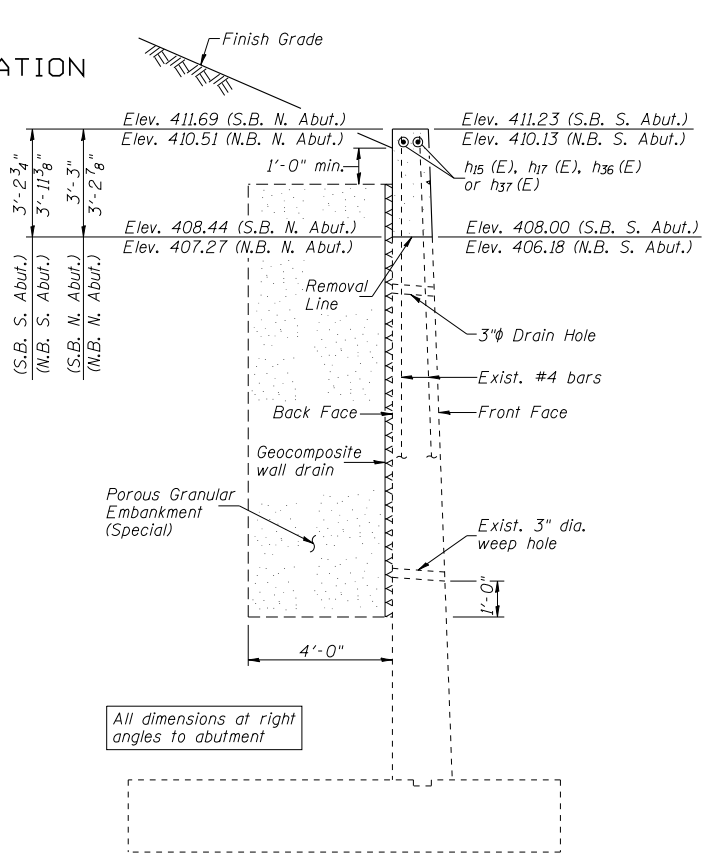
SECTION A-A

\* h24 (E), h28 (E), h34 (E), h4 (E), h8 (E) or h13 (E)  
 \*\* h3 (E), h12 (E), h7 (E), h23 (E), h27 (E) or h33 (E)  
 \*\*\* v4 (E), v10 (E), v24 (E) or v32 (E)  
 \*\*\*\* v3 (E), v9 (E), v23 (E) or v31 (E)



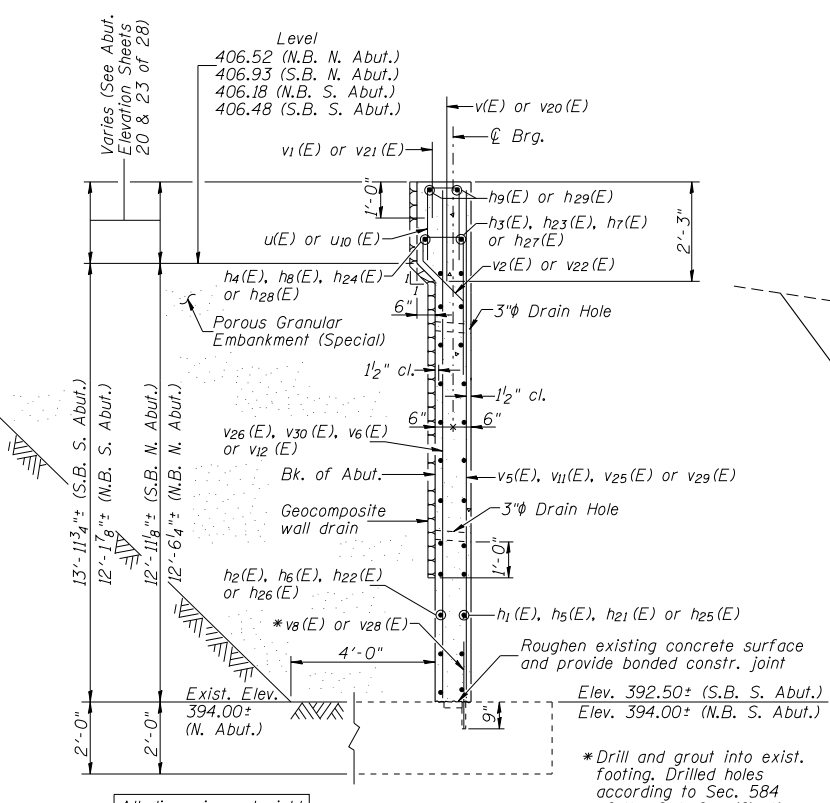
SECTION C-C

All dimensions at right angles to abutment



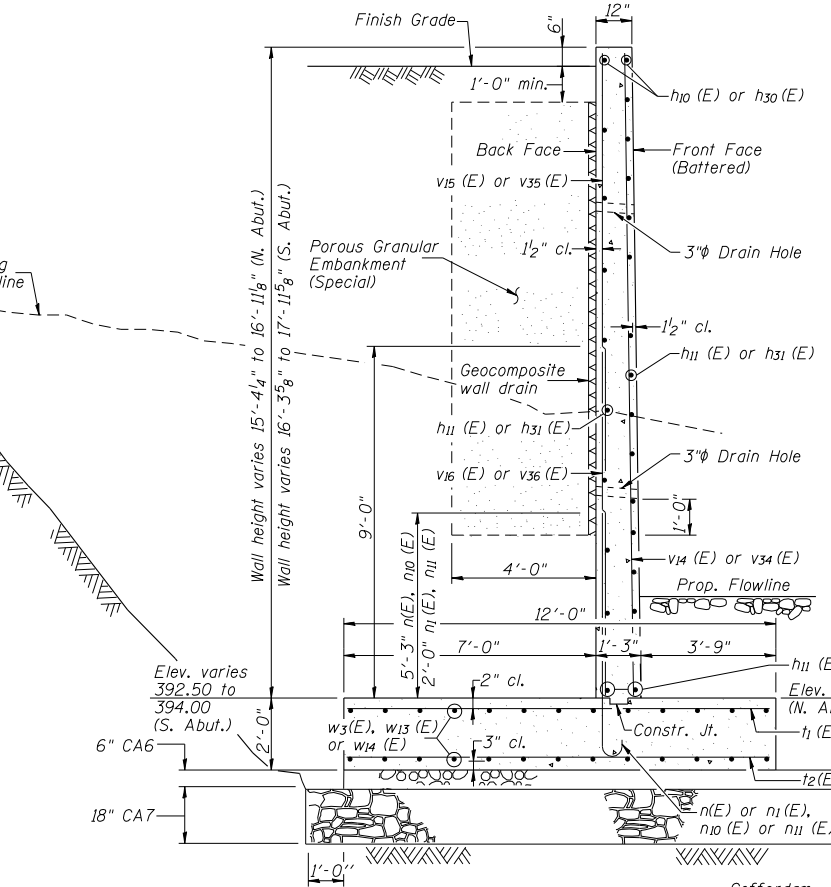
SECTION E-E

All dimensions at right angles to abutment



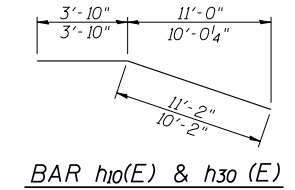
SECTION B-B

All dimensions at right angles to abutment

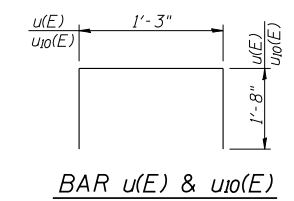


SECTION D-D

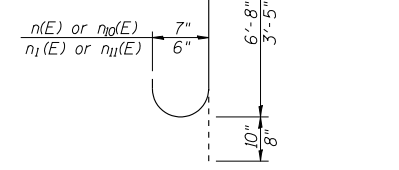
All dimensions at right angles to abutment



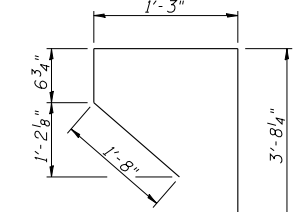
BAR h10(E) & h30(E)



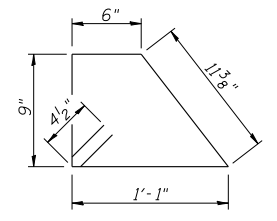
BAR u(E) & u10(E)



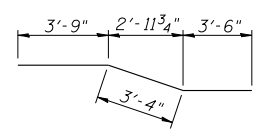
BAR n(E), n1(E), n10(E) & n11(E)



BAR v2(E) & v22(E)



BAR s(E) & s10(E)



BAR w13(E)

NOTES:

1. Work this sheet with sheets 21, 22, 24 and 25 of 29.

ABUTMENT DETAILS  
F.A.I. RTE. 57 OVER  
LAKE CREEK BRANCH  
STATION 228+25.00  
STRUCTURE NO. 100-0010 (N.B.)  
STRUCTURE NO. 100-0011 (S.B.)

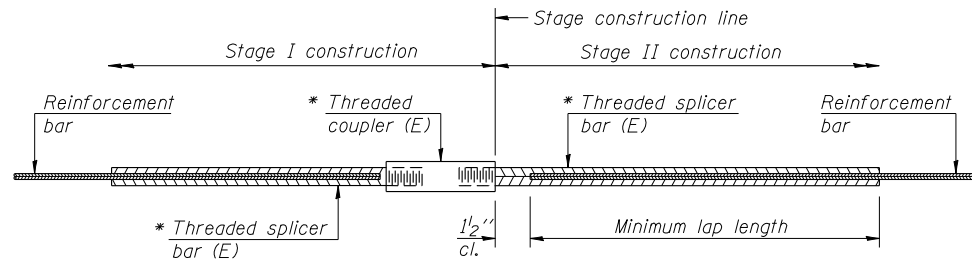
**CMT**  
CRAWFORD MURPHY & TILLY, INC.  
CONSULTING ENGINEERS  
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO  
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

SHEET NO. 26  
29 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-57	(X1-4-1) BR -1	WILLIAMSON	202	109
CONTRACT NO. 78334				
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT				

DESIGNED BY: C.WJ  
CHECKED BY: WLB  
DRAWN BY: GLD  
DATE: 4/12/10

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

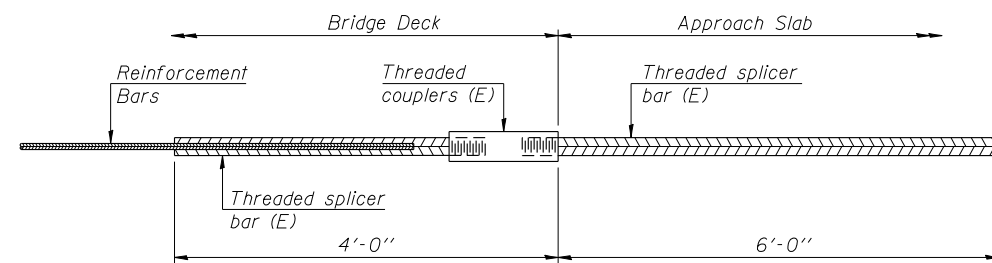
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

Table 1: Black bar, 0.8 Class C  
Table 2: Black bar, Top bar lap, 0.8 Class C  
Table 3: Epoxy bar, 0.8 Class C  
Table 4: Epoxy bar, Top bar lap, 0.8 Class C  
Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

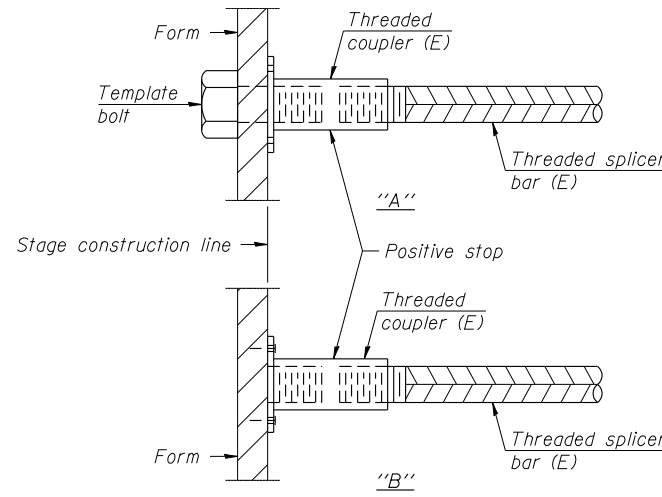
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top of Deck	#5	168	Table 3
Bottom of Deck	#5	104	Table 3
End of Deck	#5	8	Table 3
Curtain Walls	#6	16	Table 3
N. Abut.	#4	12	Table 3
N. Abut.	#6	10	Table 3
S. Abut.	#4	12	Table 3
S. Abut.	#6	10	Table 3



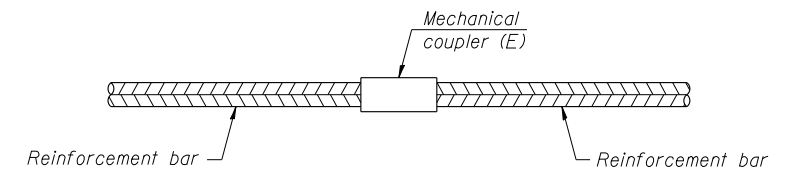
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 240



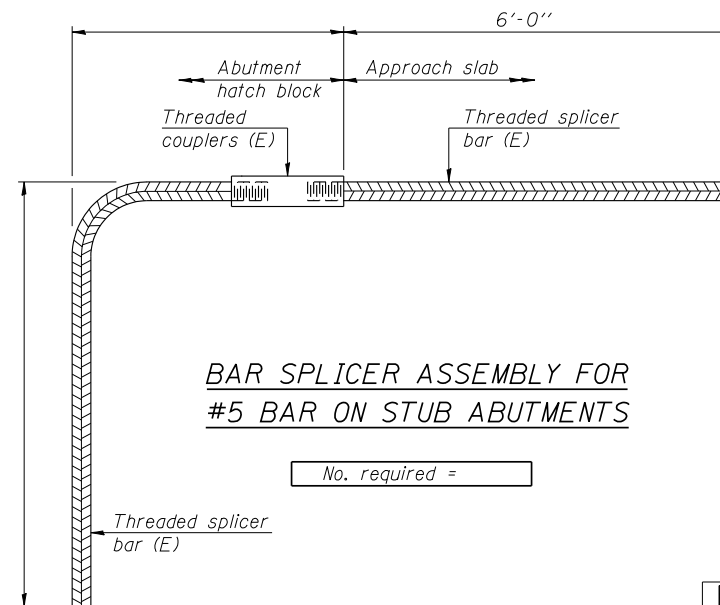
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

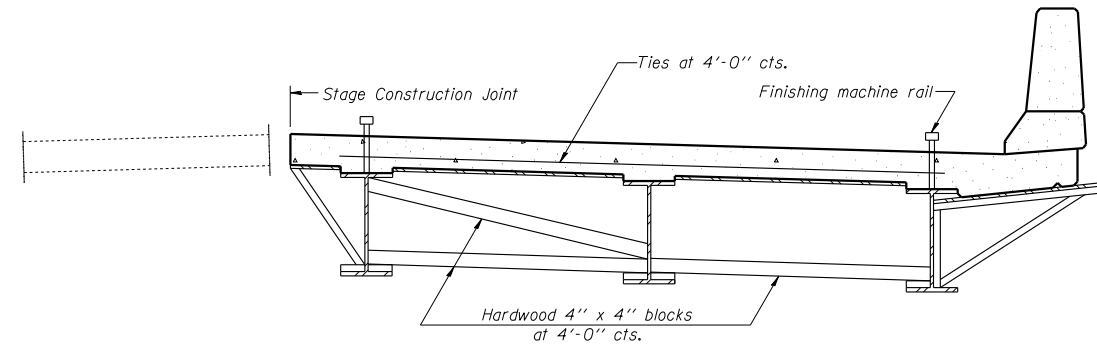
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
All reinforcement shall be lapped and tied to the splicer bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
See special provision for Mechanical Splicers.  
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER DETAILS  
F.A.I. RTE. 57 OVER  
LAKE CREEK BRANCH  
STATION 228+25.00  
STRUCTURE NO. 100-0010 (N.B.)  
STRUCTURE NO. 100-0011 (S.B.)

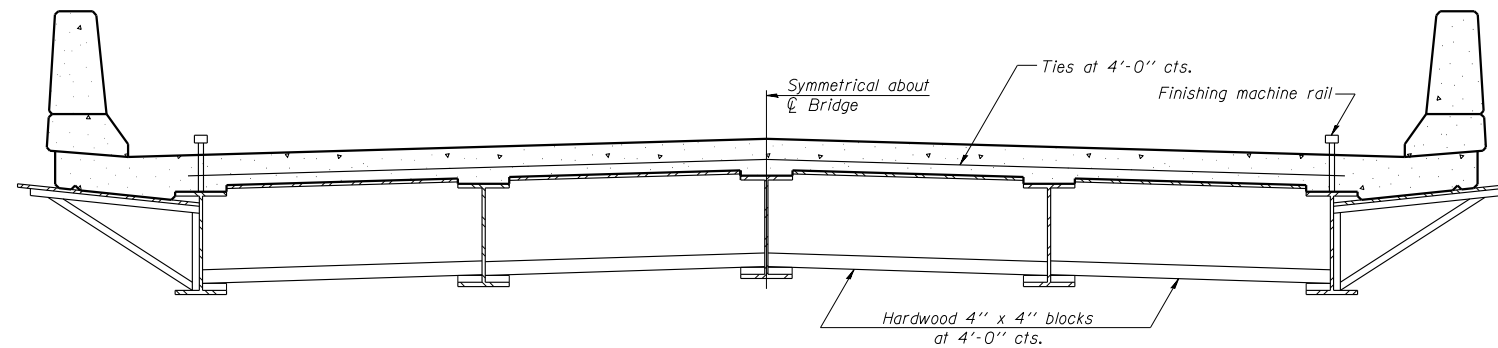


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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



FORM BRACES FOR  
STAGE CONSTRUCTION



FORM BRACES FOR  
STANDARD CONSTRUCTION

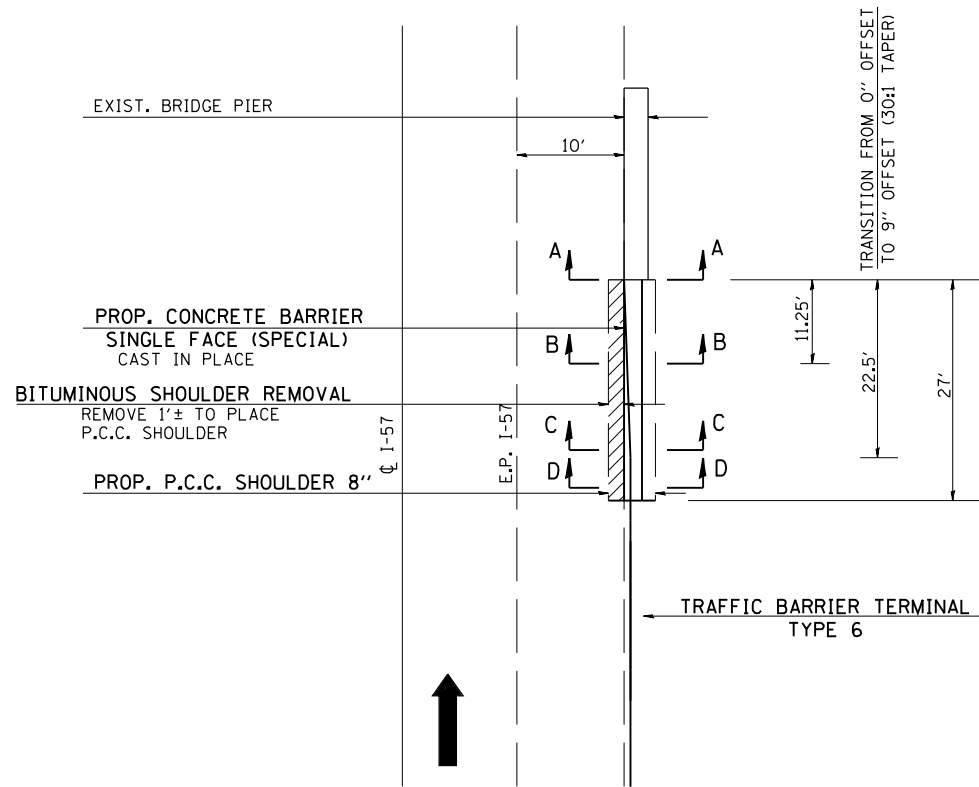
CANTILEVER FORMING BRACKETS  
F.A.I. RTE. 57 OVER  
LAKE CREEK BRANCH  
STATION 228+25.00  
STRUCTURE NO. 100-0010 (N.B.)  
STRUCTURE NO. 100-0011 (S.B.)

**CMT**  
CRAWFORD MURPHY & TILLY, INC.  
CONSULTING ENGINEERS  
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO  
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL  
DESIGNED BY: KEH DRAWN BY: GLD  
CHECKED BY: WLB DATE: 4/12/10

SHEET NO. 28  29 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	I-57	(X1-4-1) BR -1	WILLIAMSON	202	111
			CONTRACT NO. 78334		
FED. ROAD DIST. NO. 9 ILLINOIS FED. AID PROJECT					



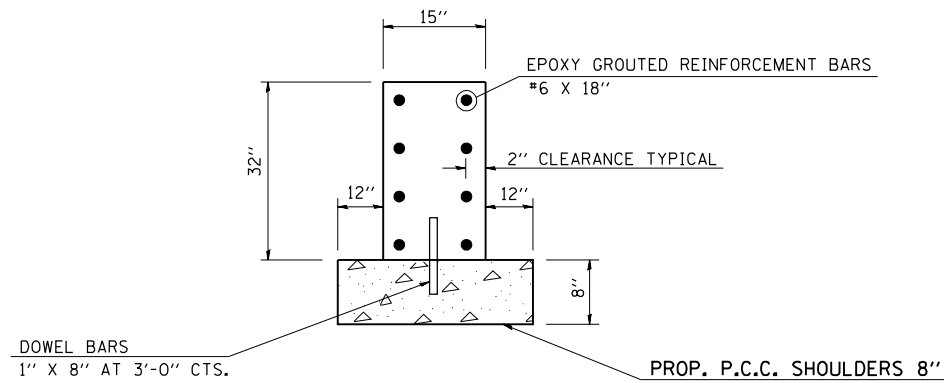
# DETAIL: CONCRETE BARRIER SINGLE FACE, (SPECIAL)



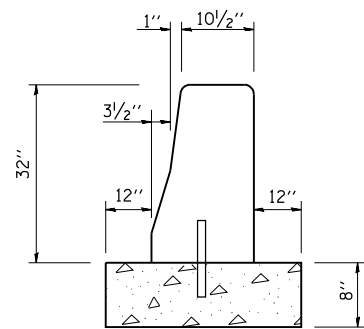
NOTE: FULL DEPTH SAW JOINT SHALL BE INCLUDED IN THE COST OF BITUMINOUS SHOULDER REMOVAL.

**TO BE USED:**

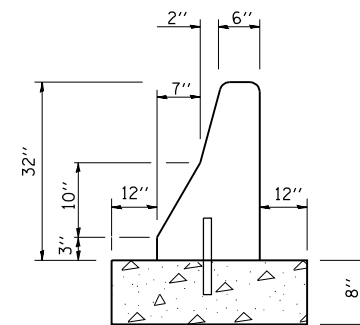
NB AND SB LANES S.N. 100-0044



SECTION A-A

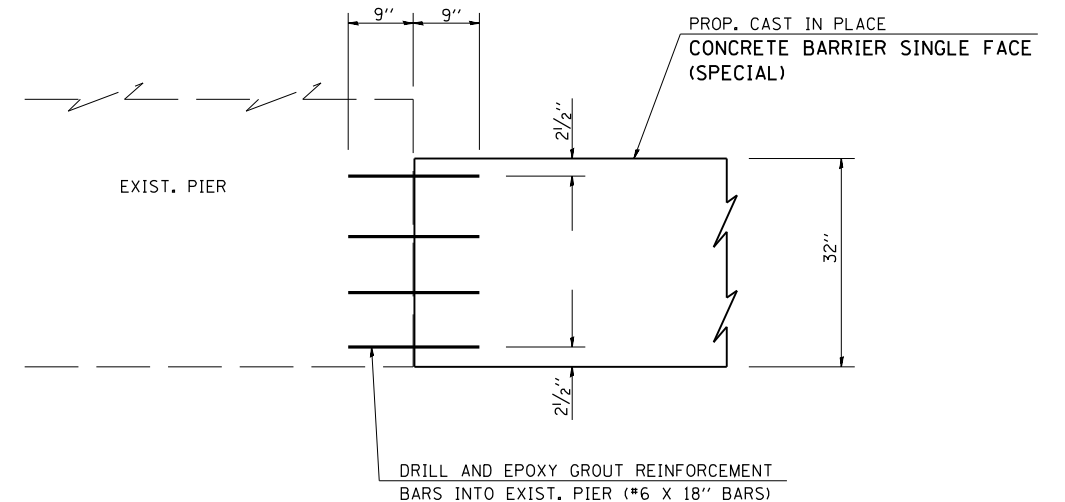


SECTION B-B



SECTION C-C  
SECTION D-D

MATCH BARRIER SHAPE AND REINFORCEMENT AS SHOWN ON STANDARD 637001



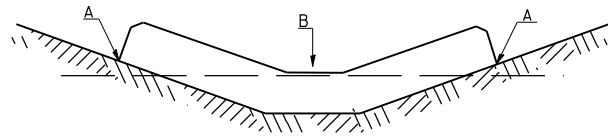
CONCRETE BARRIER ATTACHMENT DETAIL

NOTE:  
NO ABOVE GRADE PORTION OF THE APPROACH END OF THE CONCRETE BARRIER OR ATTACHED GUARDRAIL SHALL BE WITHIN 10' OF THE EDGE OF PAVEMENT.  
EPOXY GROUTED REINFORCEMENT BARS AND DOWEL BARS TO BE INCLUDED IN THE COST PER FOOT OF CONCRETE BARRIER SINGLE FACE, (SPECIAL)

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT DETAILS</b>	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - MSK	REVISED -			57	(X1-6-2,X1-5,(X1-4-1BR-1)R-1	WILLIAMSON	202	113	
		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE: N. T. S. SHEET NO. 1 OF 7 SHEETS STA. TO STA.					

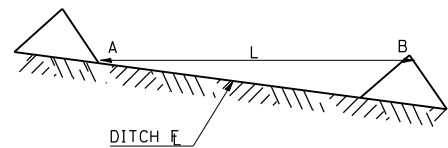
## TEMPORARY DITCH CHECKS

### PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

### SPACING BETWEEN TEMPORARY DITCH CHECKS



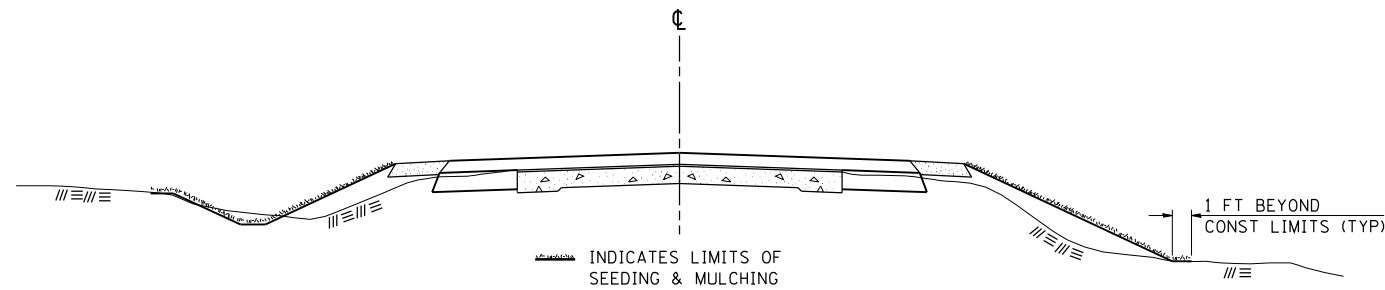
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

STD. 9-108

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10

## 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.

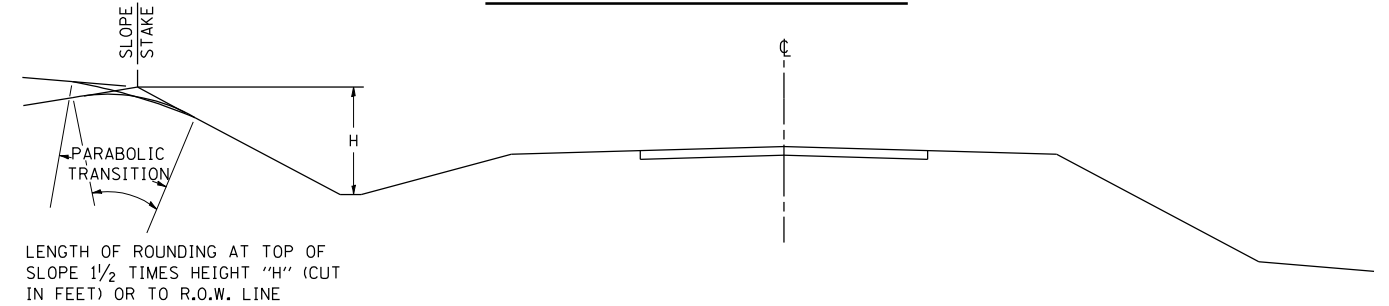
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

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

STD. 9-12

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

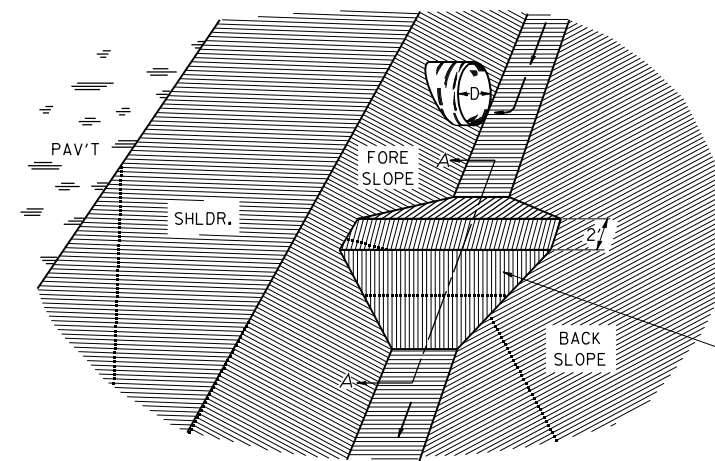
## TYPICAL SECTIONS OF TRANSITIONS OF SLOPES AND INCIDENTAL GRADING



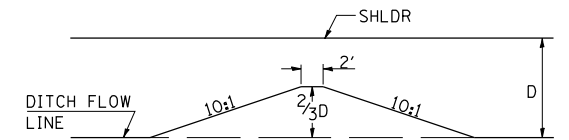
### SECTION SHOWING TRANSITIONS OF PROPOSED SLOPES

### NOTE:

DITCH PLUG TO BE CONSTRUCTED AS DIRECTED BY THE ENGINEER, INCLUDED IN THE EARTH EXCAVATION

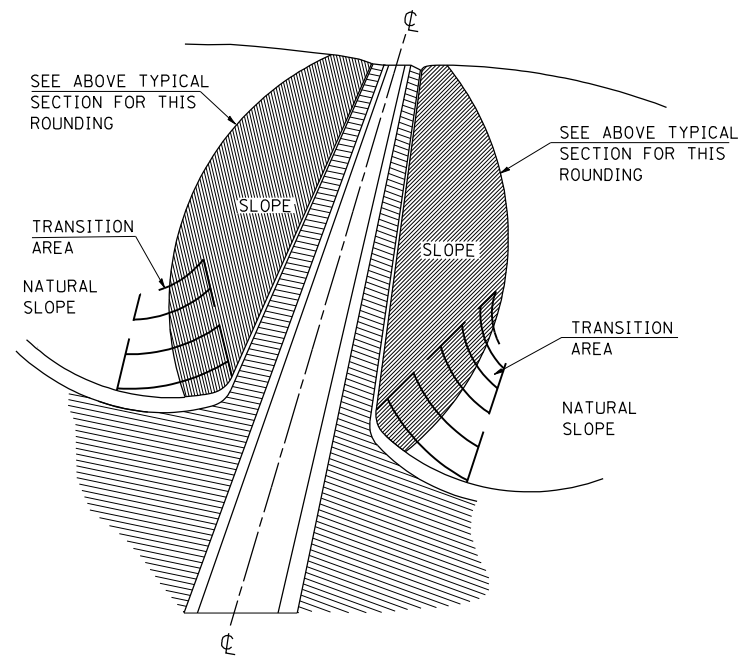


### DITCH PLUG DETAIL



### SECTION A-A

EARTH DITCH PLUG TO BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND TO BE CONSIDERED INCLUDED IN THE EARTH EXCAVATION.



### DETAIL OF SLOPE TO NATURAL GROUND TRANSITION

### TRANSITION GRADING

TRANSITION GRADING BETWEEN CUT AND FILL SLOPES AND BETWEEN CUT SLOPES AND NATURAL GROUND WILL BE REQUIRED ON THIS IMPROVEMENT. THE TRANSITION SHALL BE ROUNDED AND STREAMLINED IN ORDER TO BLEND THE CUT SLOPES AND THE FILL SLOPES INTO EACH OTHER AND INTO THE ADJACENT TERRAIN. THE SLOPES AS SHOWN ON THE CROSS SECTIONS IN THESE PLANS MAY BE VARIED SOMEWHAT IN THE TRANSITION AREAS AS DIRECTED BY THE ENGINEER IN ORDER TO MEET THIS GRADING REQUIREMENT. THE QUANTITIES OF EARTH EXCAVATION INVOLVED ARE INCLUDED IN THE BALANCE QUANTITIES SHOWN ON THE PLANS AND NO OTHER COMPENSATION WILL BE ALLOWED.

STD. 9-17

REVISIONS	
REDRAWN	2-15-89
REVISED	5-8-08

FILE NAME =	USER NAME = \$USER*	DESIGNED - JRD	REVISED -
\$FILEL\$		DRAWN - MSK	REVISED -
	PLOT SCALE = \$SCALE*	CHECKED - SLD	REVISED -
	PLOT DATE = \$DATE*	DATE - 02/01/2013	REVISED -

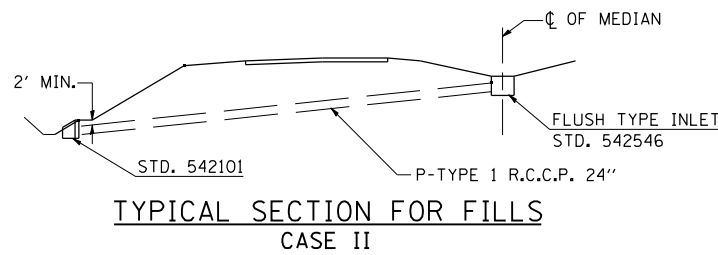
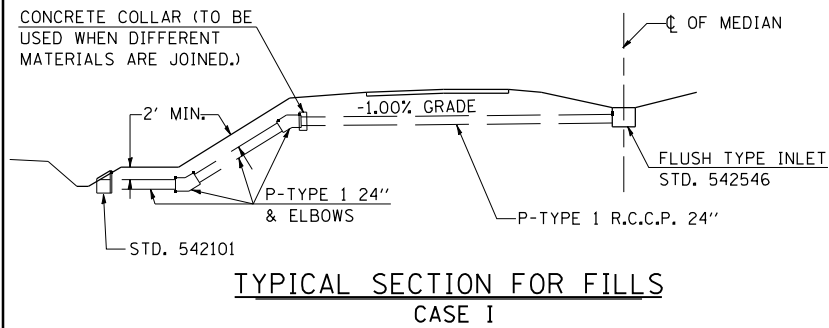
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS

SCALE: N. T. S. SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2,X1-5,(X1-4-1BR-1)R-1	WILLIAMSON	202	114
CONTRACT NO. 78334				
ILLINOIS FED. AID PROJECT				

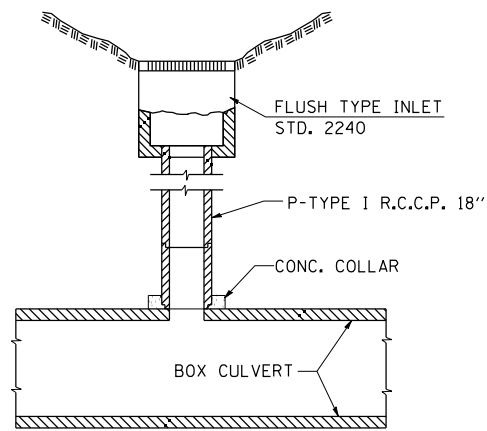
## DETAILS SHOWING METHOD OF DRAINING PROPOSED MEDIAN INLETS



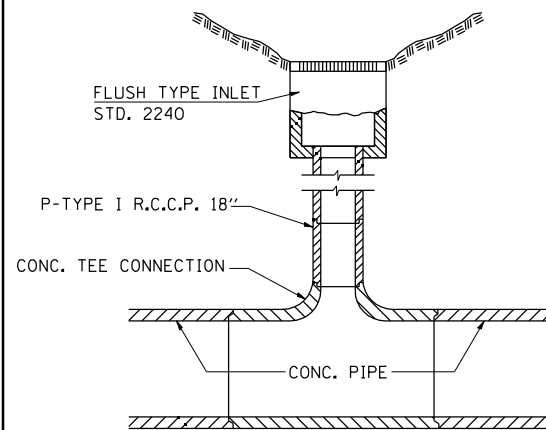
**NOTES:**

THE ELBOWS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **REINFORCED CONCRETE PIPE ELBOW** FOR THE PIPE SIZE SPECIFIED.

SEE PLAN SHEET OR CROSS SECTIONS FOR TYPE OF INSTALLATION. (CASE I OR II.)

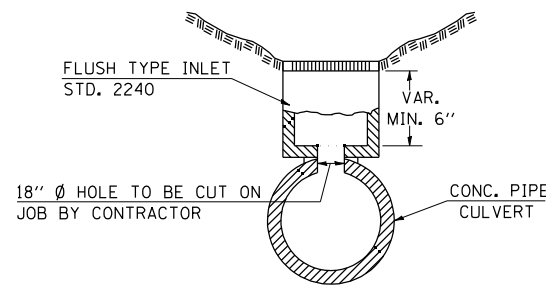


**INSTALLATION DETAILS WHERE INLETS OCCUR DIRECTLY OVER PROPOSED BOX CULVERT**



**CASE I**

INSTALLATION DETAILS WHERE INLETS OCCUR DIRECTLY OVER PROPOSED PIPE CULVERT AND WHERE SUFFICIENT SPACE EXISTS BETWEEN BOTTOM OF INLET AND TOP OF CULVERT TO ALLOW THE USE OF ONE OR MORE JOINTS OF PIPE.



**CASE II**

INSTALLATION DETAILS WHERE INLETS OCCUR DIRECTLY OVER PROPOSED PIPE CULVERT AND WHERE SUFFICIENT SPACE DOES NOT EXIST BETWEEN BOTTOM OF INLET AND TOP OF CULVERT TO ALLOW THE USE OF A FULL JOINT OF PIPE.

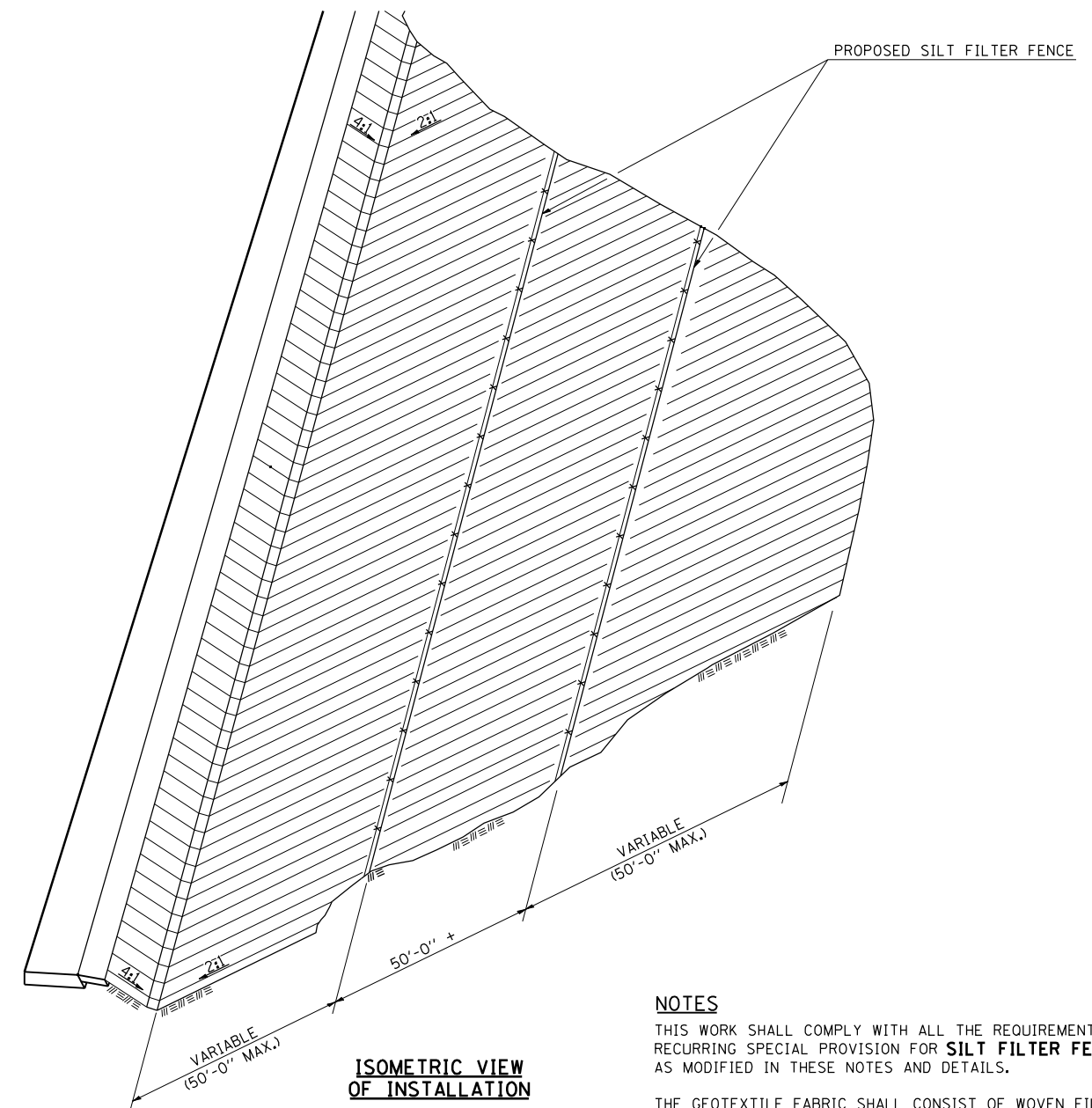
**NOTE:**

THE CONCRETE TEE CONNECTION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR **REINFORCED CONCRETE PIPE TEE** FOR THE PIPE SIZE SPECIFIED. THIS PRICE SHALL INCLUDE A SIX (6) FOOT LENGTH OF MAIN REINFORCED CONCRETE PIPE AND TWO (2) FOOT LENGTH OF THE REINFORCED CONCRETE PIPE RISER.

REVISIONS	
REDRAWN	8-17-89
REVISED	3-26-08
REVISED	
REVISED	

STD. 9-23

## DETAIL OF SILT FILTER FENCE



**NOTES**

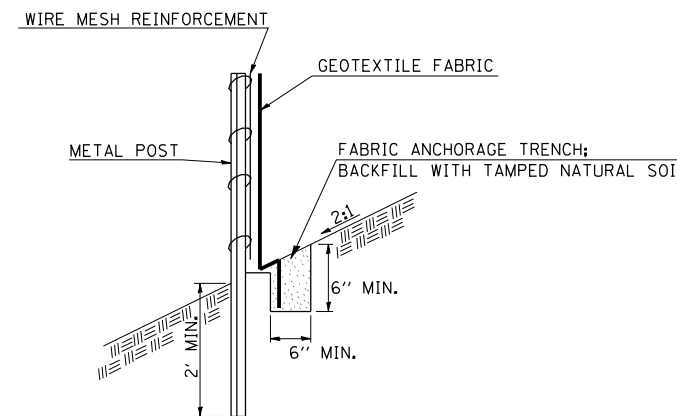
THIS WORK SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE RECURRING SPECIAL PROVISION FOR **SILT FILTER FENCE**, EXCEPT AS MODIFIED IN THESE NOTES AND DETAILS.

THE GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN FILAMENTS OF POLYPROPYLENE, POLYESTER OR POLYETHYLENE. NEEDLE PUNCHED, HEAT-BONDED OR RESIN BONDED FABRIC WILL NOT BE PERMITTED.

THE WIRE MESH REINFORCEMENT SHALL BE A MINIMUM OF 36" IN HEIGHT, HAVE A MINIMUM WIRE SIZE OF .14 GAGE AND A MAXIMUM WIRE SPACING OF SIX INCHES. WOVEN WIRE FENCING MAY BE USED PROVIDED IT MEETS THESE REQUIREMENTS.

THE WIRE MESH REINFORCEMENT SHALL BE ATTACHED TO THE STEEL POST WITH TIE WIRES. THE GEOTEXTILE FABRIC SHALL BE ATTACHED TO THE WIRE MESH REINFORCEMENT WITH HOG RINGS. THE STEEL POSTS SHALL BE A MINIMUM OF 6' LONG AND SHALL BE PLACED ON 10' CENTERS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR **PERIMETER EROSION BARRIER AND FENCE**, AS MEASURED (**EROSION CONTROL**) IN PLACE. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL MATERIAL, EQUIPMENT AND LABOR TO CONSTRUCT THE FENCE AS DESCRIBED.



REVISIONS	
REDRAWN	2-15-89
REVISED	8-18-94
REVISED	10-3-94
REVISED	12-17-01
RESIZED	5-7-08

STD. 9-40

FILE NAME =	USER NAME = \$USER*	DESIGNED - JRD	REVISED -
\$FILE#		DRAWN - MSK	REVISED -
	PLOT SCALE = \$SCALE*	CHECKED - SLD	REVISED -
	PLOT DATE = \$DATE*	DATE - 02/01/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

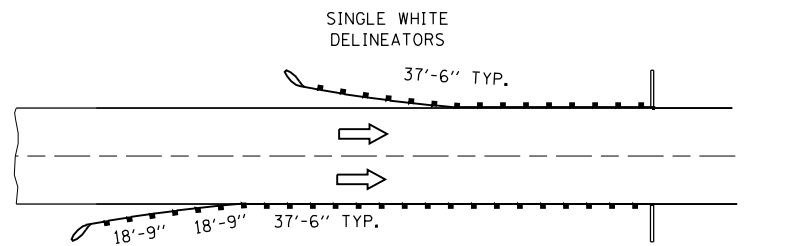
**DISTRICT DETAILS**

SCALE: N. T. S. SHEET NO. 3 OF 7 SHEETS STA. TO STA.

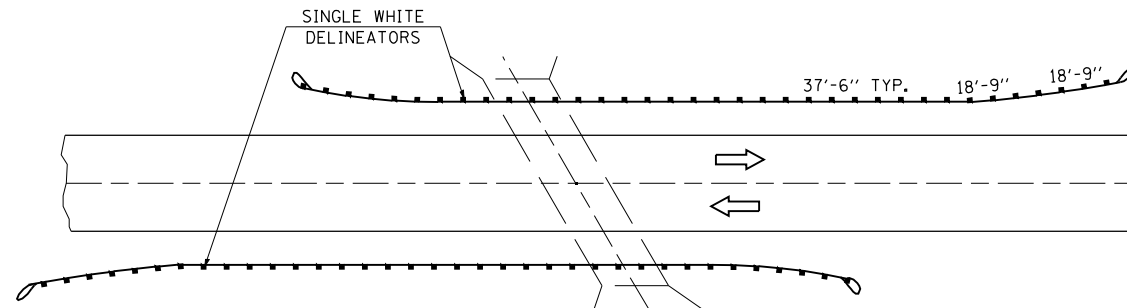
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2,X1-5,(X1-4-1BR-1)R-1	WILLIAMSON	202	115
CONTRACT NO. 78334				

ILLINOIS FED. AID PROJECT

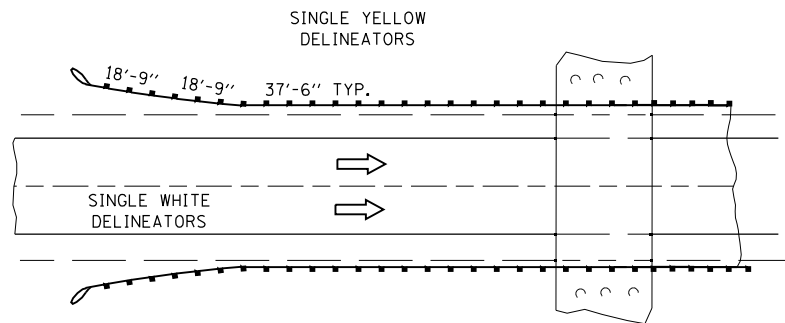
# TYPICAL GUARDRAIL DELINEATION



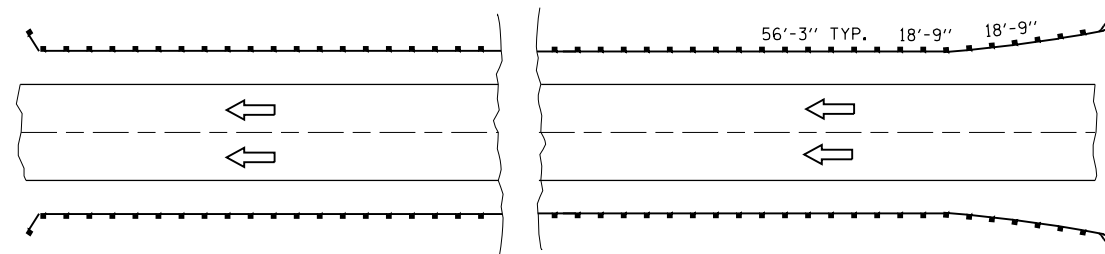
BRIDGE APPROACH INSTALLATION (TWO-WAY TRAFFIC)



ROADSIDE OBSTACLE INSTALLATION - LENGTH 250' OR LESS (TWO WAY TRAFFIC)

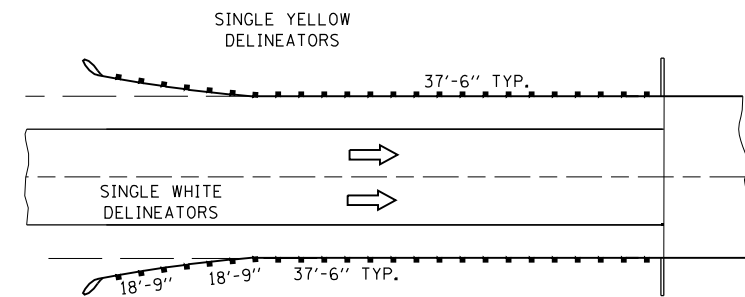


ROADSIDE OBSTACLE INSTALLATION - LENGTH 250' OR LESS (ONE WAY TRAFFIC)

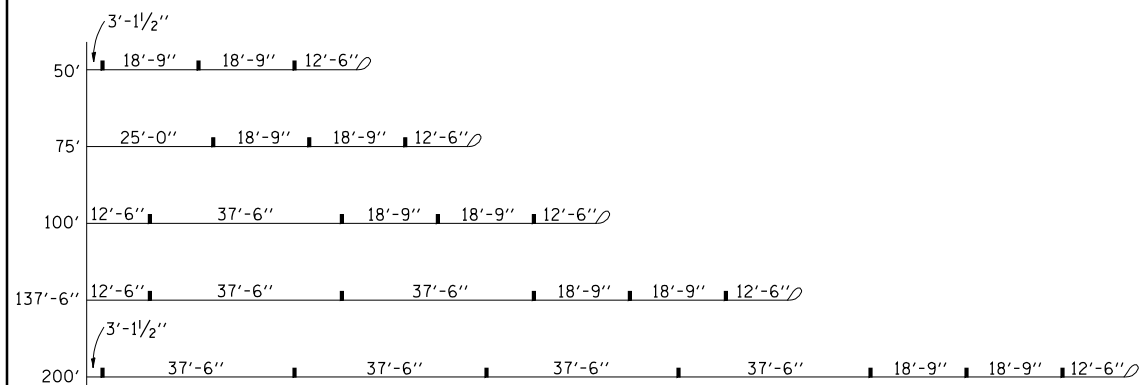


EMBANKMENT OR ROADSIDE OBSTACLE INSTALLATION - LENGTH GREATER THAN 250'

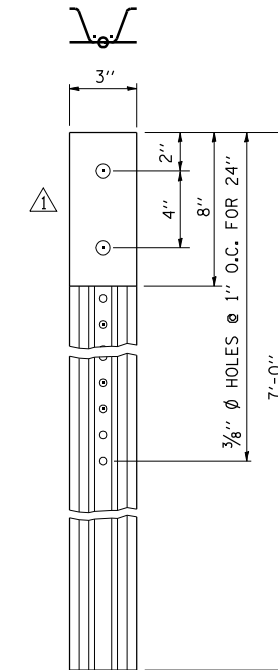
(ONE-WAY TRAFFIC SHOWN DELINEATOR SPACING FOR TWO-TRAFFIC SIMILAR. DELINEATOR COLOR WILL BE THE SAME AS THE ADJACENT PAVEMENT EDGE MARKING)



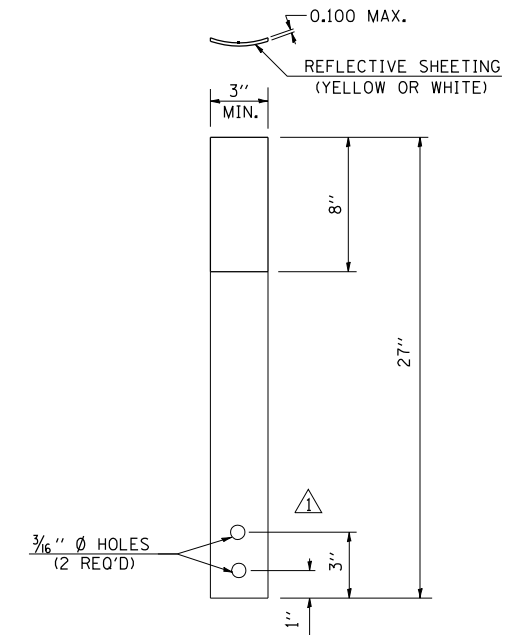
BRIDGE APPROACH INSTALLATION (ONE-WAY TRAFFIC)



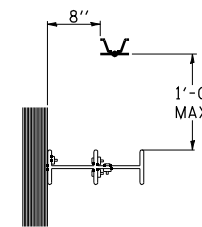
GRAPHICS SHOWING SPACING OF GUARDRAIL DELINEATORS AT SOME COMMONLY USED BRIDGE APPROACHES



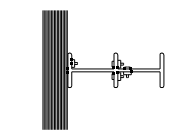
DETAIL OF A SINGLE WHITE OR SINGLE YELLOW DELINEATOR



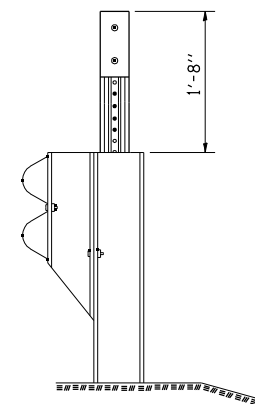
DETAIL OF FLEXIBLE GUARDRAIL DELINEATOR



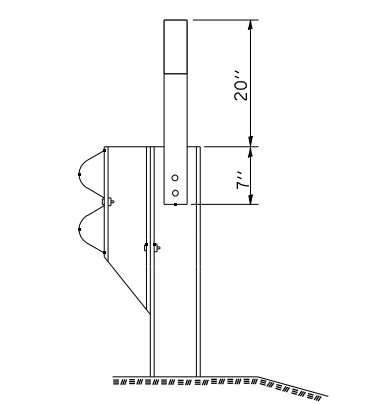
PLAN VIEW



PLAN VIEW



TYPICAL STEEL POST GUARDRAIL DELINEATOR INSTALLATION



TYPICAL FLEXIBLE GUARDRAIL DELINEATOR INSTALLATION

## GENERAL NOTES

- THE UNIT PRICE OF DELINEATOR INCLUDES: COST(S) OF DELINEATOR FACE(S), POST, HARDWARE, AND INSTALLATION.
- DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
- DELINEATORS ON STEEL POSTS
  - DELINEATOR FACE SHALL BE PLACED ON 0.06" SHEET ALUMINUM OR 14 GAGE GALVANIZED SHEET STEEL
  - DELINEATOR POSTS SHALL BE GALVANIZED STEEL U-SECTION POSTS (2.0 TO 2.5 LBS PER FT.). THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED. RADIUS IN BENDS OF POST CROSS-SECTION NOT TO EXCEED 1/2 INCH FOR HOT ROLLED SECTION.
  - WHEN COVER OVER A DRAINAGE STRUCTURE IS LESS THAN THE NORMAL DELINEATOR POST DEPTH, THE DELINEATOR POSTS WILL BE FIELD CUT, DRILLED AND FASTENED TO THE BACK OF THE GUARDRAIL POSTS WITH (2) 1/4" LAG SCREWS.
- DELINEATORS ON FLEXIBLE POSTS
  - DELINEATOR POSTS SHALL BE WHITE IN COLOR.
  - THE DELINEATOR POSTS WILL BE SECURED TO METAL GUARDRAIL POSTS BY TWO HUCK RIVETS (PIN #C6LB-R6-7C; COLLAR #3LCW-2R6-6) OR EQUIVALENT. A 3/8" GALVANIZED FLANGED NUT WILL BE PLACED BETWEEN THE DELINEATOR POST AND GUARDRAIL POST ON EACH RIVET. HOLES IN THE STEEL GUARDRAIL POSTS SHALL BE 1/4" DIAMETER AND MAY BE SHOP FABRICATED OR FIELD DRILLED.

REVISIONS	
DRAWN	5-17-97
REVISED	01-10-07
RESIZED	05-06-08

STD. 9-42

FILE NAME =	USER NAME = #USER#	DESIGNED - JRD	REVISED -
#FILE#		DRAWN - MSK	REVISED -
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	PLOT DATE = #DATE#	DATE - 02/01/2013	REVISED -

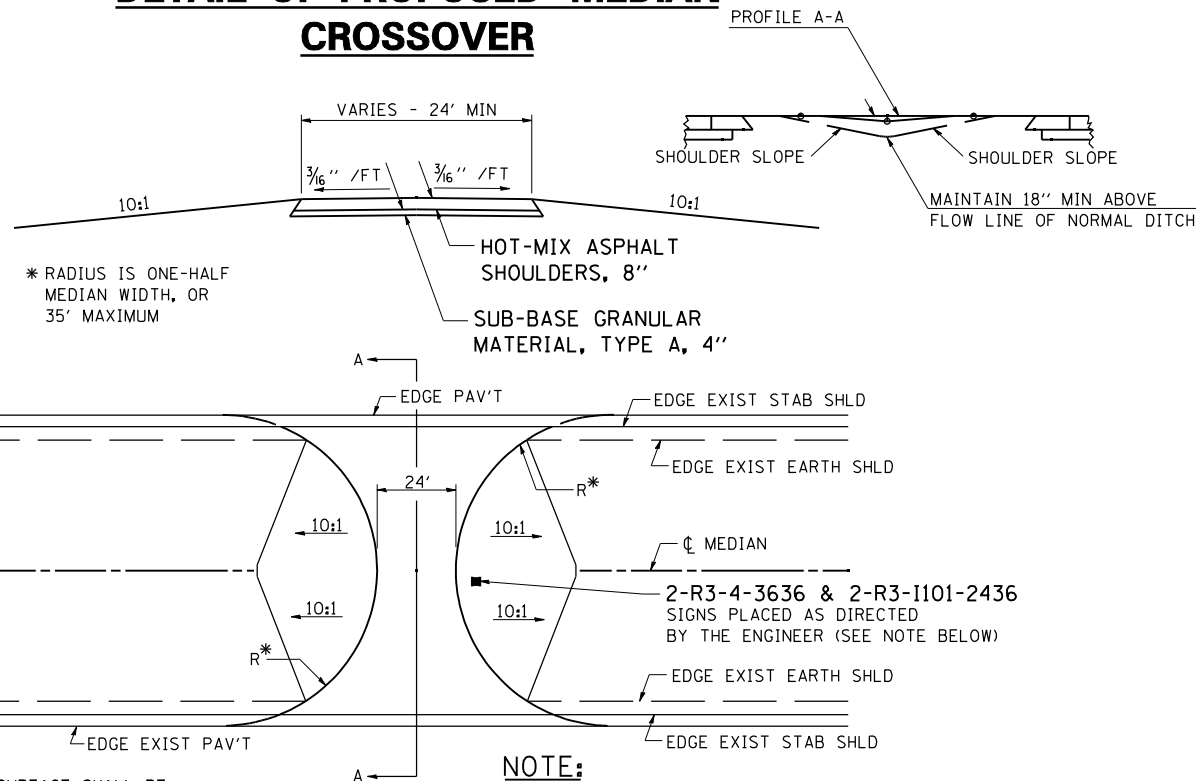
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS

SCALE: N. T. S. SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1-6-2,X1-5,(X1-4-1BR-1)R-1	WILLIAMSON	202	116
CONTRACT NO. 78334			ILLINOIS FED. AID PROJECT	

## DETAIL OF PROPOSED MEDIAN CROSSOVER



\* RADIUS IS ONE-HALF MEDIAN WIDTH, OR 35' MAXIMUM

TO BE USED:

**NOTE:**

THE PROPOSED CROSSOVER SURFACE SHALL BE BUTTED TO THE EDGE OF THE EXISTING STABILIZED SHOULDER. SEE SHEET NO. \_\_ FOR EARTHWORK SCHEDULE. EARTHWORK SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER.

**NOTE:**

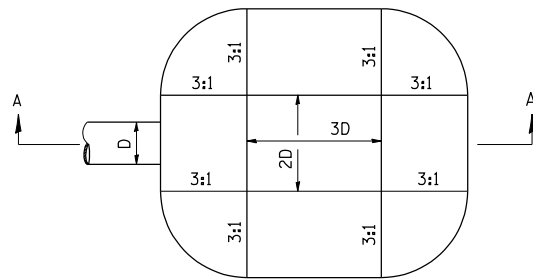
THE SIGN ASSEMBLY FOR EACH LOCATION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "RELOCATION SIGN PANEL ASSEMBLY TYPE B" EXISTING SIGN SUPPORTS SHALL BE USED FOR NEW INSTALLATION.

STD. 9-55

REVISIONS	
DRAWN	8-30-89
REVISED	01-10-07
REVISED	3-26-08

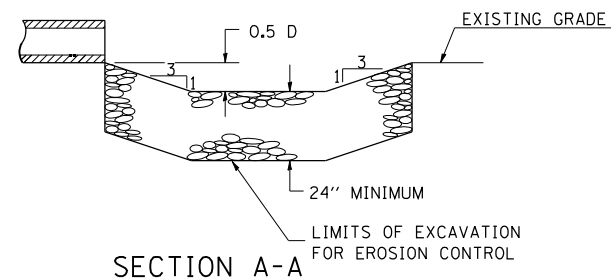
## ENERGY DISSIPATOR

### 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 DUMPED RIPRAP**.

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

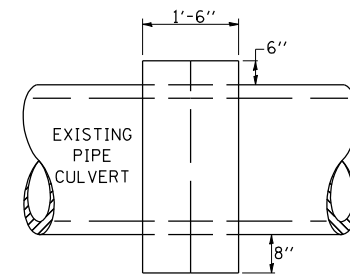
BEDDING MATERIAL AS SPECIFIED IN SECTION 281 OF THE STANDARD SPECIFICATIONS WILL NOT BE REQUIRED.

STD. 9-6

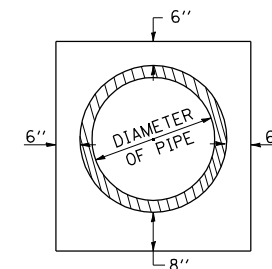
REVISIONS	
DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08

## 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.

REVISIONS	
DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08

STD. 9-79

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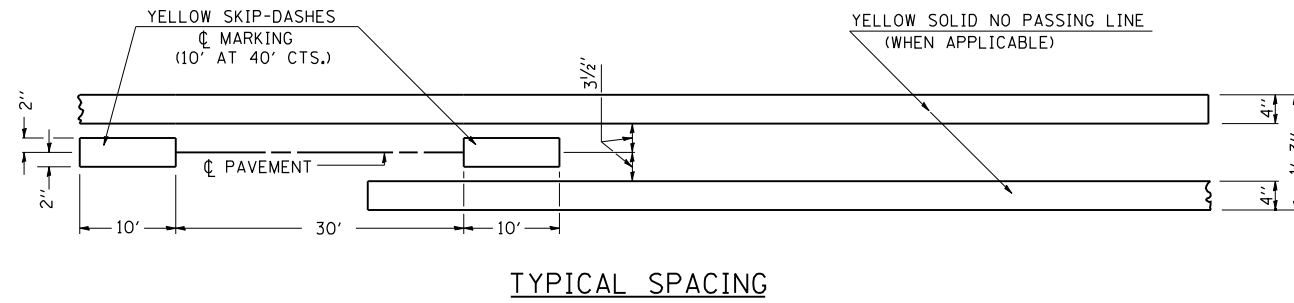
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT DETAILS**

SCALE: N. T. S. SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(X1)-6-2,(X1)-5,(X1)-4-(1BR-1)R-1	WILLIAMSON	202	117
CONTRACT NO.			78334	
ILLINOIS FED. AID PROJECT				

## PAVEMENT MARKING DETAILS



PAINT PAVEMENT MARKING-LINE 4"			
STA. - STA.	SOLID EDGE-LINE WHITE	SKIP-DASH CENTERLINE YELLOW	SOLID NO PASSING LINE YELLOW
	FOOT		

REVISIONS	
REDRAWN	2-15-89
REVISED	8-19-94
REVISED	3-26-08
REVISED	

STD. 9-31



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		CHECKED -	REVISED -			<b>CONTRACT NO. 78334</b>					
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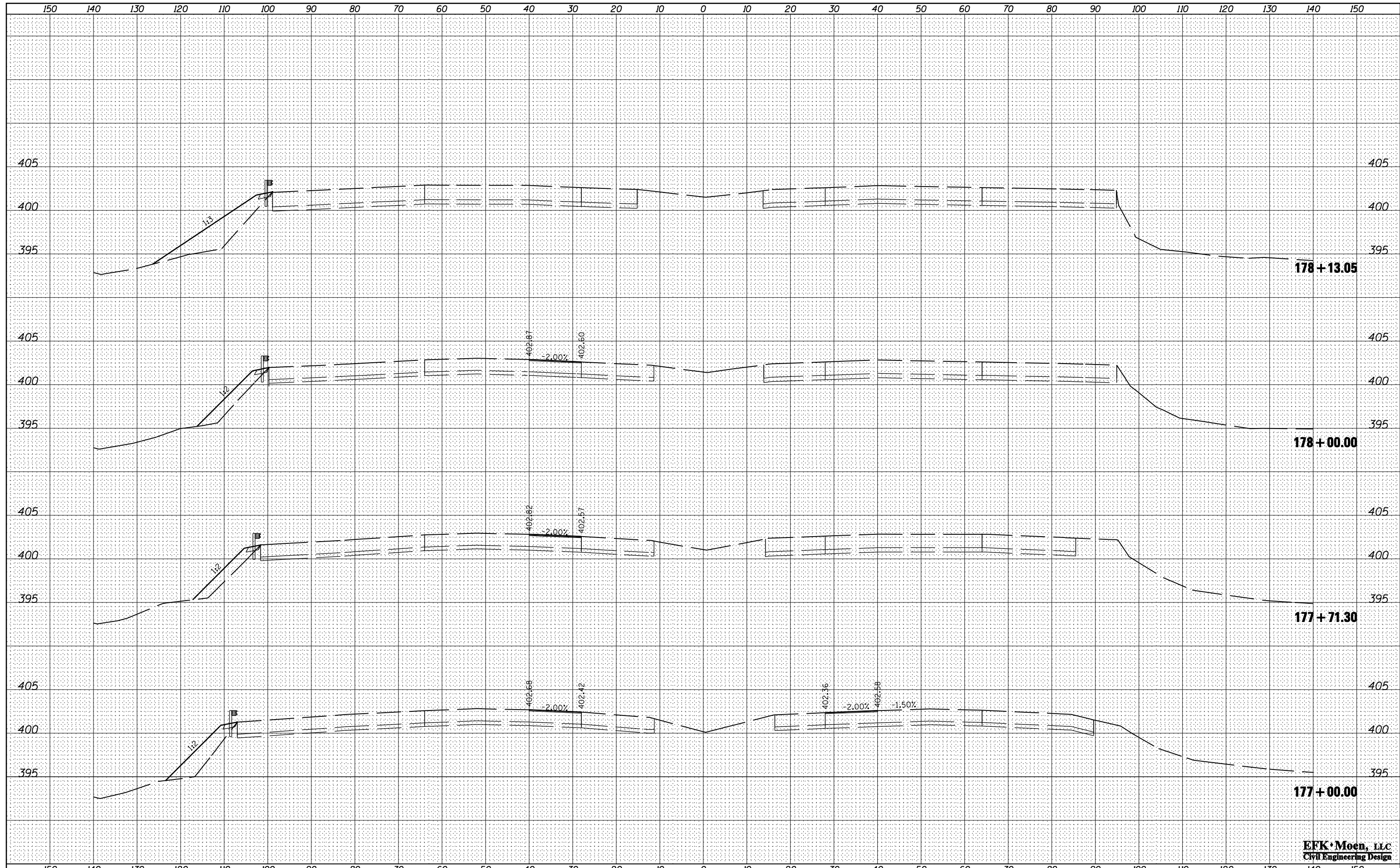






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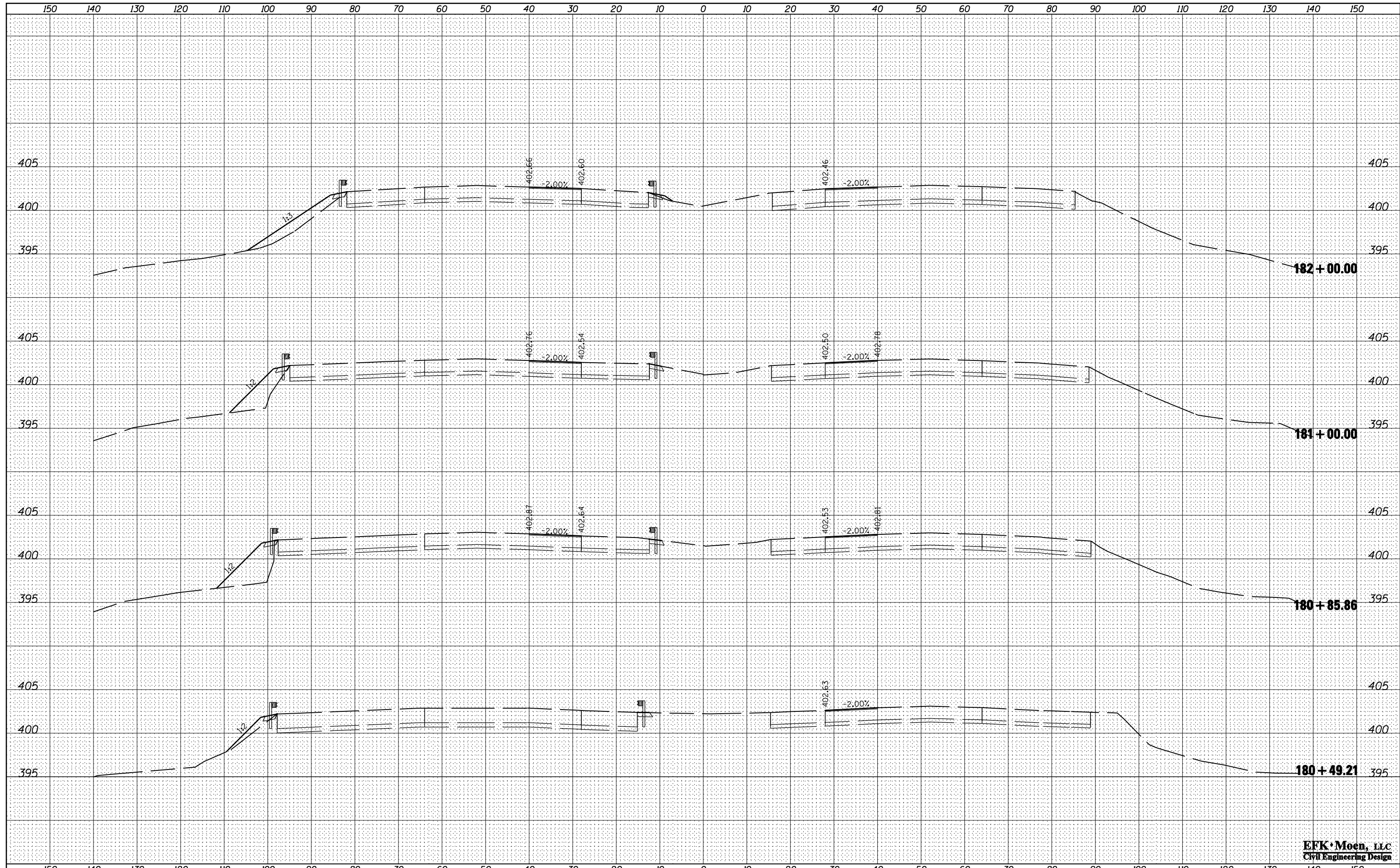
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
SCALE: 10 H : 5 V SHEET 4 OF 83 SHEETS STA. 177+00.00 TO STA. 178+13.05

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	123
			CONTRACT NO. 78334	
ILLINOIS FED. AID PROJECT				

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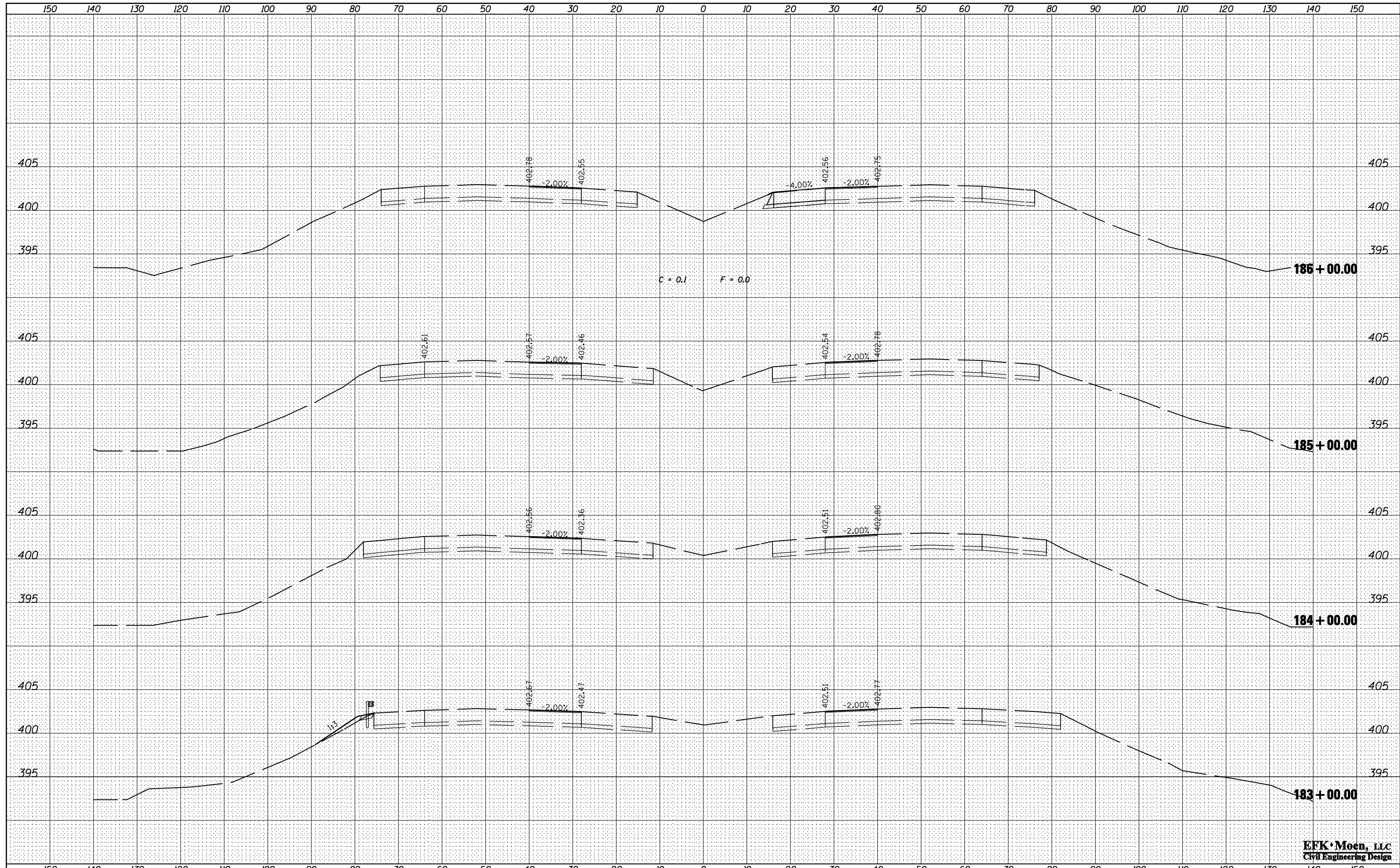


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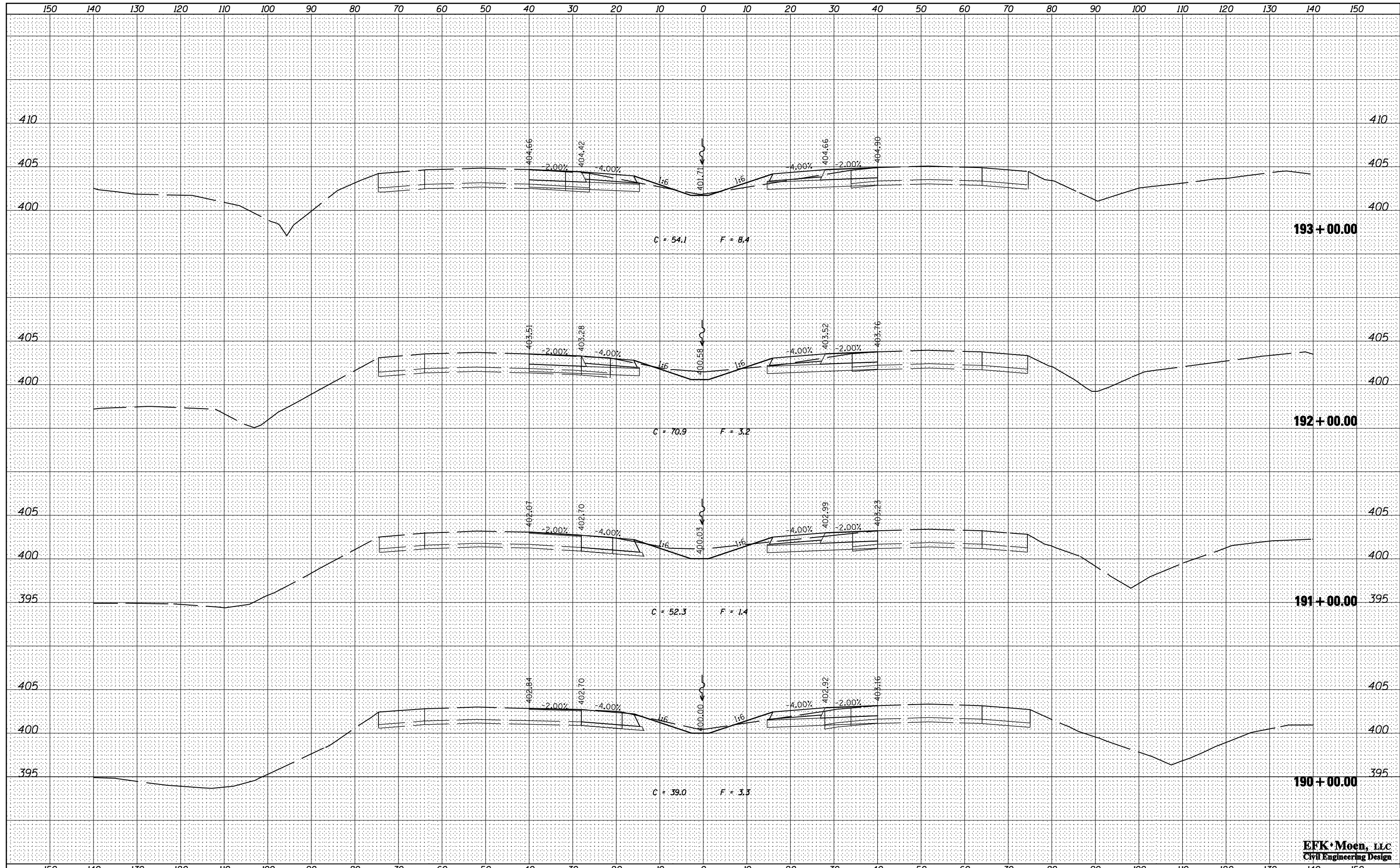
SCALE: 10 H : 5 V SHEET 6 OF 83 SHEETS STA. 183+00.00 TO STA. 186+00.00





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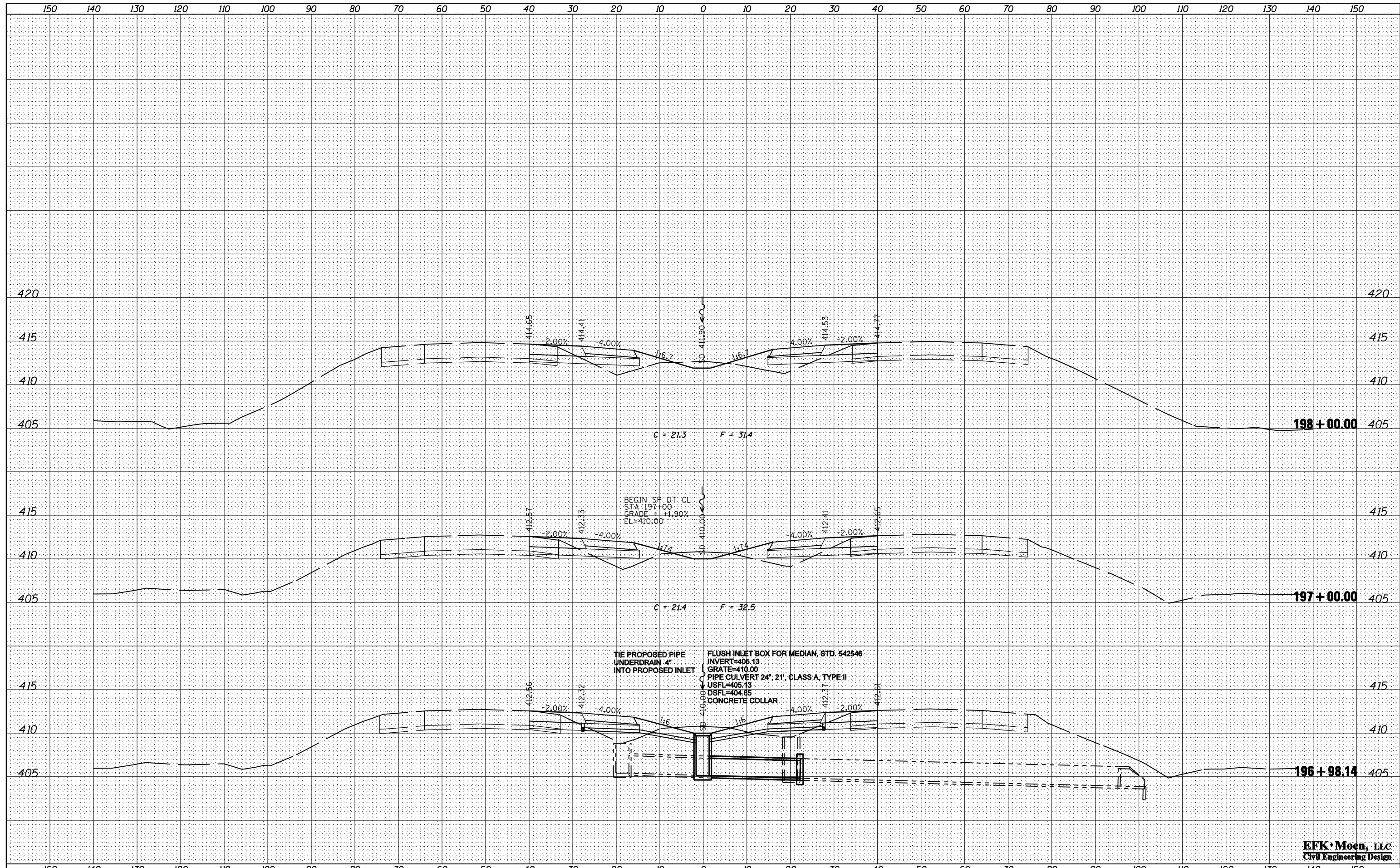


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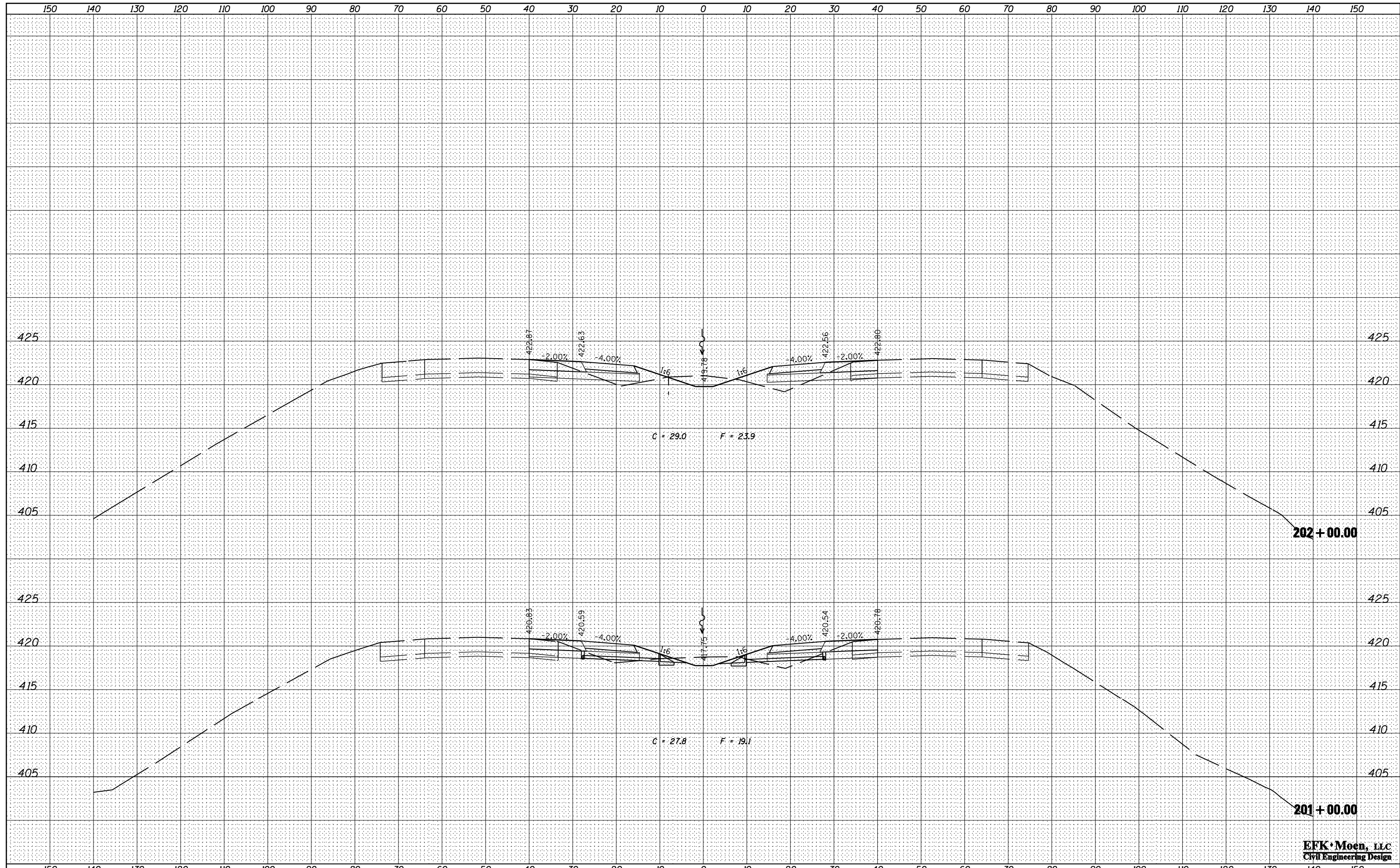
SCALE: 10 H : 5 V SHEET 10 OF 83 SHEETS STA. 196+98.67 TO STA. 198+00.00

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**202 + 00.00**

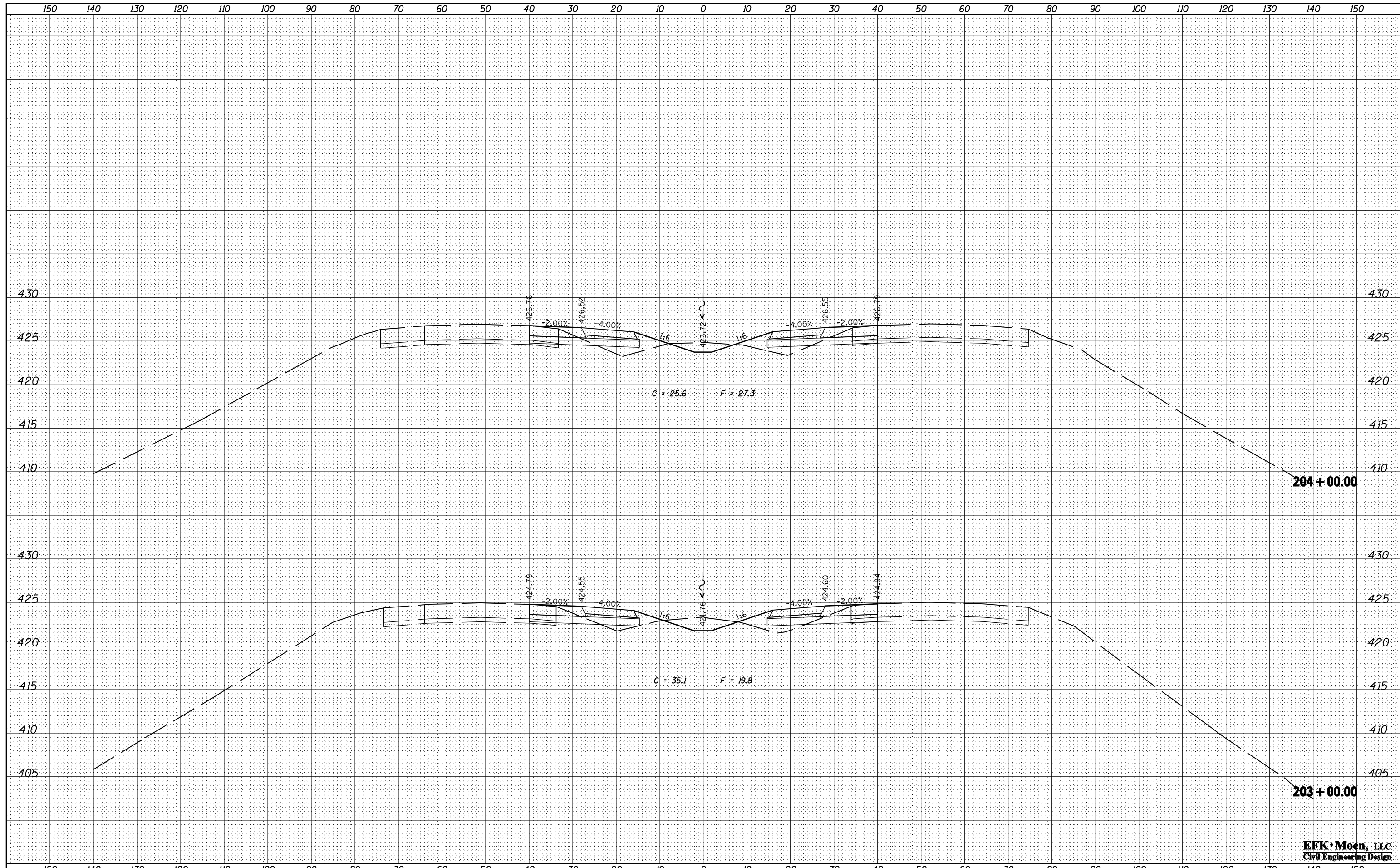
**201 + 00.00**

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					SCALE: 10 H : 5 V	SHEET 12 OF 83 SHEETS		STA. 201+00.00 TO STA. 202+00.00		

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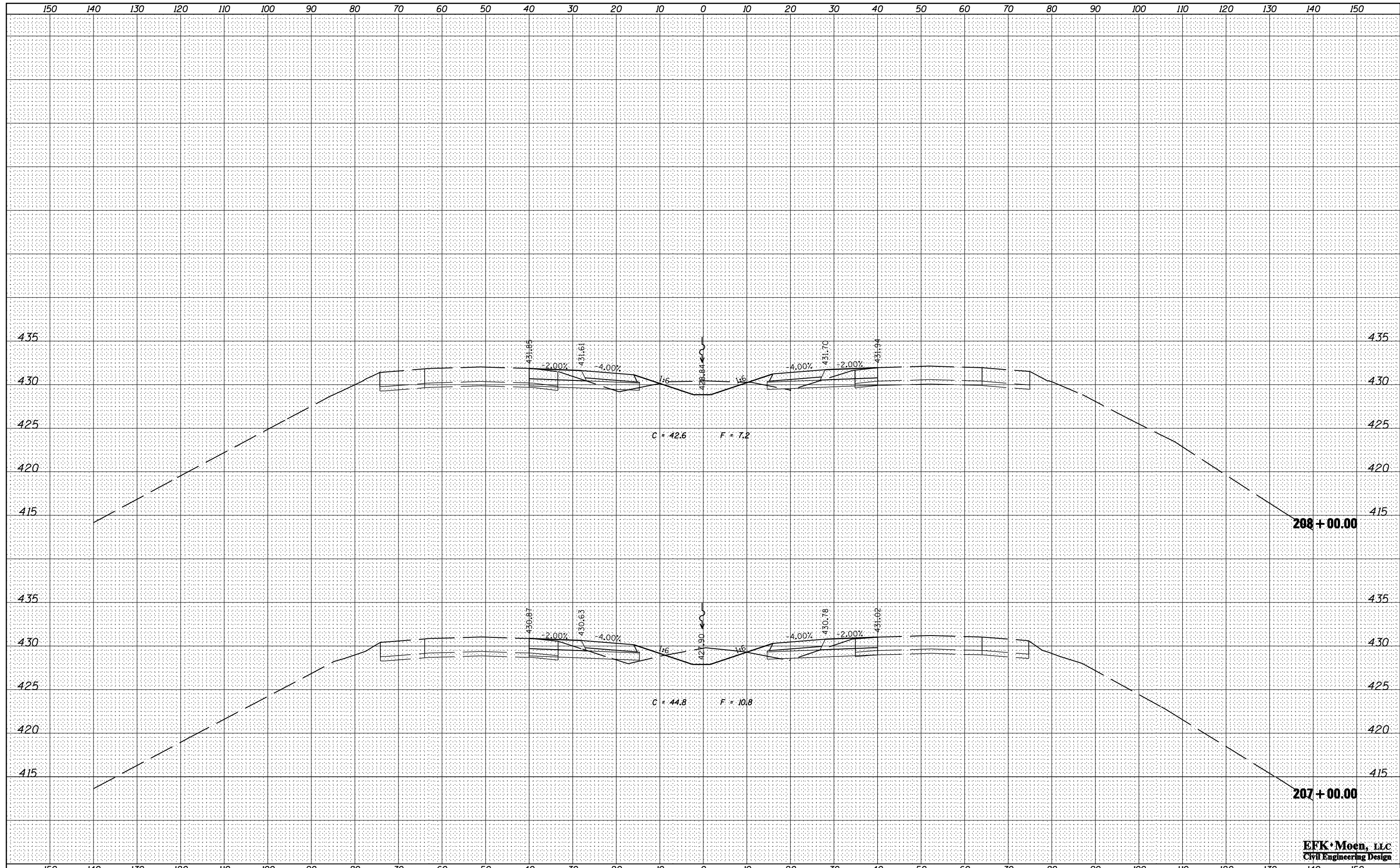
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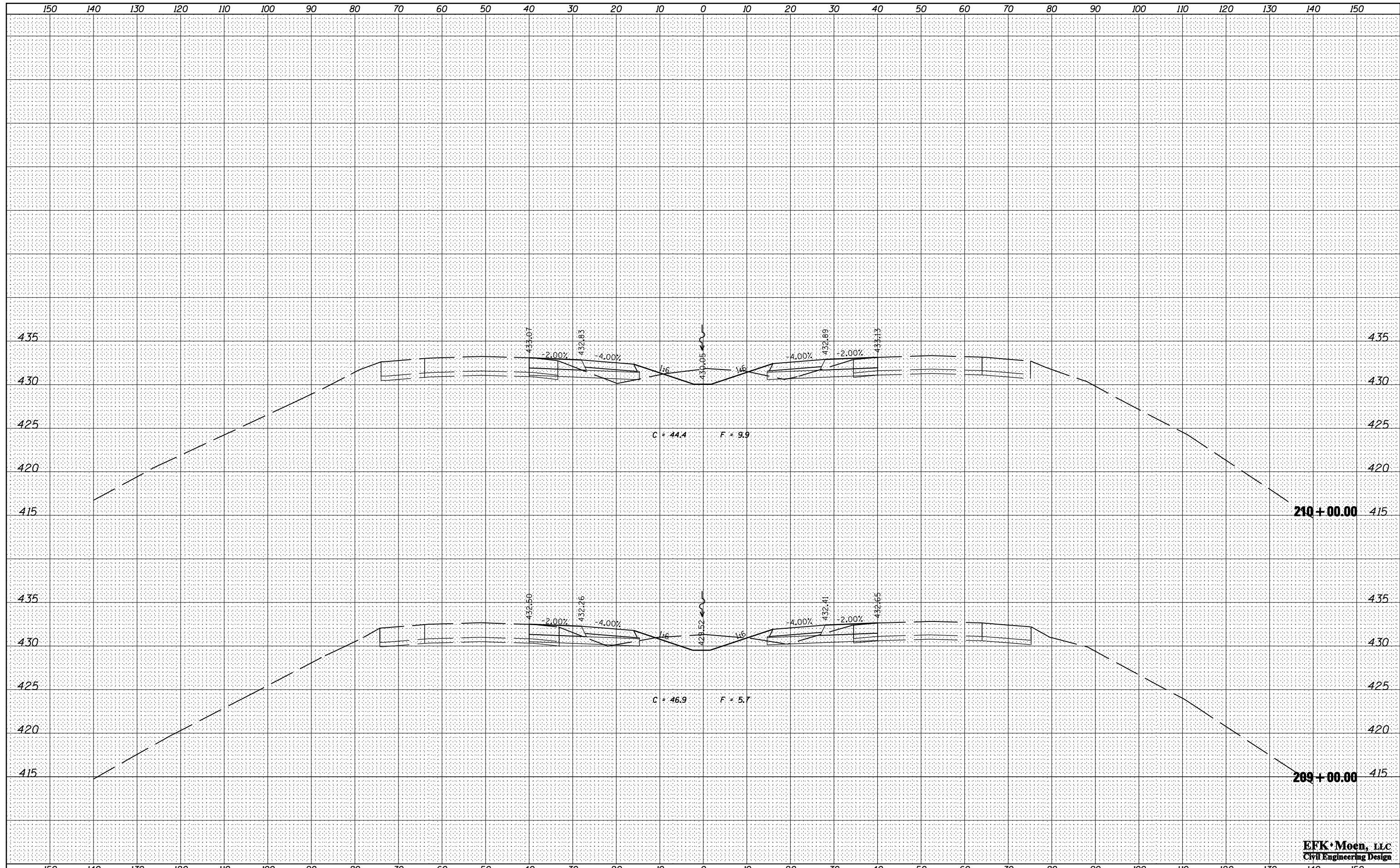
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		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: 10 H : 5 V						SHEET 15 OF 83 SHEETS		STA. 207+00.00 TO STA. 208+00.00			



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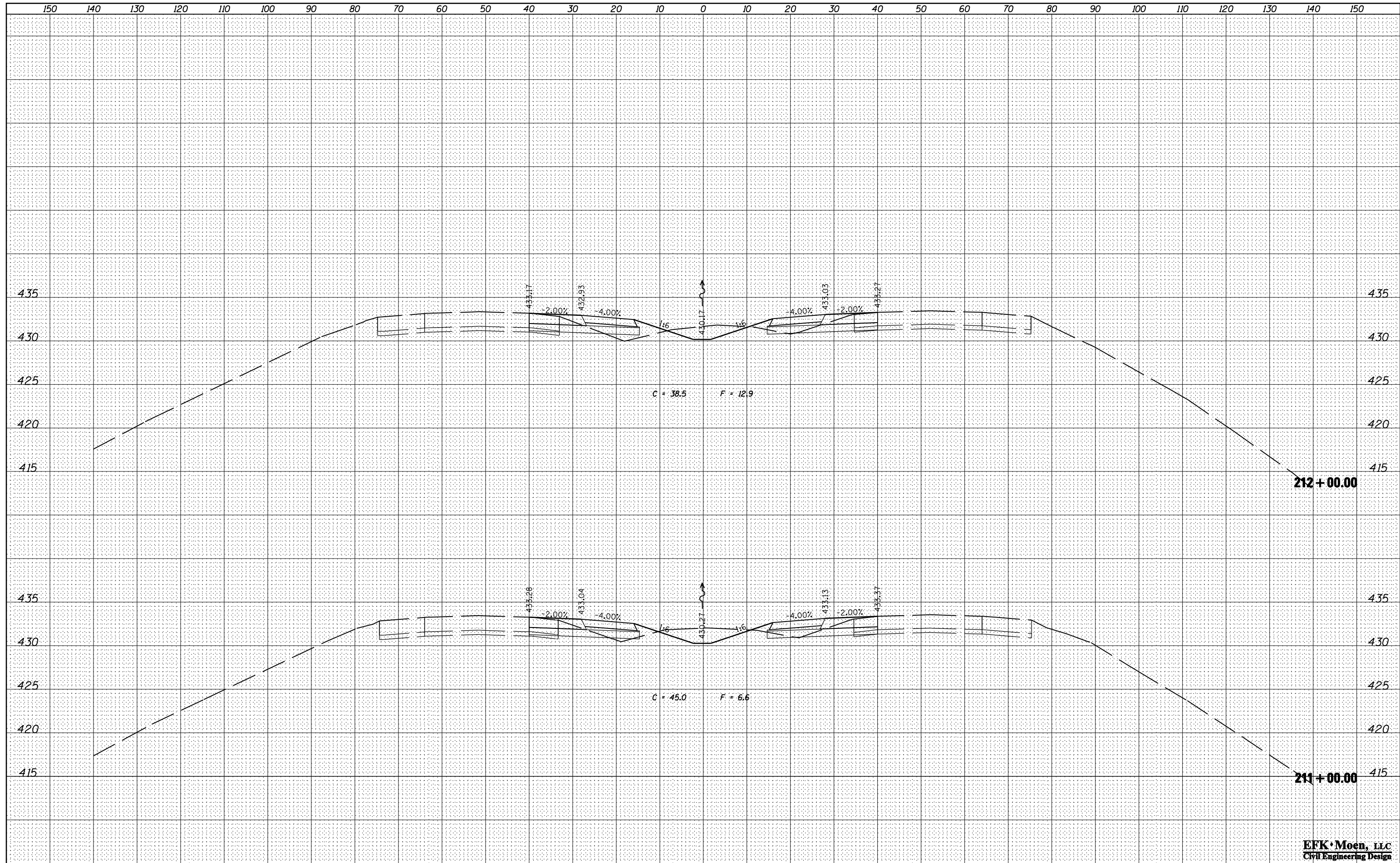
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
 SCALE: 10 H : 5 V SHEET 17 OF 83 SHEETS STA. 211+00.00 TO STA. 212+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	136
			CONTRACT NO. 78334	
ILLINOIS FED. AID PROJECT				

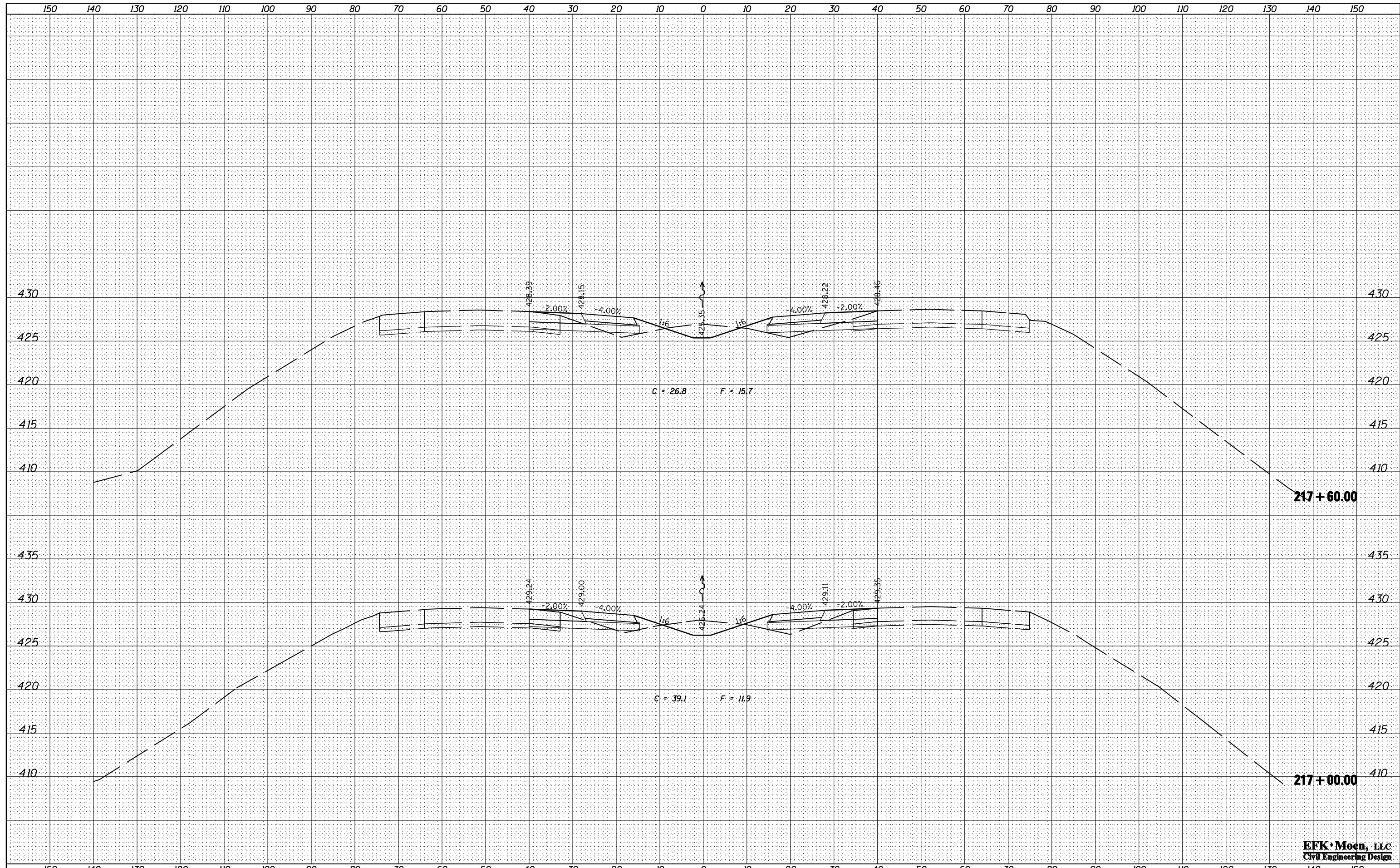
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
 SCALE: 10 H : 5 V SHEET 20 OF 83 SHEETS STA. 217+00.00 TO STA. 217+60.00

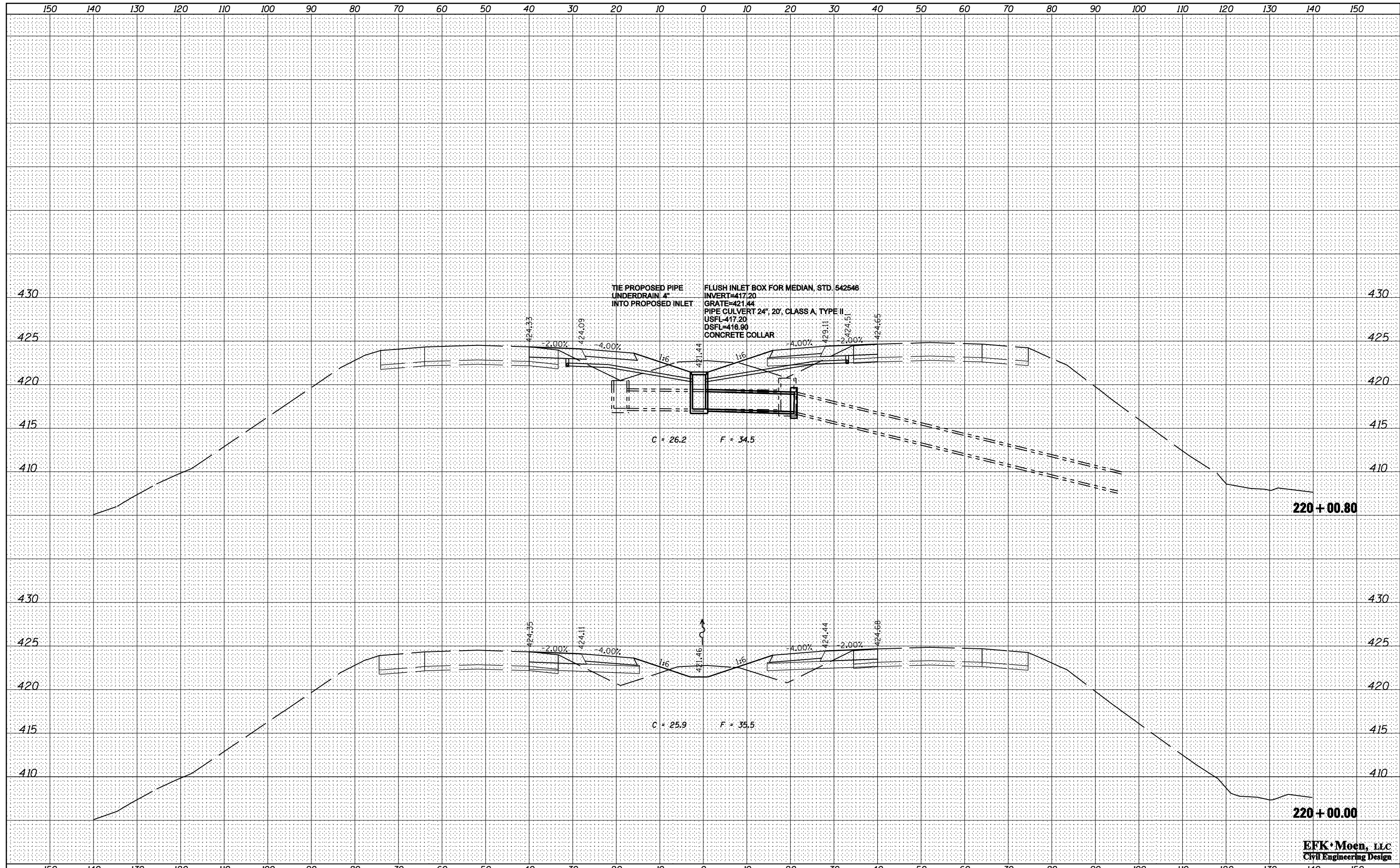
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57	(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	139
CONTRACT NO. 78334			ILLINOIS FED. AID PROJECT	

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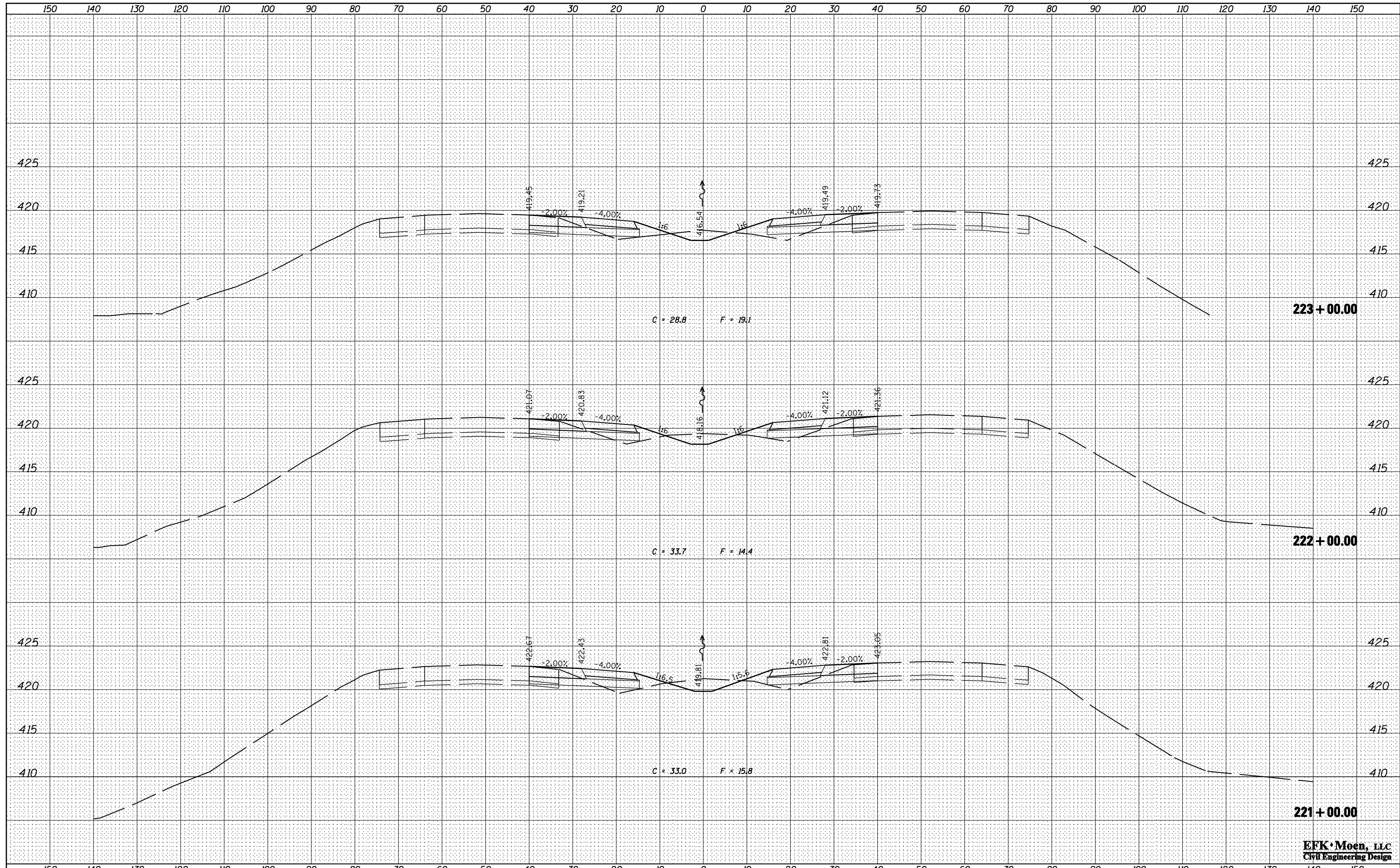
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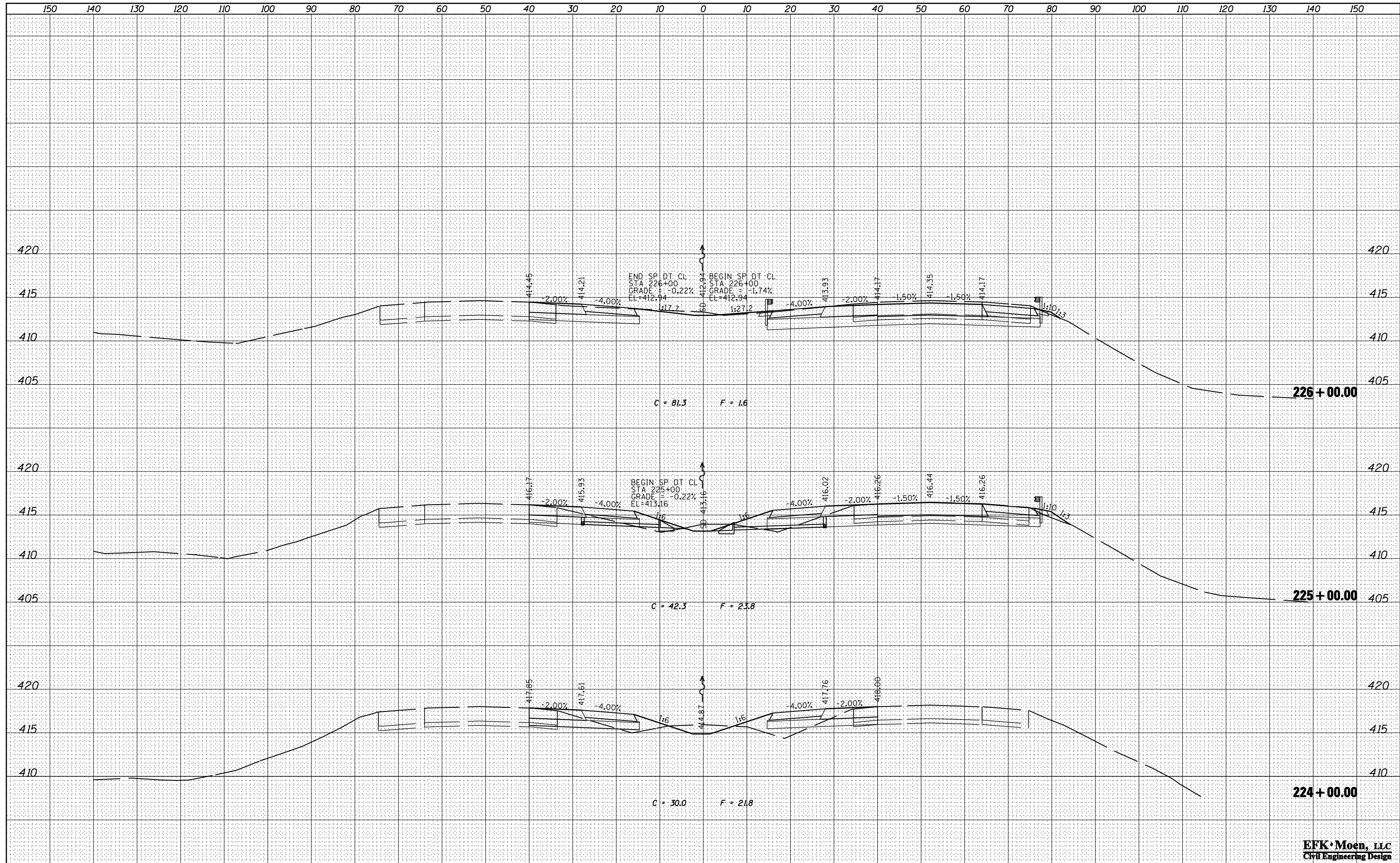
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		DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT					

SCALE: 10 H : 5 V SHEET 23 OF 83 SHEETS STA. 221+00.00 TO STA. 223+00.00



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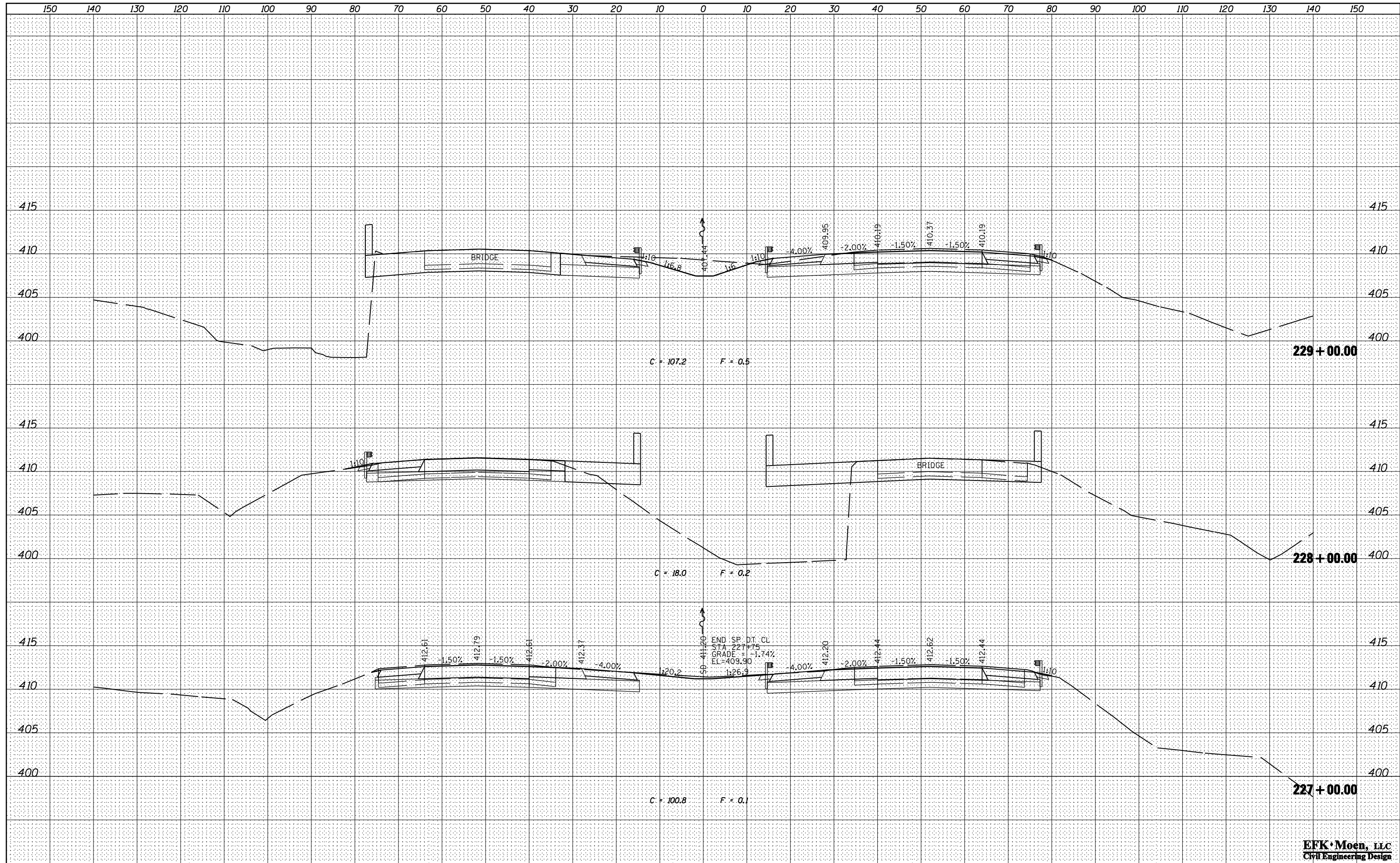


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SCALE: 10 H : 5 V						SHEET 24 OF 83 SHEETS		STA. 224+00.00 TO STA. 226+00.00		

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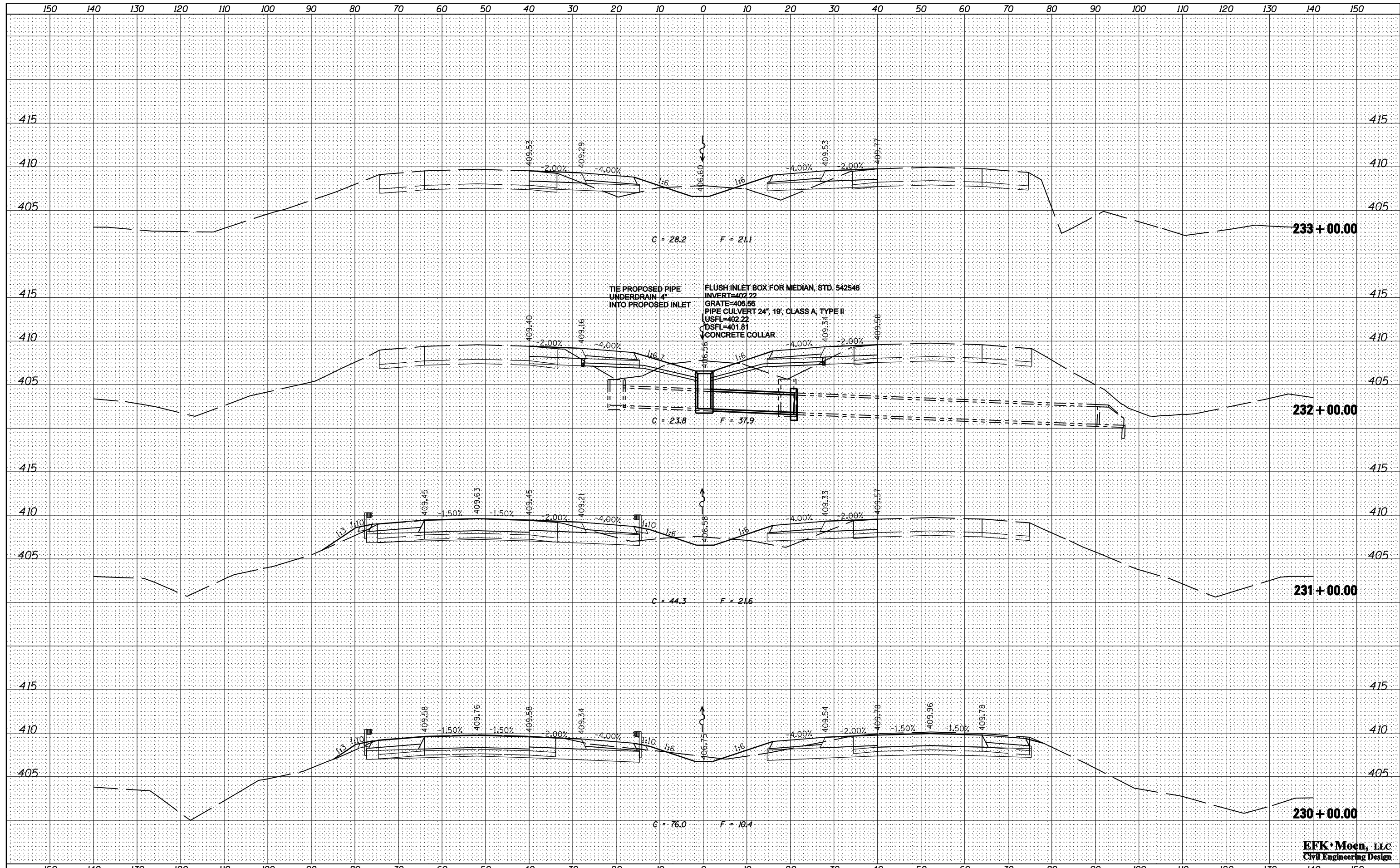
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
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**EFK Moen, LLC**  
 Civil Engineering Design

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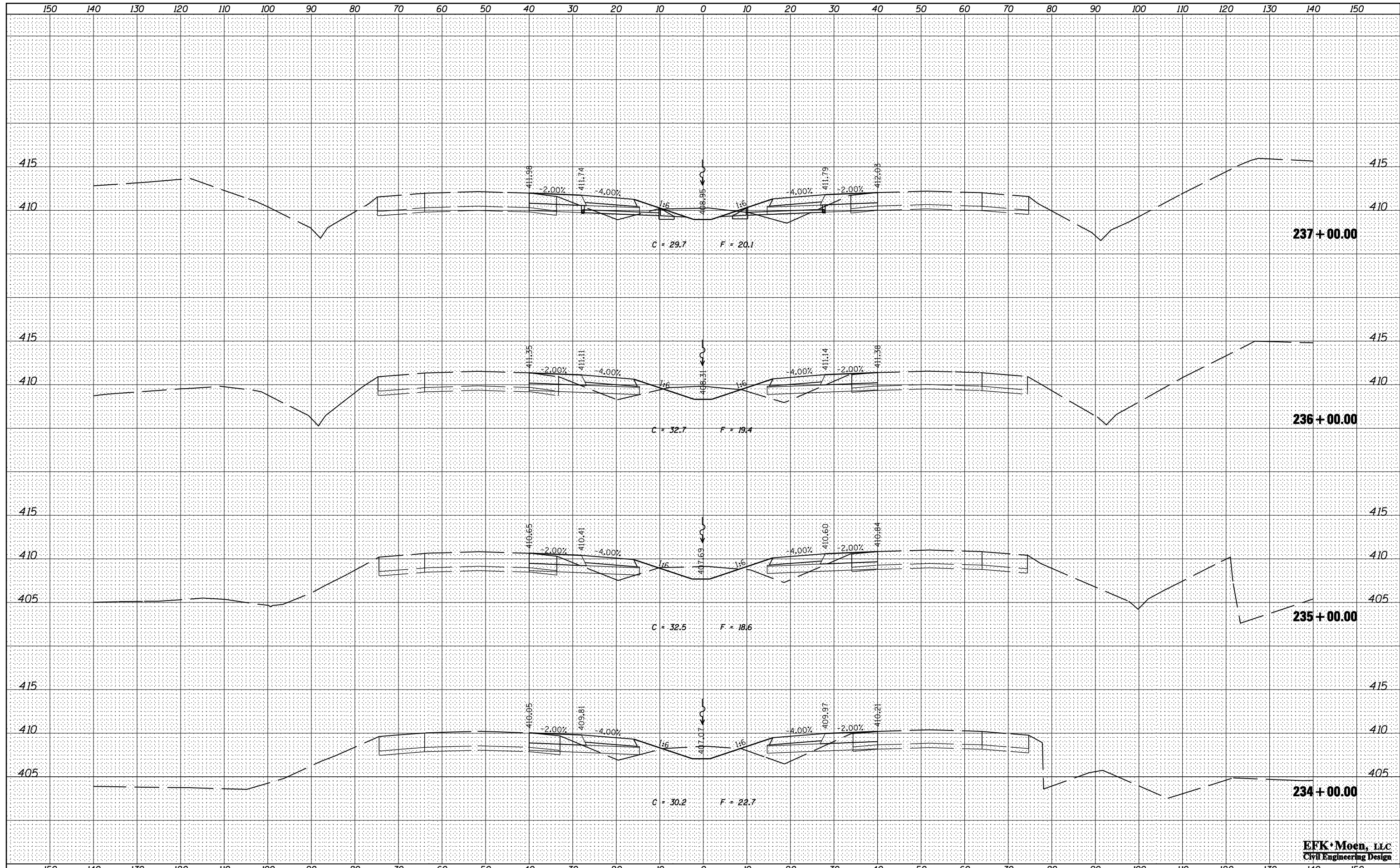
**EFK Moen, LLC**  
Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL*		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	145	
PLOT SCALE = *SCALE*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
*MODELNAME*		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 10 H : 5 V SHEET 26 OF 83 SHEETS STA. 230+00.00 TO STA. 233+00.00

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FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 57 (I-57) CROSS SECTIONS**

SCALE: 10 H : 5 V SHEET 27 OF 83 SHEETS STA. 234+00.00 TO STA. 237+00.00

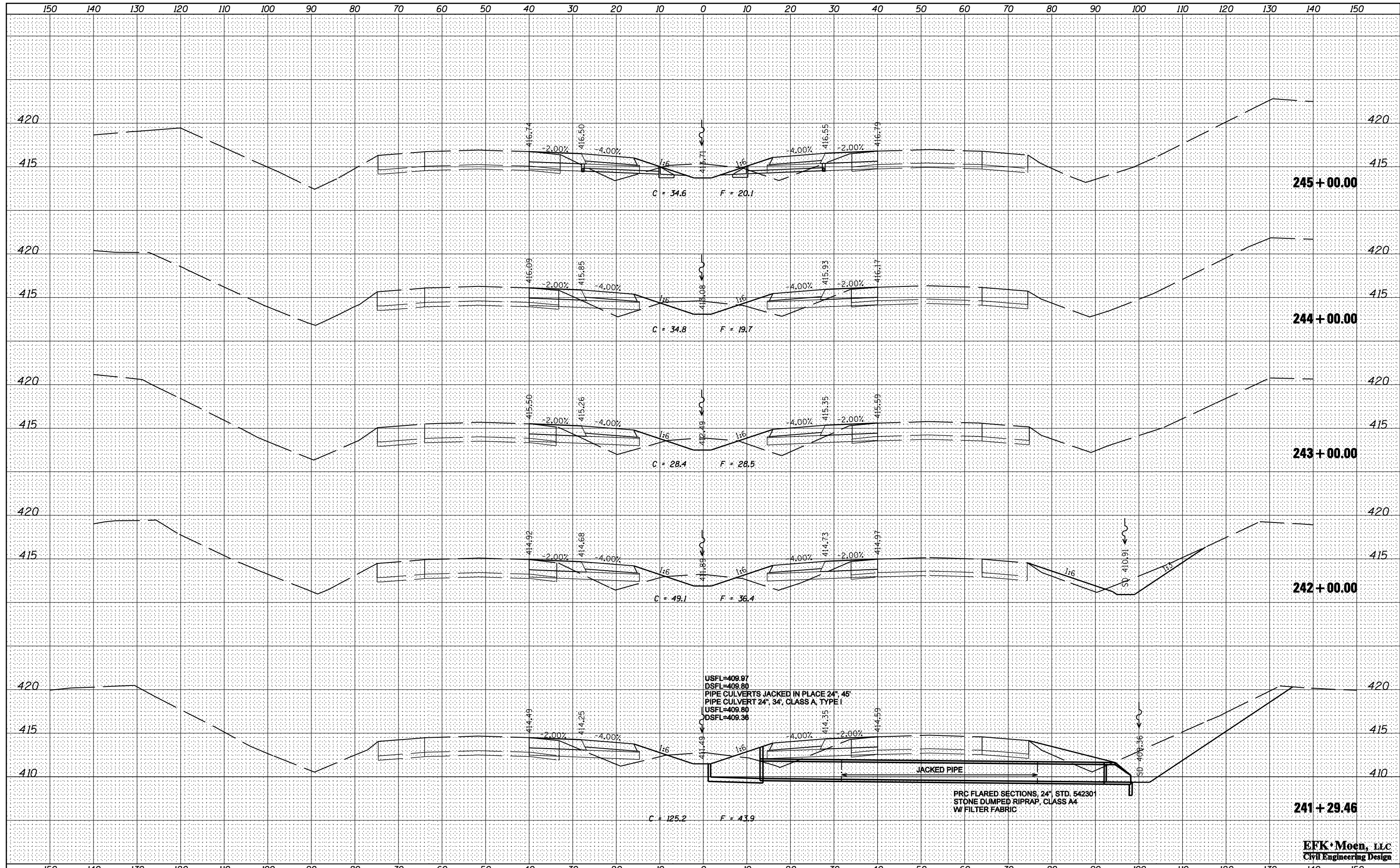
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	146
CONTRACT NO. 78334			ILLINOIS FED. AID PROJECT	

**EFK Moen, LLC**  
Civil Engineering Design



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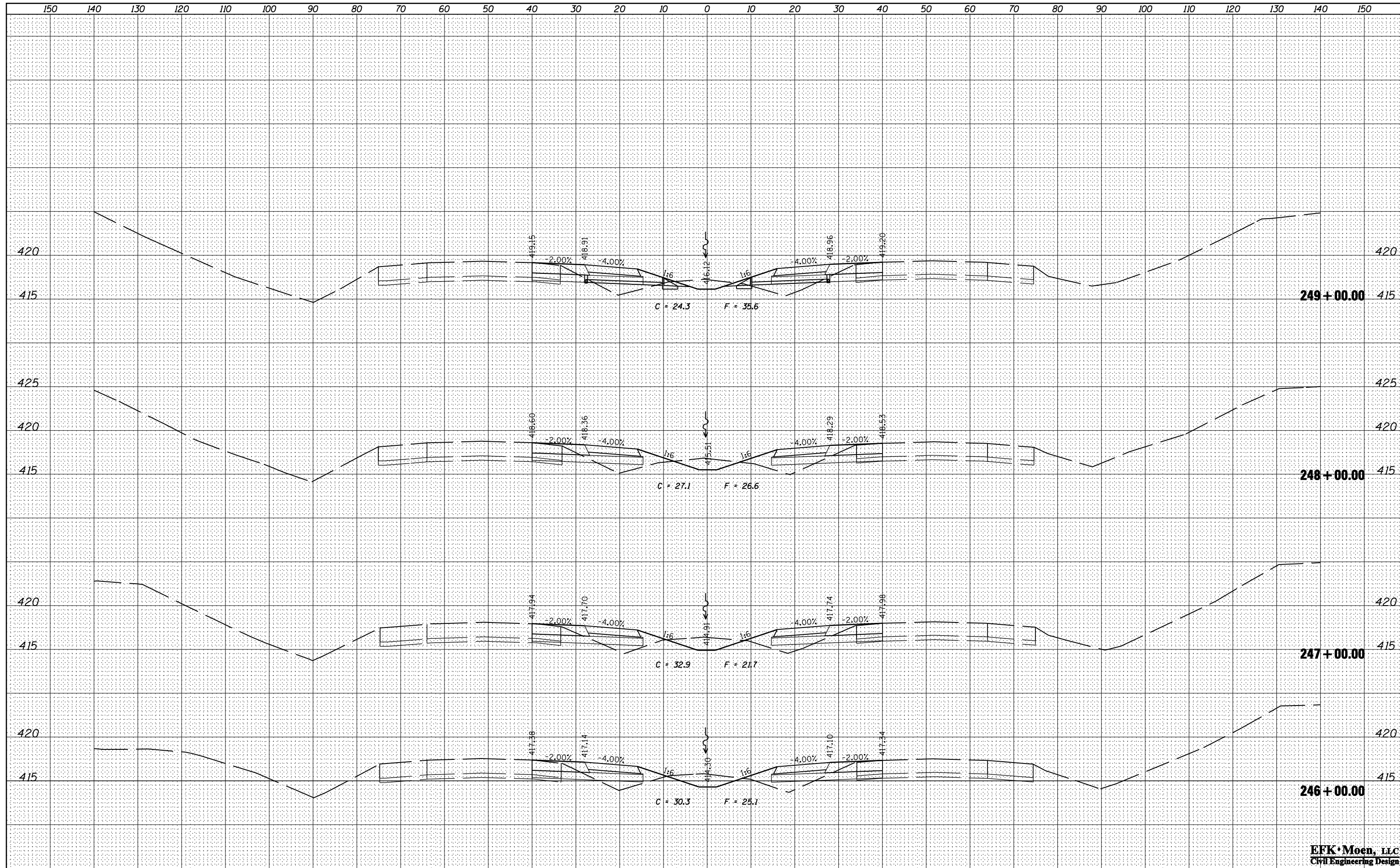
**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
SCALE: 10 H : 5 V SHEET 29 OF 83 SHEETS STA. 241+29.46 TO STA. 245+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	148
CONTRACT NO. 78334			ILLINOIS FED. AID PROJECT	

**EFK Moen, LLC**  
Civil Engineering Design

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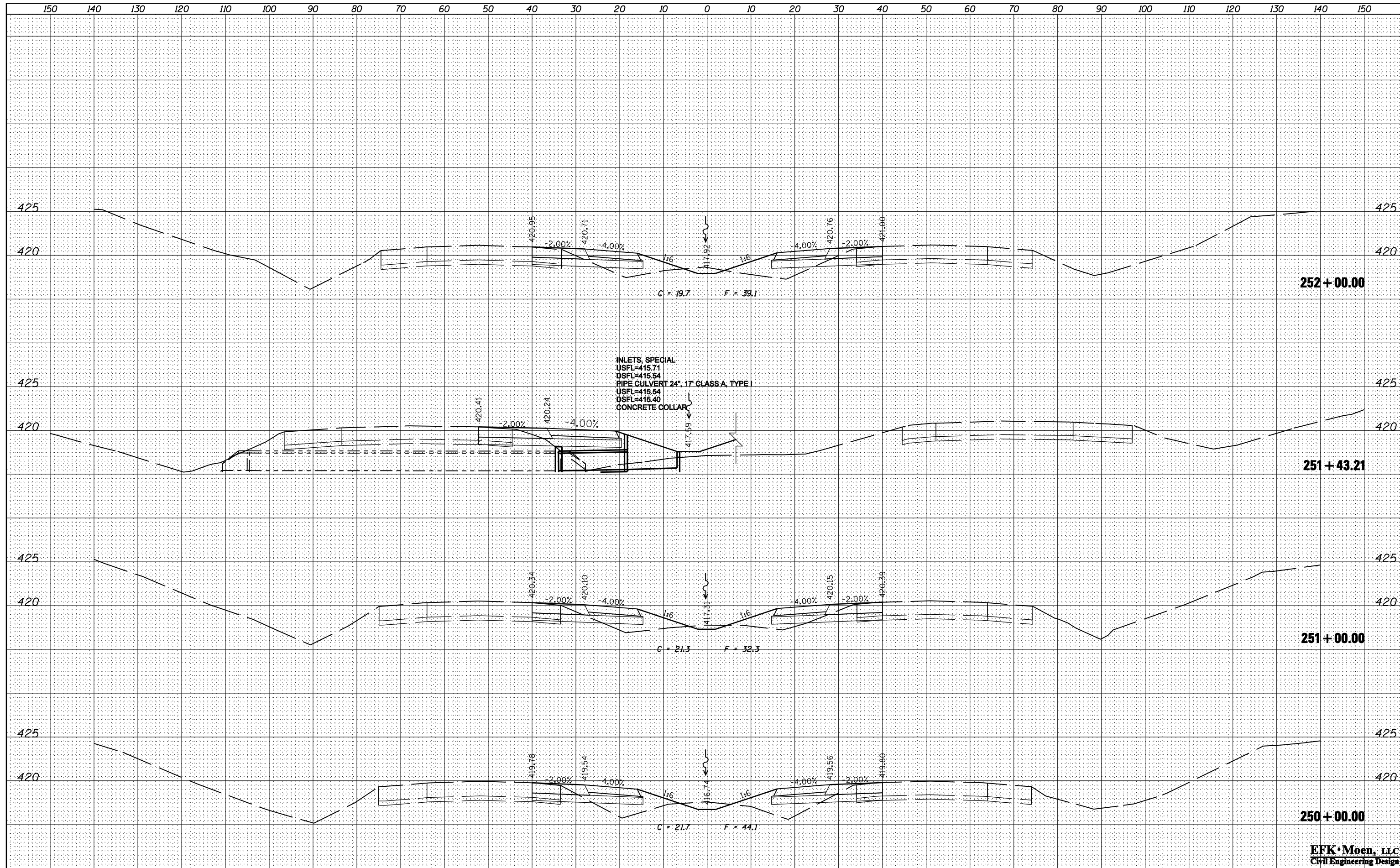
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**EFK Moen, LLC**  
Civil Engineering Design

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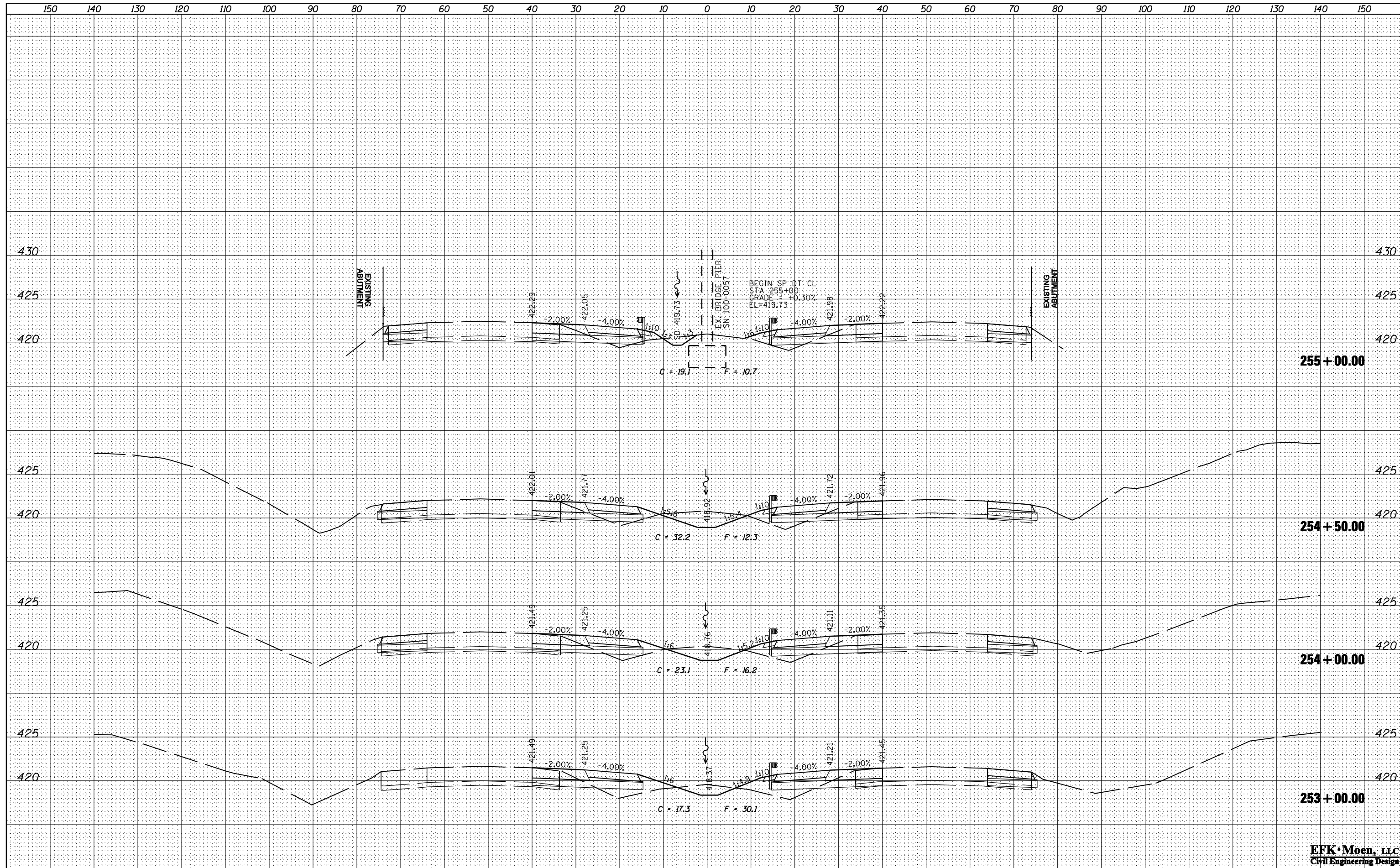
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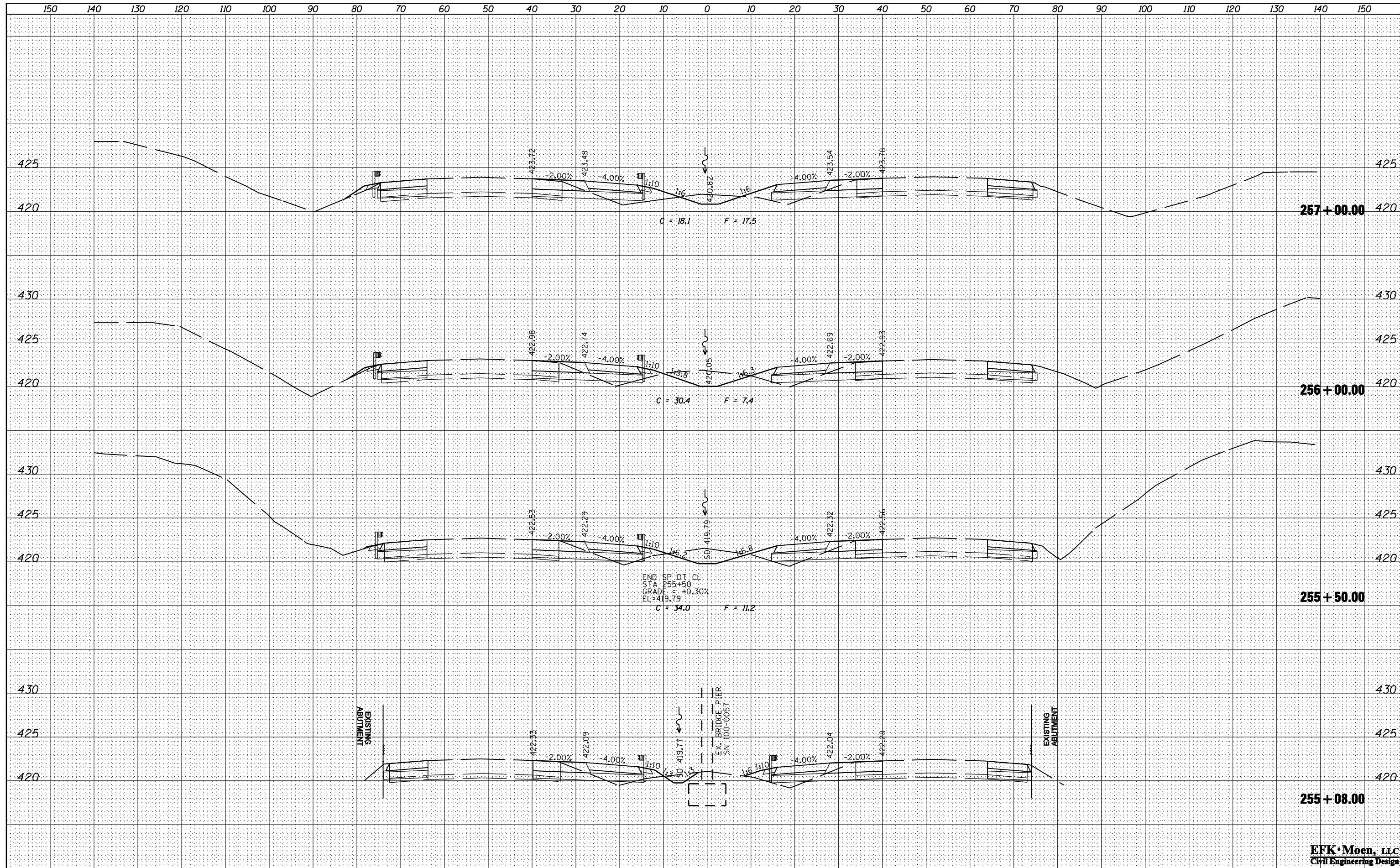


**EFK Moen, LLC**  
Civil Engineering Design

FILE NAME =	USER NAME = \$USER\$	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	151	
PLOT SCALE = \$SCALE\$		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
*MODELNAME\$		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: 10 H : 5 V					SHEET 32 OF 83 SHEETS STA. 253+00.00 TO STA. 255+00.00						

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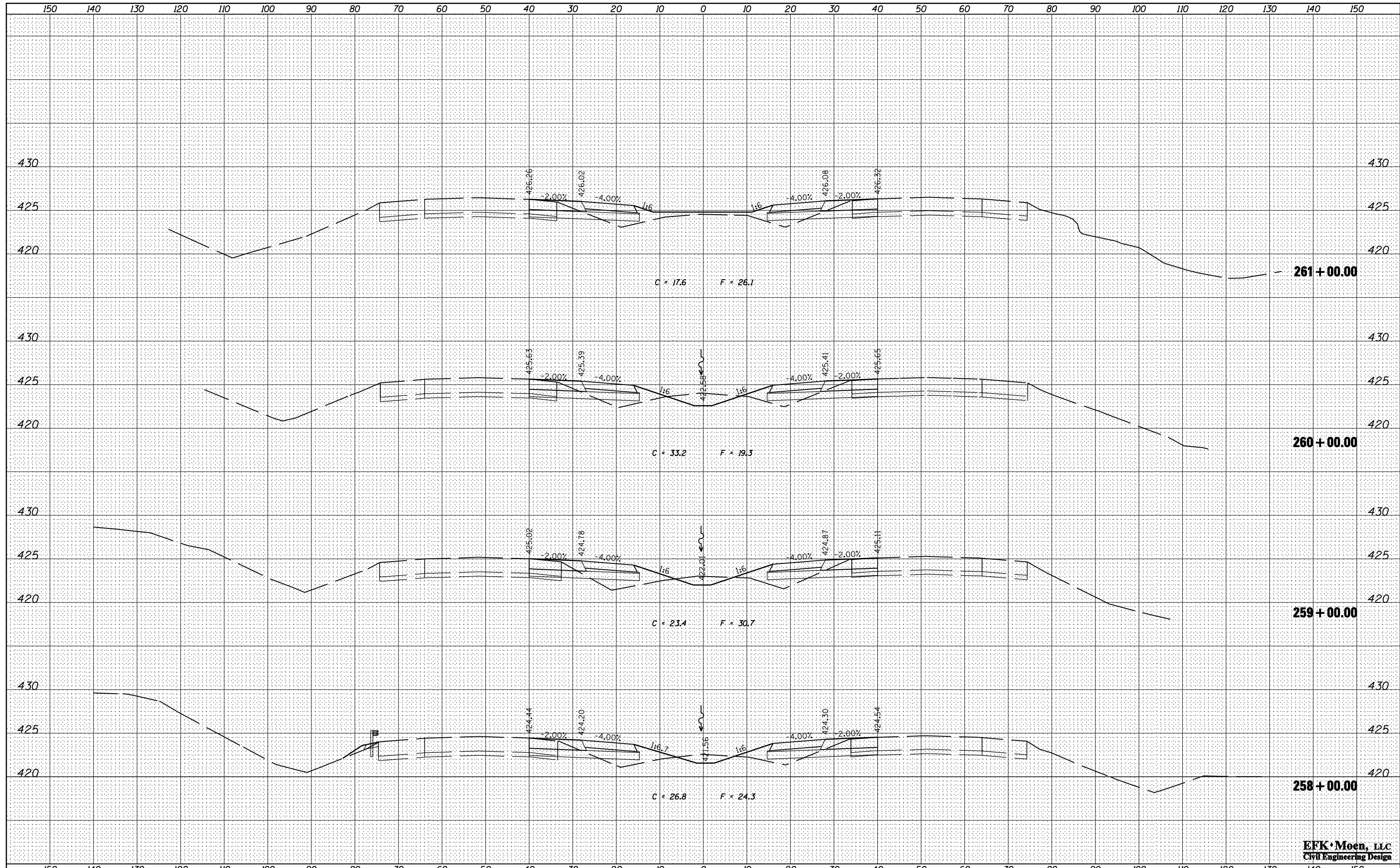
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**EFK Moen, LLC**  
Civil Engineering Design

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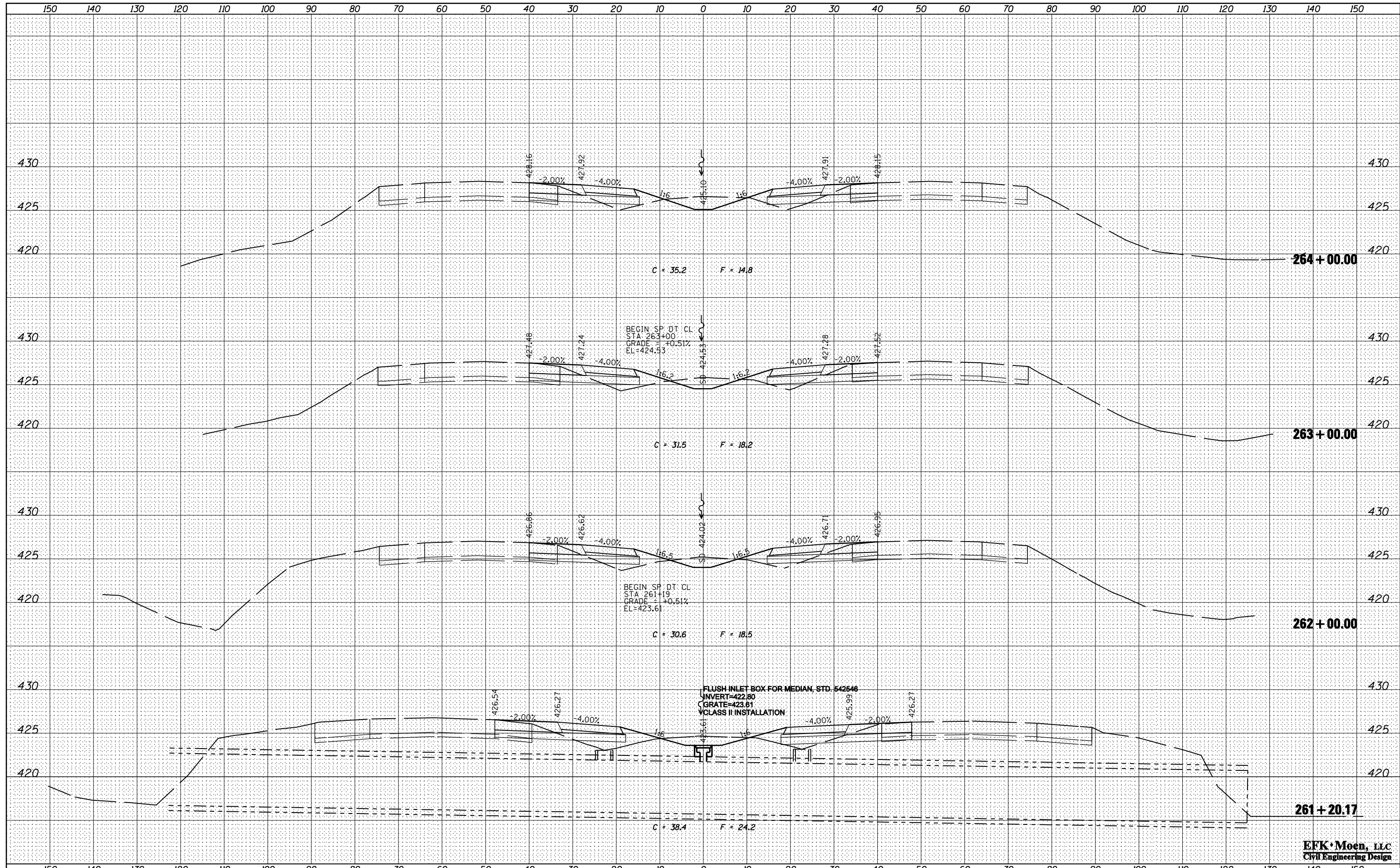


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*FILEL*		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	153	
		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
*MODELNAME*		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: 10 H : 5 V						SHEET 34 OF 83 SHEETS		STA. 258+00.00 TO STA. 261+00.00			

**EFK Moen, LLC**  
Civil Engineering Design

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FILE NAME =	USER NAME = \$USER\$	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL\$	DRAWN - MSK	REVISIED -	57			(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	154	
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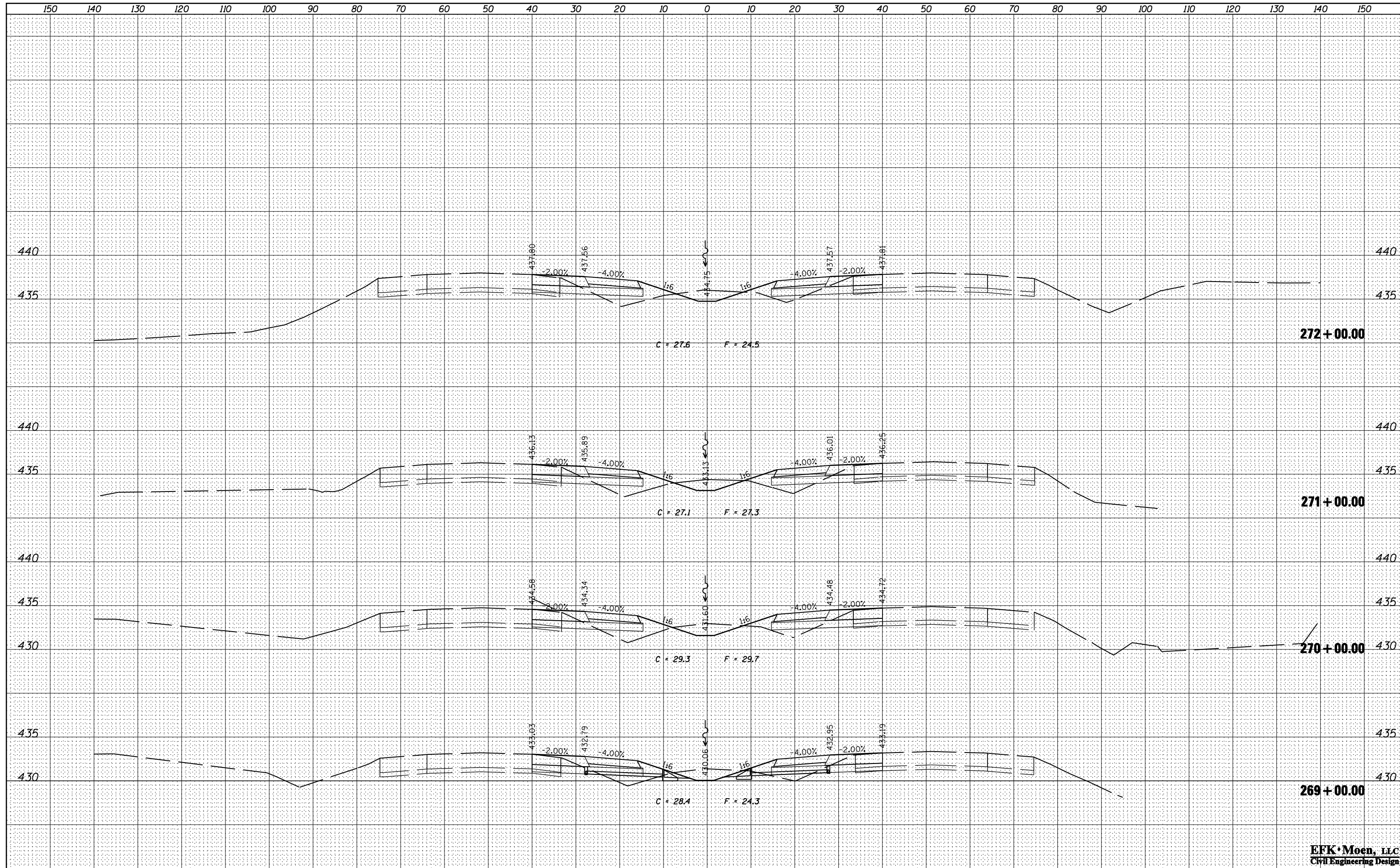
**EFK Moen, LLC**  
Civil Engineering Design

SCALE: 10 H : 5 V SHEET 35 OF 83 SHEETS STA. 261+19.14 TO STA. 264+00.00



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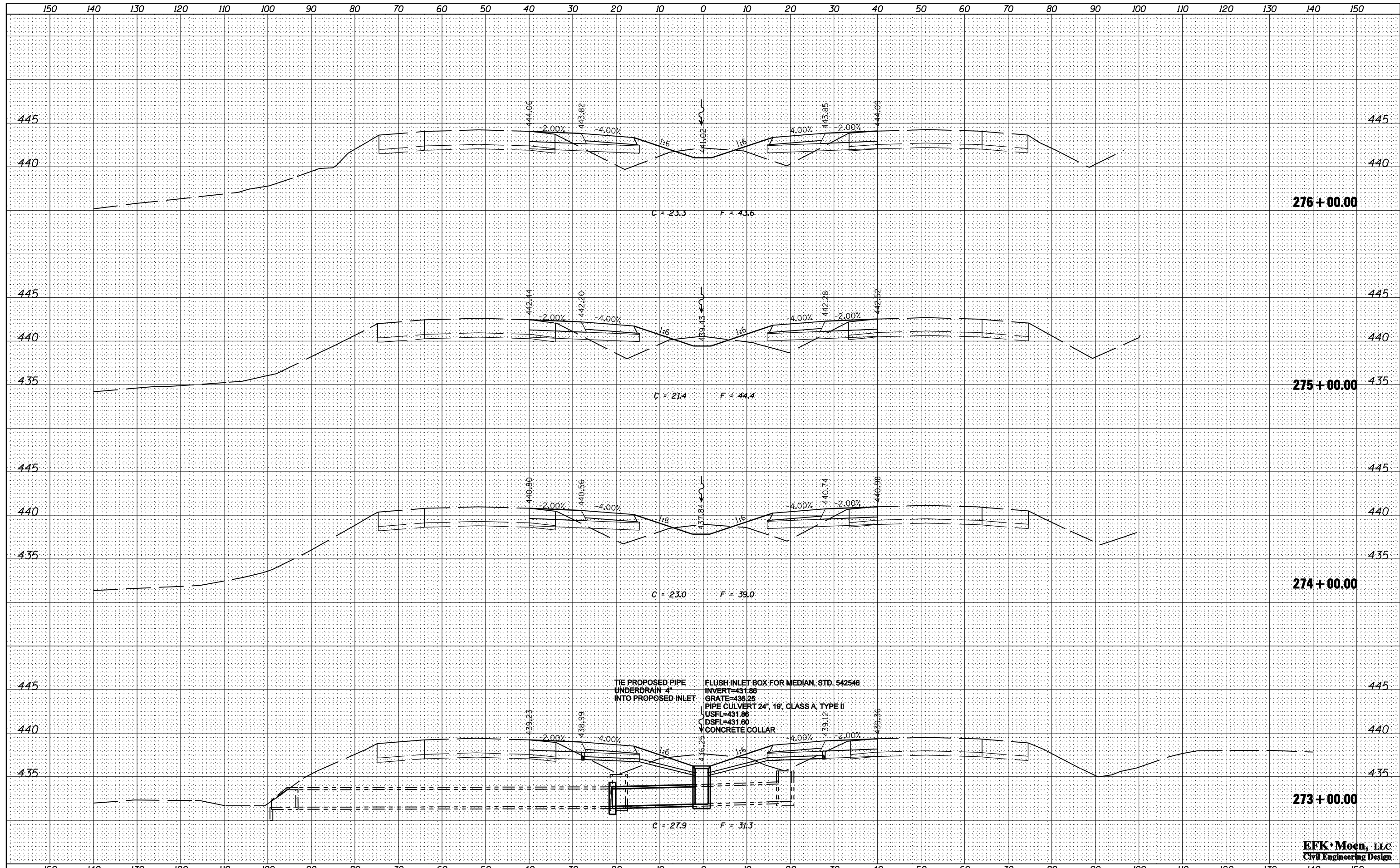
**EFK Moen, LLC**  
Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*	DRAWN - MSK	REVISIED -	57			XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	156	
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	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				

SCALE: 10 H : 5 V SHEET 37 OF 83 SHEETS STA. 269+00.00 TO STA. 272+00.00

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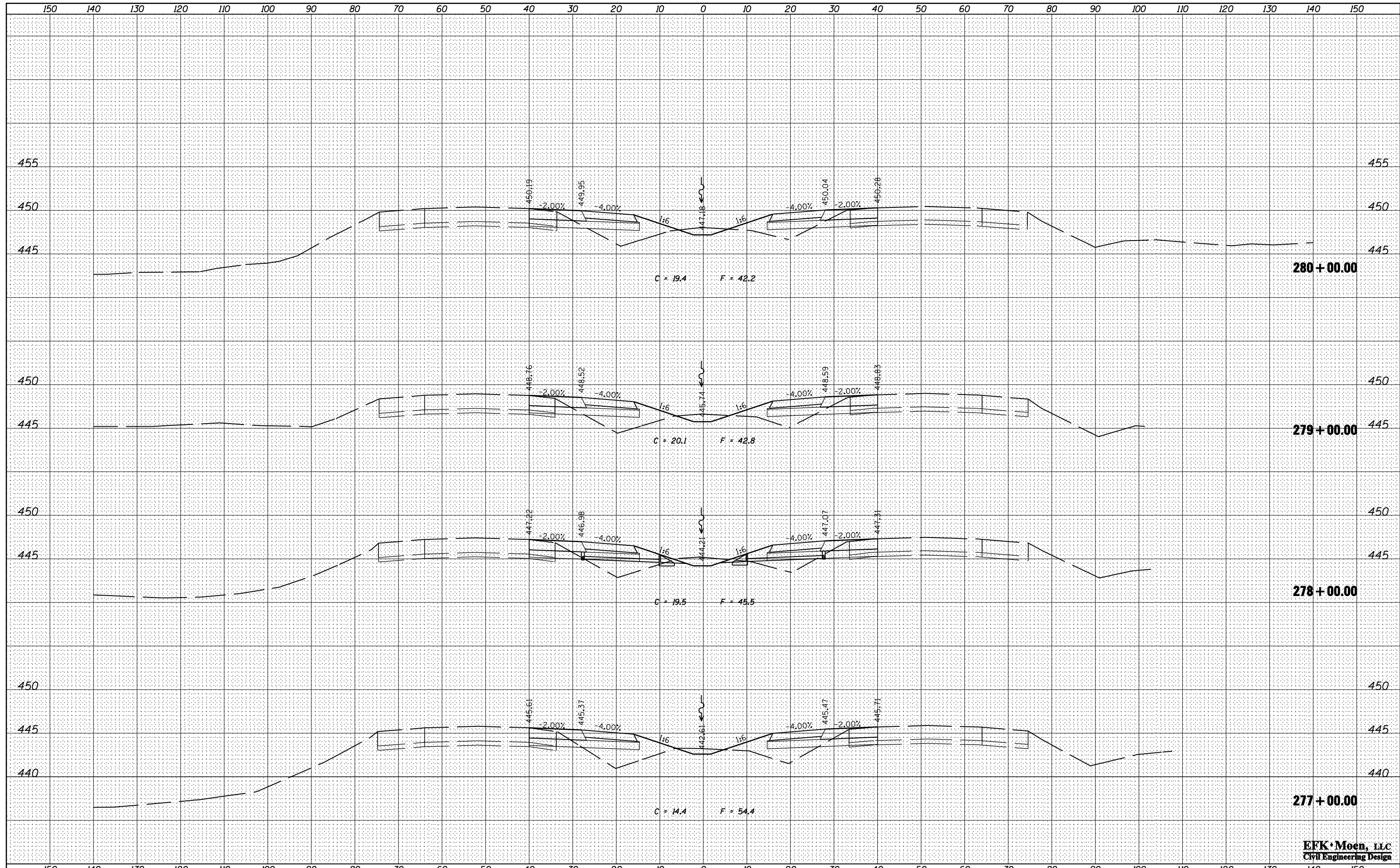
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 Civil Engineering Design

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FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*	DRAWN - MSK	REVISED -	57			XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	158	
*MODELNAME*	PLOT SCALE = *SCALE*	CHECKED - SLD	REVISED -			CONTRACT NO. 78334				
	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT				

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Civil Engineering Design

SCALE: 10 H : 5 V SHEET 39 OF 83 SHEETS STA. 277+00.00 TO STA. 280+00.00

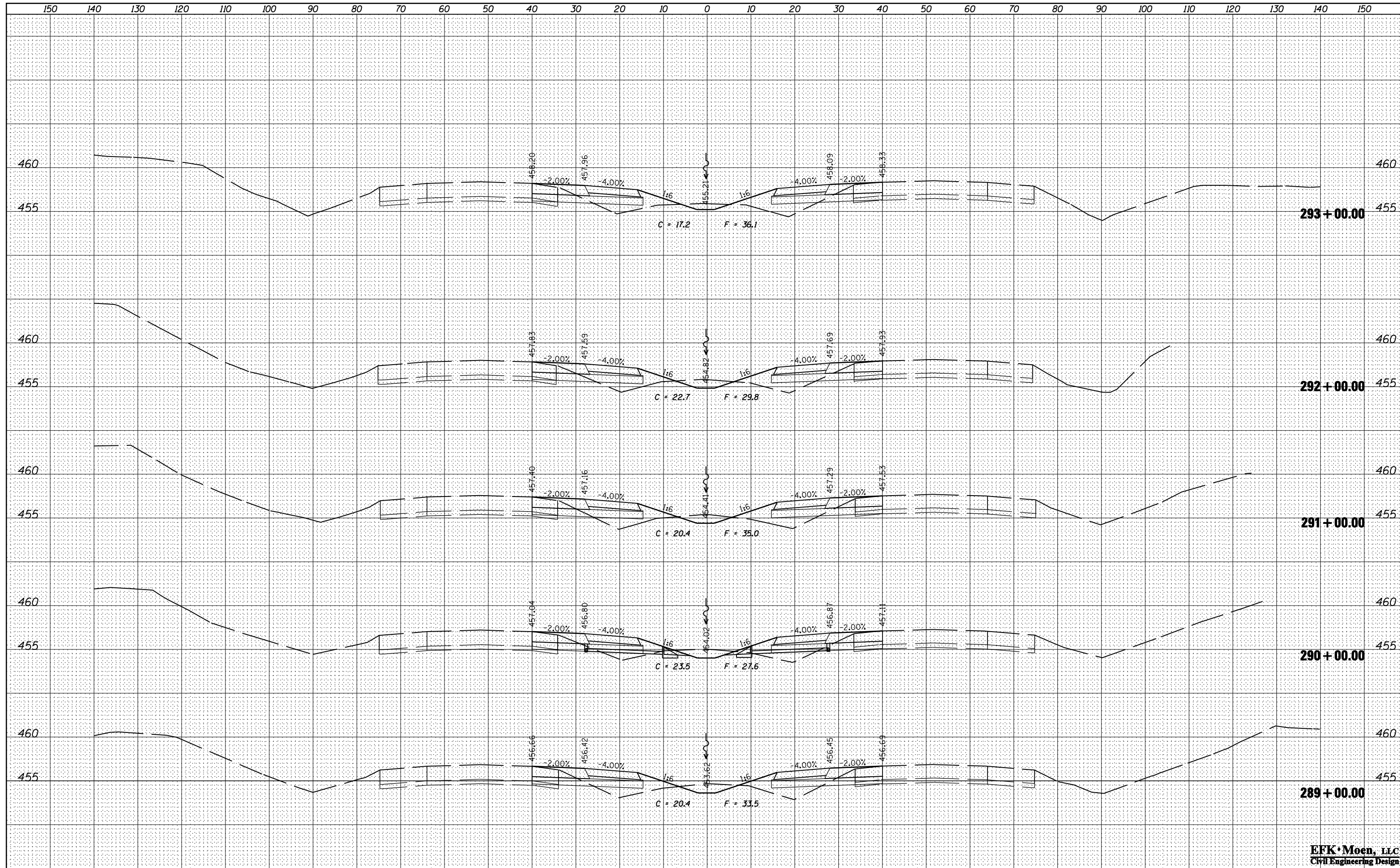






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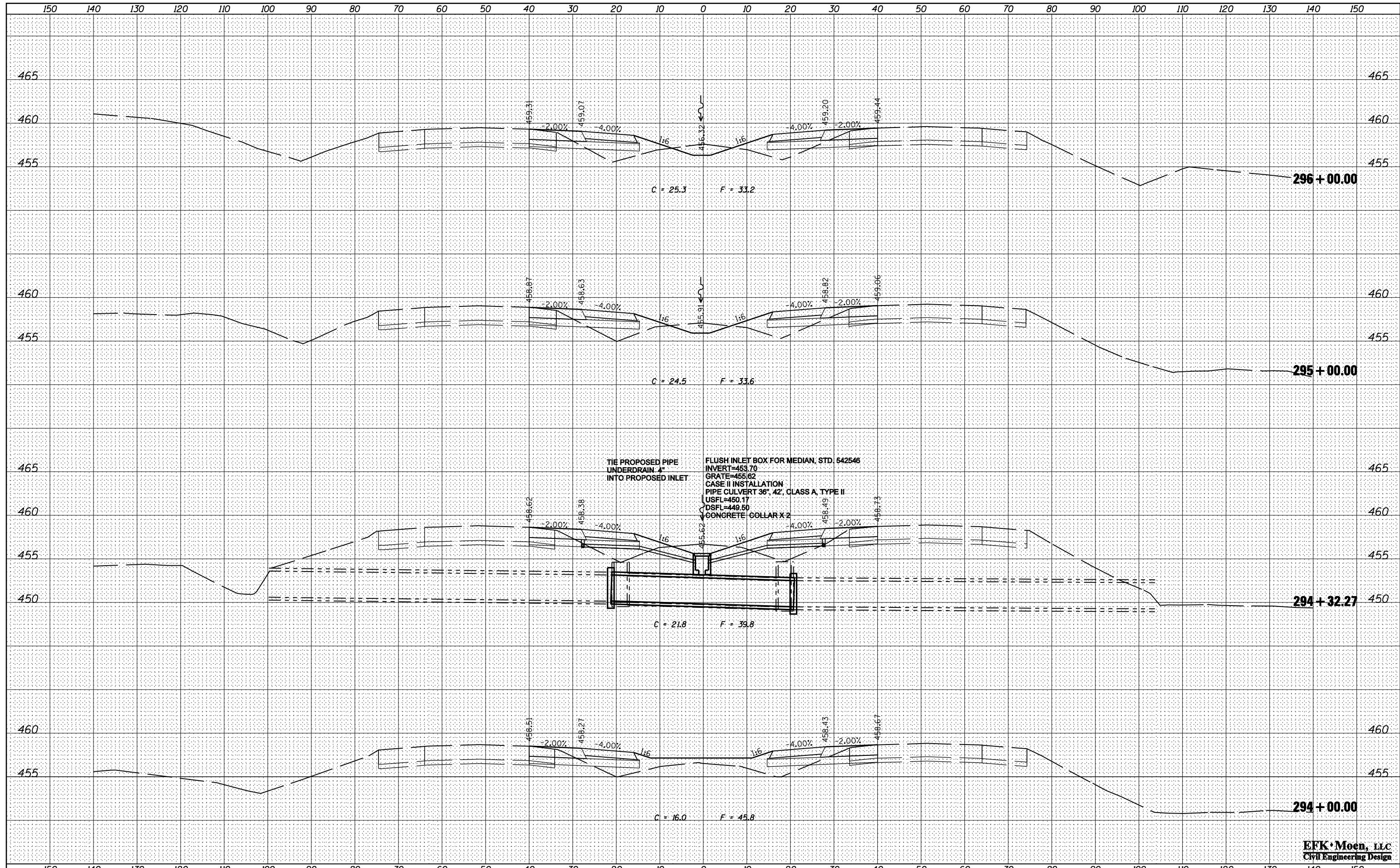
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**EFK Moen, LLC**  
Civil Engineering Design

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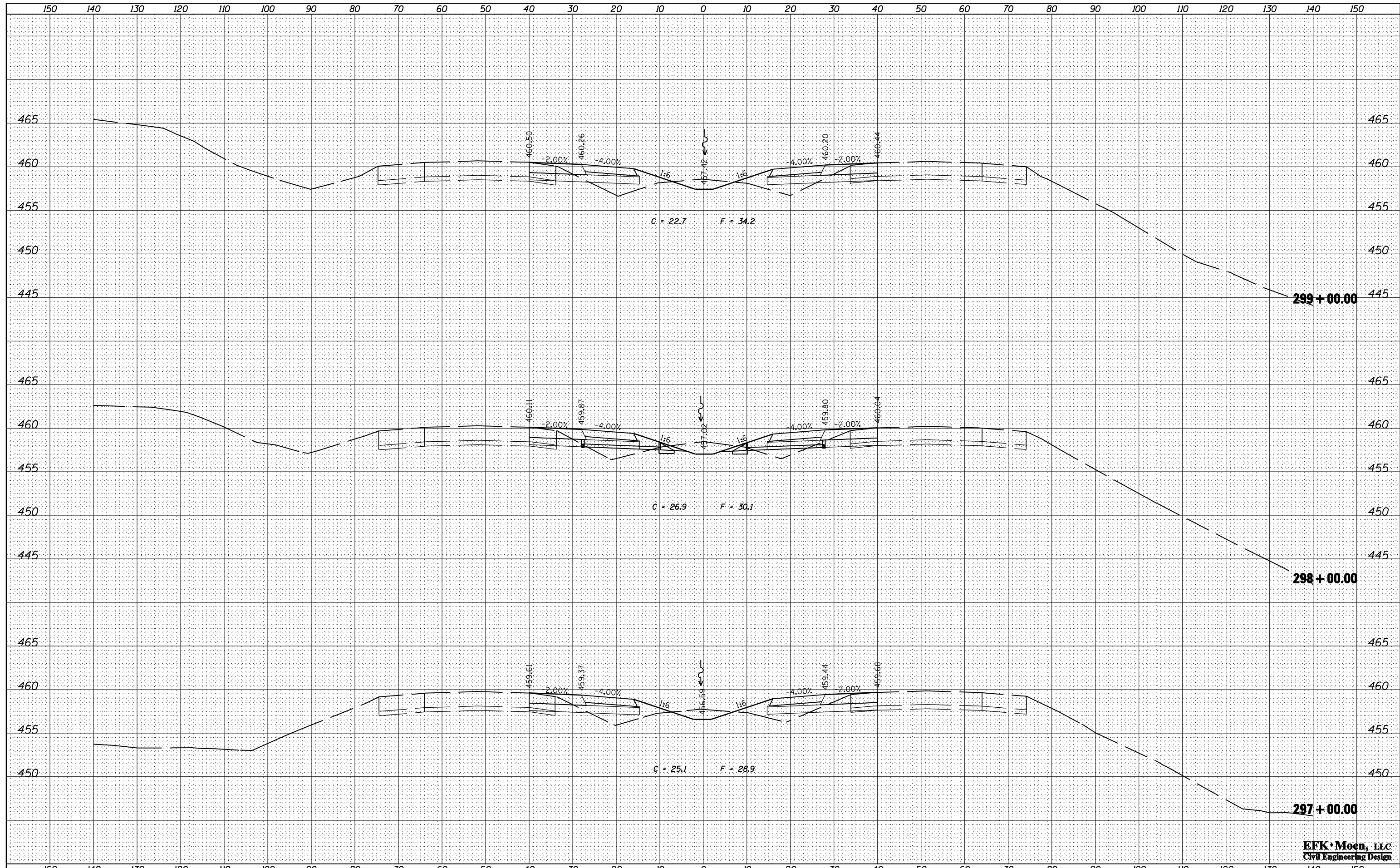


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*FILEL*		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	162	
*MODELNAME*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 10 H : 5 V SHEET 43 OF 83 SHEETS STA. 294+00.00 TO STA. 296+00.00						

**EFK Moen, LLC**  
Civil Engineering Design

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**EFK Moen, LLC**  
Civil Engineering Design

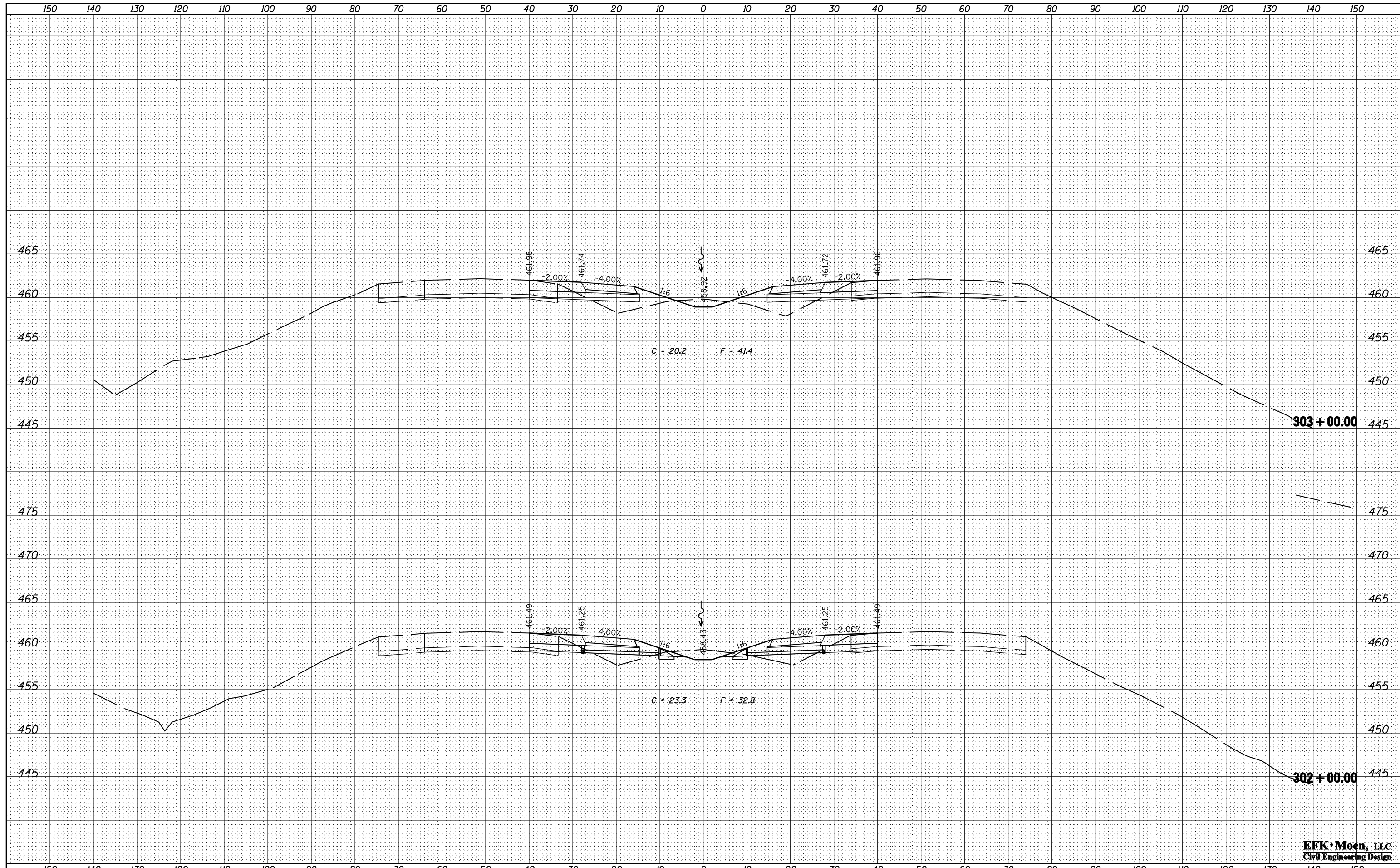
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*FILEL*	DRAWN - MSK	REVISIED -	57			(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	163	
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	PLLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				

SCALE: 10 H : 5 V SHEET 44 OF 83 SHEETS STA. 297+00.00 TO STA. 299+00.00



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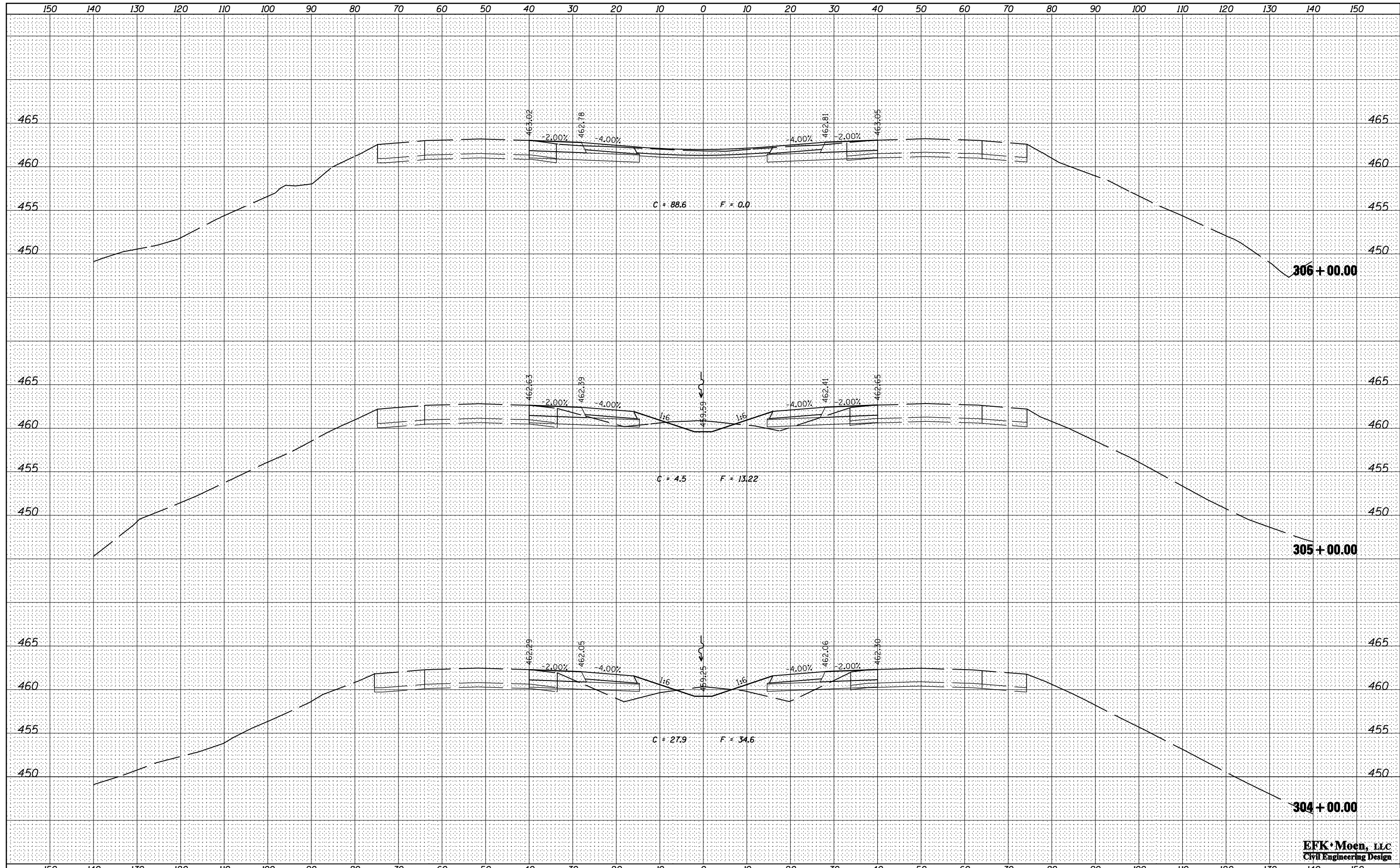


FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b> SCALE: 10 H : 5 V SHEET 46 OF 83 SHEETS STA. 302+00.00 TO STA. 303+00.00	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*	DRAWN - MSK	REVISIED -	57			(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	165	
*MODELNAME*	PLOT SCALE = *SCALE*	CHECKED - SLD	REVISIED -			CONTRACT NO. 78334				
	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				

**EFK Moen, LLC**  
Civil Engineering Design

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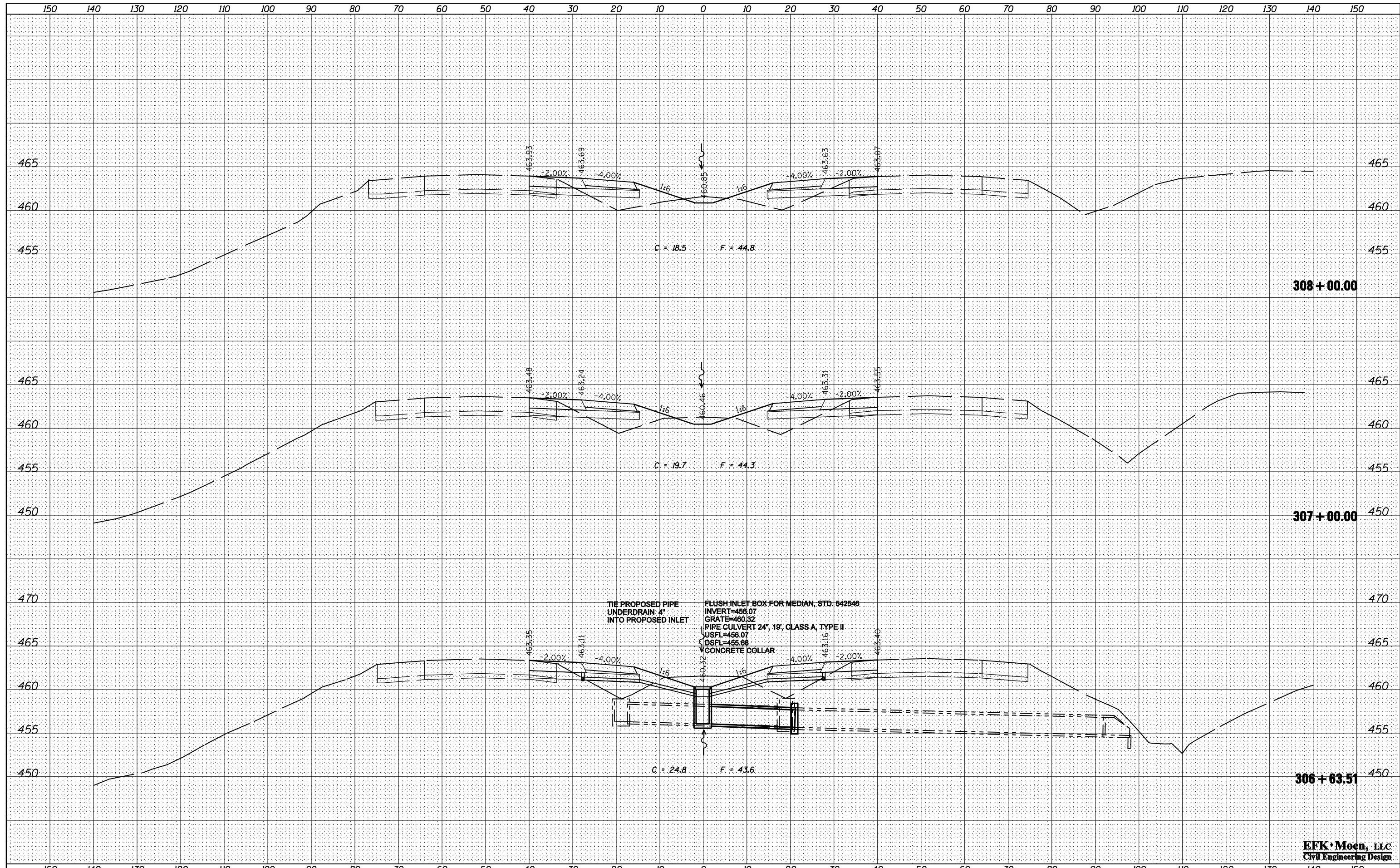
**EFK Moen, LLC**  
Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
*FILEL*		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	166					
*MODELNAME*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334									
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT									
SCALE: 10 H : 5 V						SHEET 47 OF 83 SHEETS					STA. 304+00.00 TO STA. 306+00.00				



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

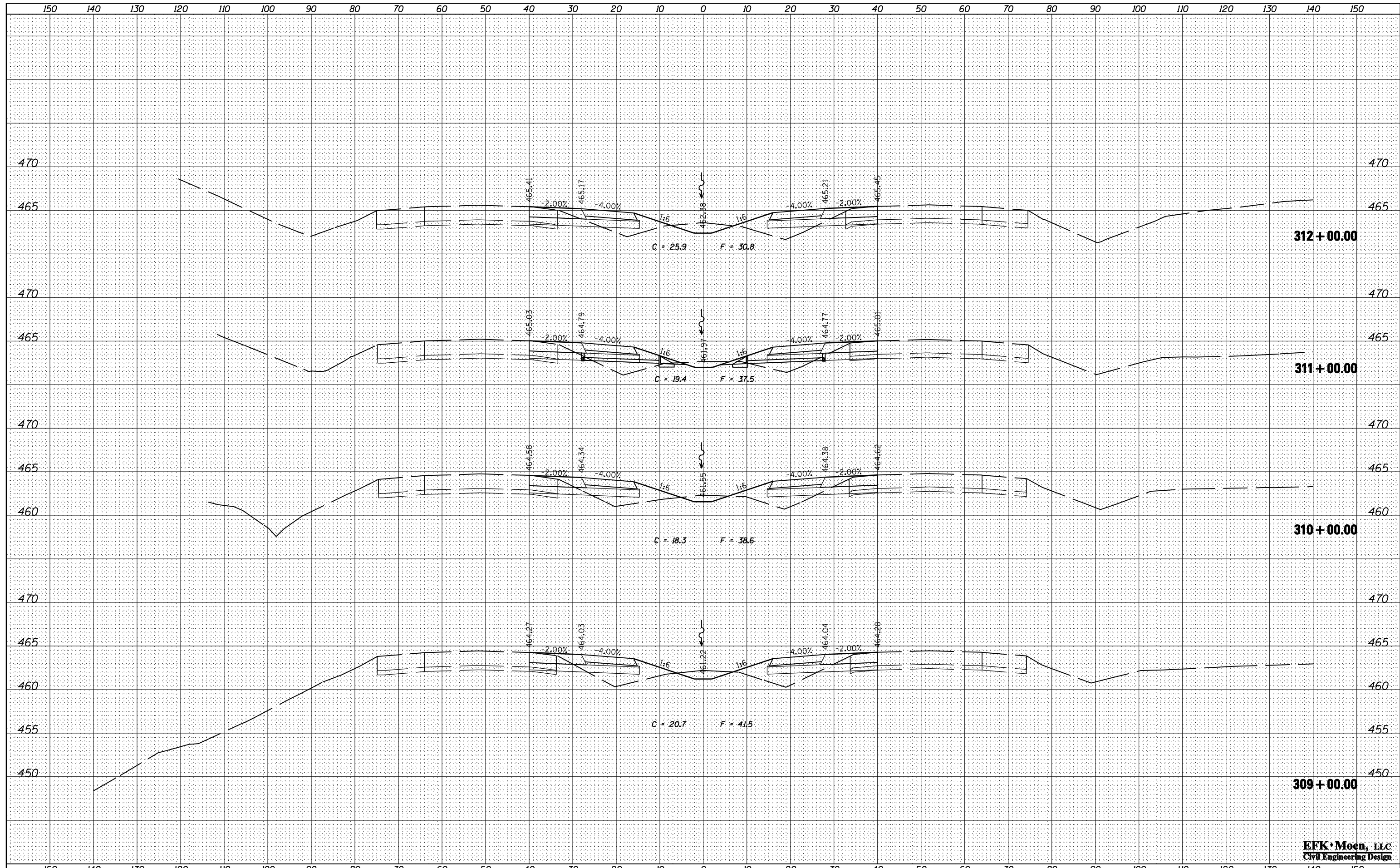
**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
 SCALE: 10 H : 5 V SHEET 48 OF 83 SHEETS STA. 306+64.14 TO STA. 308+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	167
			CONTRACT NO. 78334	
ILLINOIS FED. AID PROJECT				

**EFK Moen, LLC**  
 Civil Engineering Design

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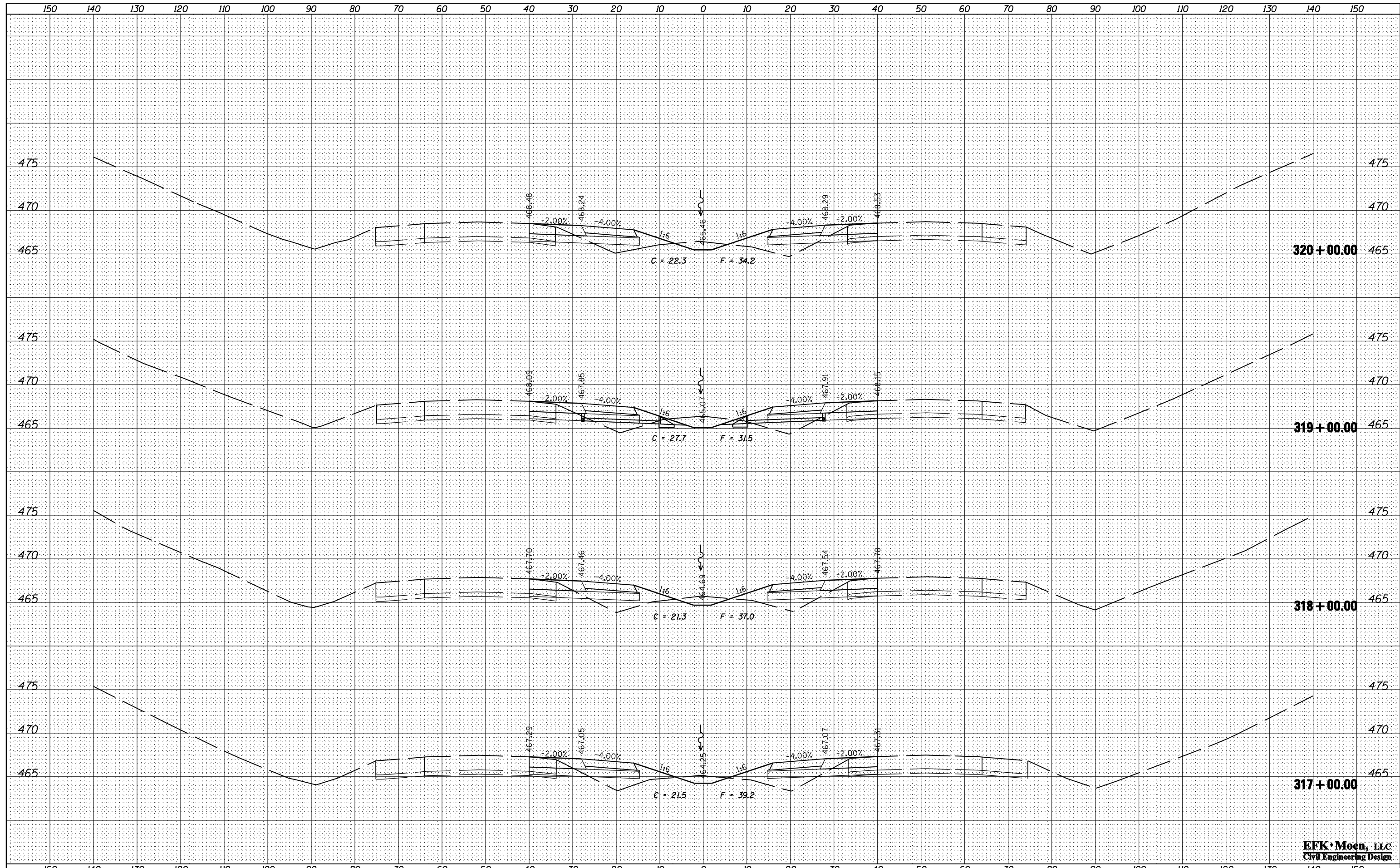


**EFK Moen, LLC**  
Civil Engineering Design



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**EFK Moen, LLC**  
Civil Engineering Design

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

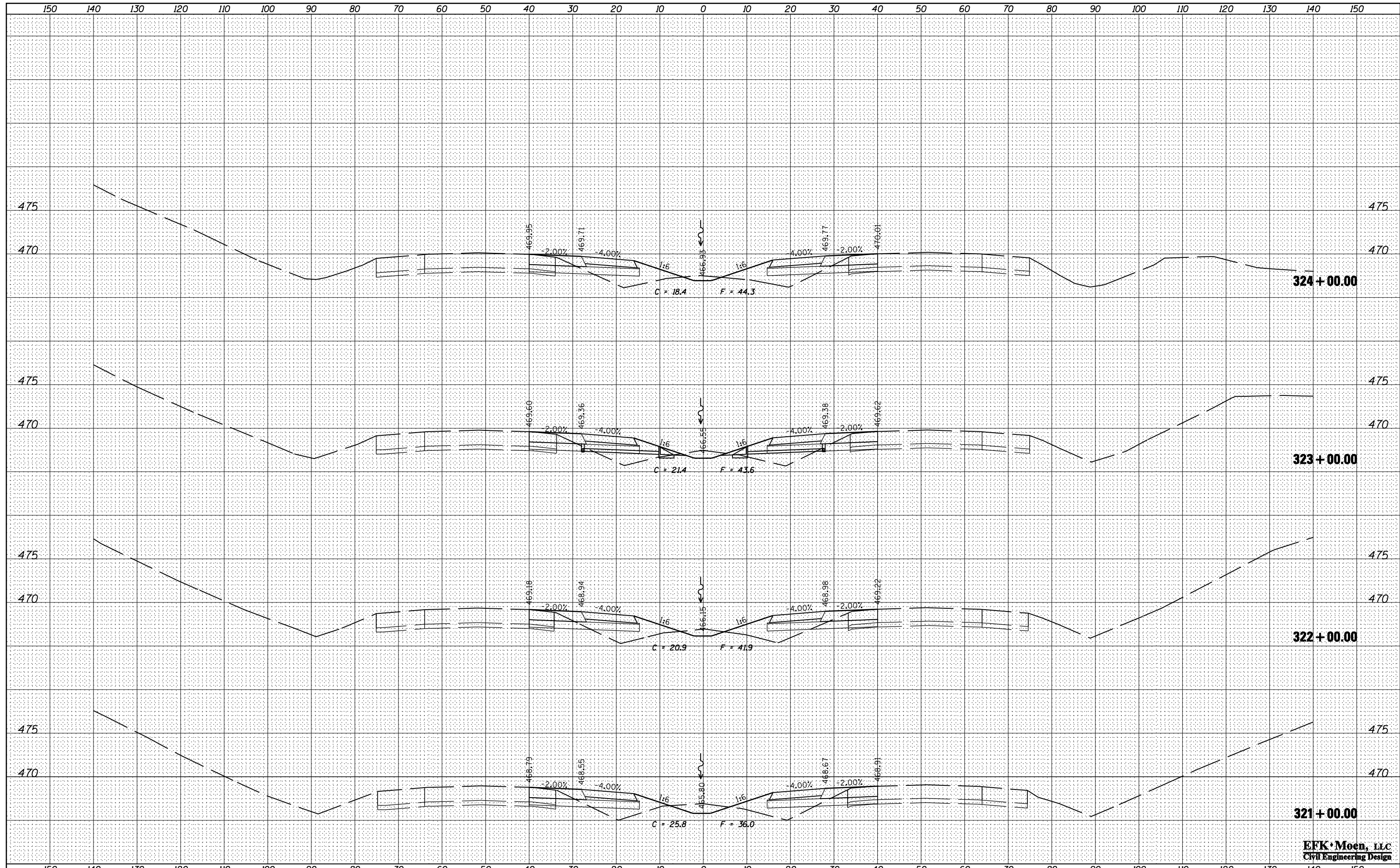
**FAI ROUTE 57 (I-57) CROSS SECTIONS**

SCALE: 10 H : 5 V SHEET 51 OF 83 SHEETS STA. 317+00.00 TO STA. 320+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	170
CONTRACT NO. 78334				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

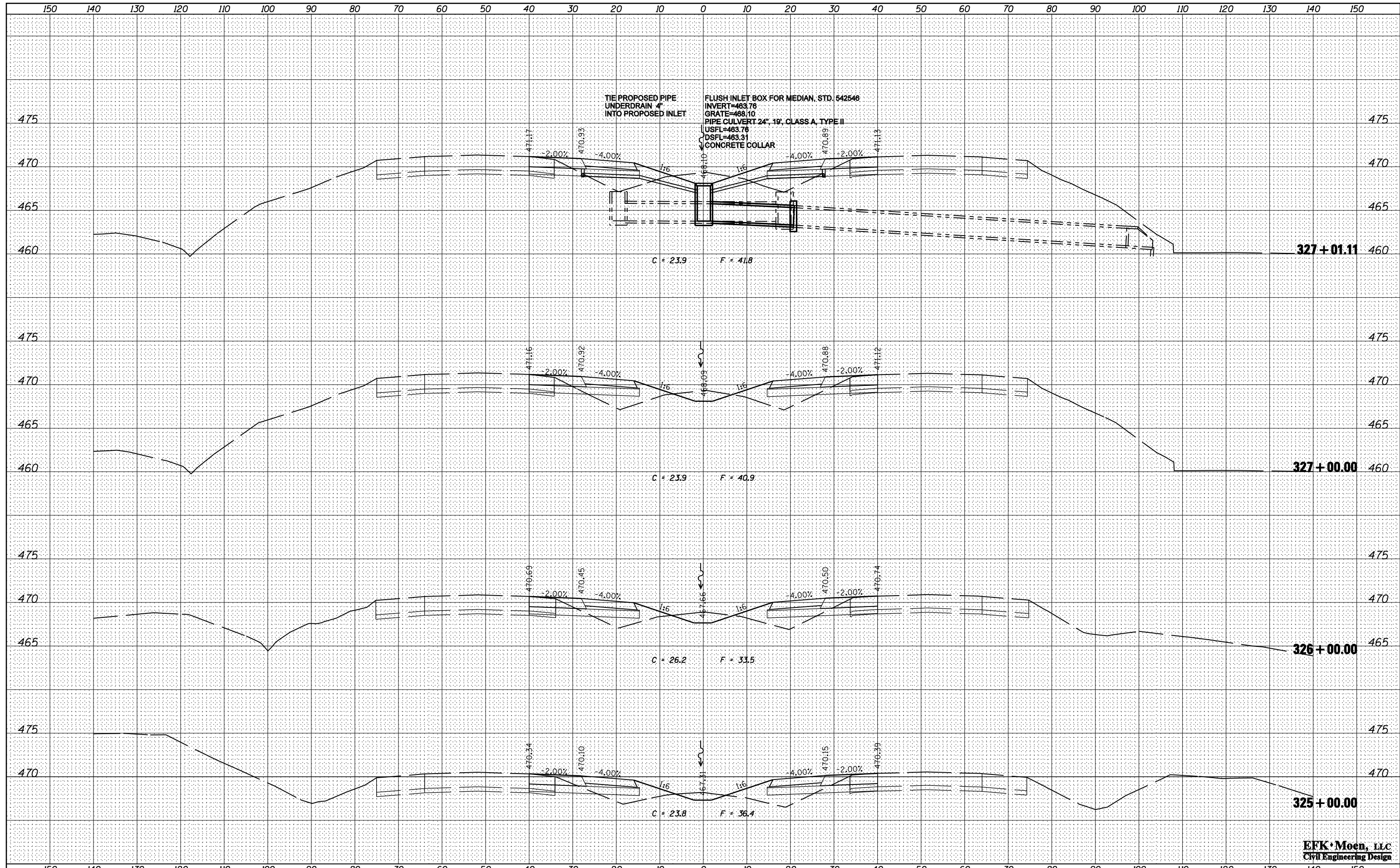
**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
 SCALE: 10 H : 5 V SHEET 52 OF 83 SHEETS STA. 321+00.00 TO STA. 324+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	171
CONTRACT NO. 78334			ILLINOIS FED. AID PROJECT	

**EFK Moen, LLC**  
 Civil Engineering Design

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FINAL SURVEY	
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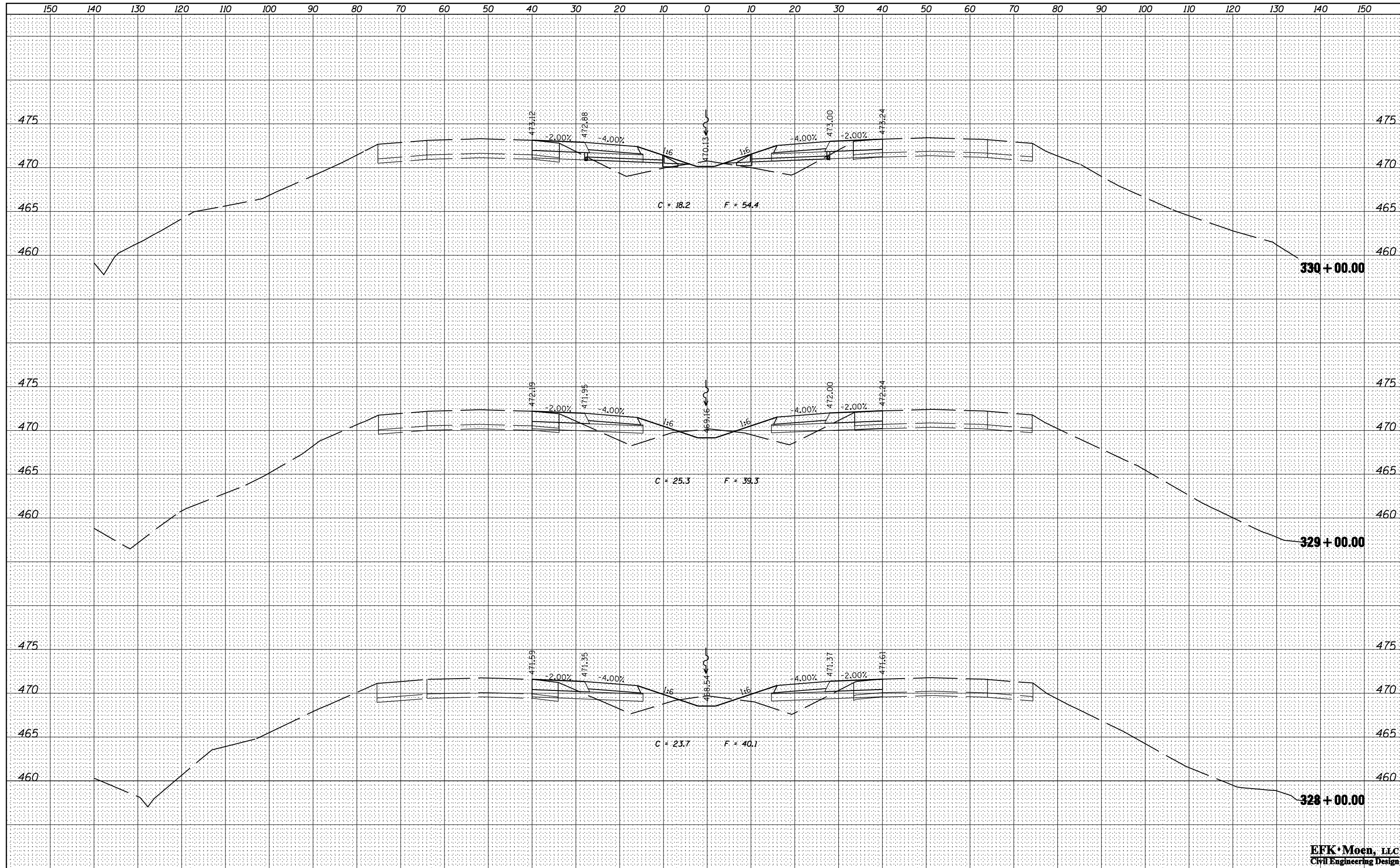


**EFK Moen, LLC**  
 Civil Engineering Design

FILE NAME =	USER NAME = \$USER\$	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	172	
*MODELNAME\$		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 10 H : 5 V	SHEET 53 OF 83 SHEETS	STA. 325+00.00 TO STA. 327+01.64				

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**EFK Moen, LLC**  
Civil Engineering Design

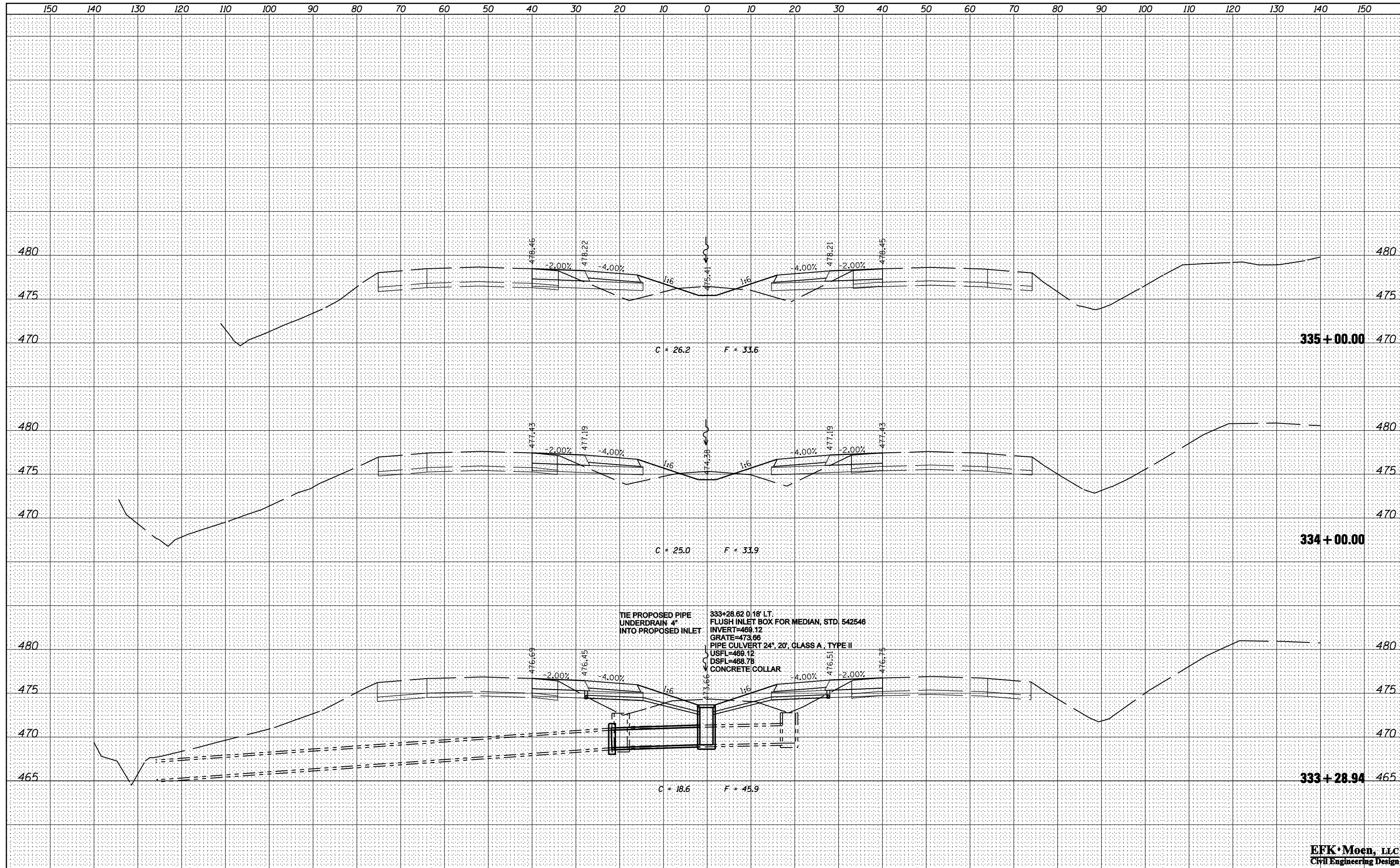
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*FILEL*	DRAWN - MSK	REVISIED -	57			(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	173	
*MODELNAME*	PLLOT SCALE = *SCALE*	CHECKED - SLD	REVISIED -			CONTRACT NO. 78334				
	PLLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				
SCALE: 10 H : 5 V						SHEET 54 OF 83 SHEETS		STA. 328+00.00 TO STA. 330+00.00		





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TIE PROPOSED PIPE UNDERDRAIN 4" INTO PROPOSED INLET

333+28.62 0.18' LT. FLUSH INLET BOX FOR MEDIAN, STD 542546  
 INVERT=469.12  
 GRATE=473.66  
 PIPE CULVERT 24", 20', CLASS A, TYPE II  
 USFL=469.12  
 DSFL=468.78  
 CONCRETE COLLAR

FILE NAME =  
 \*FILEL\*  
 \*MODELNAME\*

USER NAME = \*USER\*  
 DESIGNED - JRD  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

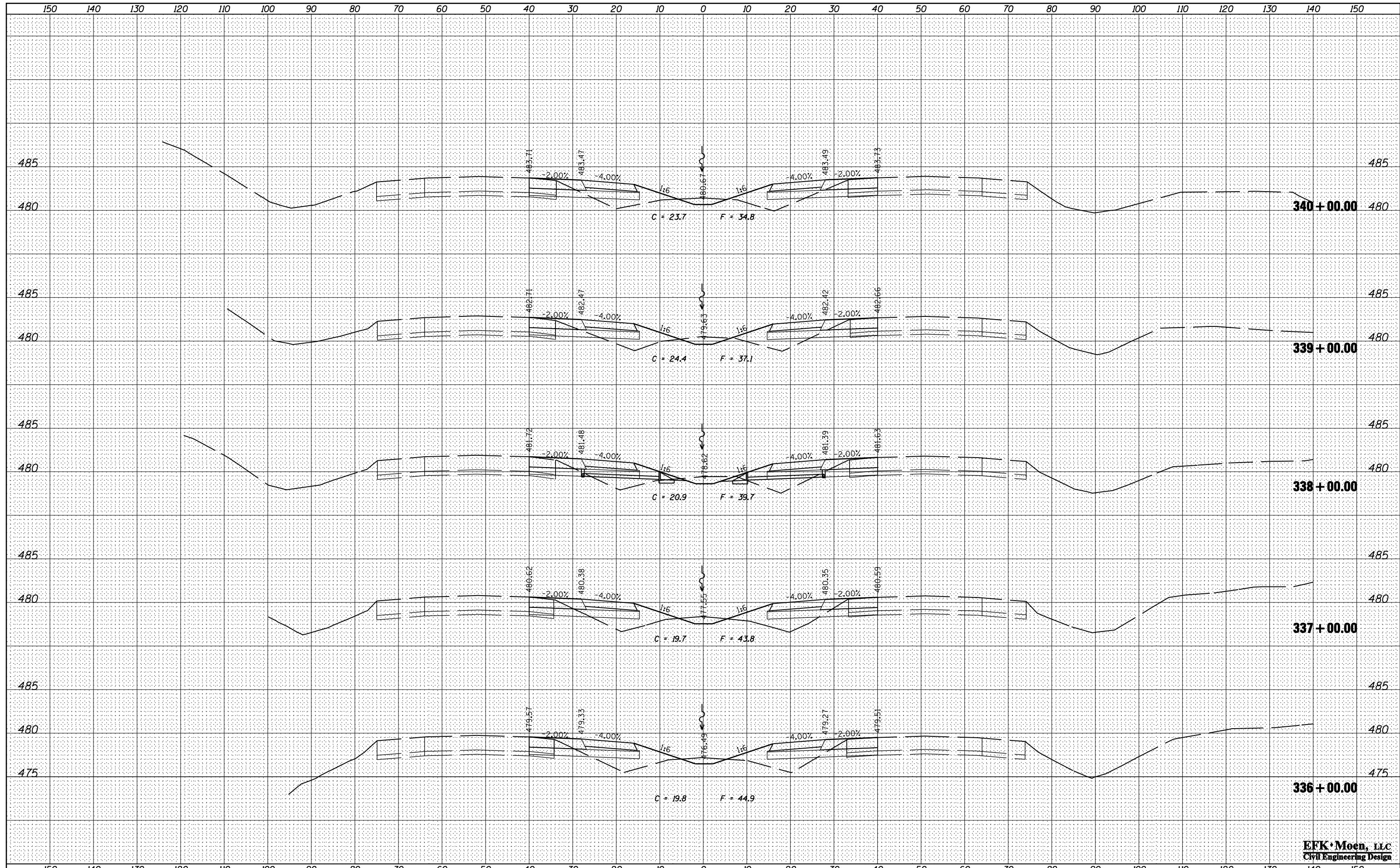
**FAI ROUTE 57 (I-57) CROSS SECTIONS**  
 SCALE: 10 H : 5 V SHEET 56 OF 83 SHEETS STA. 333+28.63 TO STA. 335+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	175
CONTRACT NO. 78334			ILLINOIS FED. AID PROJECT	

**EFK Moen, LLC**  
 Civil Engineering Design

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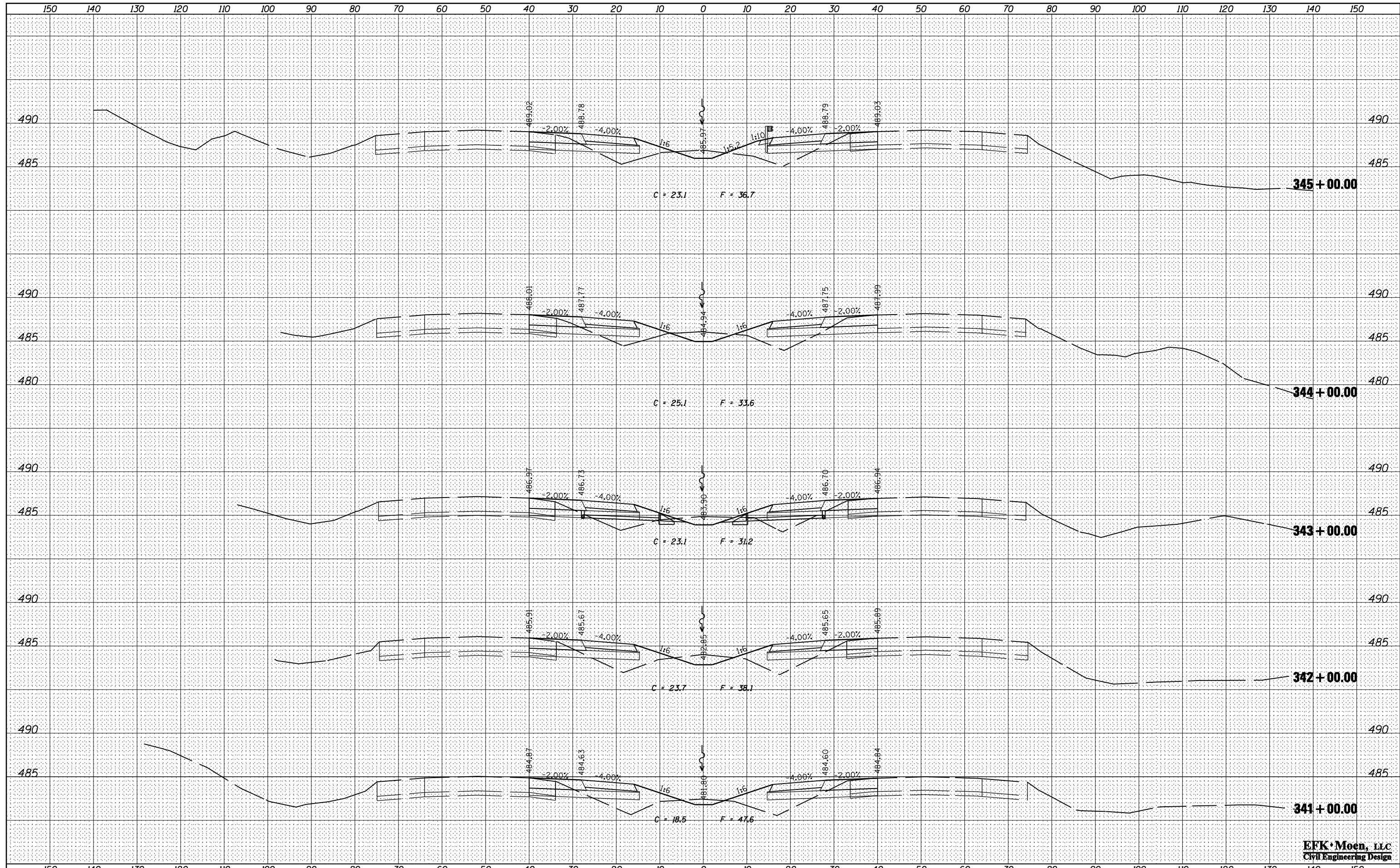
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**EFK Moen, LLC**  
Civil Engineering Design

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**EFK Moen, LLC**  
Civil Engineering Design

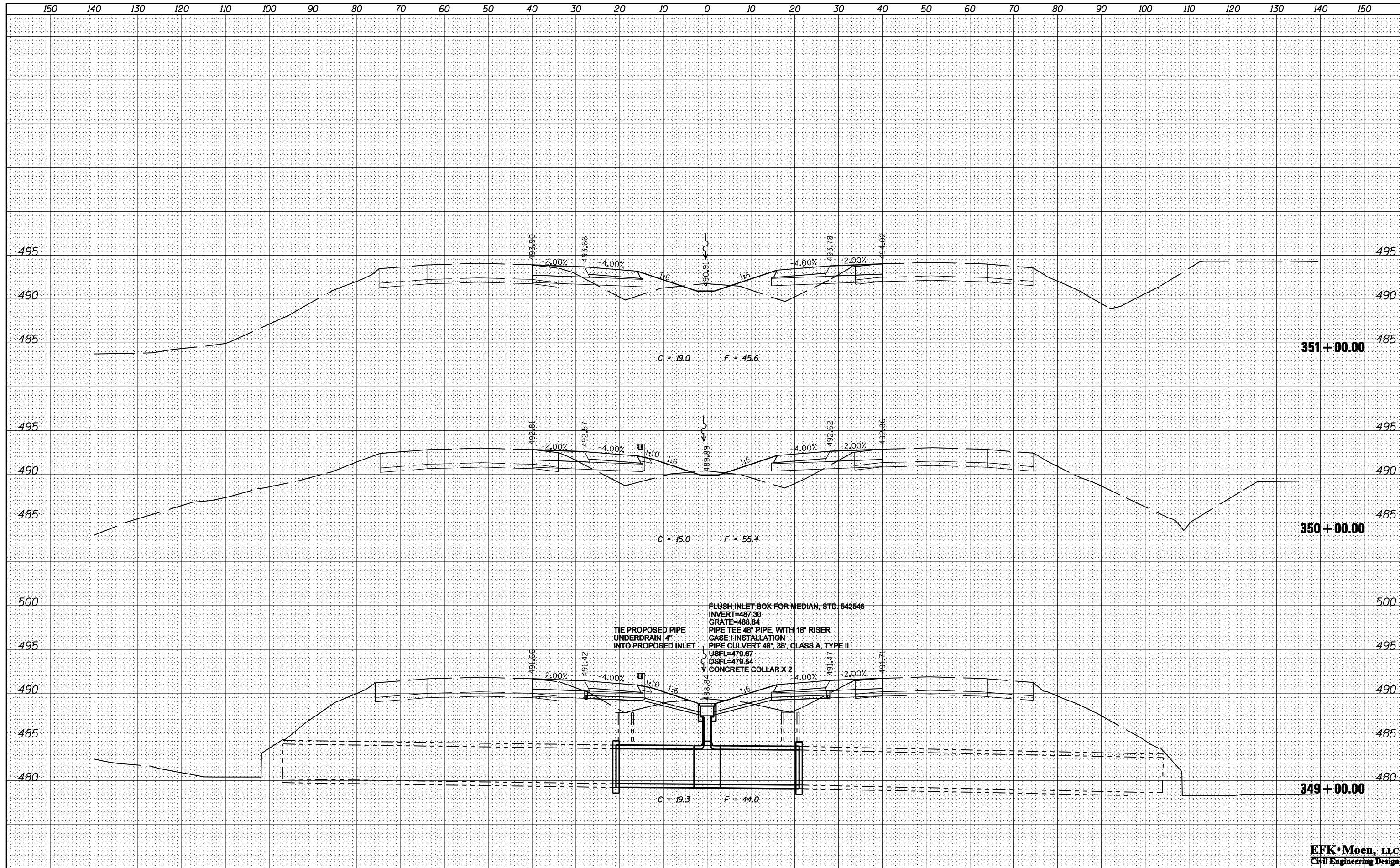
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*FILEL*		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	177	
		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
*MODELNAME*		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 10 H : 5 V SHEET 58 OF 83 SHEETS STA. 341+00.00 TO STA. 345+00.00



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NOTE BOOK	PLOTTED
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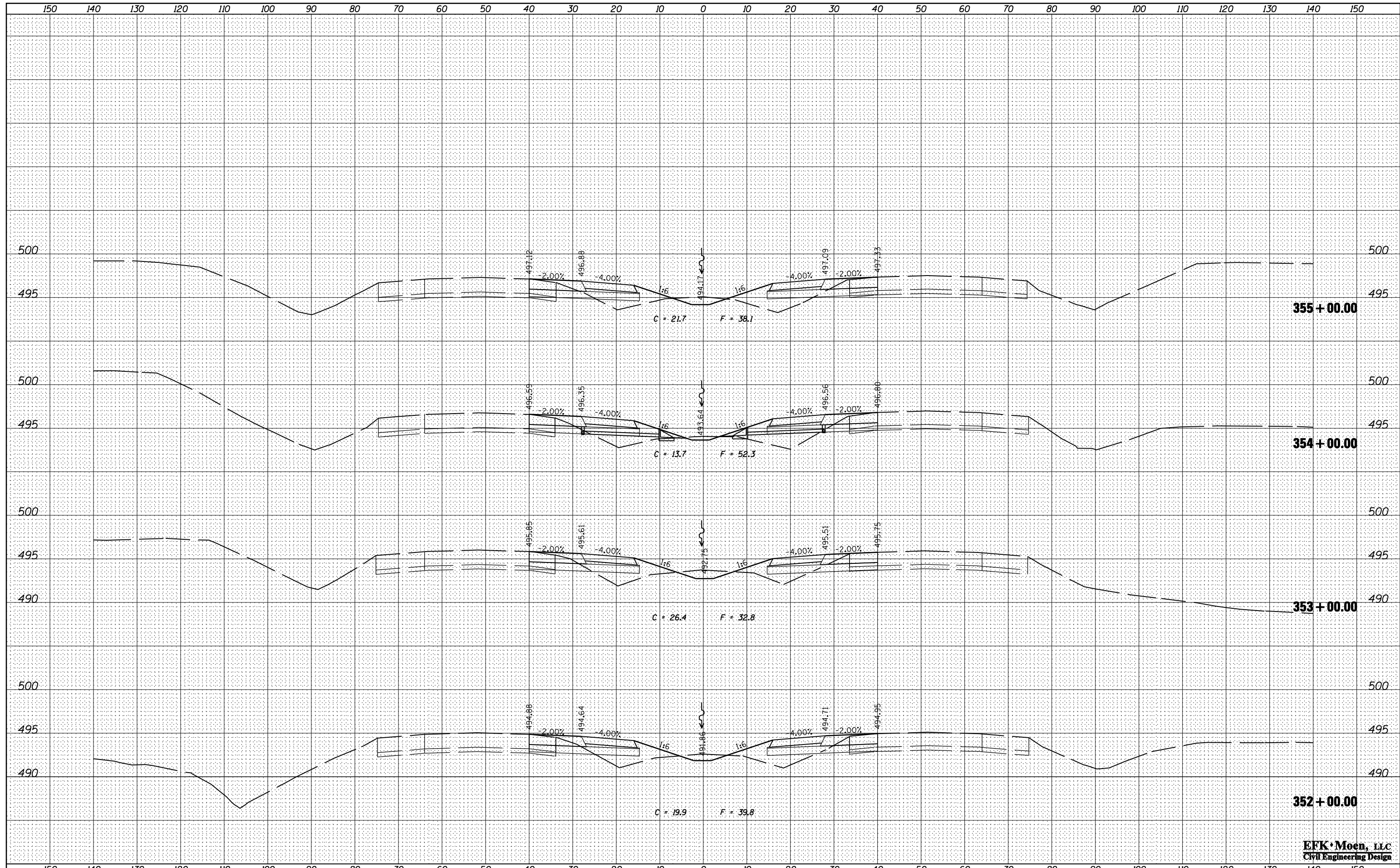
**EFK Moen, LLC**  
 Civil Engineering Design

FILE NAME =	USER NAME = \$USER\$	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILEL\$		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	179	
*MODELNAME\$		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 10 H : 5 V SHEET 60 OF 83 SHEETS STA. 349+00.00 TO STA. 351+00.00

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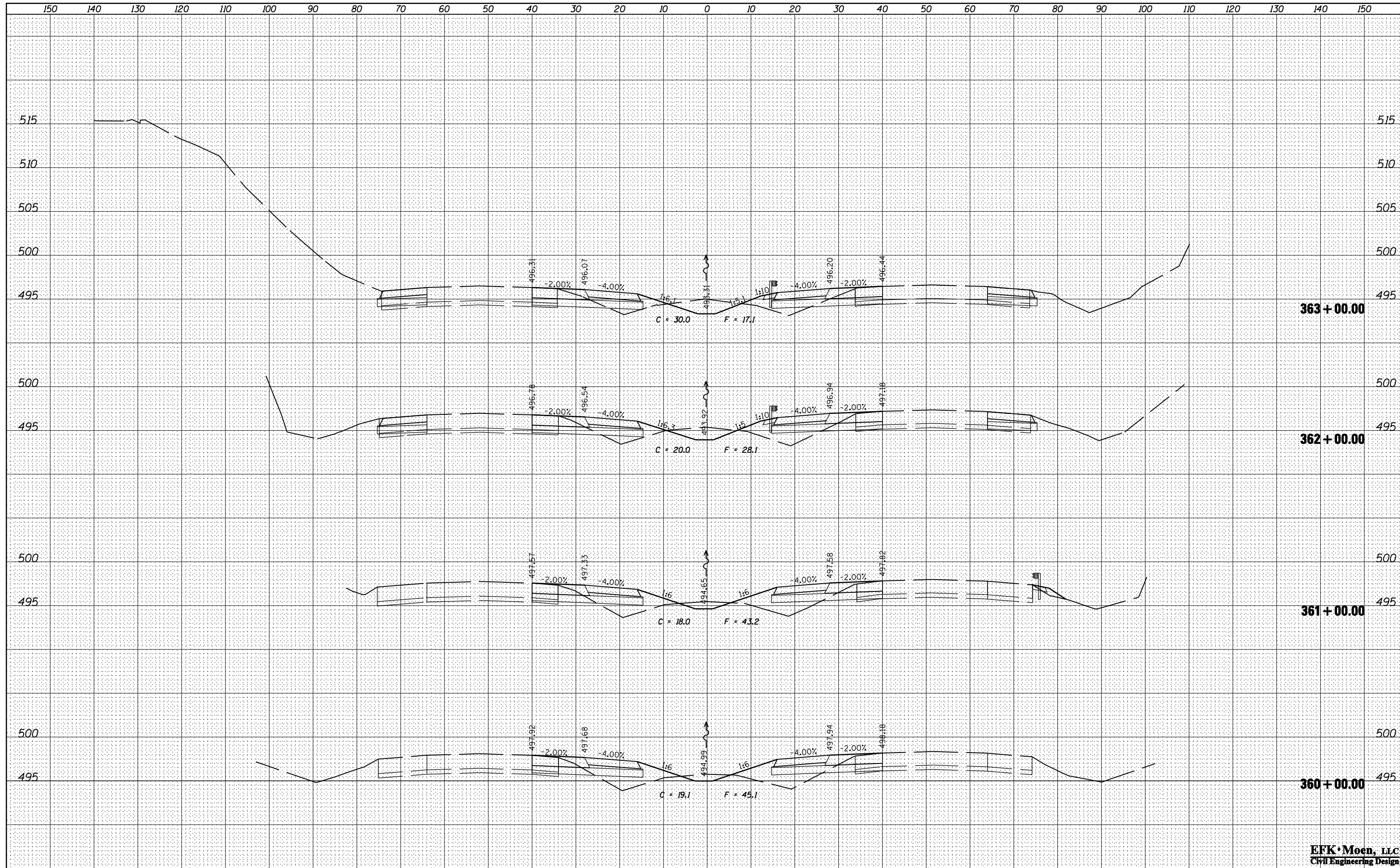
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*FILEL*	DRAWN - MSK	REVISIED -	57			(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	180	
*MODELNAME*	PLOT SCALE = *SCALE*	CHECKED - SLD	REVISED -			CONTRACT NO. 78334				
	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 10 H : 5 V	SHEET 61 OF 83 SHEETS		STA. 352+00.00 TO STA. 355+00.00		

**EFK Moen, LLC**  
Civil Engineering Design



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Civil Engineering Design

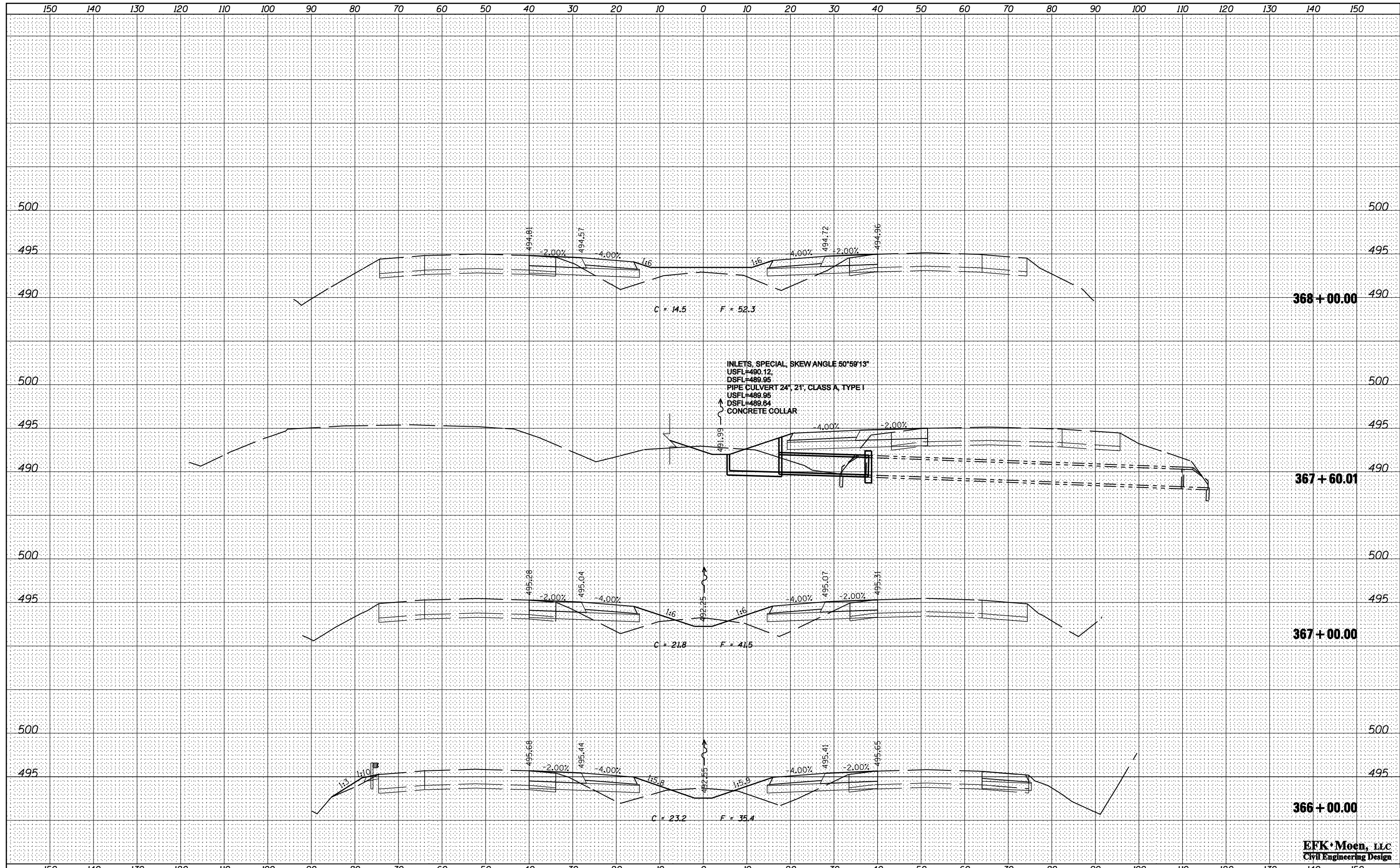
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*MODELNAME*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: 10 H : 5 V						SHEET 63 OF 83 SHEETS					
						STA. 360+00.00 TO STA. 363+00.00					





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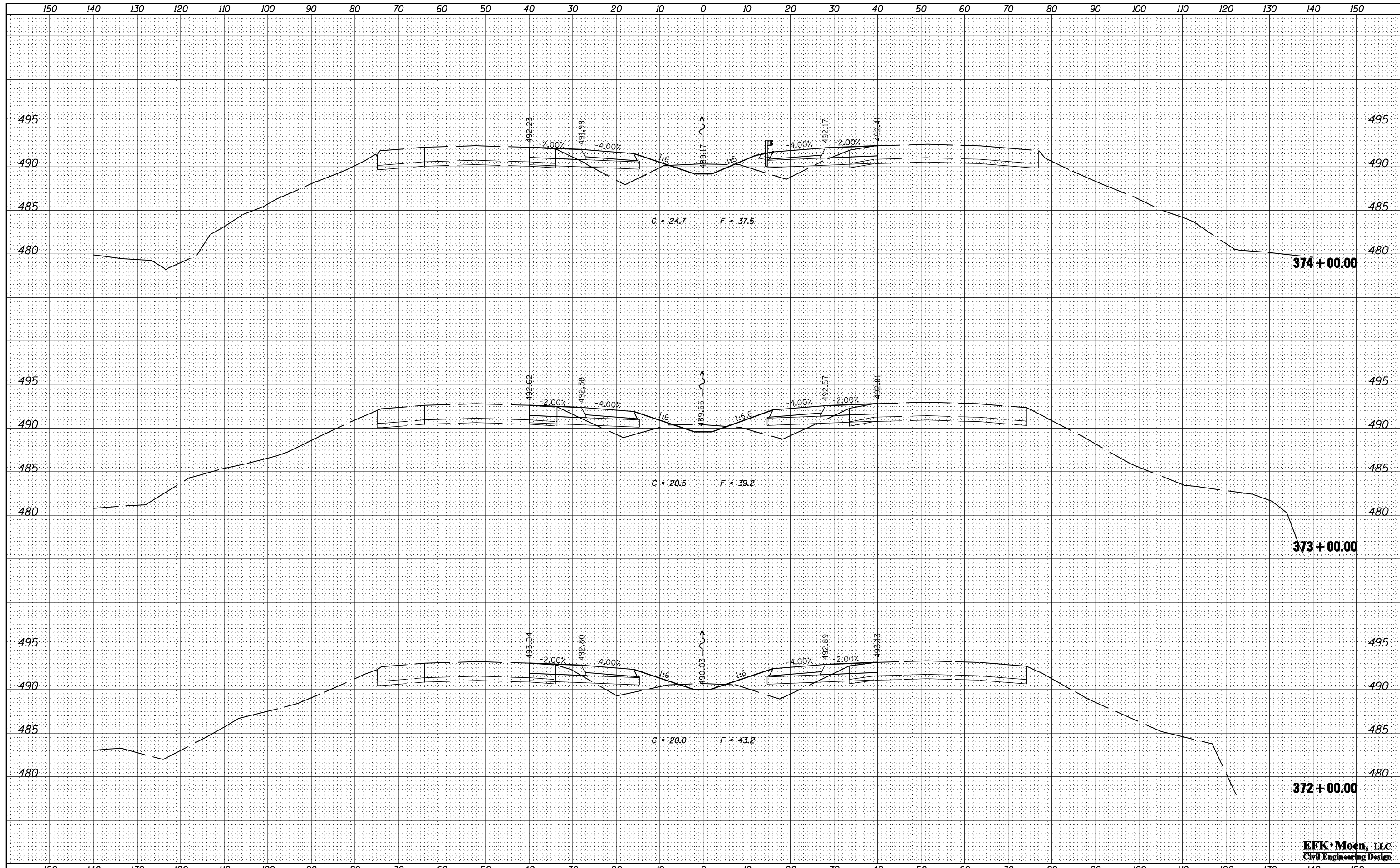


**EFK Moen, LLC**  
Civil Engineering Design



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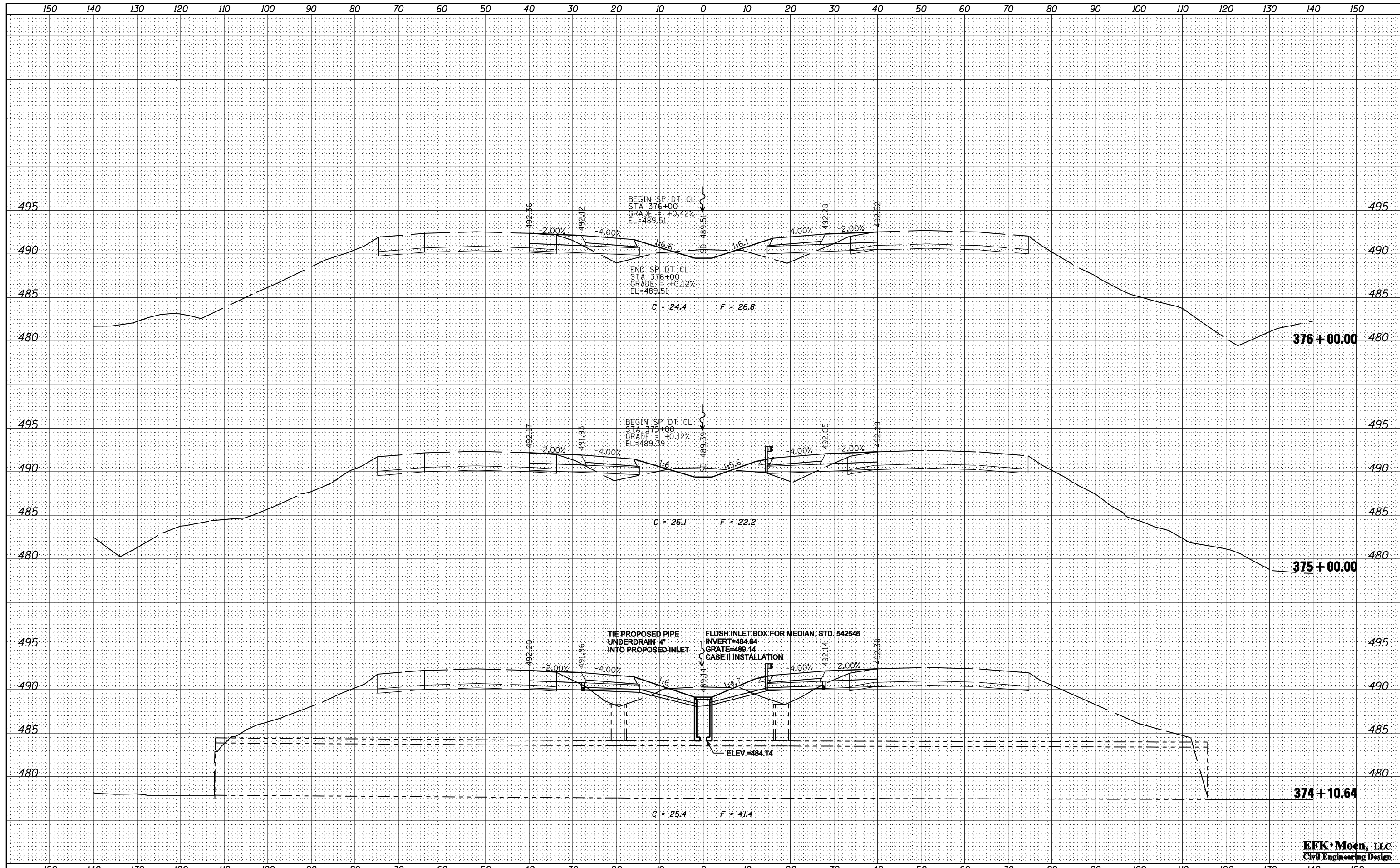
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*FILEL*	DRAWN - MSK	REVISIED -	57			(X1-6-2,X1-5,(X1-4-1BR-1))R-1	WILLIAMSON	202	186	
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	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				

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Civil Engineering Design

SCALE: 10 H : 5 V SHEET 67 OF 83 SHEETS STA. 372+00.00 TO STA. 374+00.00

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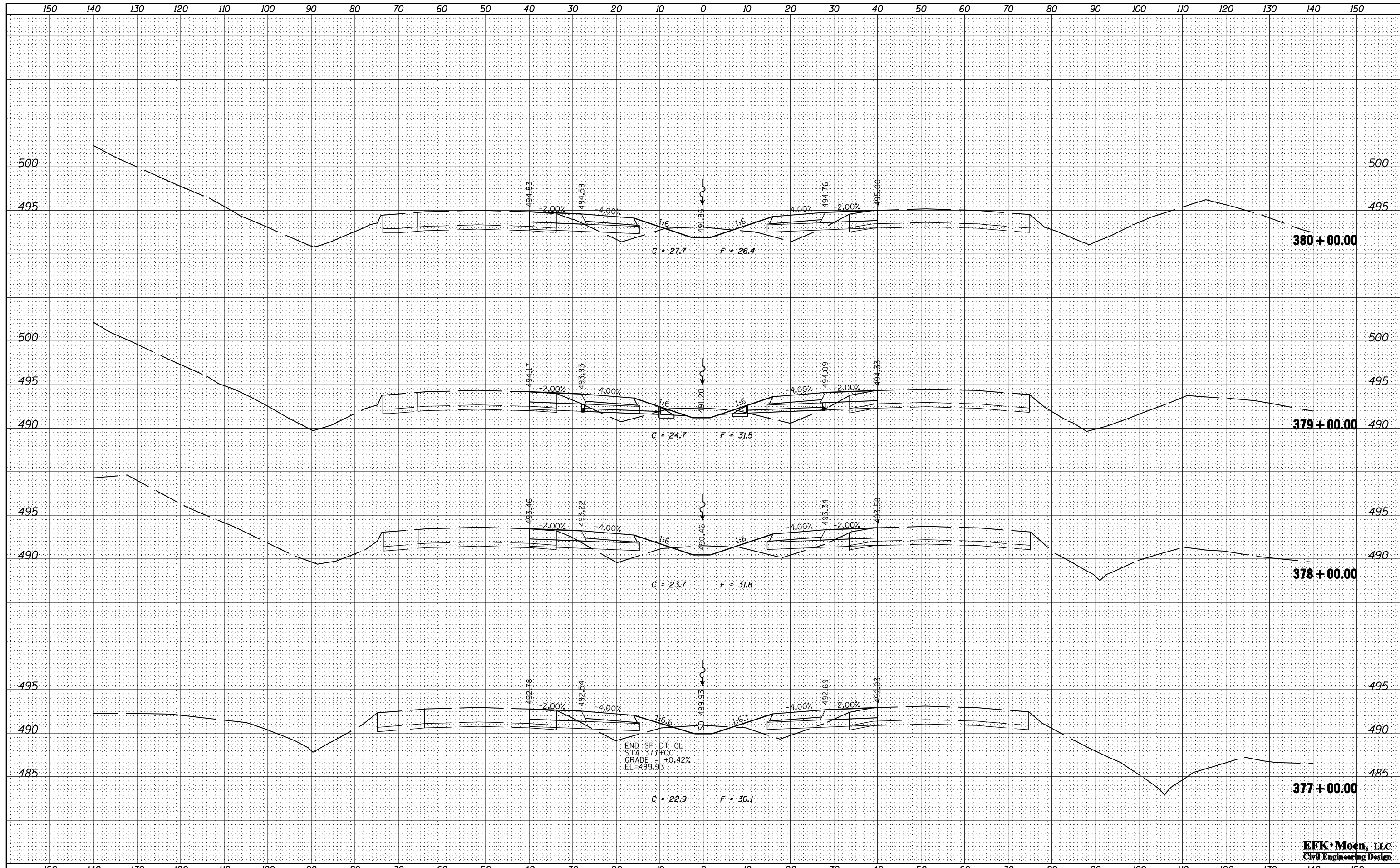


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*FILEL\$		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	187	
PLOT SCALE = \$SCALE\$		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
*MODELNAME\$		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					
SCALE: 10 H : 5 V					SHEET 68 OF 83 SHEETS STA. 374+10.04 TO STA. 376+00.00						

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Civil Engineering Design

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 STA 377+00  
 GRADE = +0.42%  
 EL = 489.93

**EFK Moen, LLC**  
 Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILEL*	DRAWN - MSK	REVISIED -	57			XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	188	
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	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				

SCALE: 10 H : 5 V SHEET 69 OF 83 SHEETS STA. 377+00.00 TO STA. 380+00.00



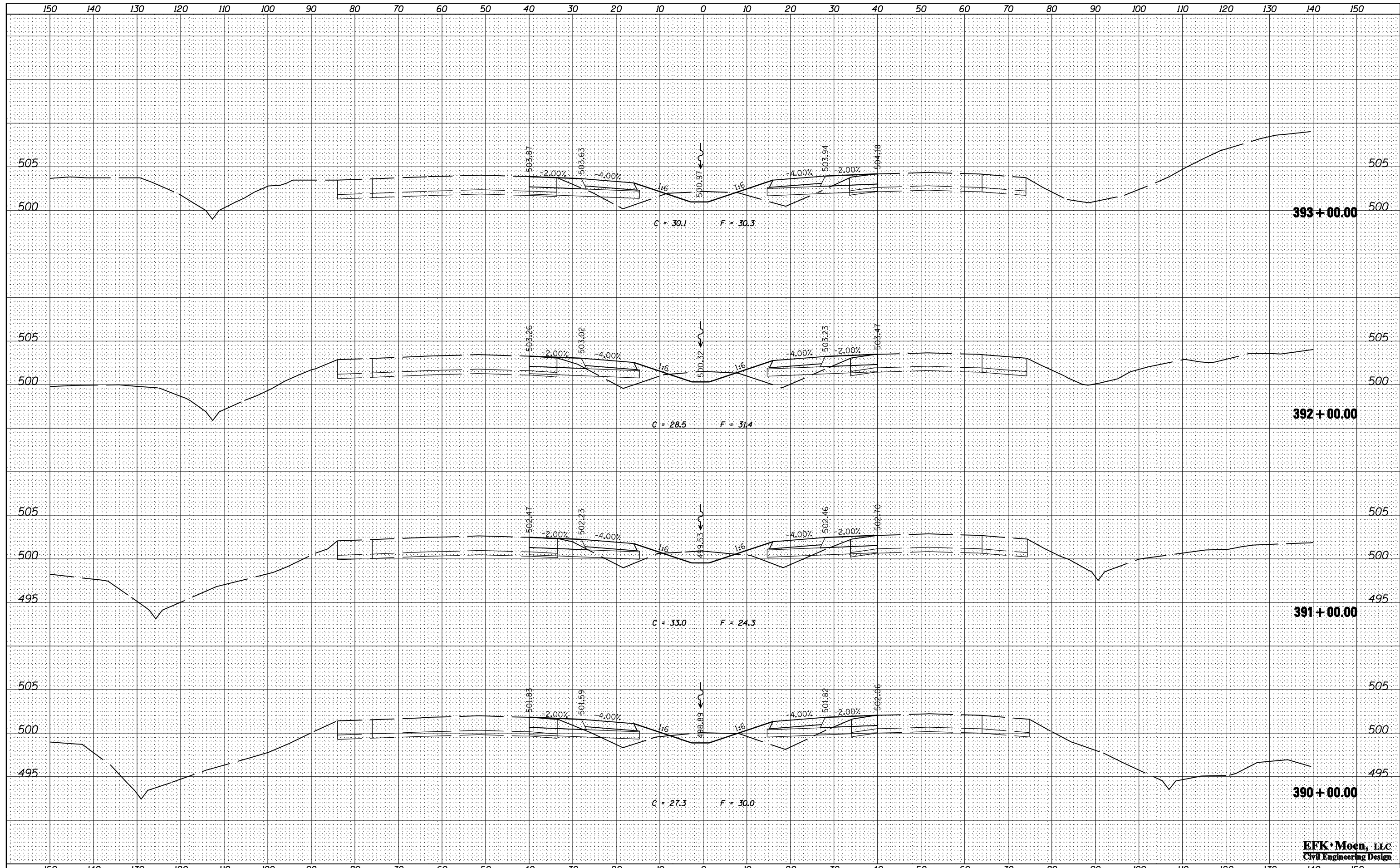






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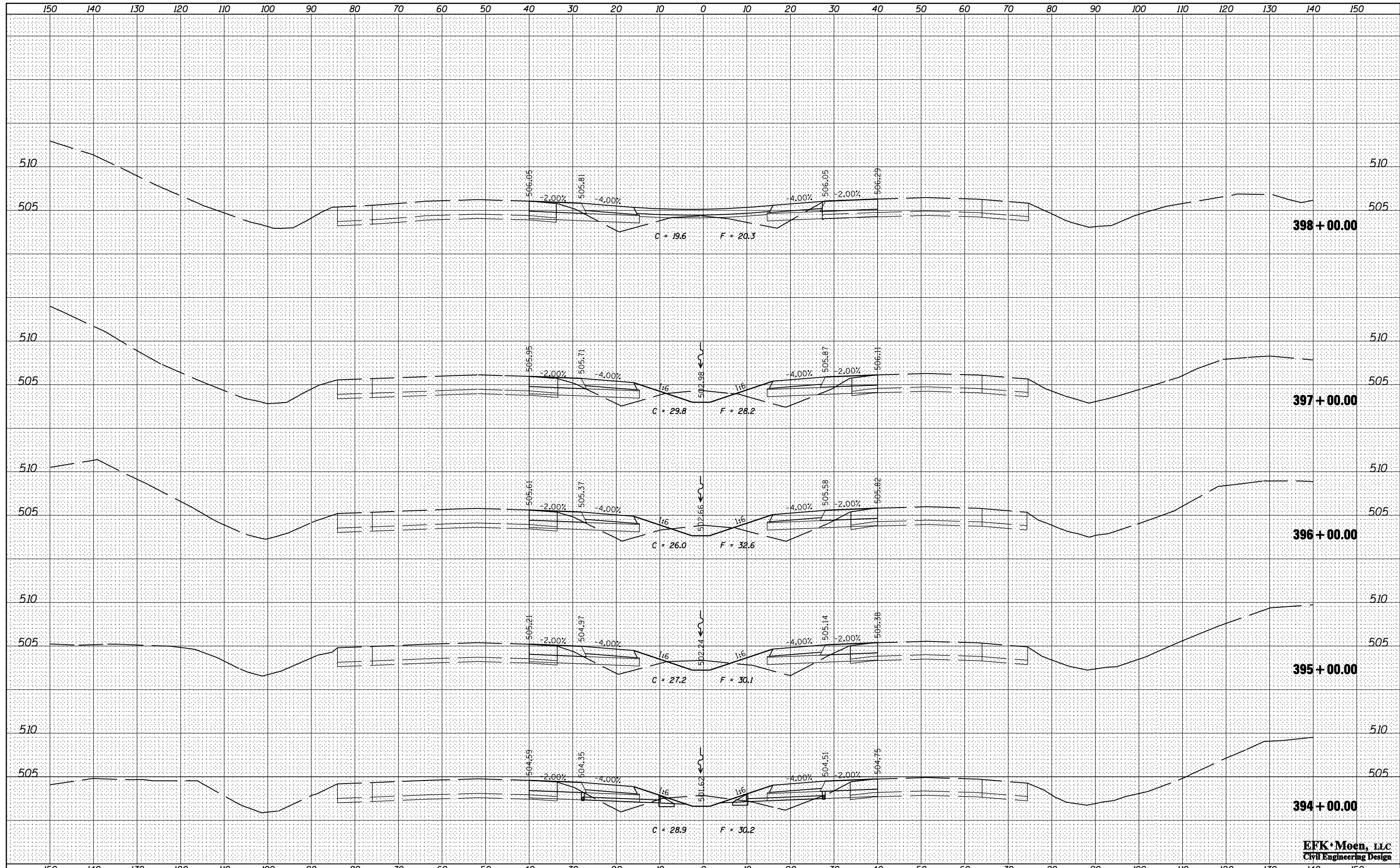


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Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISIED -			ILLINOIS FED. AID PROJECT				
SCALE: 10 H : 5 V						SHEET 73 OF 83 SHEETS		STA. 390+00.00 TO STA. 393+00.00		

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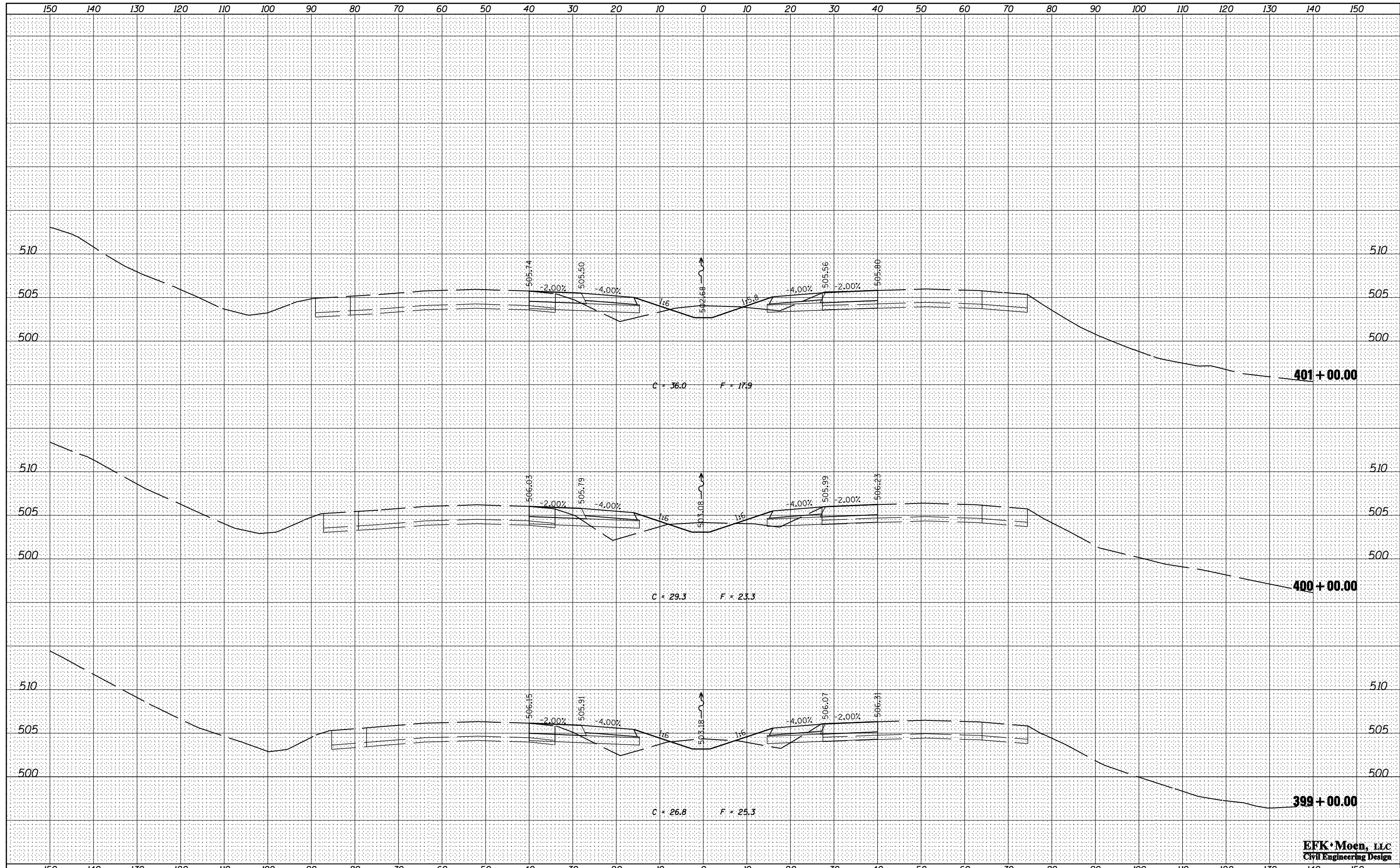
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*FILEL*		DRAWN - MSK	REVISED -			57	XI-6-2,XI-5,(XI-4-1BR-1)R-1	WILLIAMSON	202	193	
*MODELNAME*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					

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Civil Engineering Design

SCALE: 10 H : 5 V SHEET 74 OF 83 SHEETS STA. 394+00.00 TO STA. 398+00.00

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**EFK Moen, LLC**  
 Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b>	F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
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*MODELNAME*	PLOT SCALE = *SCALE*	CHECKED - SLD	REVISED -			CONTRACT NO. 78334				
	PLOT DATE = *DATE*	DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 10 H : 5 V SHEET 75 OF 83 SHEETS STA. 399+00.00 TO STA. 401+00.00





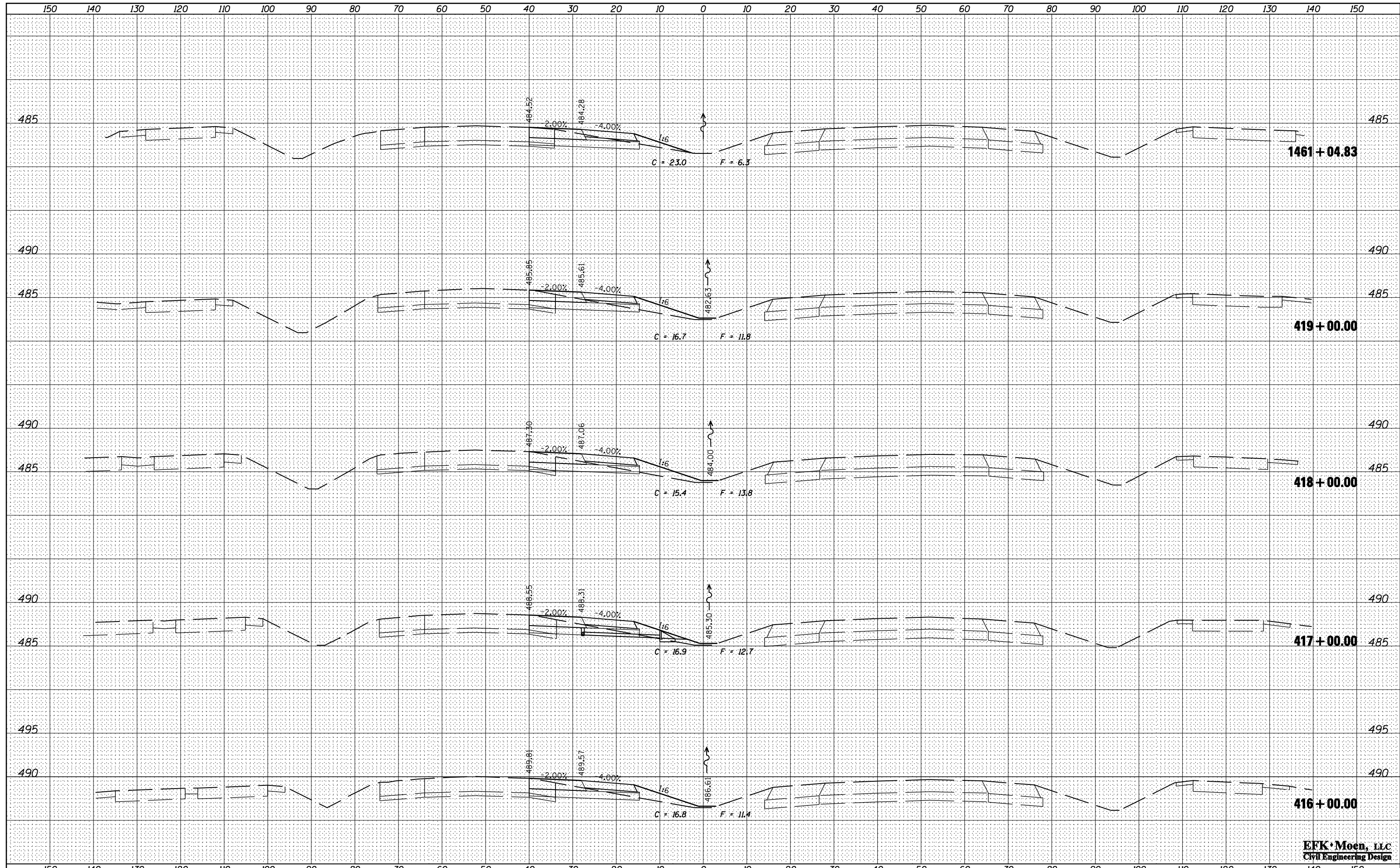






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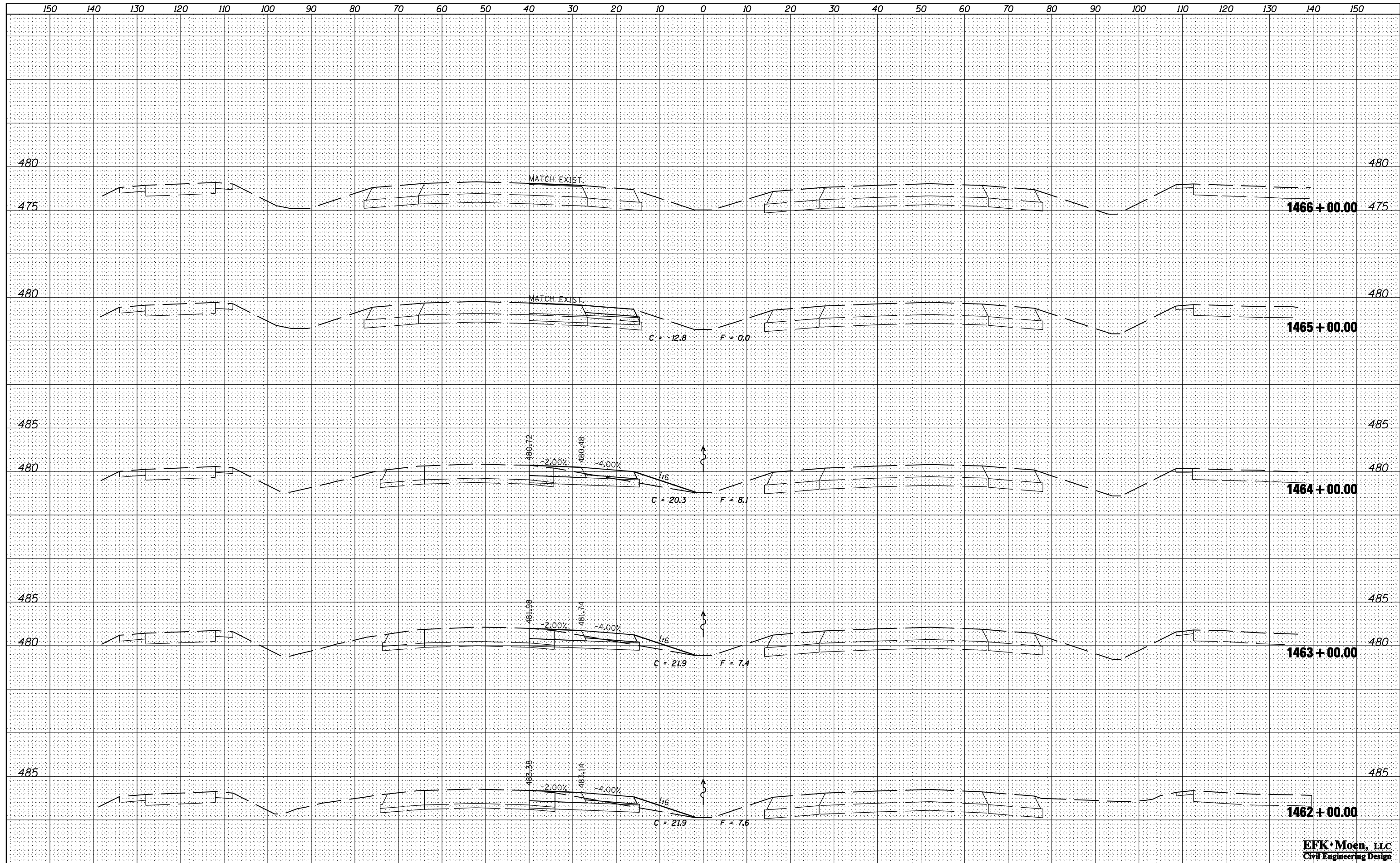
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**EFK Moen, LLC**  
Civil Engineering Design

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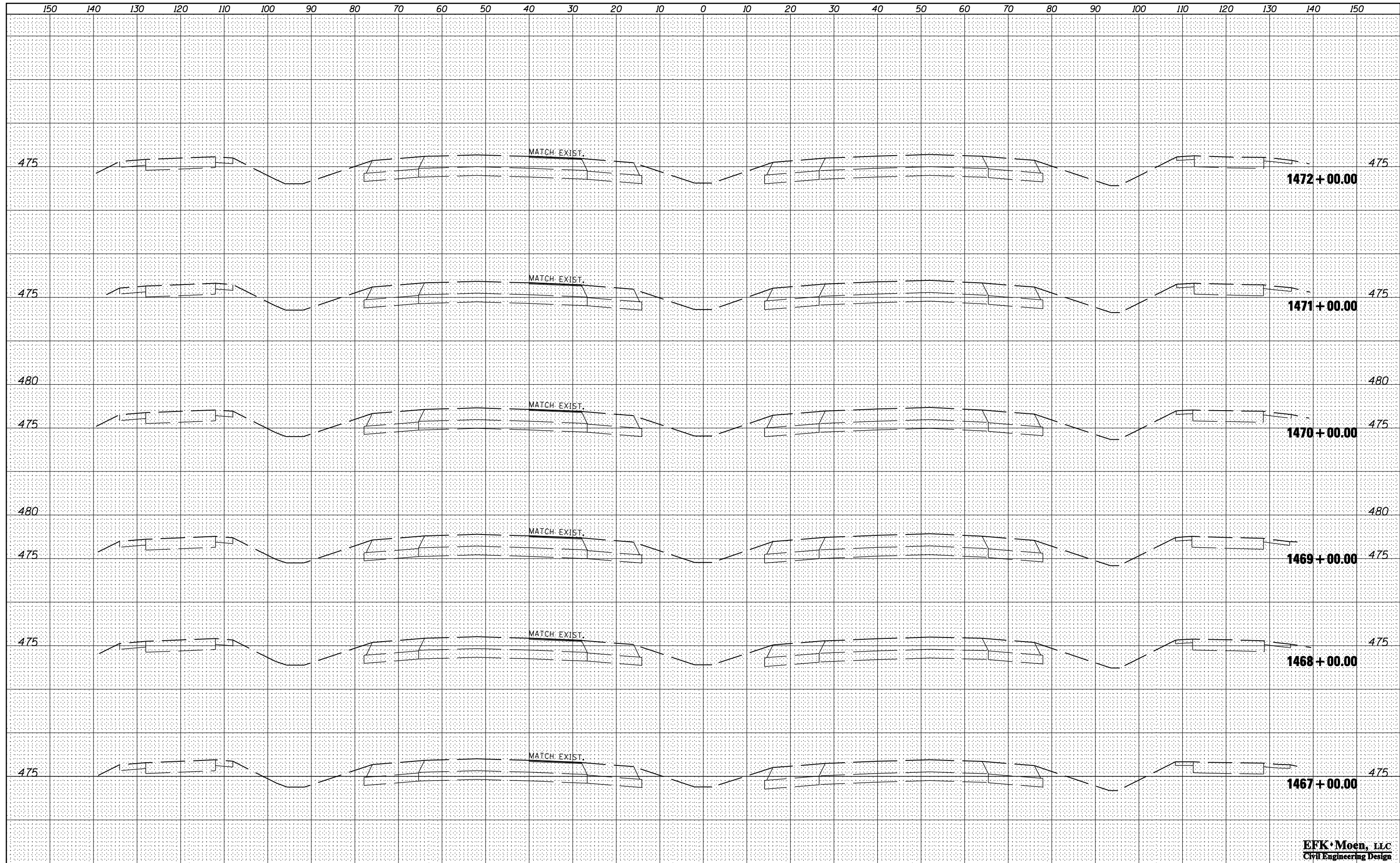


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 Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b> SCALE: 10 H : 5 V   SHEET 81 OF 83 SHEETS   STA. 1462+00.00 TO STA. 1466+00.00	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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*MODELNAME*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
		DATE - 02/01/2013	REVISED -			ILLINOIS FED. AID PROJECT					

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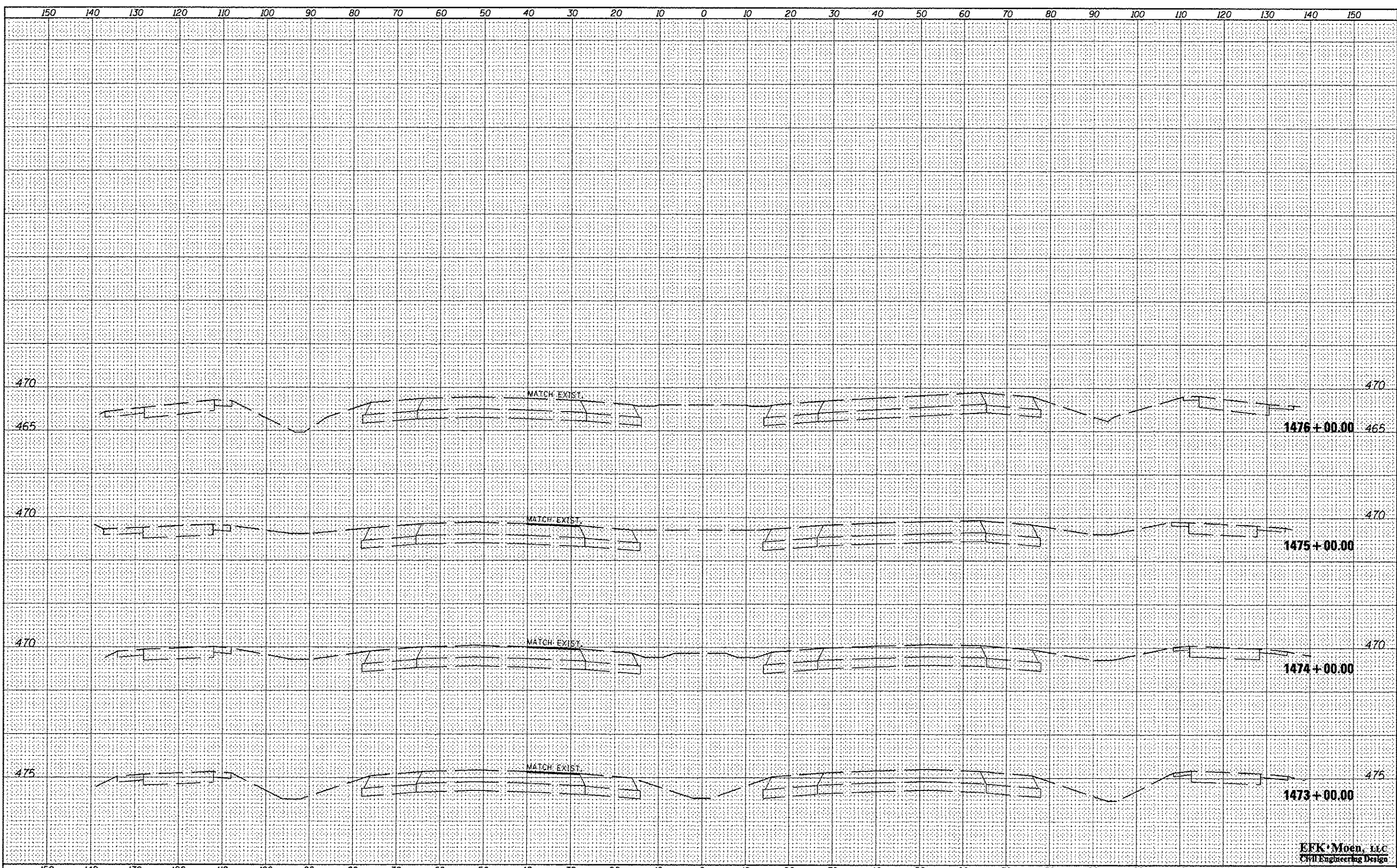


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Civil Engineering Design

FILE NAME =	USER NAME = *USER*	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>FAI ROUTE 57 (I-57) CROSS SECTIONS</b> SCALE: 10 H : 5 V   SHEET 82 OF 83 SHEETS   STA. 1467+00.00 TO STA. 1472+00.00	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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*MODELNAME*		CHECKED - SLD	REVISED -			CONTRACT NO. 78334					
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EFK Moen, LLC  
Civil Engineering Design

FILE NAME *	USER NAME * USER#	DESIGNED - JRD	REVISED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - MSK	REVISED -	57	X1-6-2,X1-5,(X1-4-1BR-1)R-E	WILLIAMSON	202	202
#MODELNAME#		CHECKED - SLD	REVISED -	CONTRACT NO. 78334				
		DATE - 02/01/2013	REVISED -	ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 57 (I-57) CROSS SECTIONS

SCALE: 10 H : 5 V | SHEET 83 OF 83 SHEETS | STA. 1473+00.00 TO STA. 1476+00.00