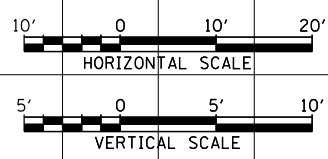
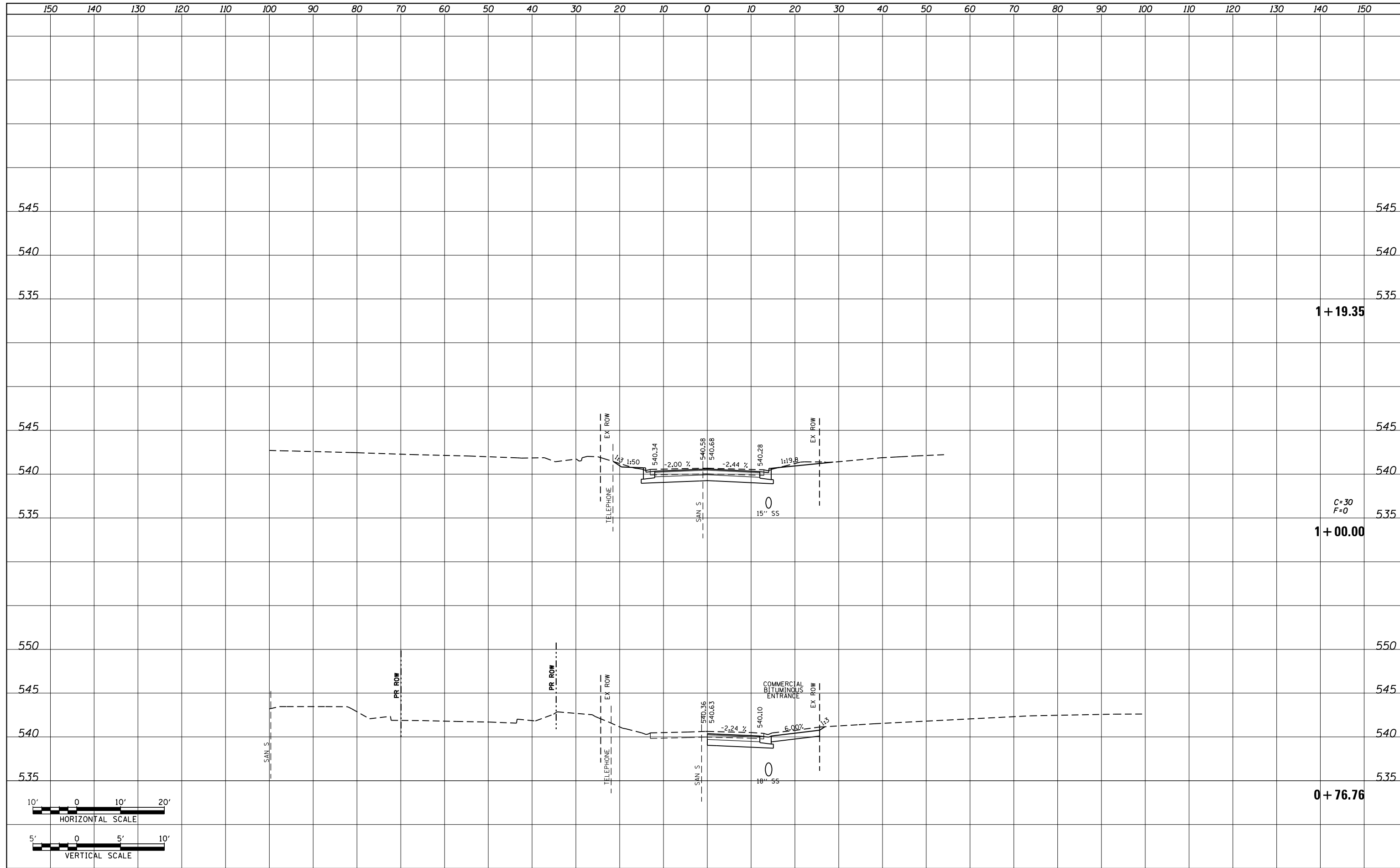


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BY	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

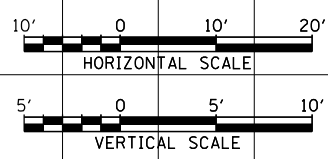
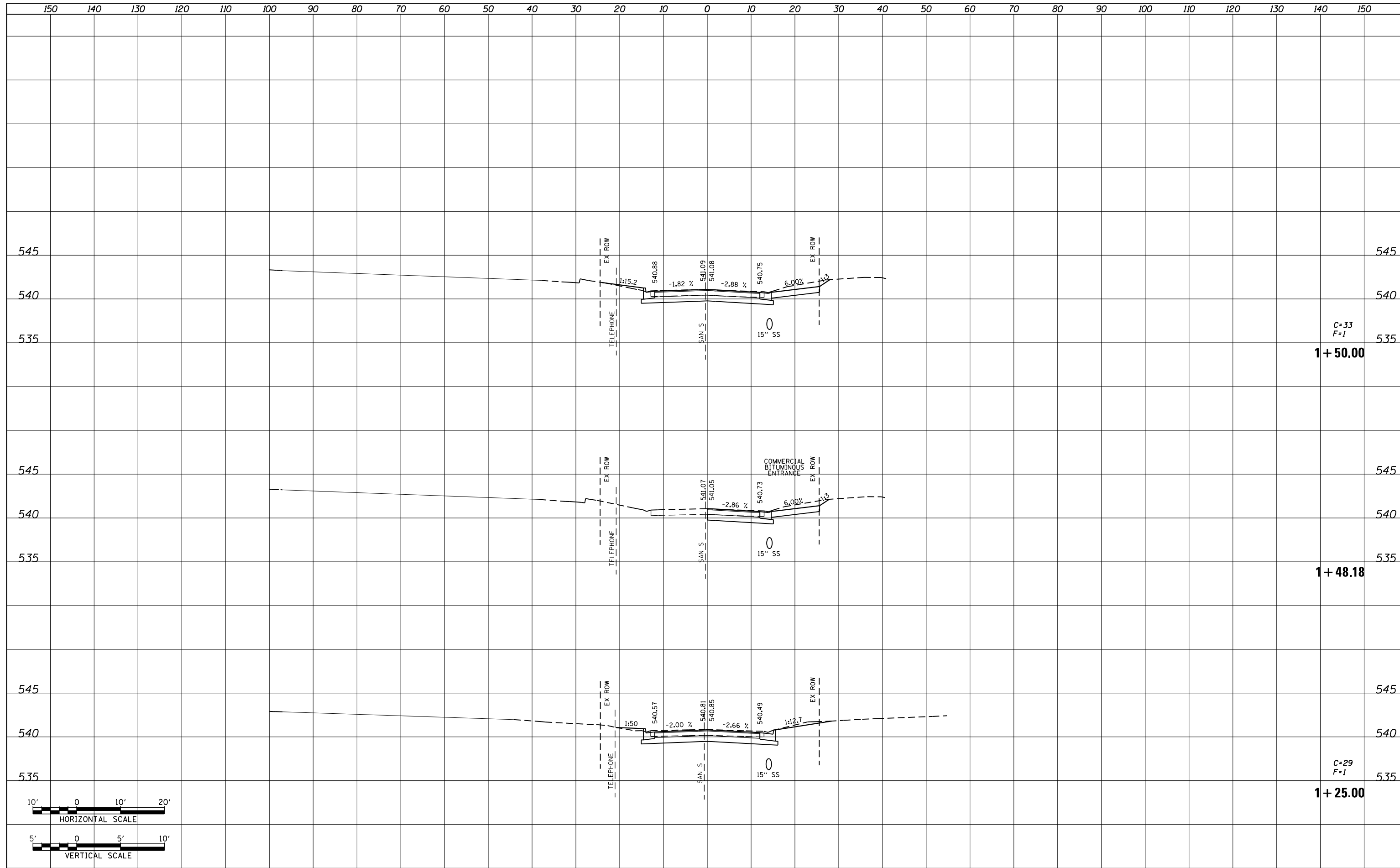
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ORIGINAL SURVEY NOTE BOOK NO.	



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PLOT SCALE = 20.0000' / in.	CHECKED - CLS	REVISIED -	REVISIED -		SCALE: H: 1"=10' V: 1"=5'	SHEET NO. 2 OF 4 SHEETS	STA. 0+76.76	TO STA. 1+19.35	CONTRACT NO. 76885			
PLOT DATE = 1/25/2013	DATE - 01/25/2013	REVISIED -	REVISIED -		ILLINOIS FED. AID PROJECT							

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

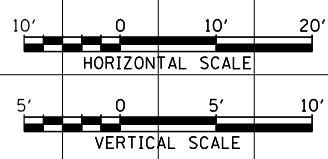
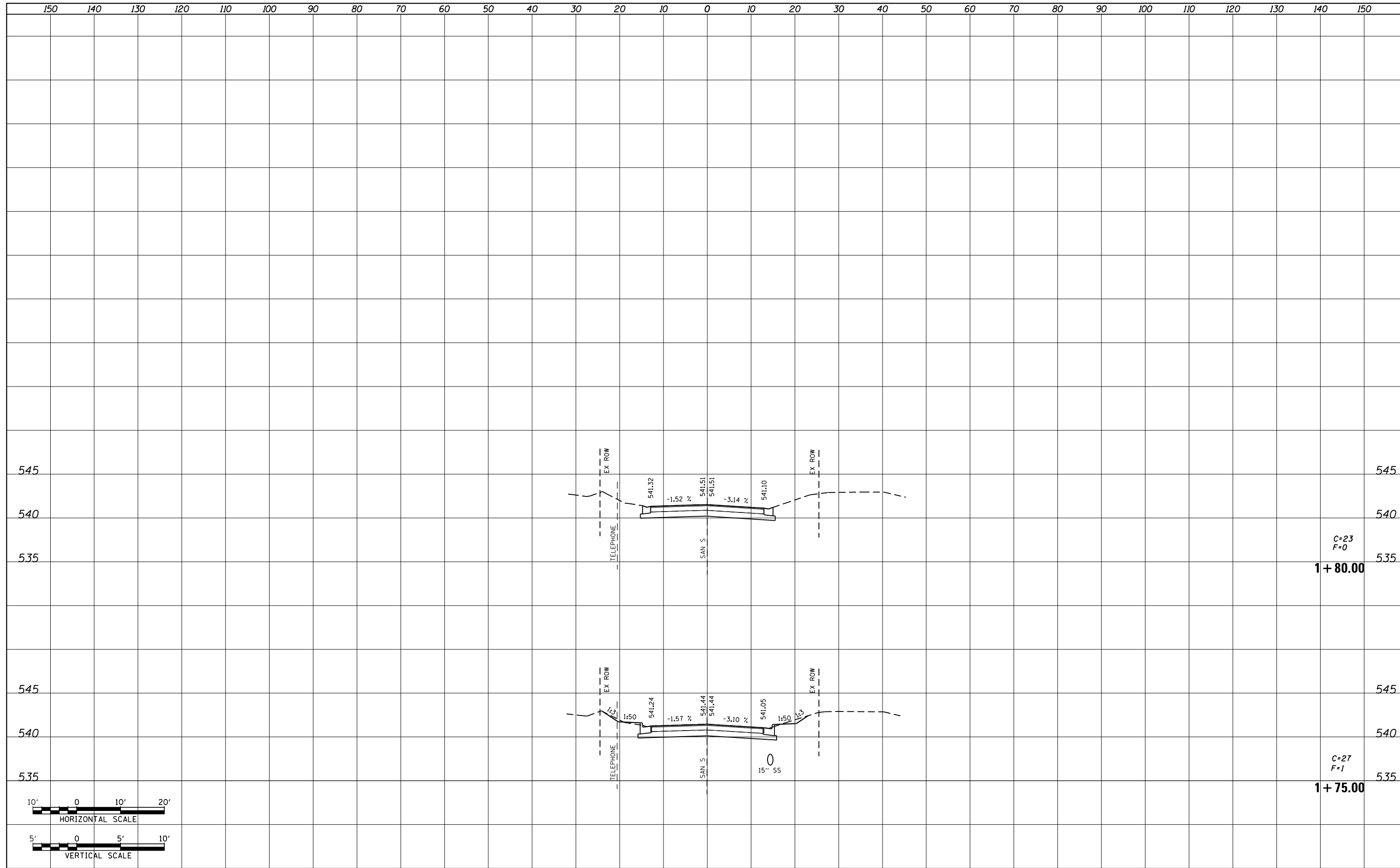
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NOTE BOOK	PLOTTED
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	AREAS CHECKED
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PLOT SCALE = 20.0000' / in.	CHECKED - CLS	REVISIED -	REVISIED -		SCALE: H: 1"=10' V: 1"=5'	SHEET NO. 3 OF 4 SHEETS	STA. 1+25.00	TO STA. 1+50.00	CONTRACT NO. 76885			
PLOT DATE = 1/25/2013	DATE - 01/25/2013	REVISIED -	REVISIED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	
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NOTE BOOK	
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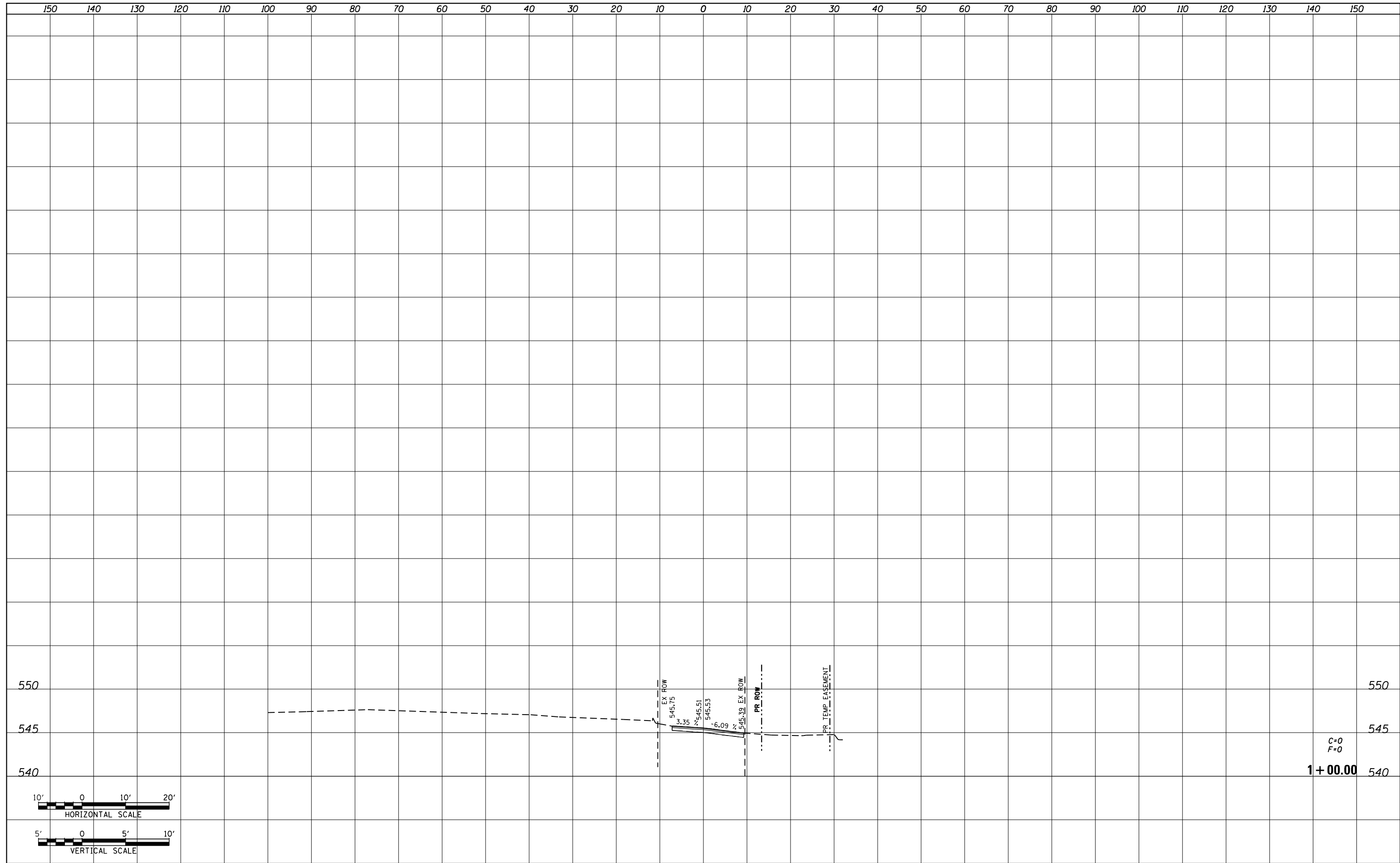


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PLOT SCALE = 20.0000' / in.	CHECKED - CLS	REVISIED -	SCALE: H: 1"=10' V: 1"=5'		SHEET NO. 4 OF 4 SHEETS	STA. 1+75.00	TO STA. 1+80.00	CONTRACT NO. 76B85		ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/25/2013	DATE - 01/25/2013	REVISIED -										



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 1/25/2013

DESIGNED - AGF	REVISIED -
DRAWN - AGF	REVISIED -
CHECKED - CLS	REVISIED -
DATE - 01/25/2013	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALLEY AT 223 + 94  
SIDE ROAD CROSS SECTIONS**

SCALE: H: 1"=10'  
V: 1"=5'

SHEET NO. 2 OF 2 SHEETS    STA. 1+00.00    TO STA. 1+00.00

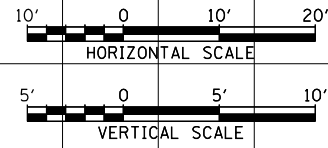
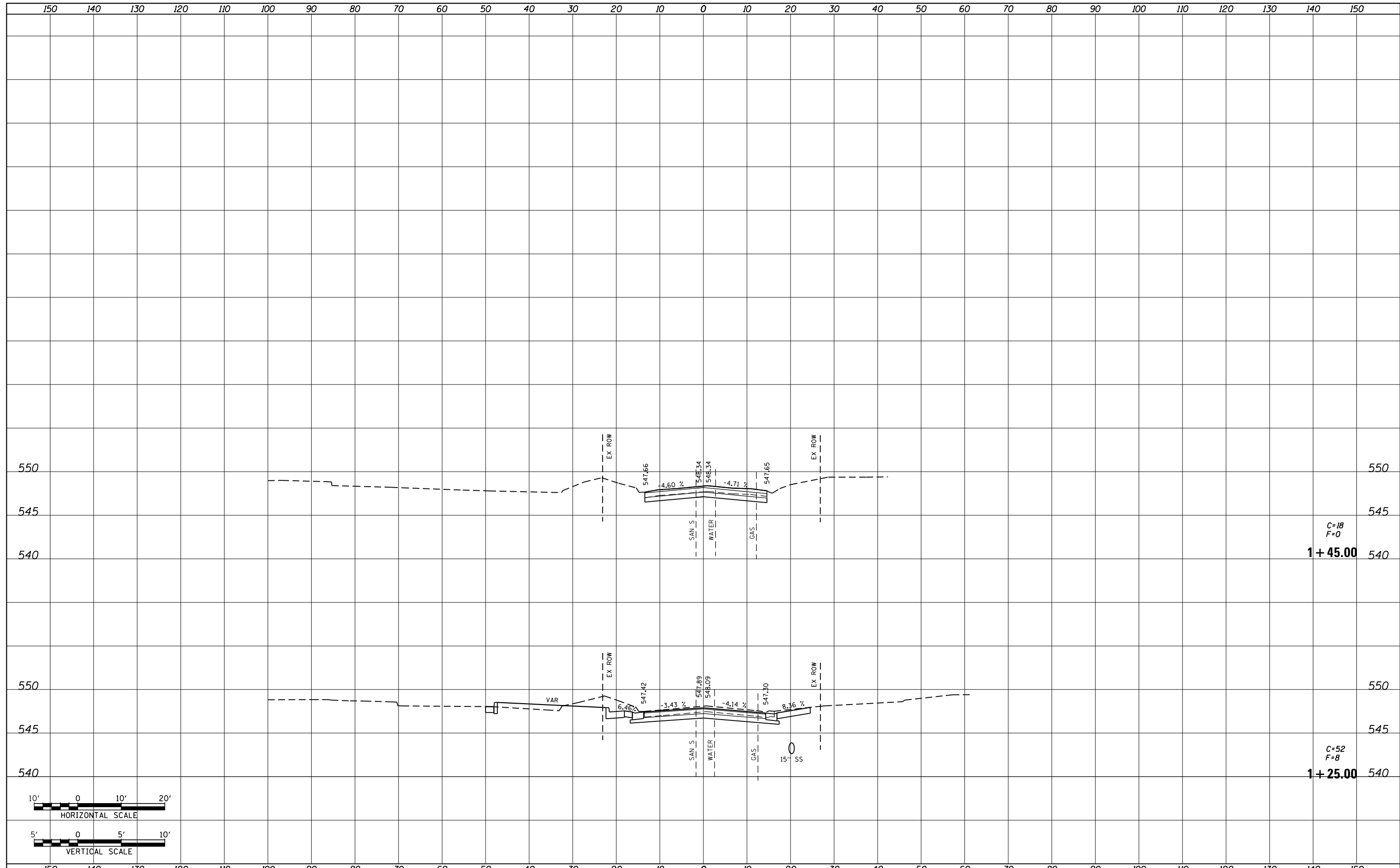
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	60-(30,31,128)-3	MADISON	529	505
CONTRACT NO. 76B85			ILLINOIS FED. AID PROJECT	





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

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TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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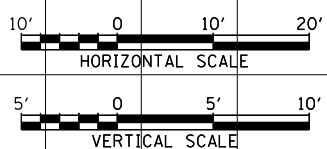
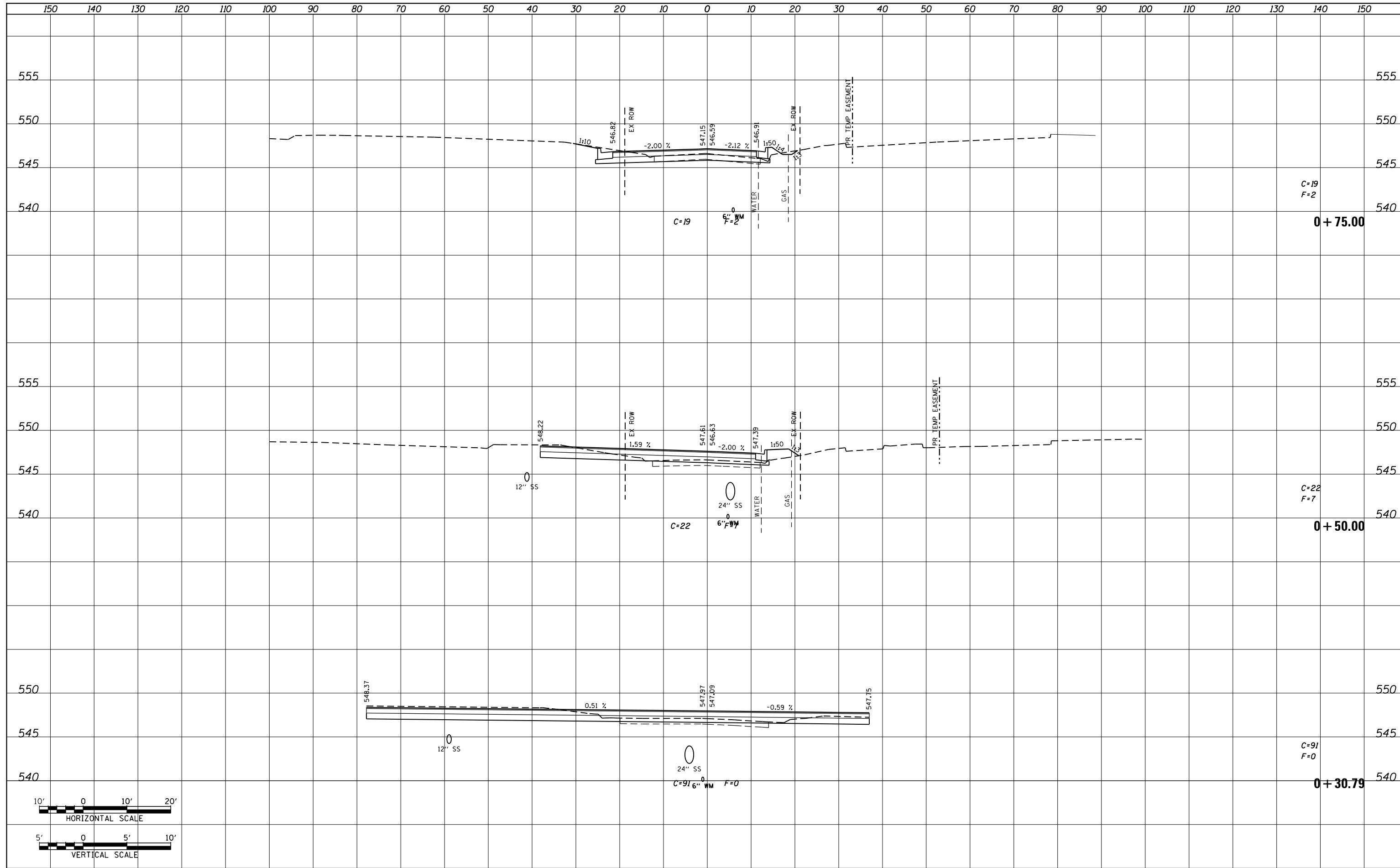


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P:\Projects\513501\CADD\GN\0876885-sht-xsc-illinois.dgn		DRAWN - AGF	REVISED -		600	60-(30,31,128)-3	MADISON	529	508			
PLOT SCALE = 20.0000' / in.		CHECKED - CLS	REVISED -		SCALE: H: 1"=10' V: 1"=5'			SHEET NO. 3 OF 3 SHEETS		STA. 1+25.00 TO STA. 1+45.00	CONTRACT NO. 76B85	
PLOT DATE = 1/25/2013		DATE - 01/25/2013	REVISED -		ILLINOIS FED. AID PROJECT							



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

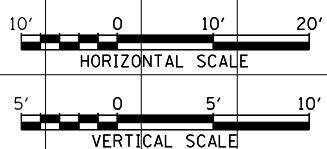
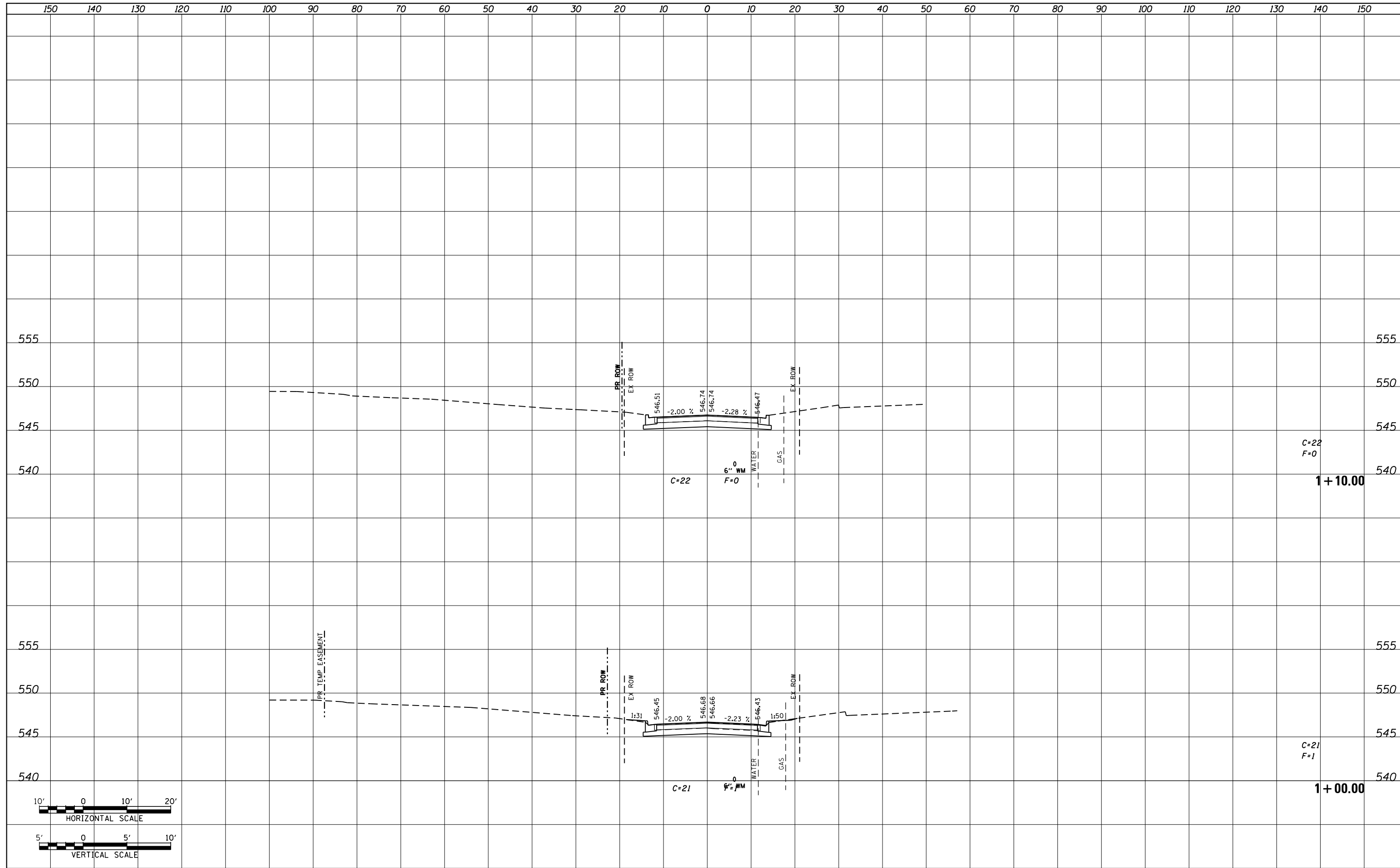
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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PLOT SCALE = 20.0000' / in.	CHECKED - CLS	REVISIED -	SCALE: H: 1"=10'			SHEET NO. 1 OF 2 SHEETS	STA. 0+30.79 TO STA. 0+75.00	CONTRACT NO. 76885		ILLINOIS FED. AID PROJECT
PLOT DATE = 1/25/2013	DATE - 01/25/2013	REVISIED -	V: 1"=5'							

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

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

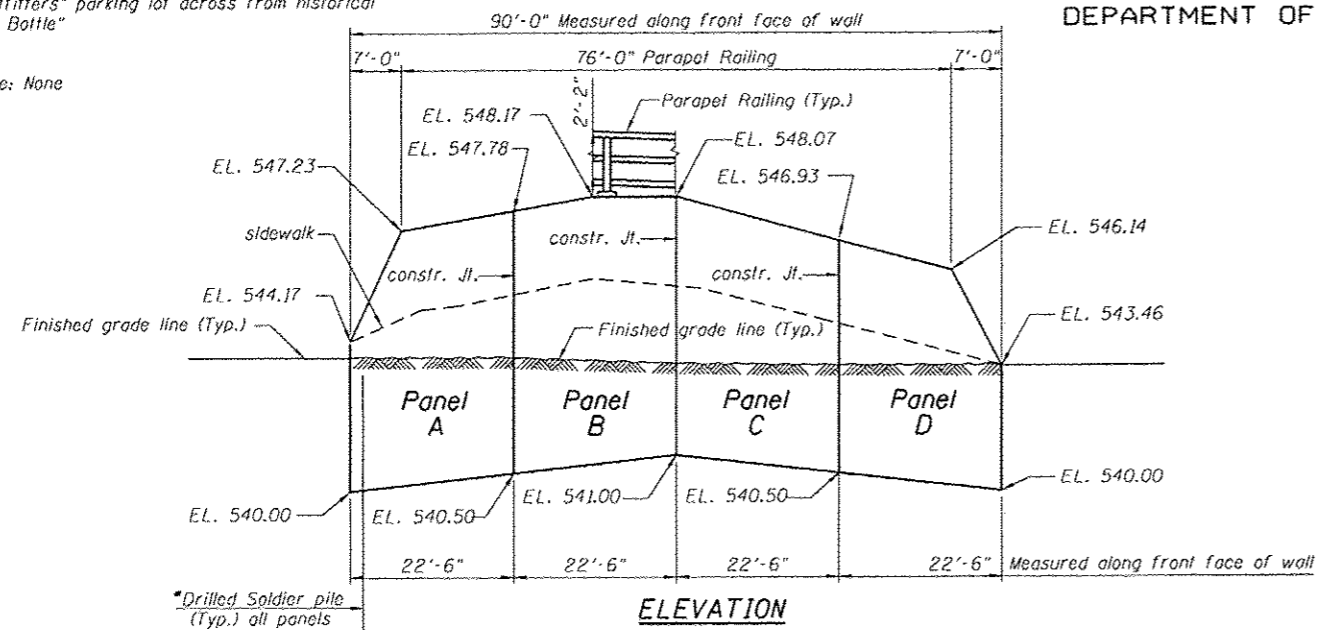


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PLOT SCALE = 20.0000' / in.	CHECKED - CLS	REVISIED -	REVISIED -		SCALE: H: 1"=10' V: 1"=5'	SHEET NO. 2 OF 2 SHEETS	STA. 1+00.00	TO STA. 1+10.00	CONTRACT NO. 76885			
PLOT DATE = 1/25/2013	DATE - 01/25/2013	REVISIED -	REVISIED -		ILLINOIS FED. AID PROJECT							

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

B.M. - # 114 Chiseled on center of N. Headwall for concrete box culvert, located on W. side of IL Rte. 159 in "Buff Truck outfitters" parking lot across from historical landmark "Catsup Bottle" Elev. 475.811

Existing Structure: None



**LEGEND**

TT TT TT TT TT TT TT TT TT	Temporary Easement
TTTTTTTTTTTTTTTTTTTTTTTTTTTT	Permanent Easement
-----	Proposed ROW
-----	Existing ROW

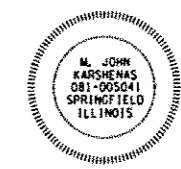
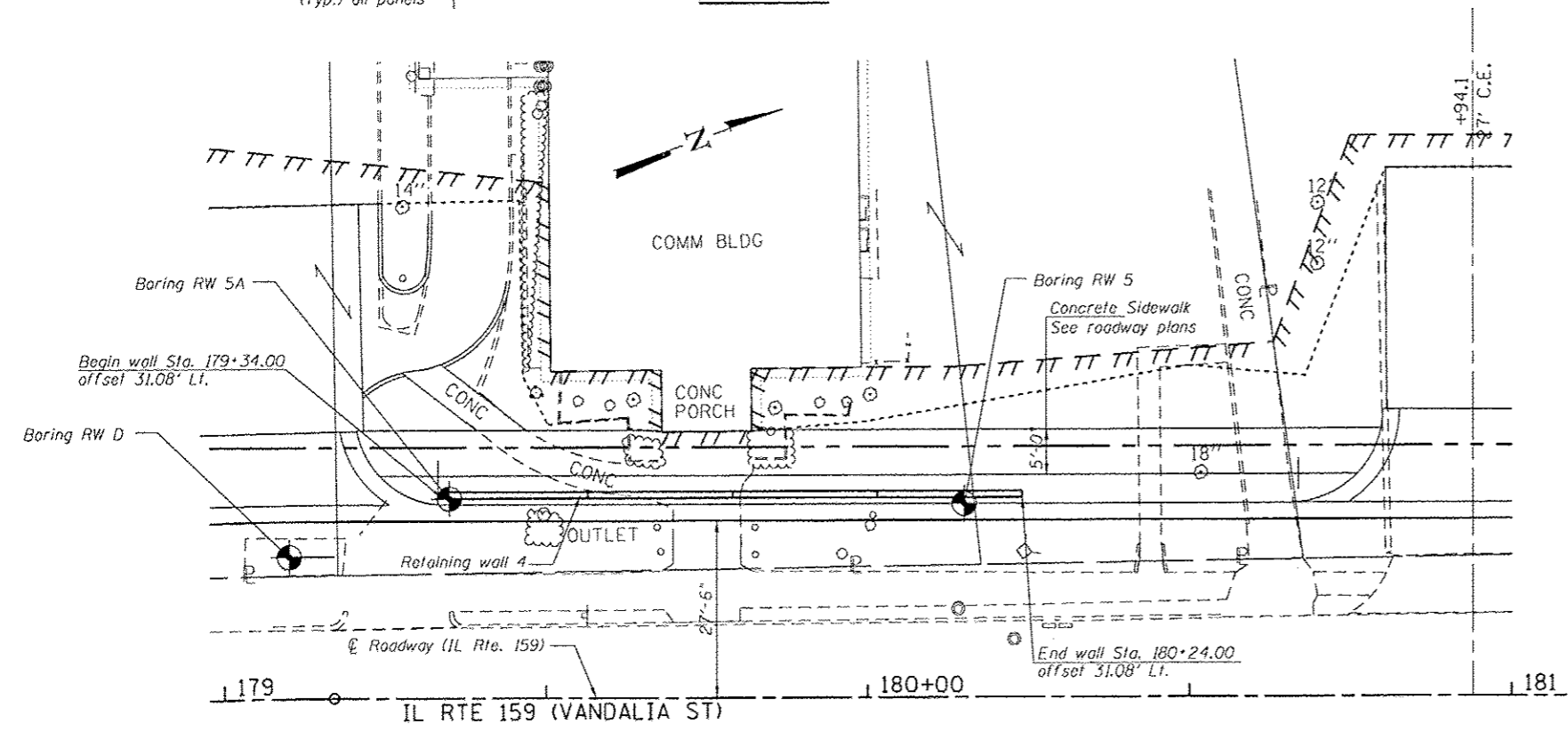
**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Notes, Cross section & Total Bill of Material
3. Panels A & B
4. Panels C & D
5. Soldier pile wall details
6. Soldier pile wall data
7. Parapet Railing
8. Boring Logs

\* See sheets 3, 4 & 6 of 8 for soldier pile locations & tip elevations.

**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications for Highway Bridges

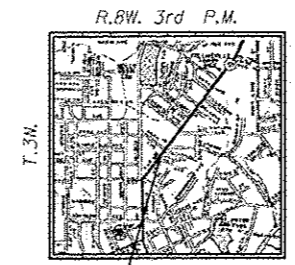
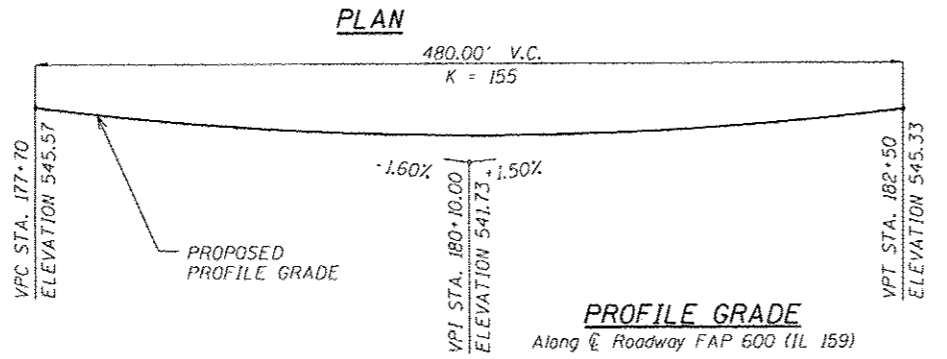
**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 36,500 psi (soldier piles)



Expires: 11/30/2014

*m. j. Karshenas* 01/24/2013

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK



PROPOSED WALL 4  
**LOCATION SKETCH**  
MID-AMERICA ENGINEERING SERVICES

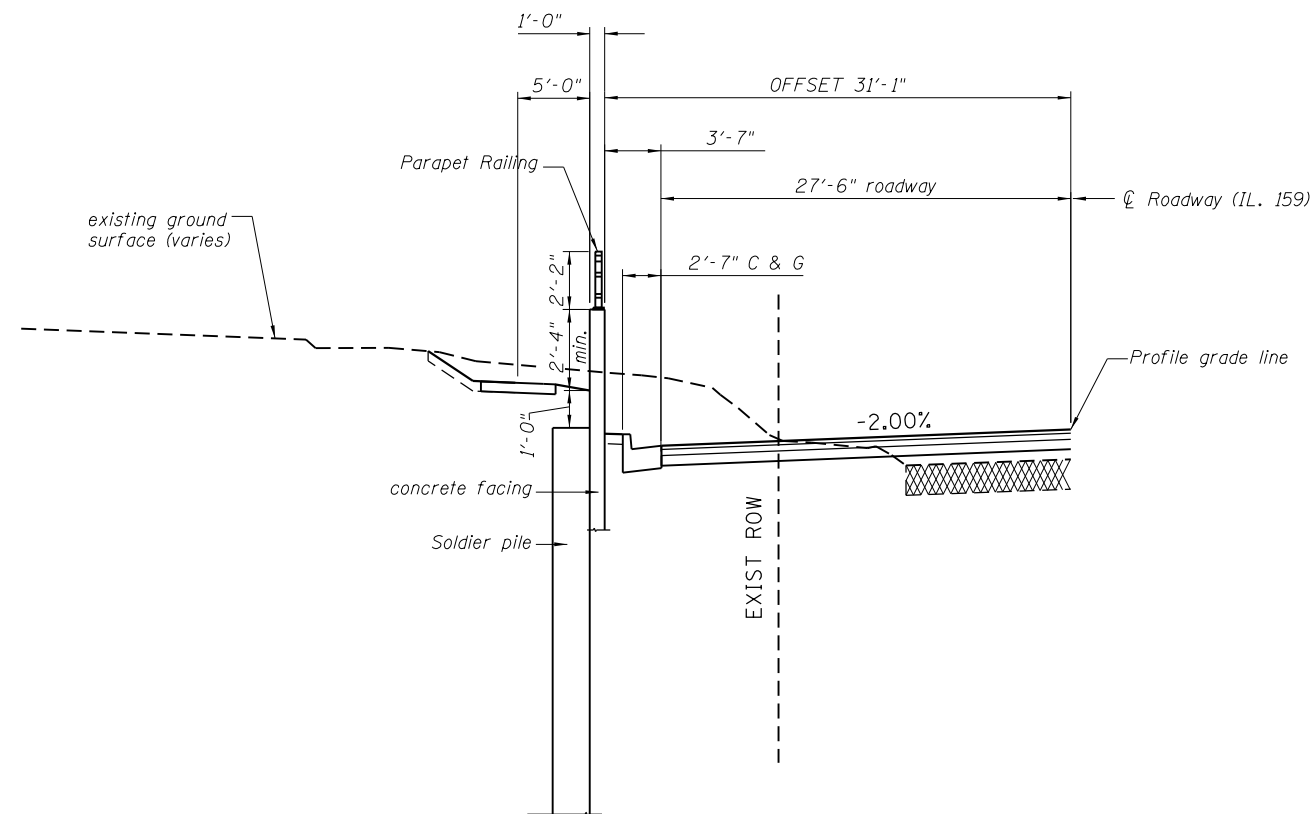
**GENERAL PLAN & ELEVATION**  
**IL RTE. 159**  
**FAP ROUTE 600 SEC. 60-(30,31,128)-3**  
**MADISON COUNTY**  
**STA. 179+34.00 TO STA. 180+24.00**

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8 SHEETS	600	60-(30,31,128)-3	Madison	-	511
RETAINING WALL 4			CONTRACT NO. 76B85		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All exposed edges of concrete shall be bevelled  $\frac{3}{4}$ ".
3. The geocomposite wall drain shall be constructed according to section 591 of the Standard Specifications. The contractor shall insure that the bottom, sides and the top edges are protected from soil entering or sealing the drain while placing the pervious fabric side of the drain towards the soil. Geocomposite wall drain shall be installed in stages as the excavation processes downward. Splicing should be minimized, following proper splice practices to insure no long term soil contamination.
4. Buildings behind the retaining wall are susceptible to damage due to construction operations. The contractor shall conduct the wall construction such that the stability of the buildings behind the wall is not jeopardized. No additional compensation will be given to the contractor for extra measures.



**CROSS SECTION**  
(Looking upstation)

TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	55
Concrete Structures	Cu. Yd.	24.0
Stud Shear connectors	Each	106
Reinforcement Bars, Epoxy Coated	Pound	2960
Parapet Railing,	Foot	76
Geocomposite Wall Drain	Sq. Yd.	23
Pipe Underdrains for Structures, 4"	Foot	110
Furnishing Soldier Piles (HP section)	Foot	287
Drilling and setting Soldier piles (in soil)	Cu. Ft.	1405
Untreated Timber Lagging	Sq. Ft.	275

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

GENERAL NOTES, CROSS SECTION & TOTAL BILL MATERIAL

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	512
8 SHEETS	RETAINING WALL 4		CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

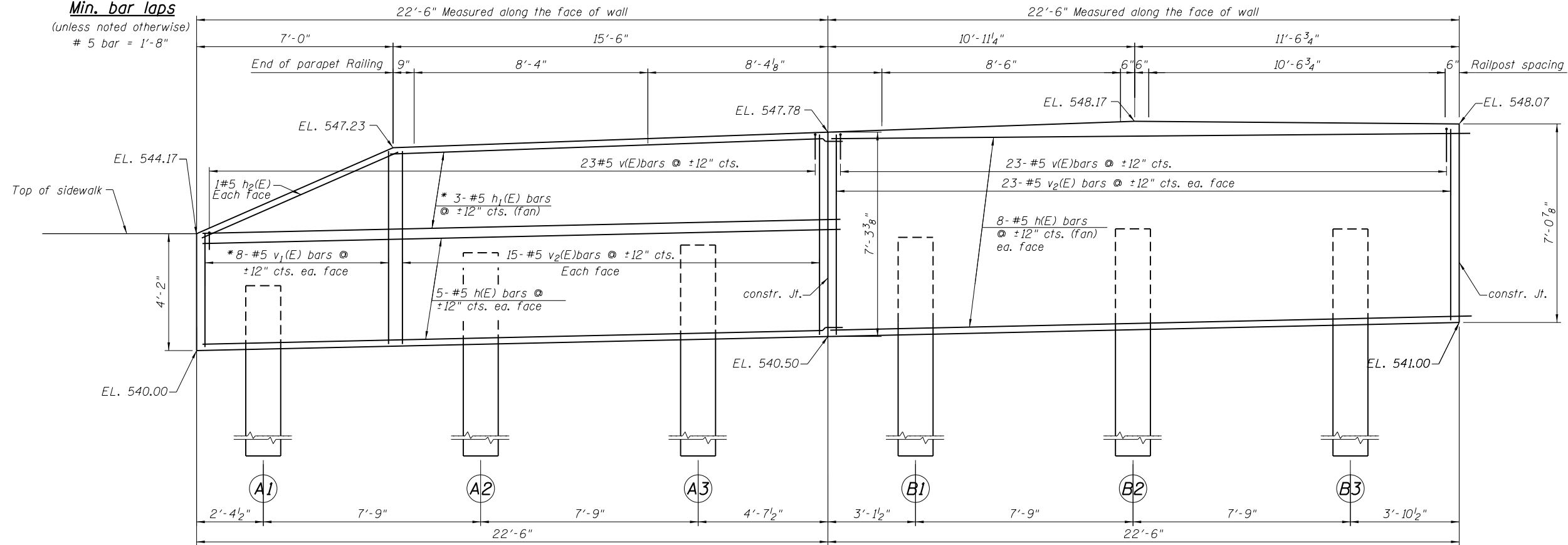
MID-AMERICA ENGINEERING SERVICES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Note:  
For cross section thru panels, drilled pile and const. Jt. detail see sht. 5 of 8.  
For Soldier pile data & Bill of Material see sht. 6 of 8.

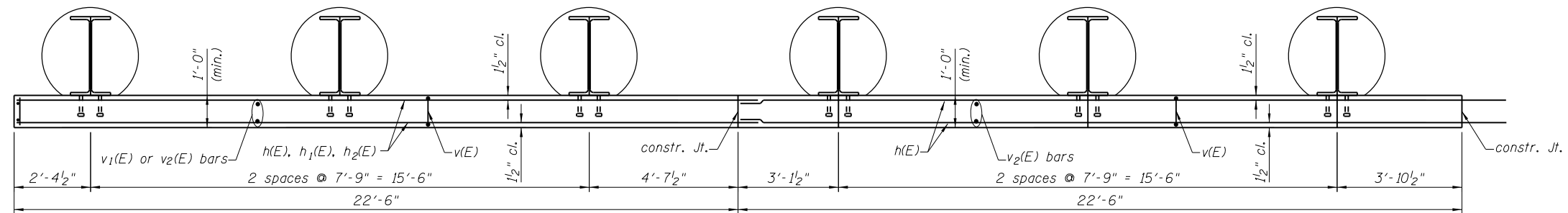
\* order  $v_1(E)$  &  $h_1(E)$  bars full length cut to fit  
as per Bar Cutting Diagram shown  
on sht. 6 of 8. Use remainder of  
bars on the opposite face of the wall.

**Min. bar laps**  
(unless noted otherwise)  
# 5 bar = 1'-8"



**ELEVATION  
PANEL A**

**ELEVATION  
PANEL B**



**PLAN  
PANEL A**

**PLAN  
PANEL B**

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

**PANELS A & B**

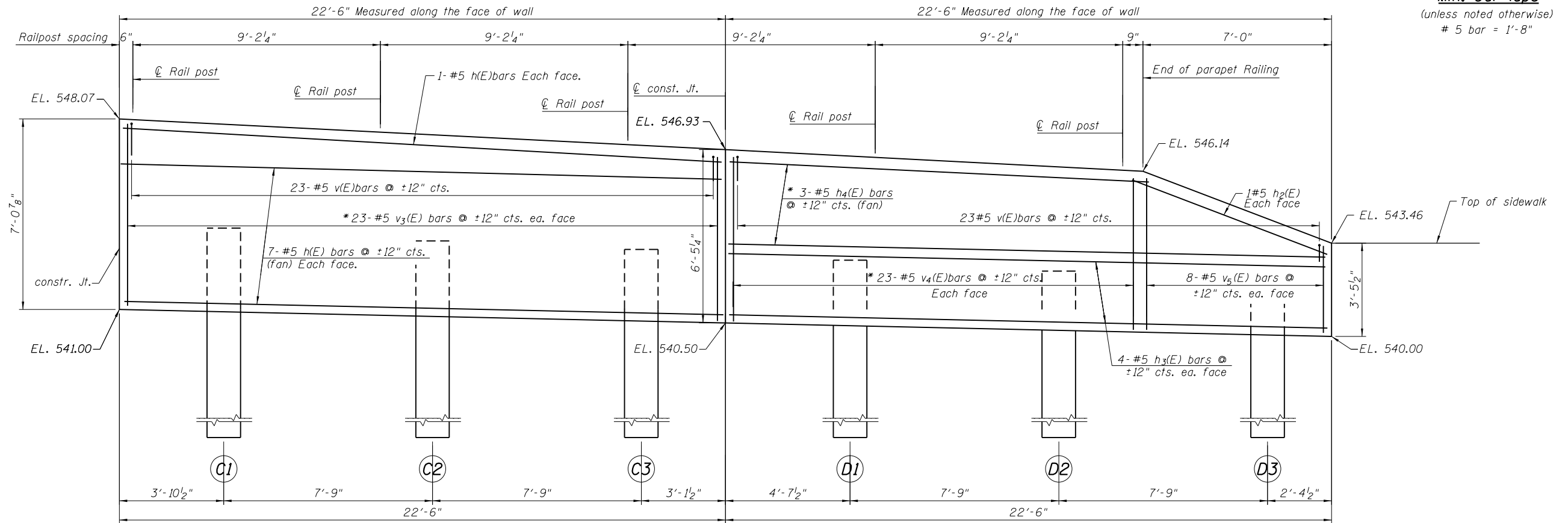
SHEET NO. 3 8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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MID-AMERICA ENGINEERING SERVICES			CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Note:  
For cross section thru panels, drilled pile and joint detail see sht. 5 of 8.  
For Soldier pile data & Bill of Material see sht. 6 of 8.

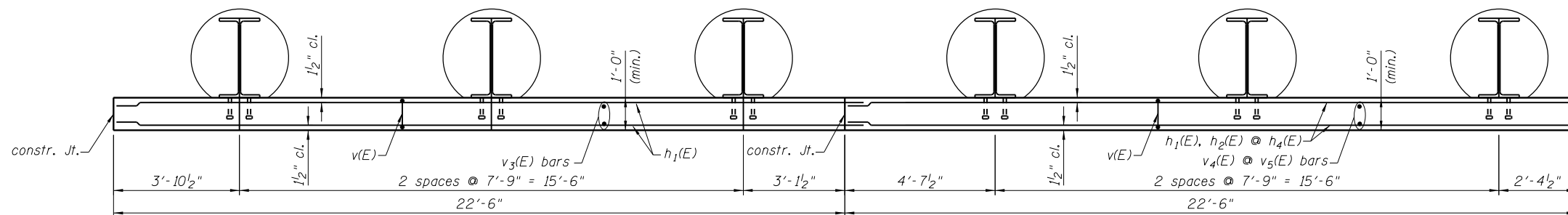
\* order  $v_3(E)$   $v_4(E)$  &  $v_5(E)$  bars full length cut to fit as per Bar Cutting Diagram shown on sht. 6 of 8. Use remainder of bars on the opposite face of the wall.

**Min. bar laps**  
(unless noted otherwise)  
# 5 bar = 1'-8"



**ELEVATION  
PANEL C**

**ELEVATION  
PANEL D**



**PLAN  
PANEL C**

**PLAN  
PANEL D**

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

**PANELS C & D**

SHEET NO. 4 8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	514
	RETAINING WALL 4		CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

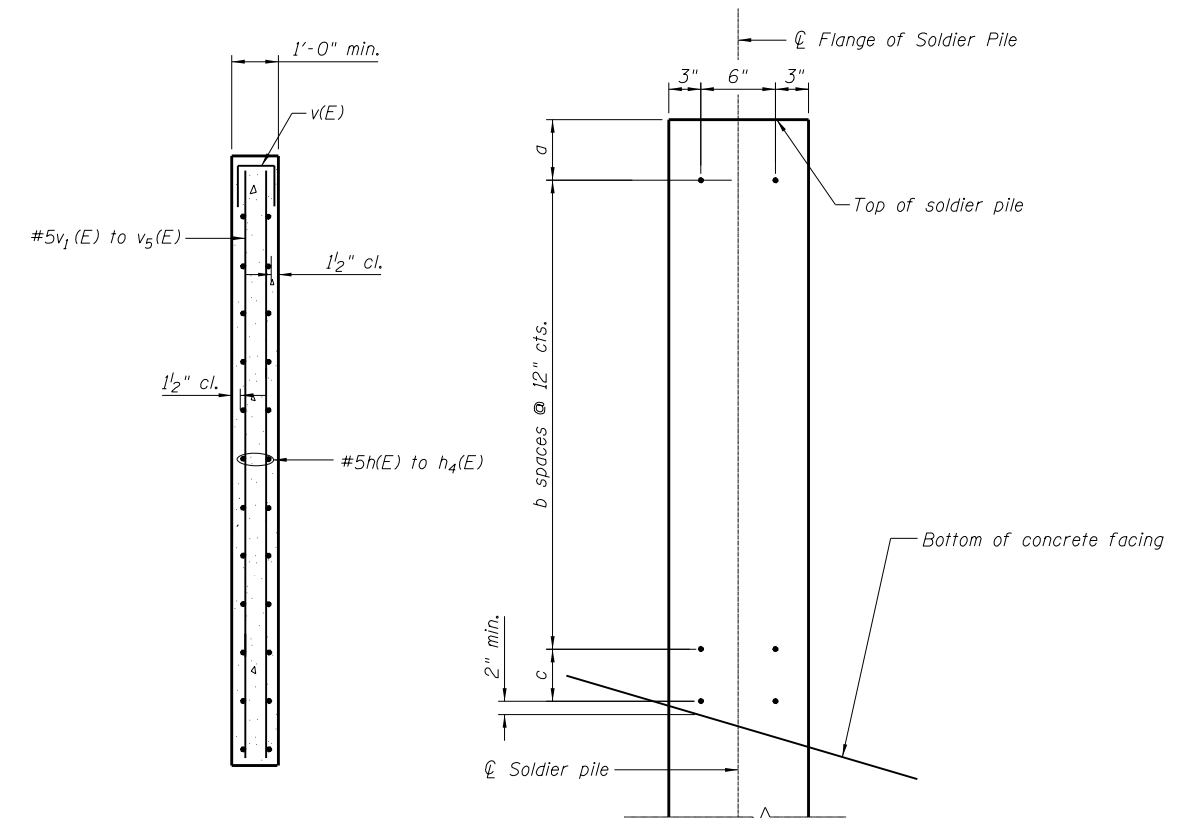
MID-AMERICA ENGINEERING SERVICES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SOLDIER PILE DATA**

Panel	Soldier Pile Designations	Top of soldier Pile Elevation	Bottom of soldier Pile Elevation	Top of concrete encasement	Top of CLSM	Stud Shearconnectors			
						a	b	c	No. per pile
A	A <sub>1</sub> HP Section	543.26	520.00	540.02	542.76	3"	2	9 1/4"	8
	A <sub>2</sub> HP Section	543.92	520.00	540.20	543.42	3"	3	3 3/4"	10
	A <sub>3</sub> HP Section	544.17	520.00	540.36	543.67	3"	3	4 3/4"	10
B	B <sub>1</sub> HP Section	544.35	520.00	540.54	543.85	3"	3	4 1/4"	10
	B <sub>2</sub> HP Section	544.66	520.00	540.71	544.16	3"	3	6"	10
	B <sub>3</sub> HP Section	544.77	520.00	540.88	544.27	3"	3	5"	10
C	C <sub>1</sub> HP Section	544.61	520.00	540.88	544.11	3"	3	3 1/4"	10
	C <sub>2</sub> HP Section	544.09	520.00	540.71	543.59	3"	2	11"	8
	C <sub>3</sub> HP Section	543.68	520.00	540.54	543.18	3"	2	8"	8
D	D <sub>1</sub> HP Section	543.30	520.00	540.36	542.80	3"	2	4 1/2"	8
	D <sub>2</sub> HP Section	542.90	520.00	540.20	542.40	3"	2	3"	8
	D <sub>3</sub> HP Section	542.51	520.00	540.02	542.00	3"	2	0"	6

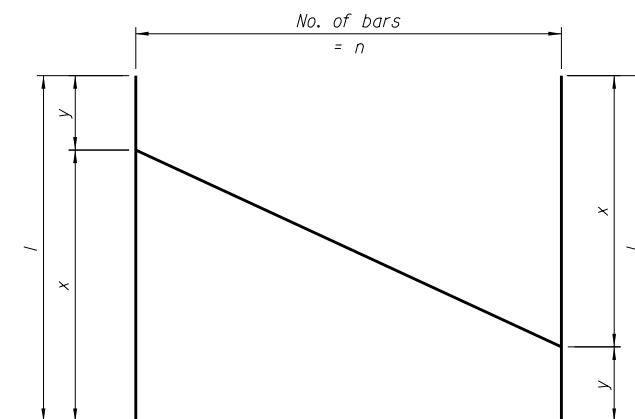


SECTION THRU PANEL

SHEAR STUD SPACING DETAIL

**BAR DIMENSIONS**

Bar	n	y	x	l
v <sub>1</sub> (E)	8	3'-10"	6'-9"	10'-7"
v <sub>3</sub> (E)	23	6'-2"	6'-8"	12'-10"
v <sub>4</sub> (E)	15	5'-8"	6'-2"	11'-10"
v <sub>5</sub> (E)	8	3'-2"	5'-8"	8'-10"
h <sub>1</sub> (E)	3	15'-0"	22'-0"	37'-0"
h <sub>4</sub> (E)	3	17'-0"	24'-0"	41'-0"



BAR CUTTING DIAGRAM

(v<sub>1</sub>(E) @ v<sub>3</sub>(E) to v<sub>5</sub>(E) bars) (h<sub>1</sub>(E) @ h<sub>4</sub>(E) bars)

BARS v(E)

**SOLDIER PILE WALL DATA**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	42	#5	25'-0"	—
h <sub>1</sub> (E)	3	#5	37'-0"	—
h <sub>2</sub> (E)	4	#5	7'-0"	—
h <sub>3</sub> (E)	8	#5	22'-2"	—
h <sub>4</sub> (E)	3	#5	41'-0"	—
v(E)	92	#5	2'-2"	U
v <sub>1</sub> (E)	8	#5	10'-7"	—
v <sub>2</sub> (E)	76	#5	6'-9"	—
v <sub>3</sub> (E)	23	#5	12'-10"	—
v <sub>4</sub> (E)	15	#5	11'-10"	—
v <sub>5</sub> (E)	8	#5	8'-10"	—
Concrete Structures			Cu. Yd.	24.0
Reinforcement Bars (Epoxy coated)			Pound	2960

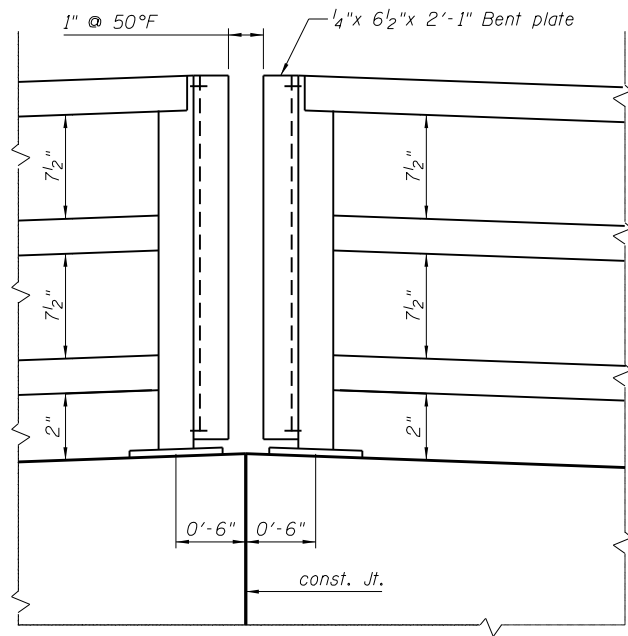
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DRAWN - GSJ
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MID-AMERICA ENGINEERING SERVICES

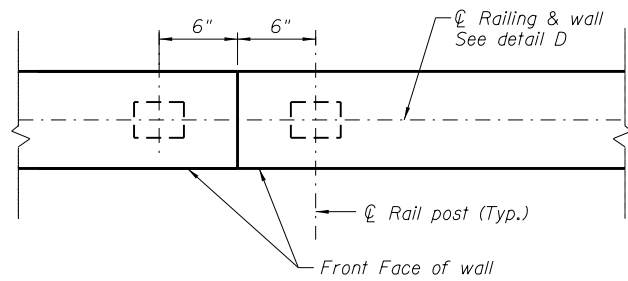
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	600	60-(30,31,128)-3	Madison	529	516
RETAINING WALL 4			CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



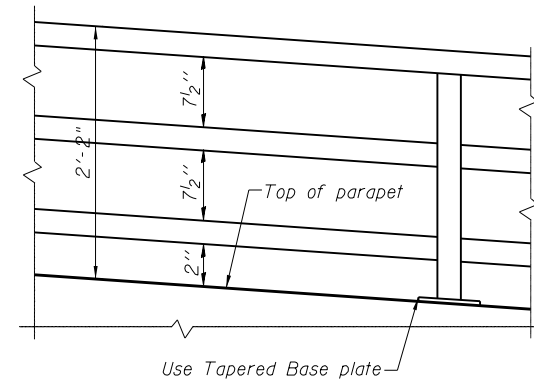
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



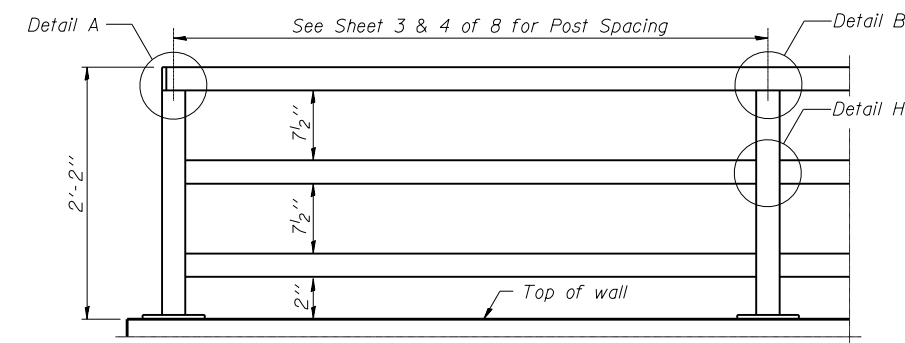
ELEVATION



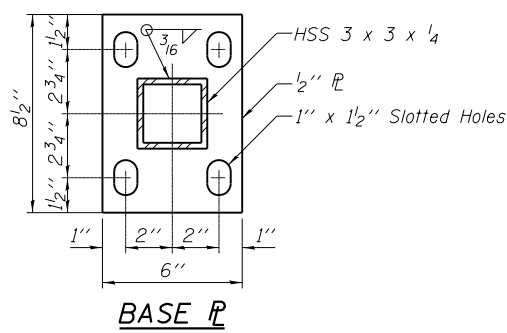
PLAN  
DETAIL CC



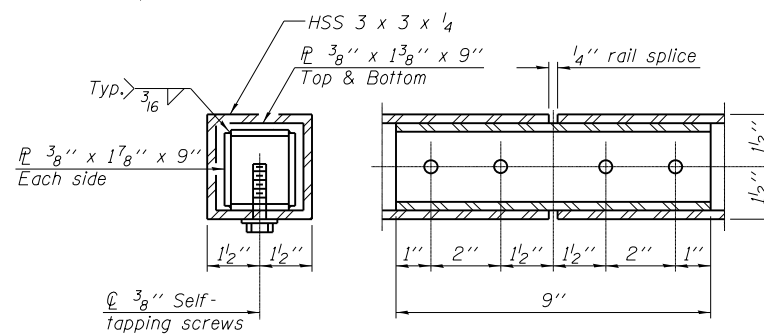
PARAPET RAILING ELEVATION  
(Inclined top of wall)



PARAPET RAILING  
ELEVATION  
(Inside Face of Three Element Rail)

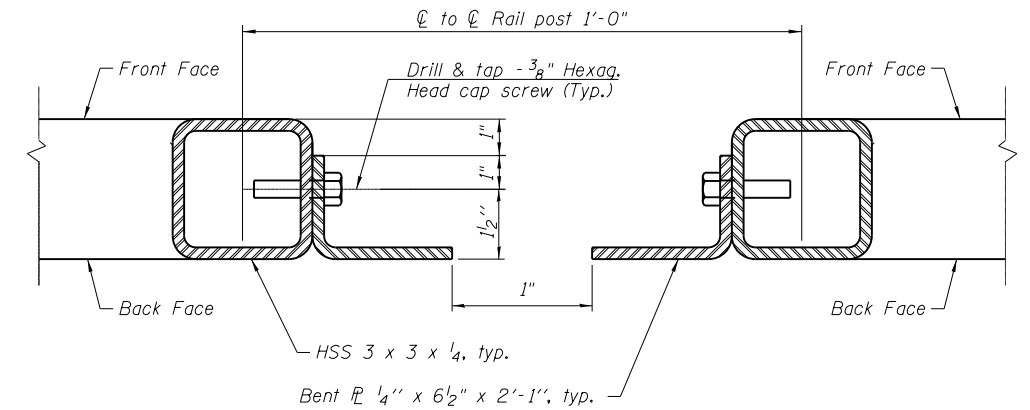


BASE PLATE

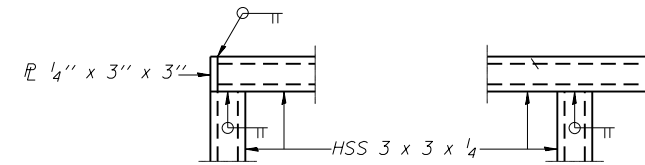


RAIL SPLICE

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

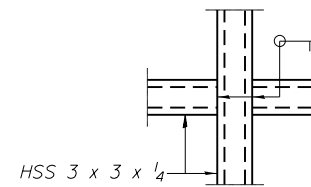


DETAIL D

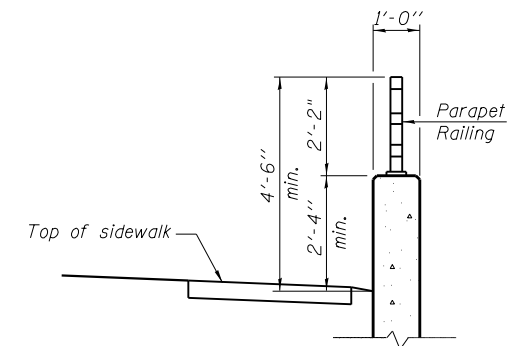


DETAIL A

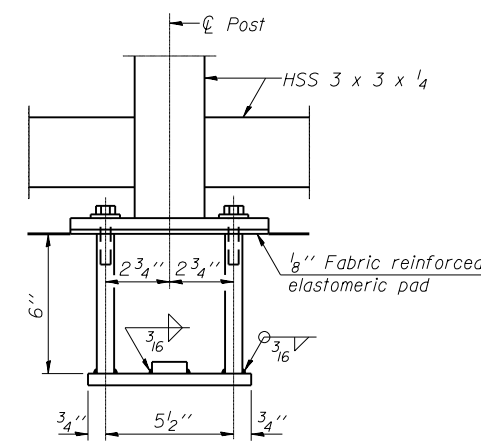
DETAIL B



DETAIL H

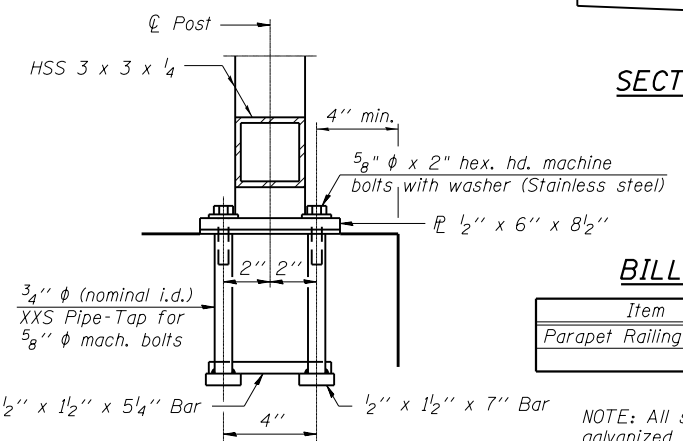


SECTION THRU PARAPET



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8 inch diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	76

NOTE: All steel railing elements shall be galvanized according to article 509.05 of the Standard Specifications.

HHCS designates Hexagonal head cap screws  
HHS designates hollow structural section.

PARAPET RAILING

SHEET NO. 7 8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	517
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 76B85		

MID-AMERICA ENGINEERING SERVICES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation  
Division of Highways  
SOIL BORING LOG  
Page 1 of 1  
Date 3/25/09

ROUTE FAP 600 DESCRIPTION Retaining Wall at Kasky Funeral Home (Sta. 179+30 to 180+20) LOGGED BY S. Wiszkon

SECTION 60-(30,31,128)-1 LOCATION SEC. 27, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison / St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. N/A  
Station N/A

BORING NO. RW 0  
Station 179+10  
Offset 22.00ft LT  
Ground Surface Elev. 544.0 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	MOISTURE (%)
0.00	Surface Water Elev. _____ ft		
0.00	Stream Bed Elev. _____ ft		
0.00	Groundwater Elev. _____ ft		
0.00	First Encounter _____ ft		
0.00	Upon Completion _____ ft		
0.00	After _____ Hrs. _____ ft		
2	Brown Silt LOAM with Cinders, Brick, and Gravel		
2		0.75	27
1		P	
540.0			
3	Brown Silty Clay LOAM		
3		0.33	31
2		B/20	
537.5			
1	Brown Silty CLAY		
1		0.16	32
1		B	
535.0			
2	Gray Silty Clay LOAM with Sewage Smell		
2		0.59	31
1		B	
3			
2		1.14	27
2		S/20	
2			
4		1.14	27
4		S/20	
2			
3		1.14	29
4		S/20	
525.5			
END OF BORING			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation  
Division of Highways  
SOIL BORING LOG  
Page 1 of 1  
Date 8/23/08

ROUTE FAP 600 DESCRIPTION Retaining Wall at Kasky Funeral Home LOGGED BY E. Stewart

SECTION 60-(30,31,128)-1 LOCATION SEC. 27, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A  
Station N/A

BORING NO. RW 5  
Station 180+15  
Offset 30.00ft LT  
Ground Surface Elev. 545.2 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	MOISTURE (%)
0.00	Surface Water Elev. _____ ft		
0.00	Stream Bed Elev. _____ ft		
0.00	Groundwater Elev. _____ ft		
0.00	First Encounter _____ ft		
0.00	Upon Completion _____ ft		
0.00	After _____ Hrs. _____ ft		
0.00	Medium Brown Silty Clay LOAM A-6(10) See Classification @ 1 ft		
0.00		0.00	15
543.2			
0.00	Light Brown Silty Clay LOAM A-6(12) See Classification @ 5 ft		
1.00		1.00	14
1.50		1.50	19
0.50		0.50	18
0.30		0.30	22
0.50		0.50	21
536.7			
1.20	Medium Brown Silty Clay LOAM A-6(12) See Classification @ 9 ft		
1.20		1.20	26
535.2			
END OF HAND AUGER			
Pocket Penetrometer used for Cu			
15			
20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation  
Division of Highways  
SOIL BORING LOG  
Page 1 of 1  
Date 8/23/08

ROUTE FAP 600 DESCRIPTION Retaining Wall at Kasky Funeral Home LOGGED BY E. Stewart

SECTION 60-(30,31,128)-1 LOCATION SEC. 27, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A  
Station N/A

BORING NO. RW 5A  
Station 179+35  
Offset 31.00ft LT  
Ground Surface Elev. 545.6 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	MOISTURE (%)
0.50	Medium Brown		18
0.58		0.58	15
544.1			
1.50	Light Brown Silt LOAM		14
1.10		1.10	19
541.6			
1.10	Medium Brown CLAY		28
1.10		1.10	28
539.5			
1.00	Light Brown Silt LOAM		26
1.00		1.00	26
537.6			
1.30	Medium Brown		29
1.50		1.50	32
535.6			
END OF HAND AUGER			
Pocket Penetrometer used for Cu			
15			
20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED - KRG  
CHECKED - MJK  
DRAWN - GSJ  
CHECKED - MJK

BORING LOGS

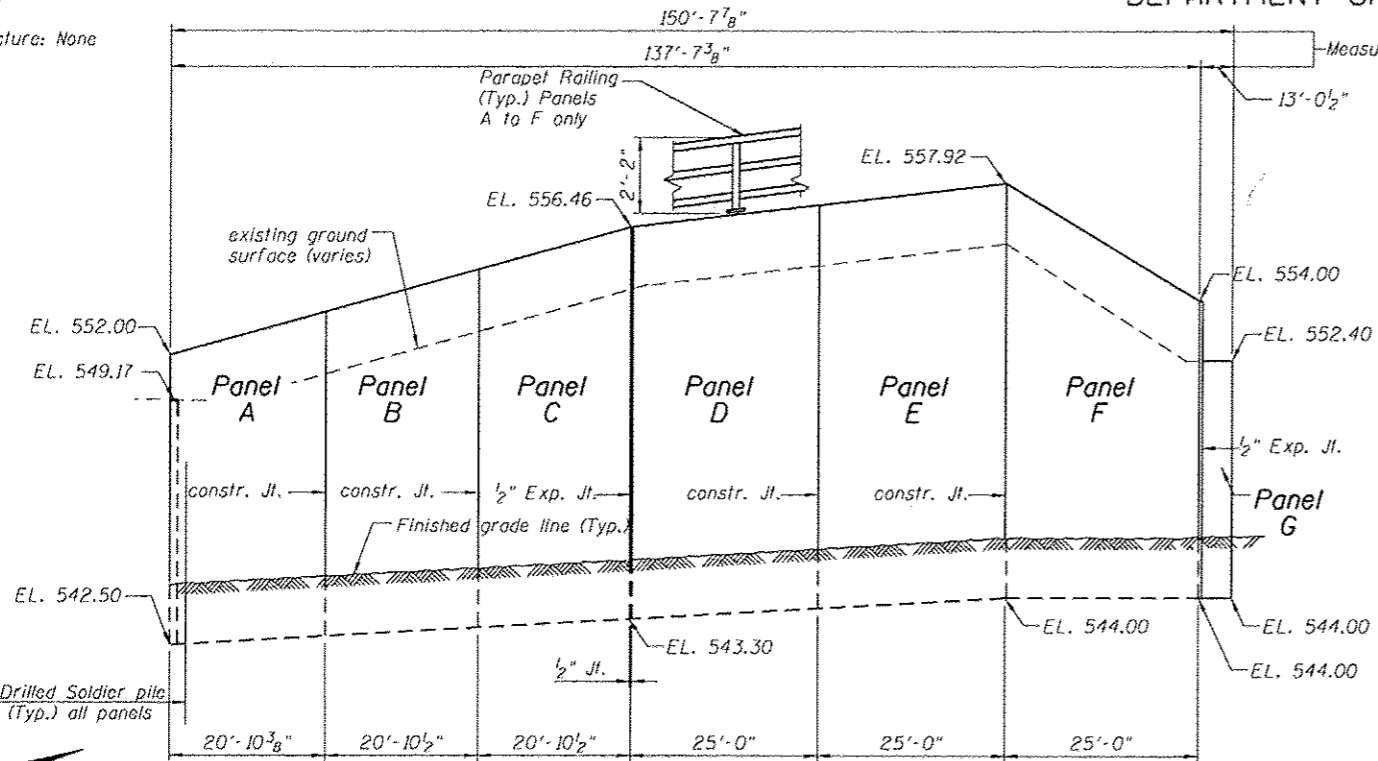
SHEET NO. 8 8 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	518
RETAINING WALL 4			CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

MID-AMERICA ENGINEERING SERVICES

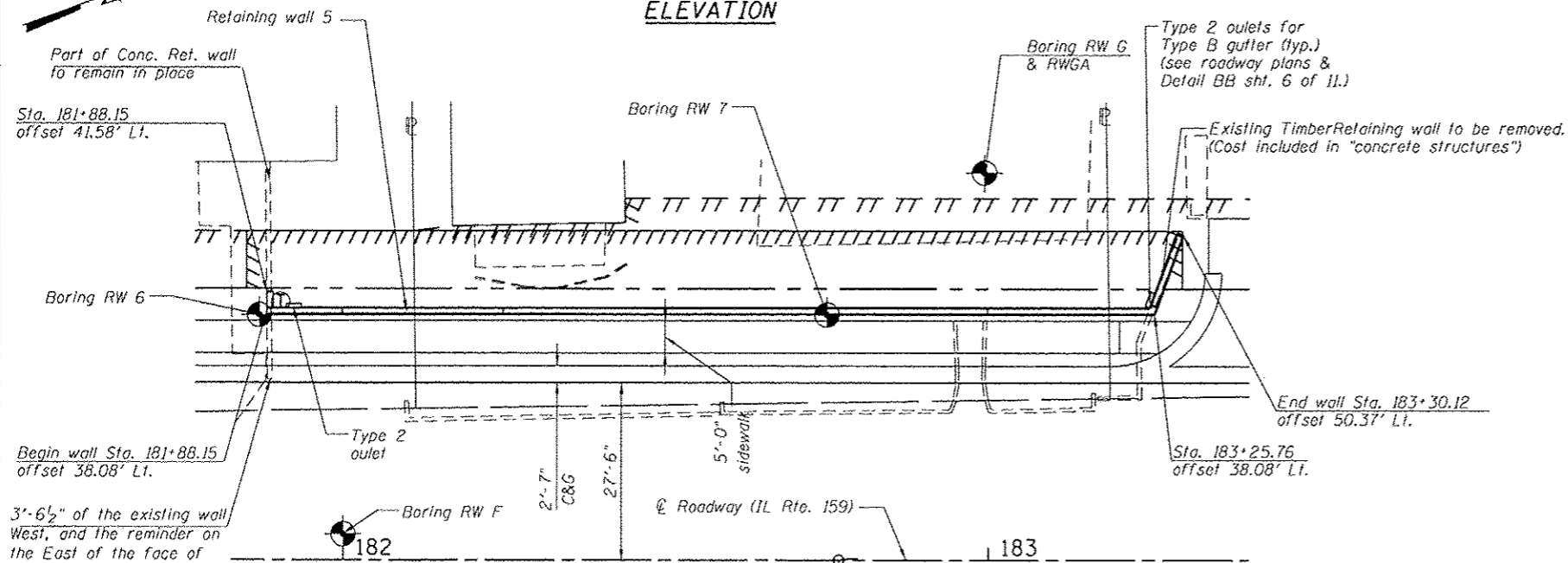
B.M. - # 111 Chiseled on SE corner of concrete foundation of handhole located on the SW Quadrant of IL. Rte. 159 and Wickliffe Ave. Elev. 546.806

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

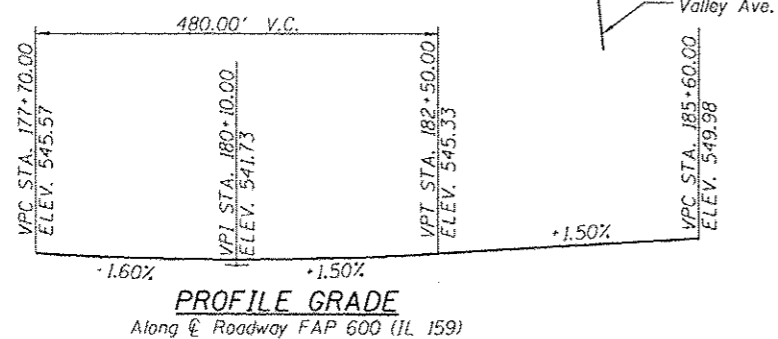
Existing Structure: None



ELEVATION



PLAN



PROFILE GRADE

Along  $\hat{c}$  Roadway FAP 600 (IL 159)

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

**LEGEND**

TT TT TT TT TT TT	Temporary Easement
TTTTTTTTTTTTTTTTTTTT	Permanent Easement
-----	Proposed ROW
-----	Existing ROW

\* See sheet 3 to 6 and 8 of 11 for soldier pile locations and tip elevations.

**INDEX OF SHEETS**

1. General Plan
2. General Notes, Cross sections & Total Bill of Material
3. Panels A & B
4. Panels C & D
5. Panels E & F
6. Panel G
7. Soldier pile wall details
8. Soldier pile wall data
9. Parapet Railing
10. Boring Logs
11. Boring Logs

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 36,000$  psi (soldier piles)

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges

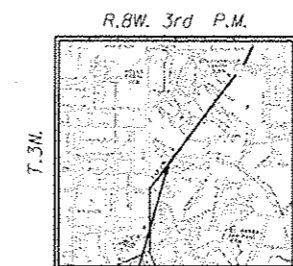


Expires: 11/30/2014

*m. fr Karshenas* 02/28/2013

**APPROVED**  
For Structural Adequacy Only

*Curt Kung*  
Engineer of Bridges & Structures



PROPOSED WALL 5

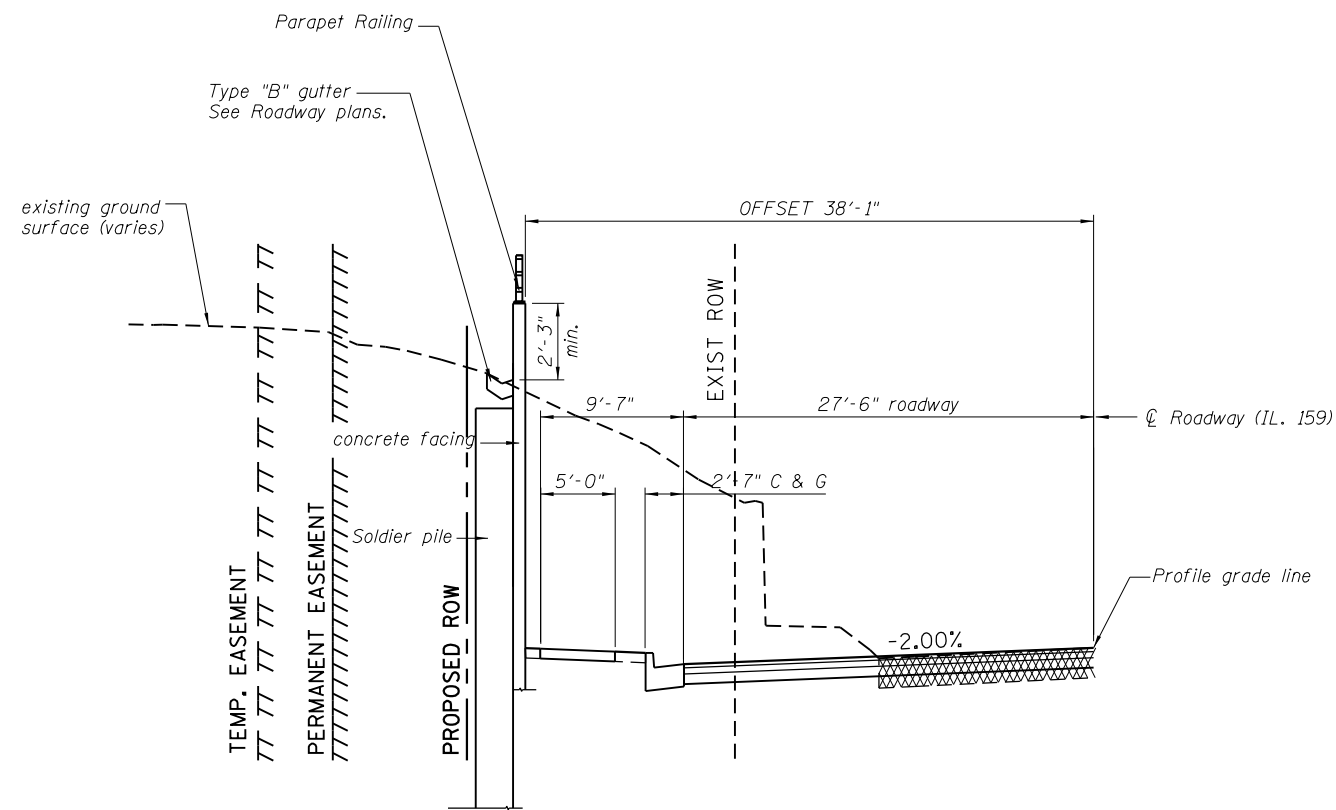
LOCATION SKETCH

MID-AMERICA ENGINEERING SERVICES

**GENERAL PLAN**  
**IL RTE. 159**  
**FAP ROUTE 600 SEC. 60-(30,31,128)-3**  
**MADISON COUNTY**  
**STA. 181+88.15 TO STA. 183+30.12**  
**STRUCTURE No. 060-W007**

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	519
11 SHEETS	Structure No. 060-W007		CONTRACT NO. 76B85		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**CROSS SECTION**  
(Looking upstation)  
(Panels A to F)

**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	179
Concrete Structures	Cu. Yd.	69.3
Stud Shear connectors	Each	540
Reinforcement Bars, Epoxy Coated	Pound	8360
Parapet Railing,	Foot	138
Geocomposite Wall Drain	Sq. Yd.	88
Pipe Underdrains for Structures, 4"	Foot	184
Furnishing Soldier Piles(w section)	Foot	856
Furnishing Soldier Piles(Built-up section)	Foot	40
Drilling and setting Soldier piles (in soil)	Cu. Ft.	6425
Untreated Timber Lagging	Sq. Ft.	1205
Concrete Retaining Wall Removal	Foot	14

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All exposed edges of concrete shall be bevelled  $\frac{3}{4}$ ".
3. The geocomposite wall drain shall be constructed according to section 591 of the Standard Specifications. The contractor shall insure that the bottom, sides and the top edges are protected from soil entering or sealing the drain while placing the pervious fabric side of the drain towards the soil. Geocomposite wall drain shall be installed in stages as the excavation processes downward. Splicing should be minimized, following proper splice practices to insure no long term soil contamination.
4. Buildings behind the retaining wall are susceptible to damage due to construction operations. The contractor shall conduct the wall construction such that the stability of the buildings behind the wall is not jeopardized. No additional compensation will be given to the contractor for extra measures.

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

**GENERAL NOTES, CROSS SECTION & TOTAL BILL MATERIAL**

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	520
11 SHEETS	Structure No. 060-W007		CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

MID-AMERICA ENGINEERING SERVICES

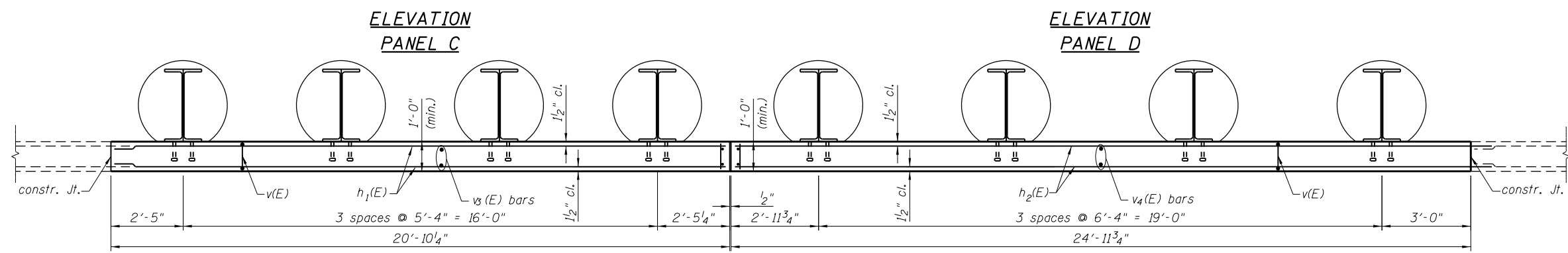
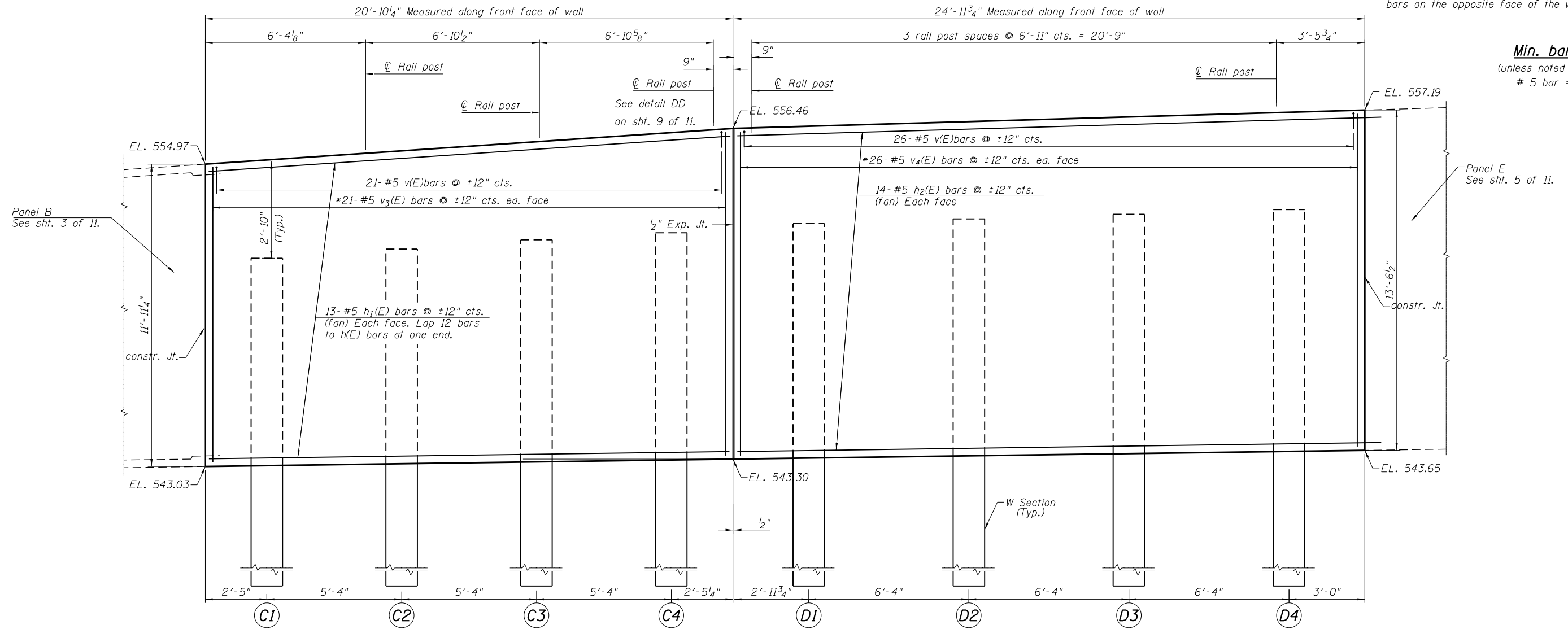


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Note:  
For cross section thru panels, drilled pile and joint detail see sht. 7 of 11.  
For Soldier pile data & Bill of Material see sht. 8 of 11  
For Rail Post Details, see sheet 9 of 11.

\* order  $v_3(E)$  &  $v_4(E)$  bars full length cut to fit  
as per Bar Cutting Diagram shown  
on sht. 8 of 11. Use remainder of  
bars on the opposite face of the wall.

**Min. bar laps**  
(unless noted otherwise)  
# 5 bar = 1'-8"



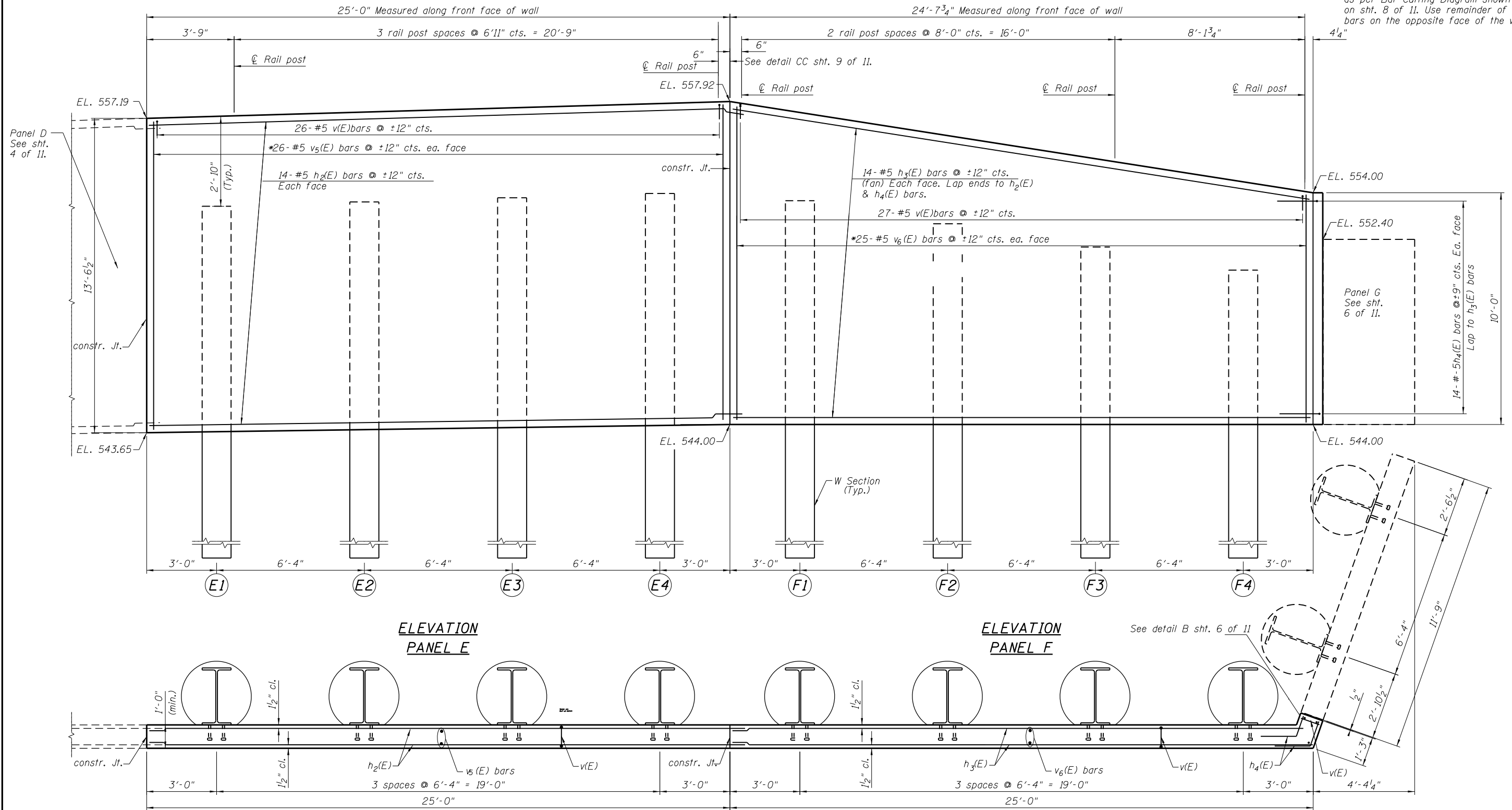
DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

MID-AMERICA ENGINEERING SERVICES

SHEET NO. 4 11 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	522
	Structure No. 060-W007			CONTRACT NO. 76B85	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Note:  
For cross section thru panels drilled pile and const. Jt. details. see sht. 7 of 11.  
For Soldier pile data & Bill of Material see sht. 8 of 11.  
For Rail Post Details, see sheet 9 of 11.



\* order v5(E) & v6(E) bars full length cut to fit as per Bar Cutting Diagram shown on sht. 8 of 11. Use remainder of bars on the opposite face of the wall.

Panel D  
See sht. 4 of 11.

Panel G  
See sht. 6 of 11.

ELEVATION  
PANEL E

ELEVATION  
PANEL F

PLAN  
PANEL E

PLAN  
PANEL F

PANELS E & F

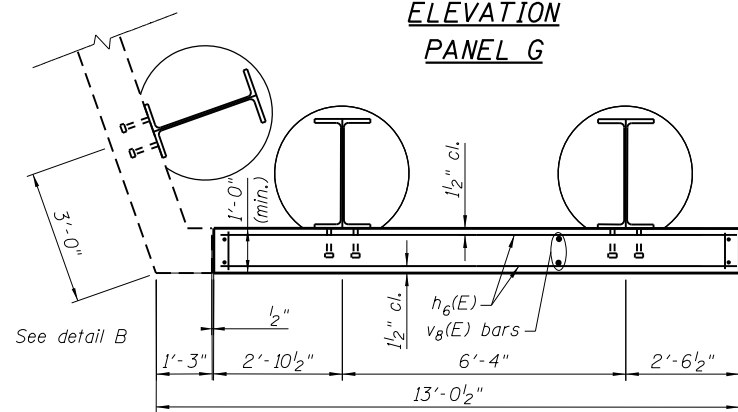
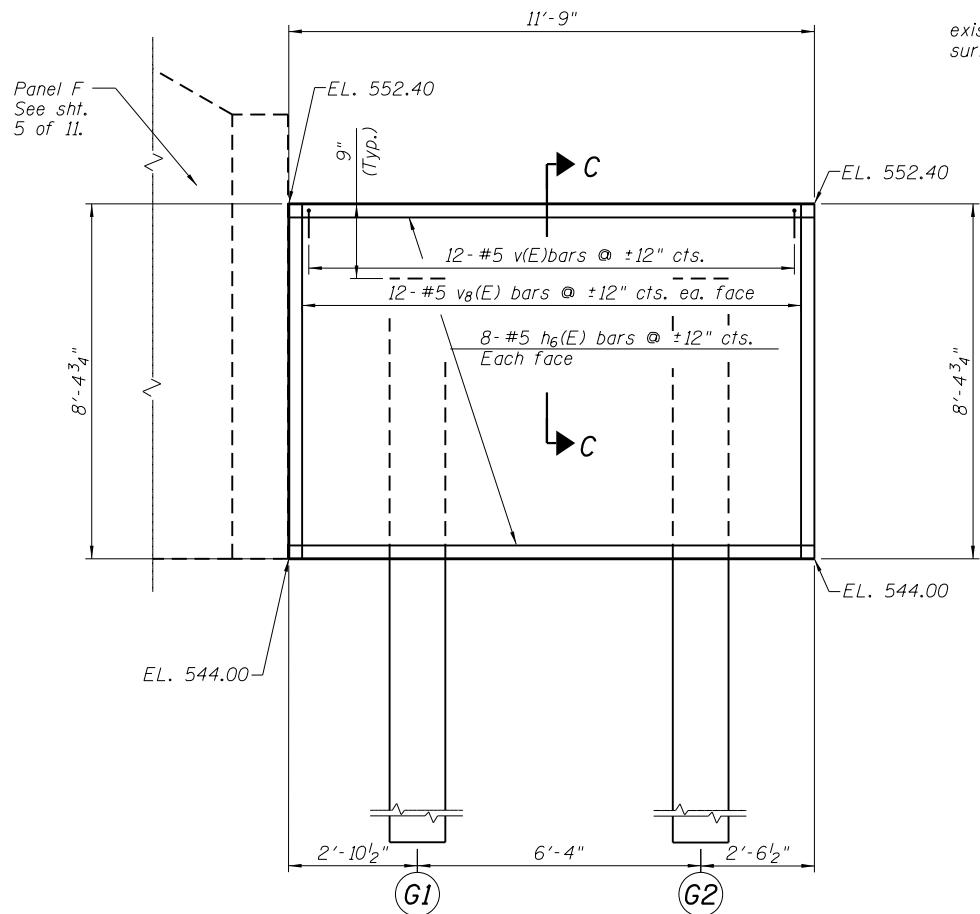
DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	523
11 SHEETS		Structure No. 060-W007		CONTRACT NO. 76B85	
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

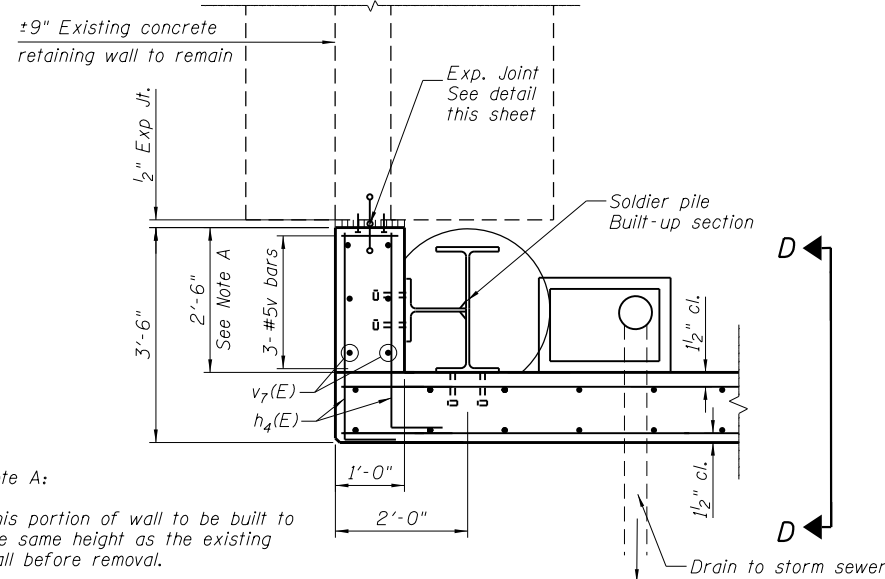
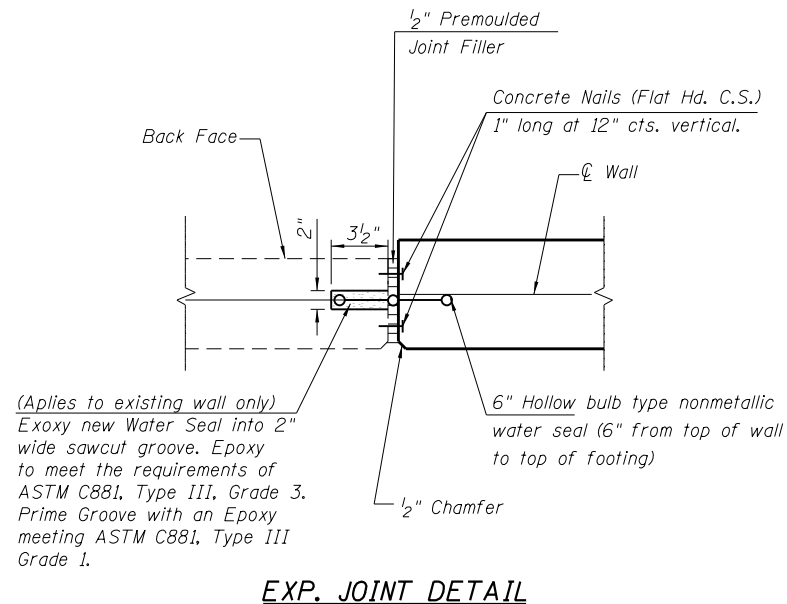
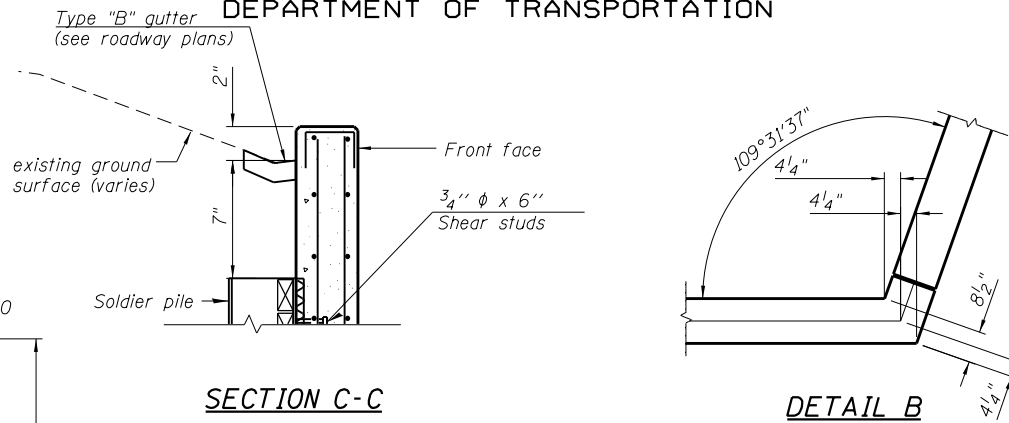
MID-AMERICA ENGINEERING SERVICES

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DEPARTMENT OF TRANSPORTATION

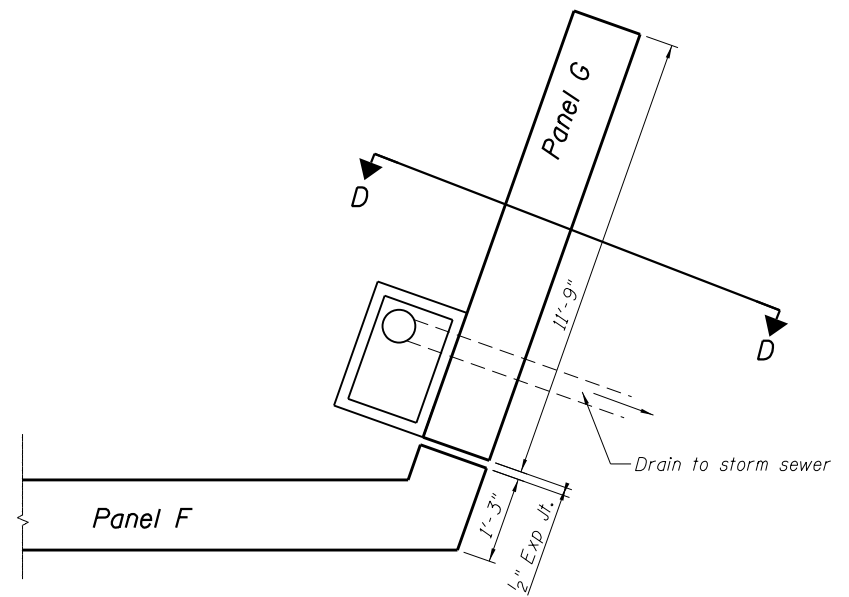
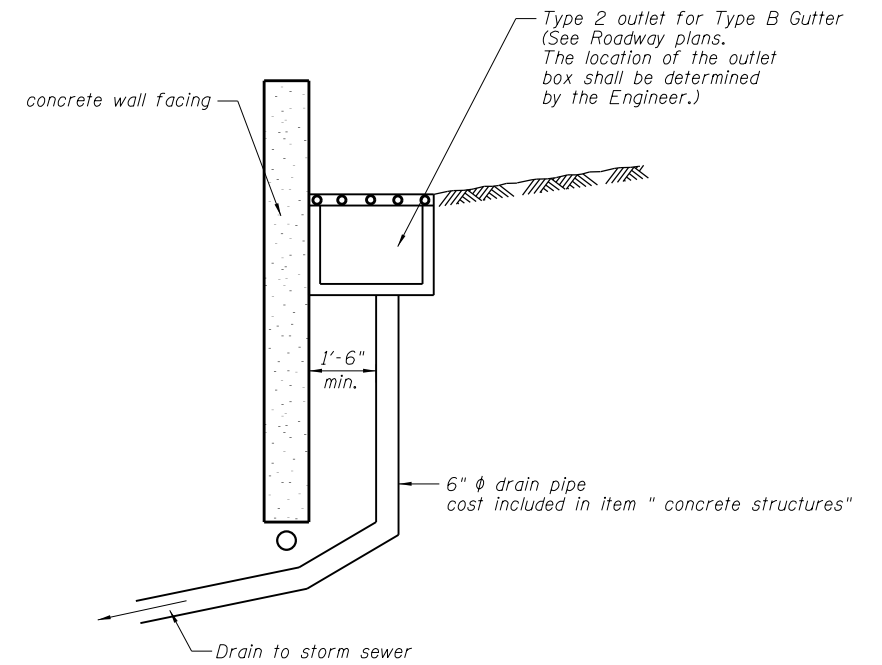
Note:  
For cross section thru panels drilled pile and const. Jt. details, see sht. 7 of 11.  
For Soldier pile data & Bill of Material see sht. 8 of 11.



**PLAN  
PANEL G**



Note A:  
This portion of wall to be built to the same height as the existing wall before removal.



See Detail A for location of Type 2 Outlet at South End of wall

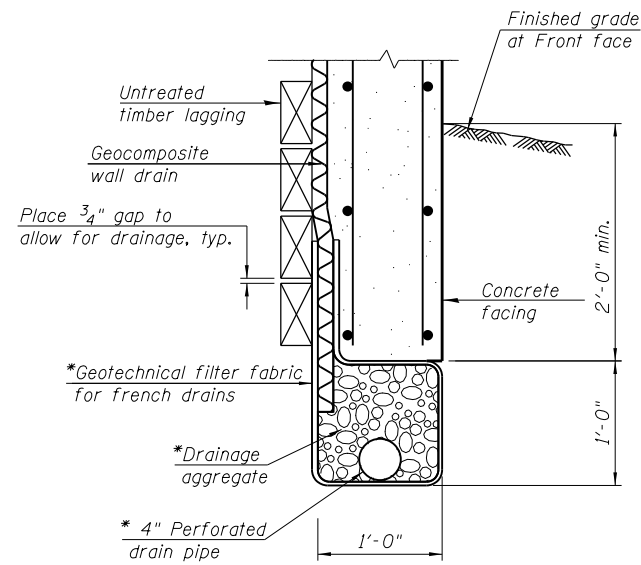
DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO. 6	F.A.P. RTE. 600	60-(30,31,128)-3		Madison	529	524
11 SHEETS		Structure No. 060-W007		CONTRACT NO. 76B85		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

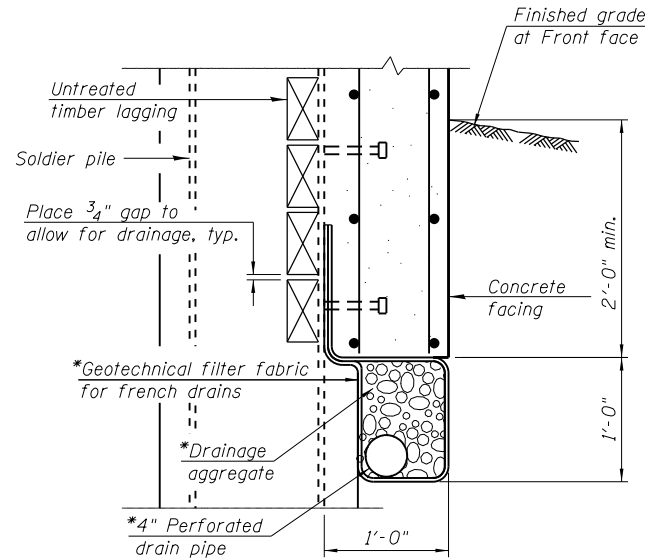
MID-AMERICA ENGINEERING SERVICES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

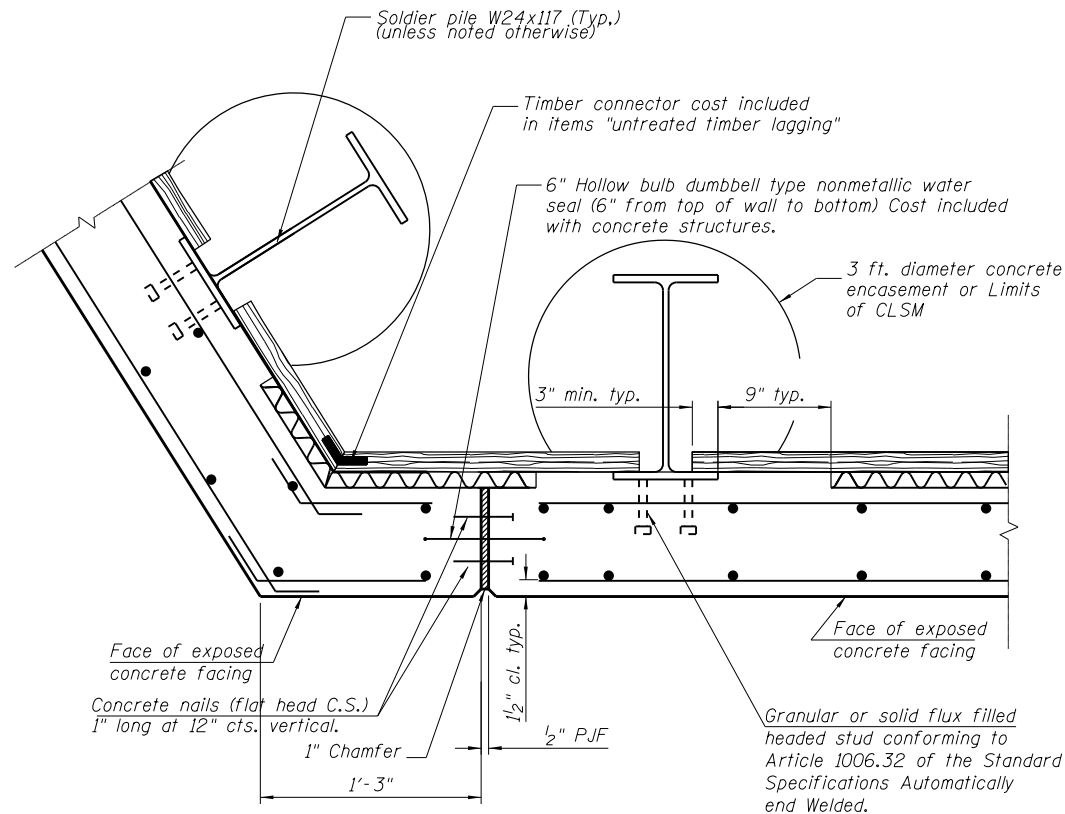


**UNDER DRAIN DETAIL  
BETWEEN SOLDIER PILES**

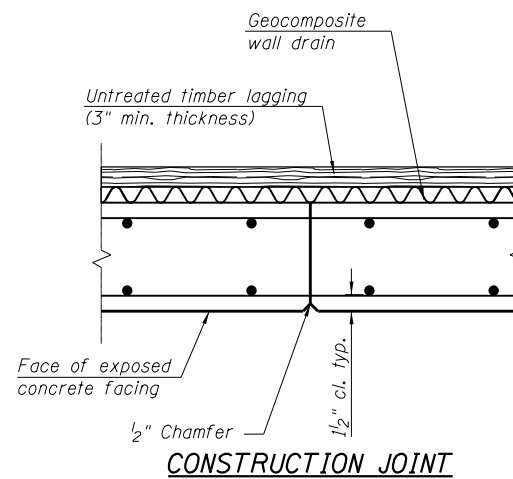


**UNDER DRAIN DETAIL  
AT SOLDIER PILES**

\* Included in the cost of Pipe Underdrains for structures, 4".

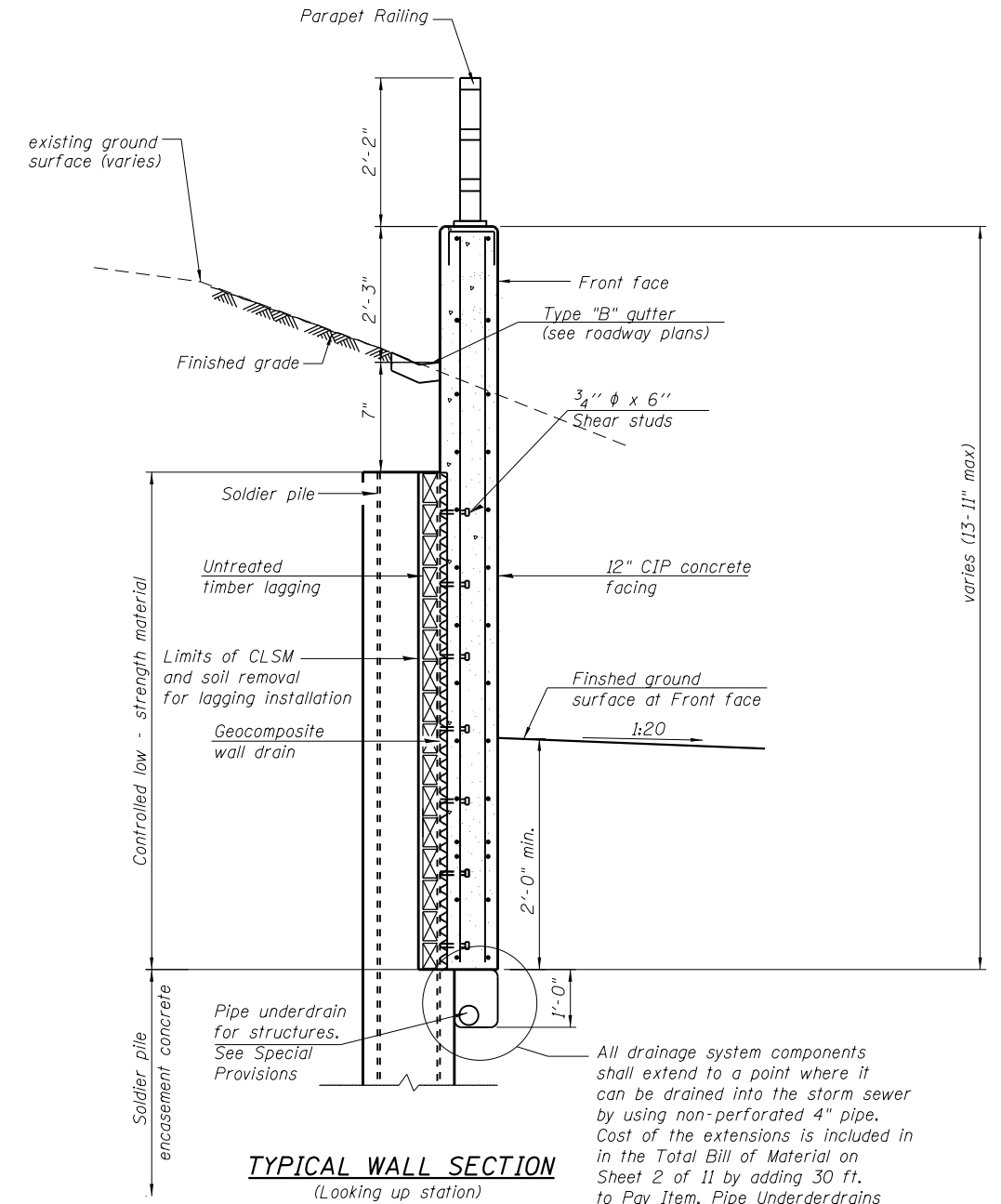


**EXPANSION JOINT**



**CONSTRUCTION JOINT**

Note: The contractor is responsible for the design and performance of the lagging using no less than 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.



**TYPICAL WALL SECTION  
(Looking up station)**

All drainage system components shall extend to a point where it can be drained into the storm sewer by using non-perforated 4" pipe. Cost of the extensions is included in the Total Bill of Material on Sheet 2 of 11 by adding 30 ft. to Pay Item, Pipe Underdrains for Structures, 4".

DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

**SOLDIER PILE WALL DETAILS**

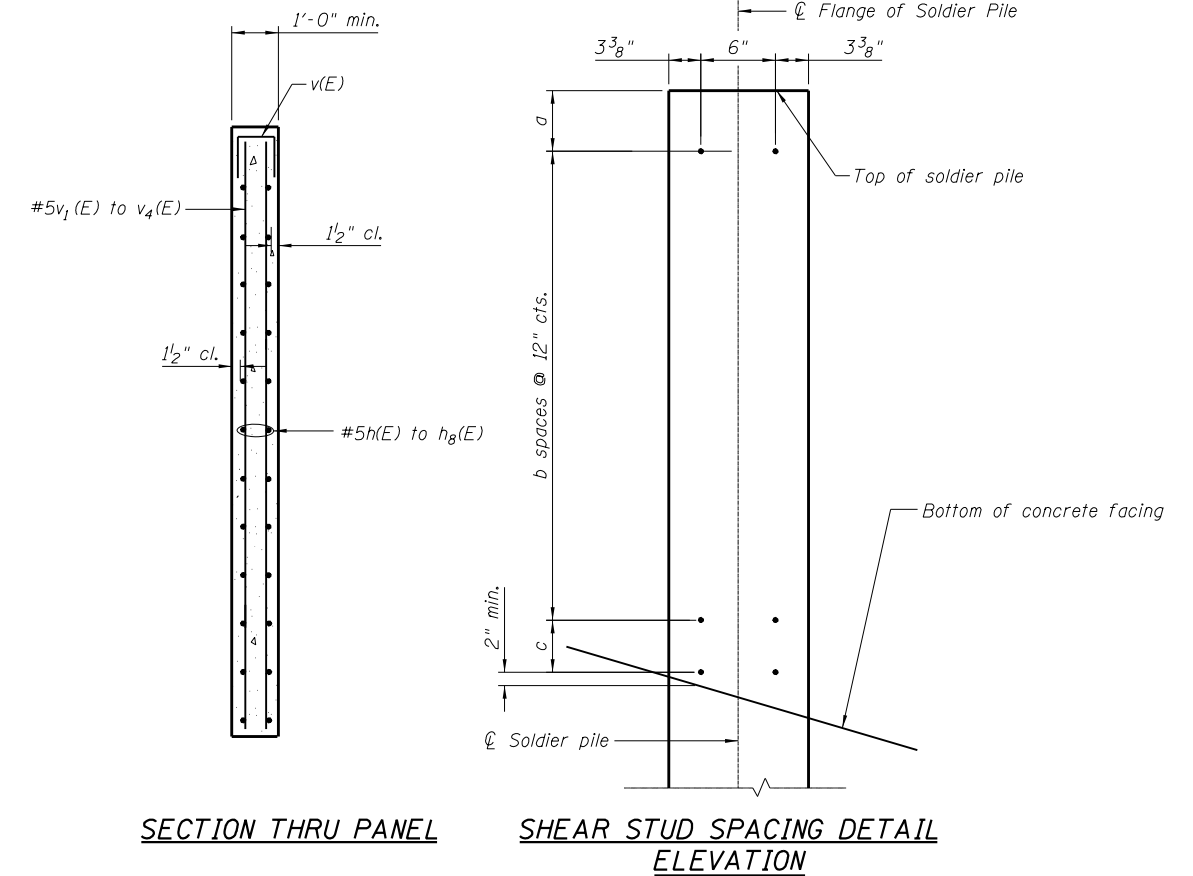
SHEET NO. 7 11 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	525
Structure No. 060-W007			CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

MID-AMERICA ENGINEERING SERVICES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SOLDIER PILE DATA**

Panel	Soldier Pile Designations	Top of soldier Pile Elevation	Bottom of soldier Pile Elevation	Top of concrete encasement	Top of CLSM	Stud Shearconnectors			
						a	b	c	No. per pile
A	A <sub>1</sub> Built-up Section	548.59	508.59	542.50	548.59	3"	5	8"	28
	A <sub>2</sub> W Section	549.69	508.69	542.58	549.69	3"	6	8"	16
	A <sub>3</sub> W Section	550.08	509.08	542.66	550.08	3"	7	0"	16
	A <sub>4</sub> W Section	550.47	509.47	542.73	550.47	3"	7	3 <sup>7</sup> / <sub>8</sub> "	18
B	B <sub>1</sub> W Section	550.83	509.83	542.79	550.83	3"	7	7 <sup>1</sup> / <sub>4</sub> "	18
	B <sub>2</sub> W Section	551.21	510.21	542.86	551.21	3"	7	11"	18
	B <sub>3</sub> W Section	551.59	510.59	542.93	551.59	3"	8	2 <sup>3</sup> / <sub>4</sub> "	20
	B <sub>4</sub> W Section	551.97	510.97	542.99	551.97	3"	8	6 <sup>5</sup> / <sub>8</sub> "	20
C	C <sub>1</sub> W Section	552.31	511.31	543.05	552.31	3"	8	10"	20
	C <sub>2</sub> W Section	552.69	511.69	543.12	552.69	3"	9	0"	20
	C <sub>3</sub> W Section	553.07	512.07	543.19	553.07	3"	9	5 <sup>3</sup> / <sub>8</sub> "	20
	C <sub>4</sub> W Section	553.45	512.45	543.26	553.45	3"	9	9"	22
D	D <sub>1</sub> W Section	553.71	512.71	543.33	553.71	3"	9	11 <sup>1</sup> / <sub>2</sub> "	22
	D <sub>2</sub> W Section	553.90	512.90	543.42	553.90	3"	10	0"	22
	D <sub>3</sub> W Section	554.08	513.08	543.51	554.08	3"	10	0"	22
	D <sub>4</sub> W Section	554.26	513.26	543.60	554.26	3"	10	2 <sup>3</sup> / <sub>4</sub> "	24
E	E <sub>1</sub> W Section	554.44	513.44	543.68	554.44	3"	10	4"	24
	E <sub>2</sub> W Section	554.63	513.63	543.77	554.63	3"	10	5"	24
	E <sub>3</sub> W Section	554.81	513.81	543.86	554.81	3"	10	6"	24
	E <sub>4</sub> W Section	555.00	514.00	543.95	555.00	3"	10	7 <sup>1</sup> / <sub>2</sub> "	24
F	F <sub>1</sub> W Section	554.61	513.61	544.00	554.61	3"	10	2"	24
	F <sub>2</sub> W Section	553.62	512.62	544.00	553.62	3"	9	0"	20
	F <sub>3</sub> W Section	552.63	511.63	544.00	552.63	3"	8	2 <sup>1</sup> / <sub>2</sub> "	20
	F <sub>4</sub> W Section	551.63	511.63	544.00	551.63	3"	7	2 <sup>1</sup> / <sub>2</sub> "	18
G	G <sub>1</sub> W Section	551.65	512.65	544.00	551.65	3"	7	2 <sup>3</sup> / <sub>4</sub> "	18
	G <sub>2</sub> W Section	551.65	512.65	544.00	551.65	3"	7	2 <sup>3</sup> / <sub>4</sub> "	18

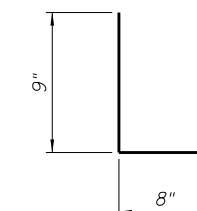
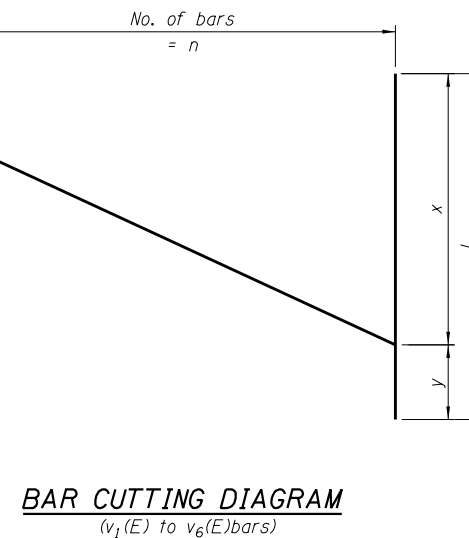
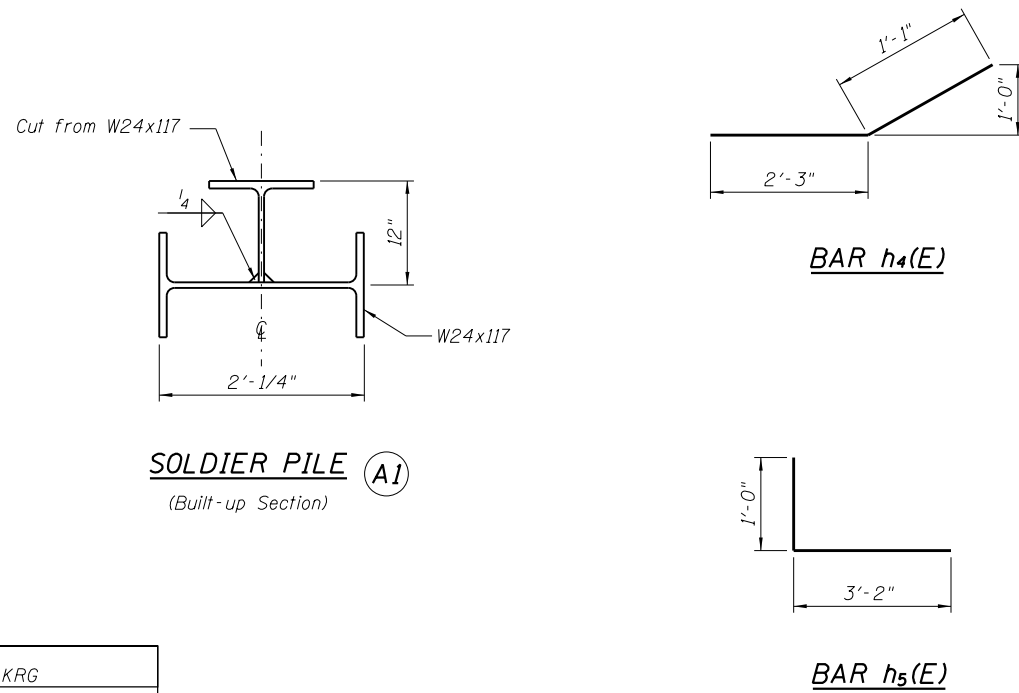


**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	48	#5	22'-6"	—
h <sub>1</sub> (E)	26	#5	20'-6"	—
h <sub>2</sub> (E)	56	#5	26'-6"	—
h <sub>3</sub> (E)	28	#5	24'-8"	—
h <sub>4</sub> (E)	28	#5	3'-4"	—
h <sub>5</sub> (E)	14	#5	4'-2"	—
h <sub>6</sub> (E)	16	#5	11'-5"	—
v(E)	157	#5	2'-2"	—
v <sub>1</sub> (E)	21	#5	19'-6"	—
v <sub>2</sub> (E)	21	#5	21'-11"	—
v <sub>3</sub> (E)	21	#5	24'-3"	—
v <sub>4</sub> (E)	26	#5	25'-10"	—
v <sub>5</sub> (E)	26	#5	26'-8"	—
v <sub>6</sub> (E)	25	#5	23'-0"	—
v <sub>7</sub> (E)	6	#5	6'-4"	—
v <sub>8</sub> (E)	24	#5	8'-0"	—
Concrete Structures			Cu. Yd.	69.3
Reinforcement Bars (Epoxy coated)			Pound	8360

**BAR DIMENSIONS**

Bar	n	y	x	l
v <sub>1</sub> (E)	21	9'-2"	10'-4"	19'-6"
v <sub>2</sub> (E)	21	10'-4"	11'-7"	21'-11"
v <sub>3</sub> (E)	21	11'-7"	12'-8"	24'-3"
v <sub>4</sub> (E)	26	12'-8"	13'-2"	25'-10"
v <sub>5</sub> (E)	26	13'-2"	13'-6"	26'-8"
v <sub>6</sub> (E)	25	13'-6"	9'-6"	23'-0"



DESIGNED - KRG
CHECKED - MJK
DRAWN - GSJ
CHECKED - MJK

**SOLDIER PILE WALL DATA**

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	526
11 SHEETS	Structure No. 060-W007		CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Page 1 of 1

Date 8/23/08

LOGGED BY E. Stewart

**Illinois Department of Transportation**  
Division of Highways  
State Department of Transportation

**SOIL BORING LOG**

ROUTE FAP 600 DESCRIPTION Retaining Wall at 531 Vandalia Avenue LOCATION SEC. 27, TWP. 3N, RNG. 8W, 3 PM

SECTION 60-(30,31,128)-1 COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE \_\_\_\_\_

STRUCT. NO. N/A Station N/A

BORING NO. RW 6 Station 181+87 Offset 38.00B LT Ground Surface Elev. 550.5 ft

SOIL DESCRIPTION	DEPTH (ft)	BL (ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
Light Brown Silty LOAM	0.00	17								
	0.50	19								
	548.5									
Light Gray Silty LOAM	1.00	22								
	1.00	25								
	1.50	26								
	0.30	28								
	0.50	29								
	0.50	28								
	0.00	26								
	0.30	27								
END OF HAND AUGER	840.6	-10								

Pocket Penetrometer used for Qu

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 1 of 1

Date 3/30/09

LOGGED BY SLW / JH

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG**

ROUTE FAP 600 DESCRIPTION Retaining Wall at 531 Vandalia Avenue (Sta. 181+90 to 183+26) LOCATION SEC. 27, TWP. 3N, RNG. 8W, 3 PM

SECTION 60-(30,31,128)-1 COUNTY Madison / St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. N/A Station N/A

BORING NO. RW F Station 182+00 Offset 4.00H LT Ground Surface Elev. 544.5 ft

SOIL DESCRIPTION	DEPTH (ft)	BL (ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
Asphalt (2"), Concrete (9.5")	843.5									
Brown Silty Clay LOAM	4									
	3	0.33	22							
	4	S/20								
	5									
Mottled with Gray	3	0.69	25							
	6	S/15								
Gray	4									
	3	0.65	26							
	5	B/20								
	3									
	7	2.08	28							
	4	S/15								
END OF BORING	539.0									
Brown Silty CLAY	1									
	2	0.49	28							
	1	B/20								
	2									
	2	0.65	29							
	3	B/20								
	2									
	3	0.33	30							
	2	B/20								
Gray	2									

END OF BORING

Brown Silty CLAY (continued)

4 1.30 28  
4 B/20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 1 of 1

Date 8/23/08

LOGGED BY E. Stewart

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

**SOIL BORING LOG**

ROUTE FAP 600 DESCRIPTION Retaining Wall at 531 Vandalia Avenue (Sta. 181+90 to 183+26) LOCATION SEC. 27, TWP. 3N, RNG. 8W, 3 PM

SECTION 60-(30,31,128)-1 COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE \_\_\_\_\_

STRUCT. NO. N/A Station N/A

BORING NO. RW 7 Station 182+75 Offset 38.00B LT Ground Surface Elev. 553.9 ft

SOIL DESCRIPTION	DEPTH (ft)	BL (ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs.)
Dark Brown Silty Clay LOAM A-7-(8)(11)	0.00									
See Classification @ 0 ft	552.9									
Light Brown Silty CLAY A-6(10)	0.50	17								
See Classification @ 1 ft	551.9									
Medium Brown Silty CLAY A-7-(6)(17)	1.75	22								
See Classification @ 3 ft										
	1.20	26								
	548.9	-8								
Light Brown SILT A-4(8)	0.00	26								
See Classification @ 7 ft										
	0.10	25								
	0.00	30								
	0.00	27								
	1.70	28								
END OF HAND AUGER	543.9	-10								

Pocket Penetrometer used for Qu

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

DESIGNED - KRG  
CHECKED - MJK  
DRAWN - GSJ  
CHECKED - MJK

**BORING LOGS**

SHEET NO. 10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	600	60-(30,31,128)-3	Madison	529	528
11 SHEETS	Structure No. 060-W007		CONTRACT NO. 76B85		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

MID-AMERICA ENGINEERING SERVICES

