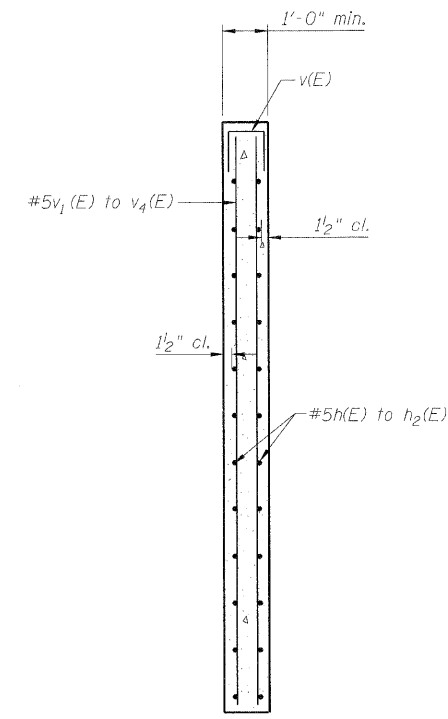


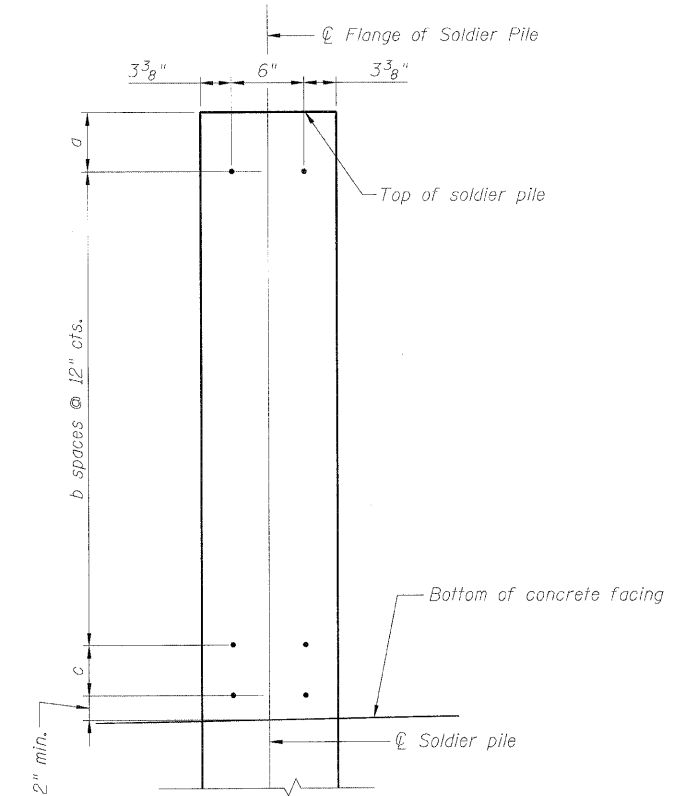
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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
K	K ₁ W Section	470.39	441.00	467.11	469.00	3"	2	10"	8
	K ₂ W Section	470.58					2	12"	8
	K ₃ W Section	470.75					3	2 1/2"	10
	K ₄ W Section	470.93					3	5"	10
L	L ₁ W Section	471.06			470.00		3	6"	10
	L ₂ W Section	471.23					3	8"	10
	L ₃ W Section	471.40					3	10"	10
	L ₄ W Section	471.58					3	12"	10
M	M ₁ W Section	471.70					3	12"	10
	M ₂ W Section	471.88					4	4"	12
	M ₃ W Section	472.06			471.00		4	6"	12
	M ₄ W Section	472.22					4	12"	12
N	N ₁ W Section	471.86					4	3"	12
	N ₂ W Section	470.98					3	5"	10
	N ₃ W Section	470.02			469.00		2	5"	8



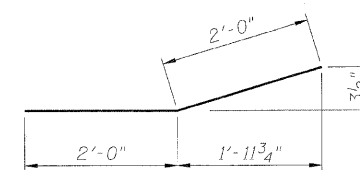
SECTION THRU PANEL



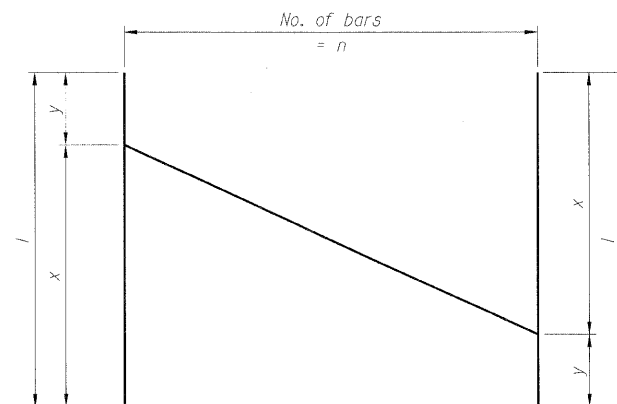
SHEAR STUD SPACING DETAIL

BAR DIMENSIONS

Bar	n	x	y	l
v ₁ (E)	25	7'-5"	6'-9"	14'-2"
v ₂ (E)	25	7'-5"	8'-1"	15'-6"
v ₃ (E)	25	8'-1"	8'-8"	16'-9"
v ₄ (E)	18	8'-8"	6'-5"	15'-1"

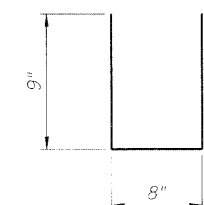


BAR h₂(E)



BAR CUTTING DIAGRAM

Bars v₁(E) to v₄(E)



BARS v(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	60	#5	25'-1"	—
h ₁ (E)	20	#5	17'-1"	—
h ₂ (E)	20	#5	4'-0"	—
v(E)	93	#5	2'-2"	U
v ₁ (E)	25	#5	14'-2"	—
v ₂ (E)	25	#5	15'-6"	—
v ₃ (E)	25	#5	16'-9"	—
v ₄ (E)	18	#5	15'-1"	—
Concrete Structures		Cu. Yd.	29.6	
Reinforcement Bars (Epoxy coated)		Pound	3720	

SOLDIER PILE WALL DATA

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	RETAINING WALL 2		CONTRACT NO. 76830		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					

MID-AMERICA ENGINEERING SERVICES

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