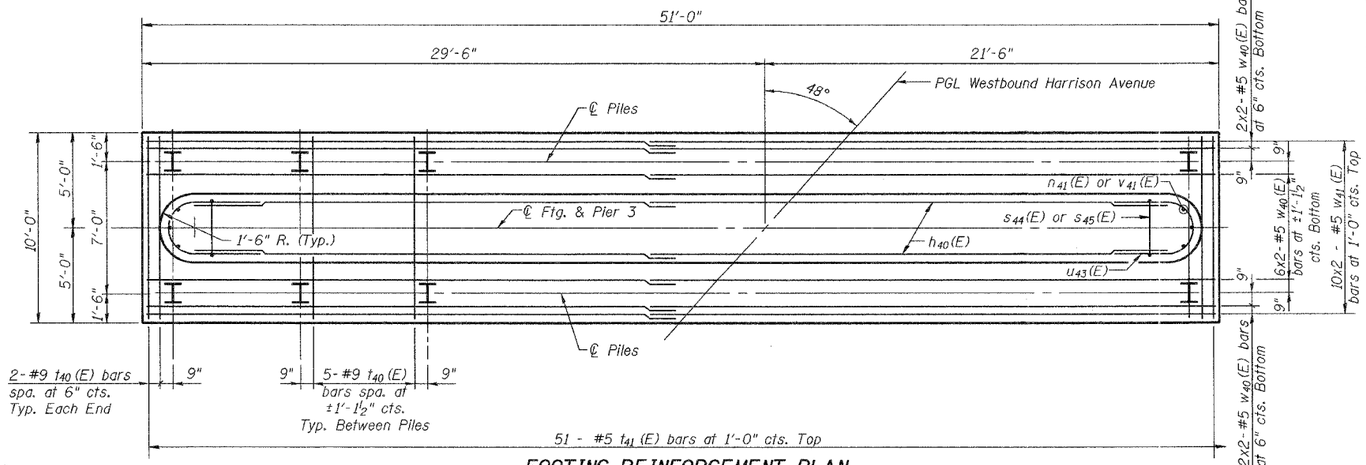
85399

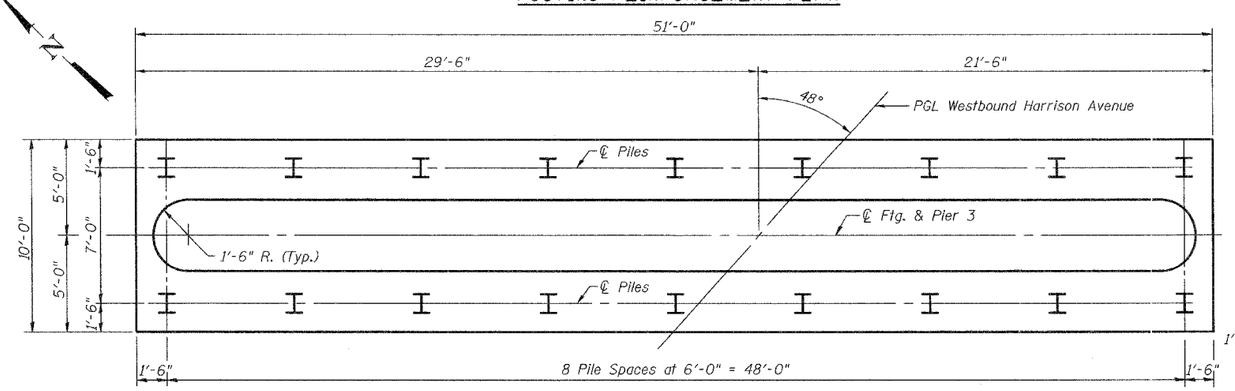
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 0525	*	WINNEBAGO	157	148
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 41
50 SHEETS

* 02-00518-00-BR



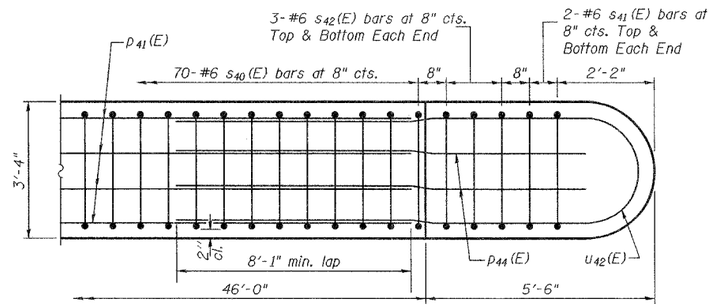
FOOTING REINFORCEMENT PLAN



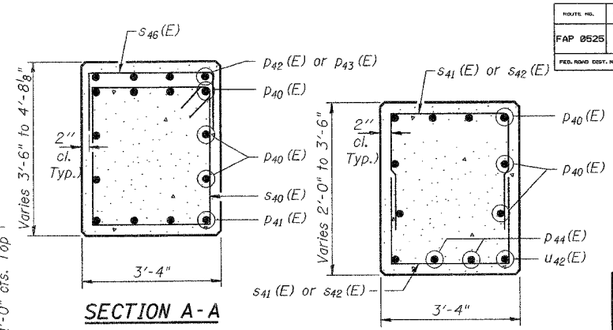
FOOTING PILE PLAN

PILE DATA

Type & Size: HP 12x53 w/ Pile Shoes
Nominal Required Bearing : 420 Kips
Allowable Resistance Available : 140 Kips
Est. Length: 20'
No. Req'd: 17 + 1 Test Pile

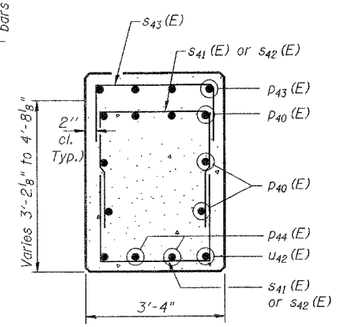


DETAIL A
REFLECTED UNDERSIDE PLAN OF PIER CAP END

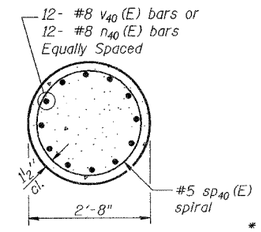


SECTION A-A

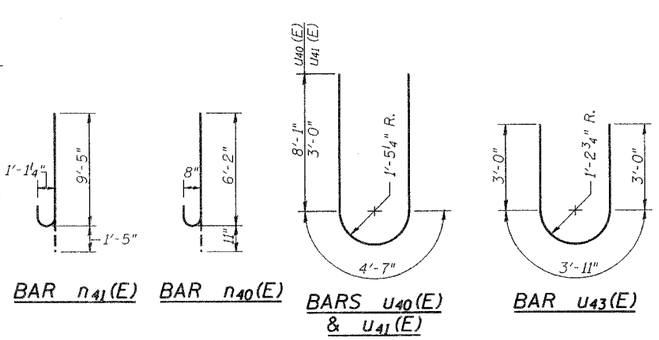
SECTION B-B



SECTION C-C



SECTION D-D

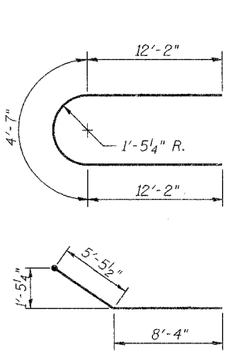


BAR n_{41}(E)

BAR n_{40}(E)

BARS u_{40}(E) & u_{41}(E)

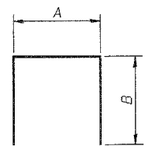
BAR u_{43}(E)



BAR u_{42}(E)

BAR s_{40}(E)

BAR p_{44}(E)



BARS s_{41}(E) thru s_{46}(E)

A & B DIMENSIONS

Bar	A	B
s_{41}(E)	3'-0"	2'-3"
s_{42}(E)	3'-0"	2'-6"
s_{43}(E)	3'-0"	2'-11"
s_{44}(E)	2'-8"	11'-8"
s_{45}(E)	2'-8"	10'-2"
s_{46}(E)	3'-0"	2'-3"

MINIMUM BAR LAP

HORIZONTAL

#5 - 2'-2" (Bottom of Footing)
#5 - 3'-0"
#9 - 8'-1"

PIER 3 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{40}(E)	38	#5	24'-0"	
n_{40}(E)	60	#8	7'-1"	
n_{41}(E)	6	#10	10'-10"	
p_{40}(E)	16	#9	30'-11"	
p_{41}(E)	8	#9	27'-1"	
p_{42}(E)	4	#5	25'-6"	
p_{43}(E)	4	#5	9'-11"	
p_{44}(E)	4	#9	12'-0"	
s_{40}(E)	70	#6	13'-8"	
s_{41}(E)	8	#6	7'-6"	
s_{42}(E)	12	#6	8'-0"	
s_{43}(E)	10	#5	8'-10"	
s_{44}(E)	46	#10	26'-0"	
s_{45}(E)	46	#10	23'-0"	
s_{46}(E)	23	#5	7'-6"	
sp_{40}(E)	5	#5	13'-8"	
t_{40}(E)	44	#9	9'-8"	
t_{41}(E)	51	#5	9'-8"	
u_{40}(E)	4	#9	20'-9"	
u_{41}(E)	1	#5	10'-7"	
u_{42}(E)	2	#9	28'-11"	
u_{43}(E)	18	#5	9'-11"	
v_{40}(E)	60	#8	15'-6"	
v_{41}(E)	6	#10	11'-8"	
w_{40}(E)	20	#5	26'-5"	
w_{41}(E)	20	#5	26'-10"	
Concrete Structures		Cu. Yd.	161.2	
Reinforcement Bars, Epoxy Coated		Pound	25,200	
Structure Excavation		Cu. Yd.	495.8	
Furnishing Steel Piles, HP 12x53		Foot	340	
Driving Piles		Foot	340	
Pile Shoes		Each	18	
Test Pile Steel HP 12x53		Each	1	
Anchor Bolts, 1½"		Each	20	

NOTES

Work this sheet with Sheet 40 of 50.
Reinforcement Bars designated (E) shall be epoxy coated.
Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.
* Length is spiral height.

Corporate License Number 184-001-084

PIER 3 DETAILS

WESTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+25.35
STRUCTURE NO. 101-6109

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HANSON

JOB NO. 03R1751

DATE 12/14/06

LAYOUT	JHR	03/01/06
DRAWN	MMK/JHR	07/17/06
REVIEWED	FLN	09/02/06

120409 PW
121220061224 PW
INC\1686\ODS\PIER3\Structure Sheet\West Bound\S-041-W-Pier 3Detail.dgn