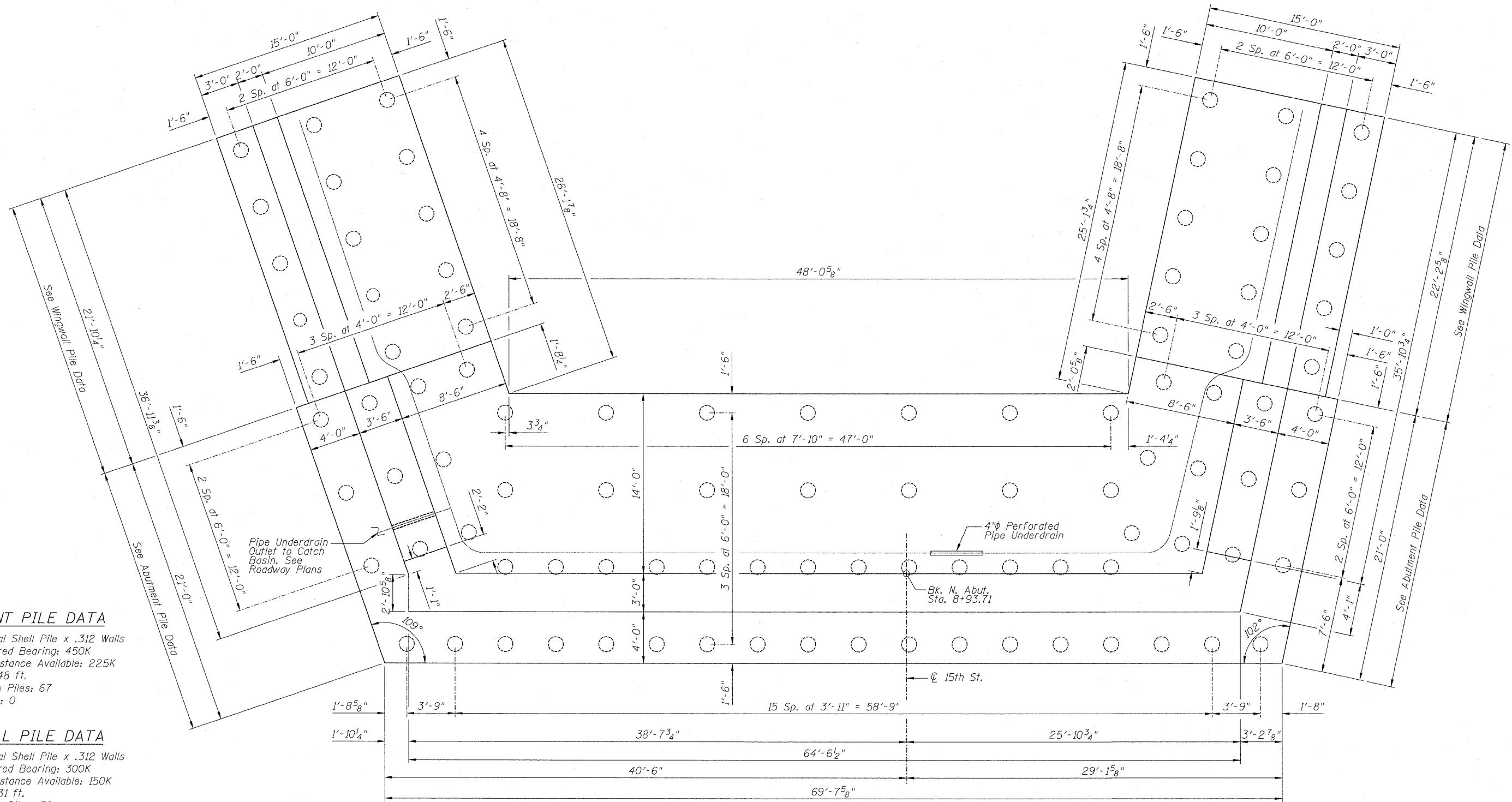


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



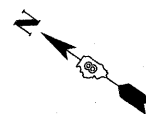
ABUTMENT PILE DATA

Type: 14" Metal Shell Pile x .312 Walls
Nominal Required Bearing: 450K
Factored Resistance Available: 225K
Est. Length: 48 ft.
No. Production Piles: 67
No. Test Piles: 0

WINGWALL PILE DATA

Type: 14" Metal Shell Pile x .312 Walls
Nominal Required Bearing: 300K
Factored Resistance Available: 150K
Est. Length: 31 ft.
No. Production Piles: 30
No. Test Piles: 0

NORTH ABUTMENT PILE LAYOUT



**NORTH ABUTMENT PILE LAYOUT
STRUCTURE NO. 082-0377**

ZROKA Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

3-31-2010

SHEET NO. 31 44 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	64	82-1-2HB	ST. CLAIR	345	238
			CONTRACT NO. 76C49		
ILLINOIS FED. AID PROJECT					

REVISED 4/15/2010