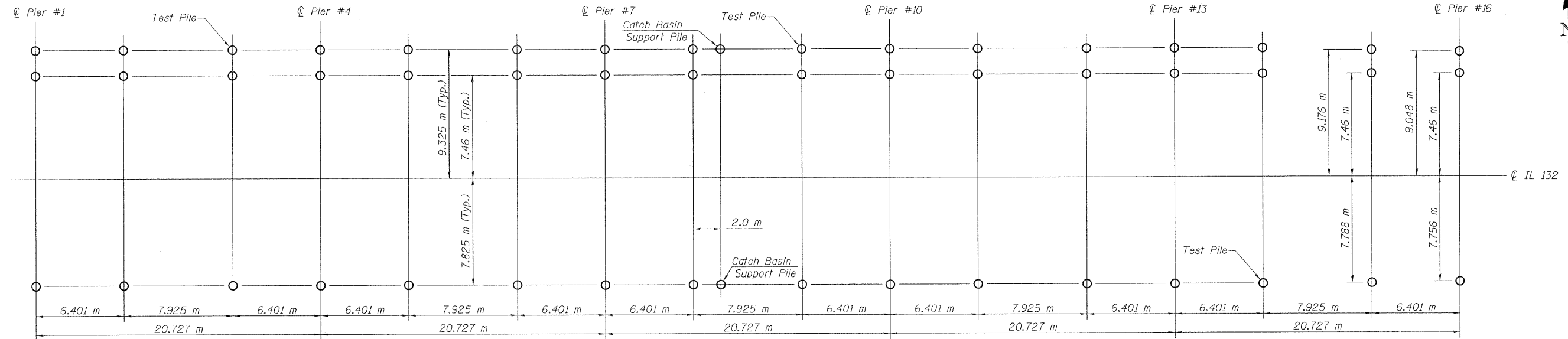


ROUTE NO. F.A.P. 866	SECTION 4N-1	COUNTY LAKE	TOTAL SHEETS 165	SHEET 82
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO.
13 of 22

Contract No.: 60931



PILE LAYOUT PLAN

PILE INFORMATION CHART (TYPICAL PILES)

Pier	Stage I Pile (1 Pile)			Stage II Piles (2 Piles)			Total Pile Length (m)	
	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)		
1	285	855	14.0	285	855	14.0	42.0	
2	310	930	14.5	310	930	15.0	44.5	
3	310	930	14.5	310	930	*15.0	29.5	
4	285	855	14.0	285	855	14.0	42.0	
5	310	930	14.5	310	930	14.0	42.5	
6	310	930	14.5	310	930	14.0	42.5	
7	285	855	14.0	285	855	13.0	40.0	
8	310	930	14.5	310	930	16.5	47.5	
9	310	930	12.0	310	930	*16.5	28.5	
10	285	855	11.0	285	855	15.5	42.0	
11	310	930	12.0	310	930	16.5	45.0	
12	310	930	12.0	310	930	14.0	40.0	
13	285	855	13.0	285	855	15.0	43.0	
14	310	930	**14.0	310	930	16.0	32.0	
15	310	930	14.0	310	930	16.0	46.0	
16	285	855	13.0	285	855	15.0	43.0	
Total Length (m)			201.5				448.5	650.0

*One pile required, the other pile is a test pile.
**This pile is a test pile.

PILE INFORMATION CHART (CATCH BASIN SUPPORT PILES)

Catch Basin Support Piles	Stage I Pile (1 Pile)			Stage II Pile (1 Pile)			Total Pile Length (m)
	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	
2 m East of Pier #8	160	480	11.0	160	480	11.0	22.0

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing Metal Shell Piles 305 mm x 6.35 mm	Meter	672
Driving Piles	Meter	672
Test Pile Metal Shells	Each	3

NOTES

Holes shall be precored for concrete piles, to an elevation below the unsuitable soil (refer to soil borings for depths). If oversize holes are drilled, the void space outside of the pile shall be filled with dry loose sand. This work will not be paid for separately but shall be considered as included in the unit prices bid for the pay items involved.
See sheet 13A of 22 for Metal Shell Pile details.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
METAL SHELL PILES
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3
SN 049-D002
DATE: 11-06-09
DRAWN BY: BLB
CHECKED BY: WJV