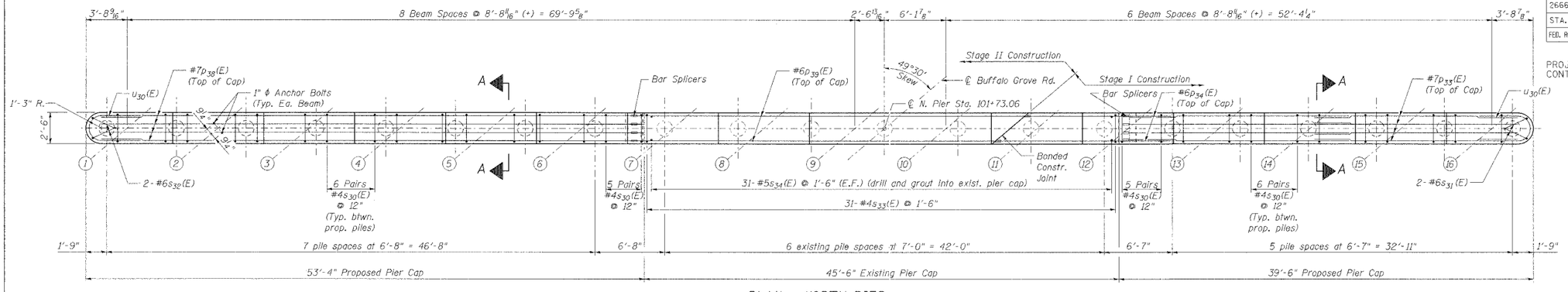
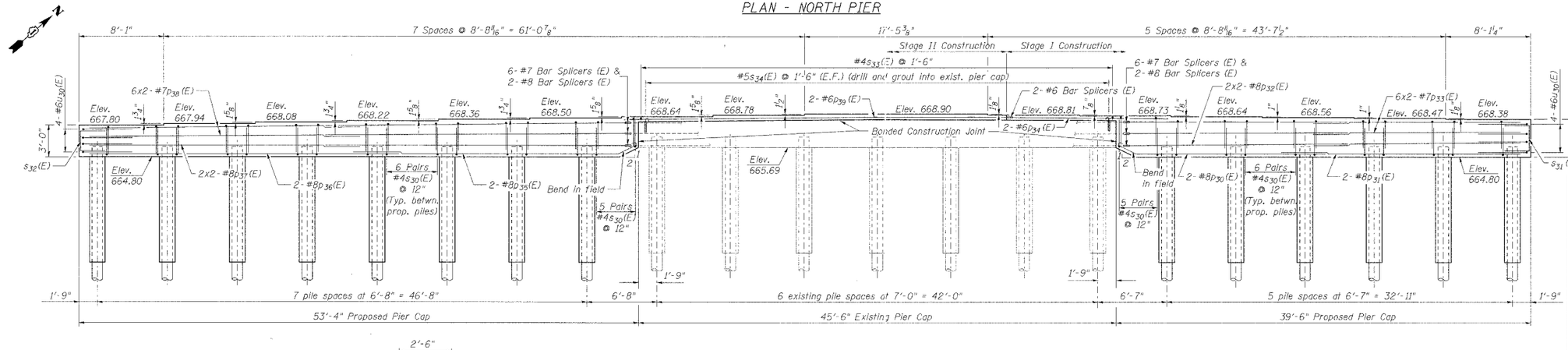
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2666	00-00254-01-BR	LAKE	70	43
STA. 98+50		TO STA. 107+57		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet 20 of 35 Sheets
PROJECT NO. BHM-8003(213)
CONTRACT NO. 83875



PLAN - NORTH PIER

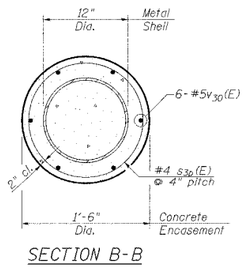


BILL OF MATERIAL

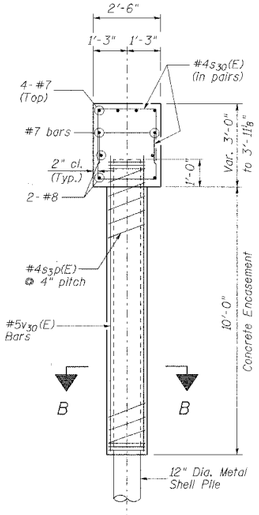
BAR	NO.	SIZE	LENGTH	SHAPE
p30(E)	2	#8	21'-1"	⊂
p31(E)	2	#8	23'-7"	——
p32(E)	4	#8	21'-4"	——
p33(E)	12	#7	20'-9"	——
p34(E)	2	#6	13'-9"	——
p35(E)	2	#8	31'-2"	⊂
p36(E)	2	#8	30'-6"	——
p37(E)	4	#8	28'-3"	——
p38(E)	12	#7	27'-8"	——
p39(E)	2	#6	34'-10"	——
s30(E)	164	#4	7'-6"	□
s31(E)	2	#6	9'-2"	□
s32(E)	2	#6	8'-7"	□
s33(E)	31	#4	2'-10"	⌐
s34(E)	62	#5	1'-8"	⊂
s35(E)	14	#4	130'-0"	∿∿
u30(E)	8	#6	9'-5"	⊃
v30(E)	84	#5	11'-0"	——
Structure Excavation			Cu. Yd.	2
Furnishing Metal Pile Shells, 12"			Foot	670
Driving and Filling Shells			Foot	670
Concrete Structures			Cu. Yd.	39.4
Reinforcement Bars Epoxy Coated			Pound	5770
Test Pile Metal Shell			Each	1
Bar Splicers			Each	18

PILE DATA

TYPE: 12" Dia. Metal Shell
CAPACITY: 45 Ton
EST. LENGTH: 51.5'
NO. REQUIRED: 14 (Including 1 Test Pile)



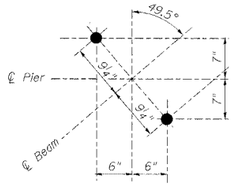
SECTION B-B



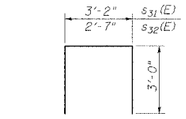
SECTION A-A

ELEVATION - NORTH PIER

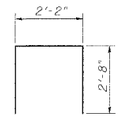
(LOOKING NORTH)



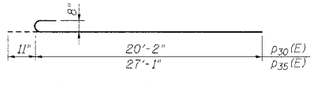
ANCHOR BOLT LAYOUT



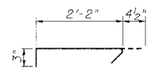
BARS s31(E) & s32(E)



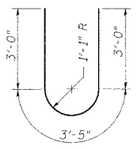
BAR s30(E)



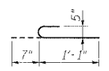
BARS p30(E) & p35(E)



BAR s33(E)



BAR u30(E)



BARS s34(E)

MIN. BAR LAP

#7 BAR = 3'-5"
#8 BAR = 4'-6"

NOTES:

1. All edges shall have 3/4" chamfer except as noted.
2. Reinforcement Bars designated (E) shall be epoxy coated.
3. Cast steps monolithically with cap.
4. Space cap reinforcement to miss anchor bolts.
5. Minimum lap for spirals = 1½ turns.
6. For details of Bar Splicers, see sheet 29 of 34.

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

LAKE COUNTY DIVISION OF TRANSPORTATION

NORTH PIER DETAILS

BUFFALO GROVE ROAD
AT INDIAN CREEK BRIDGE
SECTION 00-00254-01-BR STATION 101+50.00
LAKE COUNTY STRUCTURE NO. 049-3043

SCALE: NONE
DRAWN BY: TBW
DATE: 7/21/06
CHECKED BY: ATI, WK

PLAN
SURFACED
CUT OFF
ALIGNMENT CHECKED
GRADES CHECKED
DIA. NO. USED
SPACING
NOTE BOOK
NO.
DATE
BY
CHECKED
PILE NAME

PROFILE
SURFACED
CUT OFF
GRADES CHECKED
DIA. NO. USED
SPACING
NOTE BOOK
NO.
DATE
BY
NOTATIONS CHKD

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