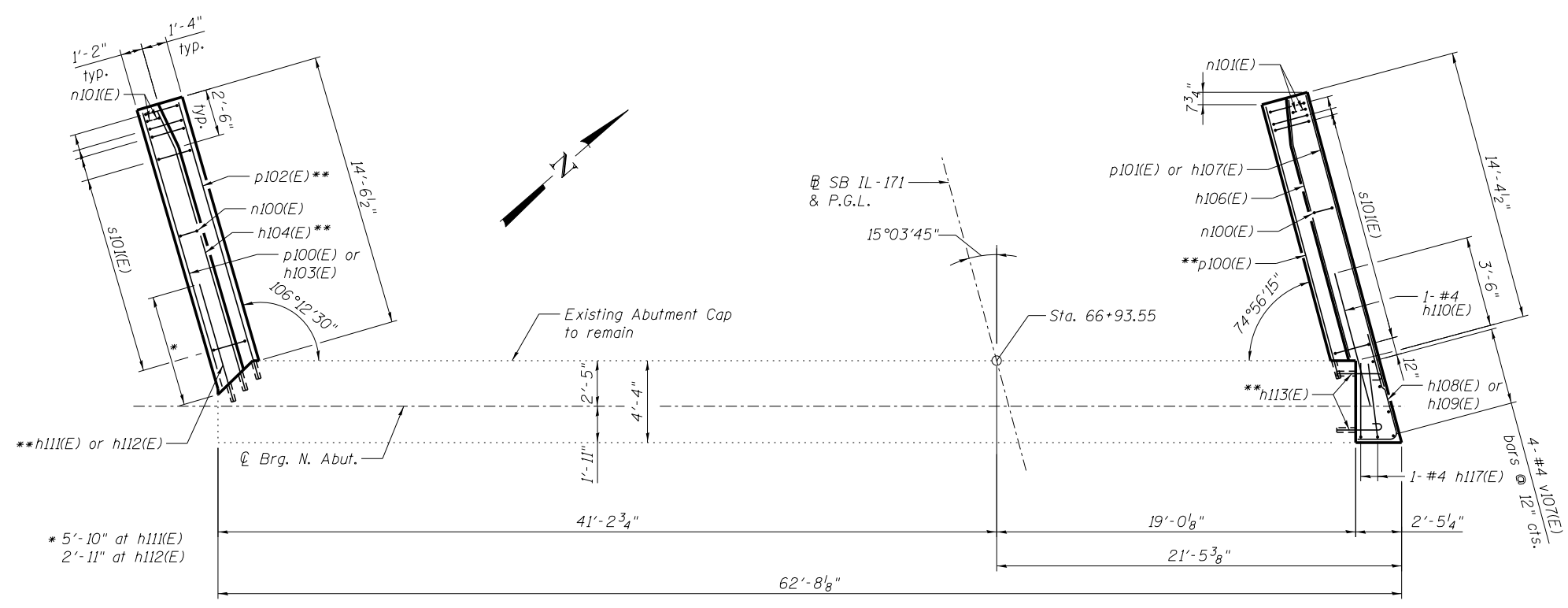


ABUTMENT BILL OF MATERIAL

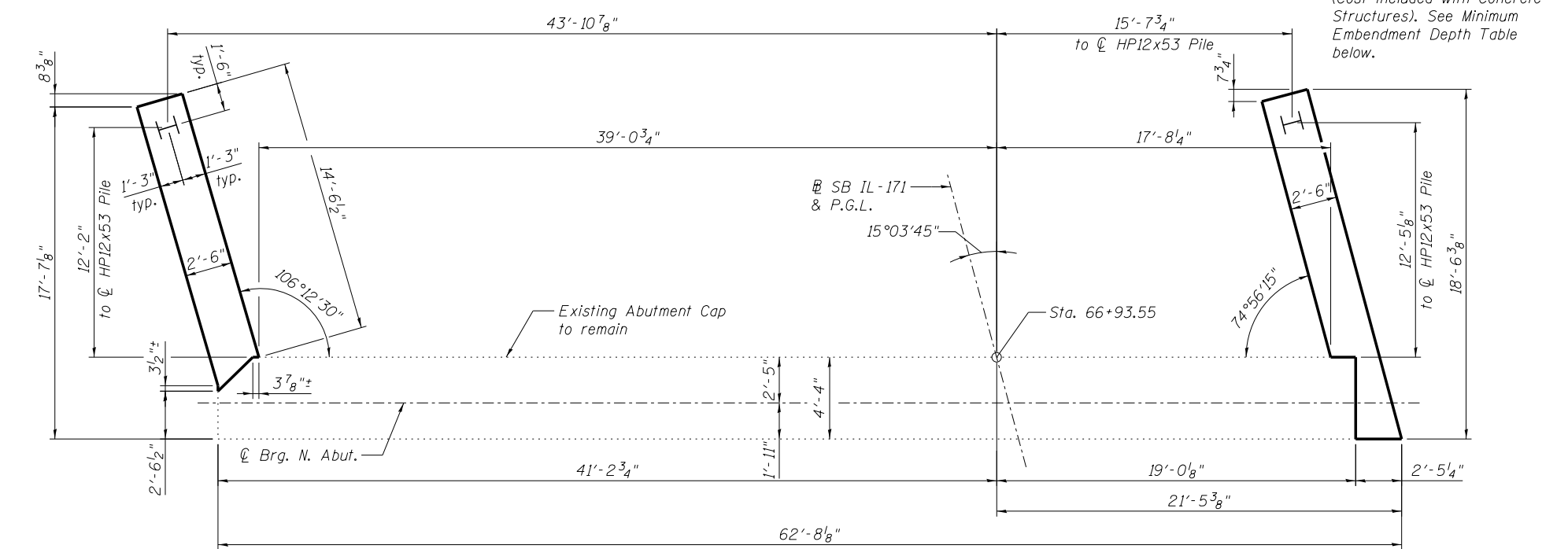
Bar	No.	Size	Length	Shape
h100(E)	16	#5	31'-0"	—
h101(E)	10	#5	9'-10"	└
h102(E)	10	#5	9'-7"	└
h103(E)	1	#4	14'-8"	—
h104(E)	1	#4	15'-2"	—
h105(E)	10	#6	31'-6"	—
h106(E)	1	#4	14'-2"	—
h107(E)	1	#4	15'-11"	—
h108(E)	3	#7	10'-11"	└
h109(E)	1	#4	8'-0"	└
h110(E)	1	#4	6'-6"	—
h111(E)	3	#7	6'-9"	—
h112(E)	1	#4	3'-5"	—
h113(E)	6	#7	3'-1"	└
h114(E)	14	#4	15'-7"	—
h115(E)	11	#4	15'-10"	—
h116(E)	11	#4	14'-11"	—
h117(E)	2	#4	13'-7"	└
n100(E)	27	#6	13'-10"	└
n101(E)	12	#6	6'-11"	└
p100(E)	6	#7	14'-8"	—
p101(E)	3	#7	16'-0"	—
p102(E)	3	#7	15'-2"	—
s101(E)	34	#4	9'-5"	└

Bar	No.	Size	Length	Shape
v100(E)	60	#5	3'-7"	└
v101(E)	60	#4	3'-7"	└
v102(E)	36	#6	7'-4"	└
v103(E)	6	#6	6'-11"	└
v104(E)	30	#6	7'-10"	└
v105(E)	60	#5	2'-4"	└
v106(E)	60	#5	4'-0"	└
v107(E)	4	#4	3'-7"	└
v108(E)	59	#5	3'-3"	└
Concrete Structures			Cu. Yd.	35.1
Reinforcement Bars, Epoxy Coated			Pound	4,840
Furnishing Steel Piles, HP12x53			Foot	76
Driving Piles			Foot	76
Concrete Encasement			Cu. Yd.	0.7
Concrete Sealer			Sq. Ft.	273

NOTES:
 1. For details of Bar Splicers, see sheet SC35 of SC35.
 2. For details of piles and Concrete Encasement, see sheet SC32 of SC35.



PLAN - PILE CAP



PLAN - PILE LAYOUT

PILE DATA

Type: HP12x53
 Nominal Required Bearing: 264 k
 Allowable Resistance Available: 88 k
 Est. Length: 38'-0"
 No. Production Piles: 2
 No. Test Piles: 0

MINIMUM BAR LAP

#4 bar = 2'-11"
 #5 bar = 3'-6"
 #6 bar = 3'-9"
 #7 bar = 4'-6"

MINIMUM EMBEDMENT DEPTHS

#4 bar = 6"
 #7 bar = 11"

**Epoxy grout into existing abutment cap per Section 584 of Standard Specification. (Cost included with Concrete Structures). See Minimum Embedment Depth Table below.



FILE NAME =	USER NAME = tjenicke	DESIGNED - JDM	REVISED -
0162455.60J16.029.abutmoddet-1.dgn	PLOT SCALE =	CHECKED - RDK/TPS	REVISED -
	PLOT DATE = 12/20/2013	DRAWN - MAK/TPS	REVISED -
		CHECKED - JDM/TPS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT MODIFICATION DETAILS (1 OF 3)
 STRUCTURE NO. 016-2455**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	355
CONTRACT NO. 60J16			ILLINOIS FED. AID PROJECT	

SHEET NO. SC29 OF SC35 SHEETS

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