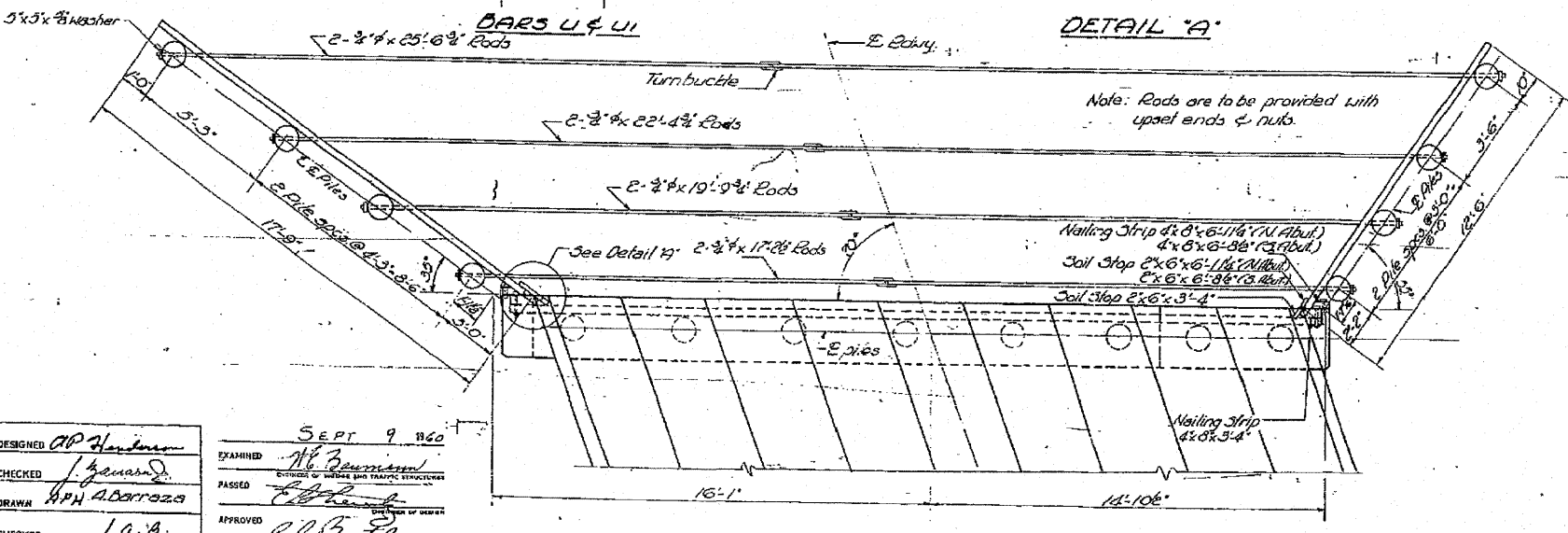


PILE DATA

Type	Abutment	Wingwalls
	Crested	Crested
Capacity	20 Tons	10 Tons
Est. Length	30 Ft.	30 Ft.
No. Req'd	4	16

BAR LIST - 2 ABUTS.

Con.	No.	Size	Length	Shape
P	12	#7	3'-2"	
P	8	#7	6'-0"	
S	24	#4	5'-5"	
S	24	#4	5'-11"	
S	11	#4	12'-3"	
S	11	#4	12'-8"	
U	14	#6	9'-6"	
U	4	#6	4'-10"	



BILL OF MATERIAL - 2 ABUTS.

ITEM	Qu.	ITEM	Qu.
Plank 3x10x19'-2"	4	Soil Stop 2x6x6-8 1/2"	2
3x10x11'-7"	4	2x6x3'-4"	4
3x10x11'-0"	4	Rods 3/8x25'-6 3/4"	4
3x10x19'-9"	4	3/8x22'-4 1/2"	4
3x10x6'-0"	4	3/8x19'-9 3/4"	4
3x10x12'-6"	20	3/8x17'-2 1/2"	4
3x10x9'-0"	4	Anchor Bolts 3/4x5"	36
3x10x17'-9"	16	Bolts 3/4x12"	16
3x10x8'-3"	4	Washers 3/4x5x3/8"	16
Splice 3x10x2'-6"	8	Expansion Bolts 3/4"	32
Nailing Strip 4x8x6-1/4"	1	Turnbuckles	8
4x8x6-8 1/2"	1	50 d Nails	144
4x8x3'-4"	2	60 d Nails	576
4x11x3'-4"	2	Class X Concrete Curbs	138
4x11x6-8 1/2"	1	Reinforcement Bars	1460
4x11x6-11 1/4"	1	Treated Timber	EB.M. 2450
Soil Stop 2x6x6-11 1/4"	2	Crested Piles	Ln. Ft. 600

DESIGNED: AP Hawkins
 CHECKED: J. Howard
 DRAWN: APN A. Barroza
 CHECKED: J. A. P.
 EXAMINED: H. J. Ziemann
 PASSED: [Signature]
 APPROVED: R. L. [Signature]

Note: Wingwalls symmetrical by Rot. thru 180° for detail & planing of Abutment Wings see General Plan & Elevation sheet.

ABUTMENTS
 ALT. 5 B. I. RT. 82 - SEC. 137-18
 HENRY COUNTY
 STA. 434+88.3