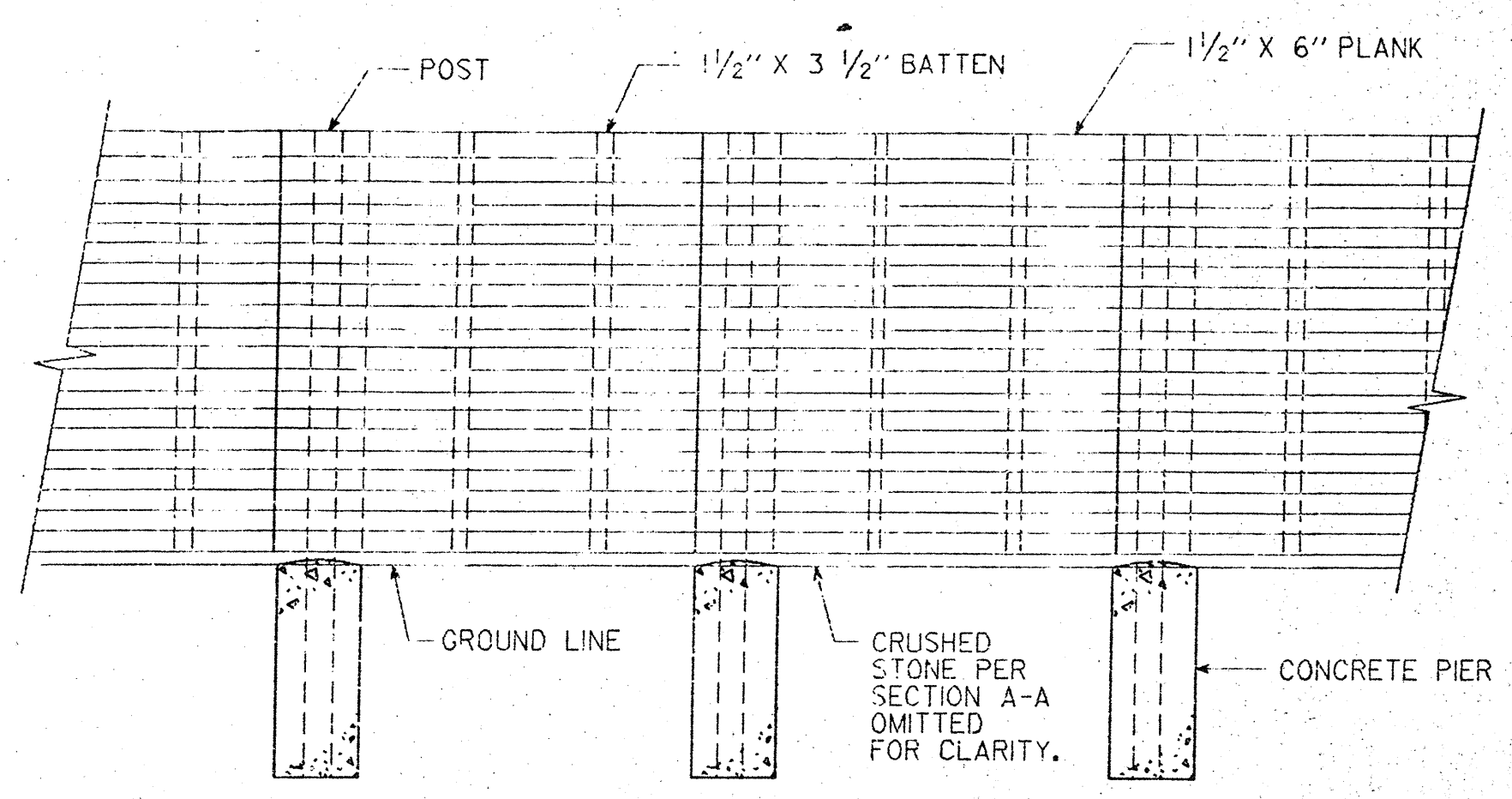


GENERAL NOTES

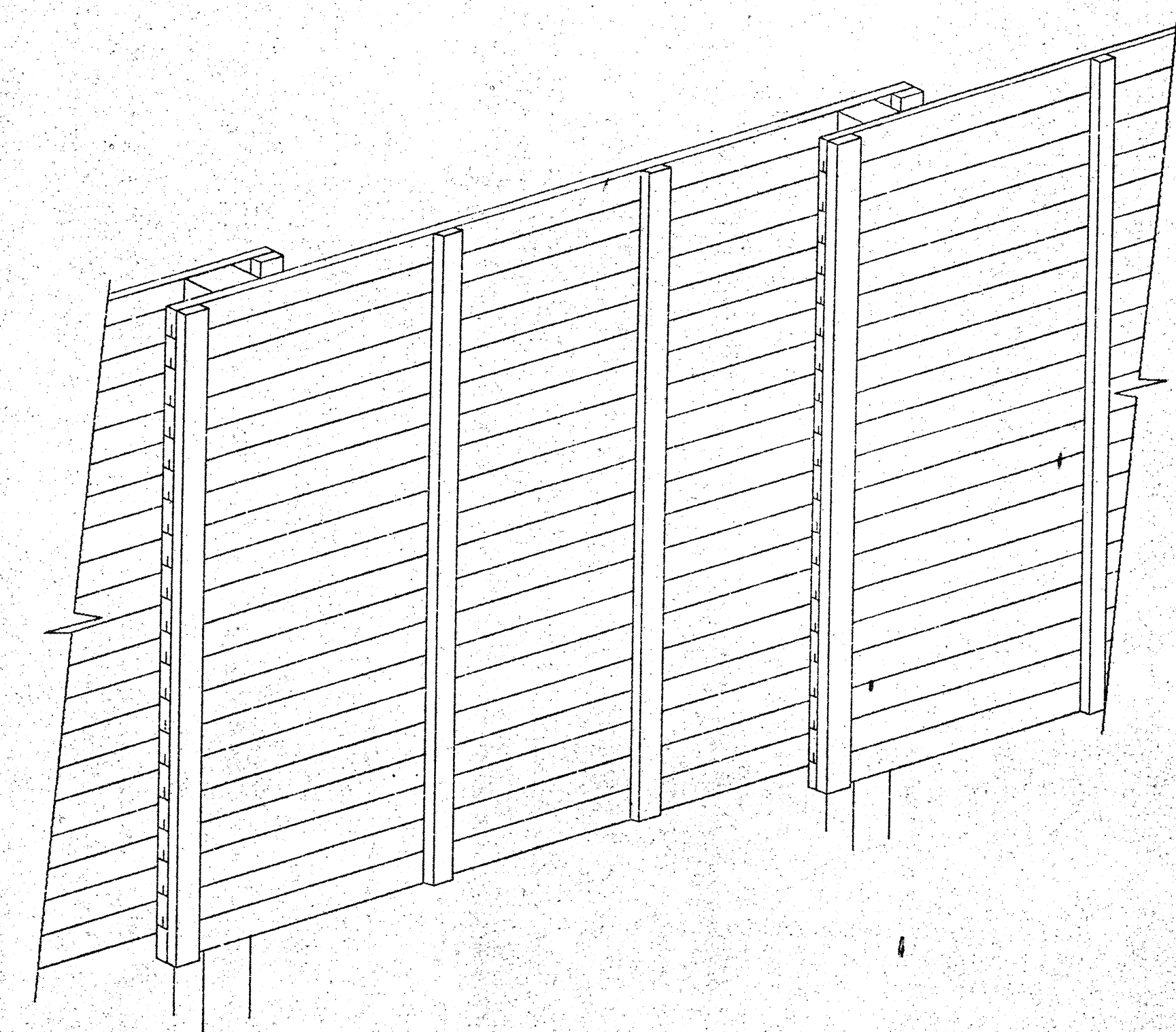
- CONCRETE SHALL BE CLASS "A" IN CONFORMANCE WITH SECTION 6.01.
- CRUSHED STONE SHALL CONFORM TO ARTICLE M.01.01 AND BE PLACED TO A MINIMUM DEPTH OF 2" ABOVE THE BOTTOM OF THE PANEL PLANKS AND SHALL BE CONTINUOUS. "S" SHALL BE A MINIMUM OF 2".
- ALL POST HARDWOOD SHALL BE EKKI (LOPHIRA ALATA/PROCERA) ALL PANEL HARDWOOD MATERIAL SHALL BE BONALIM (INIZIA EXCELSA) OR EKKI WITH THE FOLLOWING MINIMUM CHARACTERISTICS.

	E K K I	BONALIM
BENDING TENSION	3,750 PSI	3,800 PSI
COMPRESSION PARALLEL TO GRAIN	3,450 PSI	3,500 PSI
COMPRESSION PERPENDICULAR TO GRAIN	3,550 PSI	4,000 PSI
SHEAR PARALLEL TO GRAIN	2,000 PSI	2,100 PSI
MODULUS OF ELASTICITY	425 PSI	450 PSI
MAX. UNIT WEIGHT ASSUMED FOR DESIGN PURPOSES	2,490,000 PSI	2,350,000 PSI
	70 PCF	68 PCF
- THE HARDWOOD MATERIAL SUPPLIED SHALL BE NATURALLY FIRE RESISTANT WITHOUT THE USE OF FIRE RETARDANT PRESERVATIVES. TEST RESULTS, CALCULATED IN ACCORDANCE WITH ASTM E-84 FOR FLAME SPREAD AND SMOKE DEVELOPED SHALL NOT BE MORE THAN THE FOLLOWING:

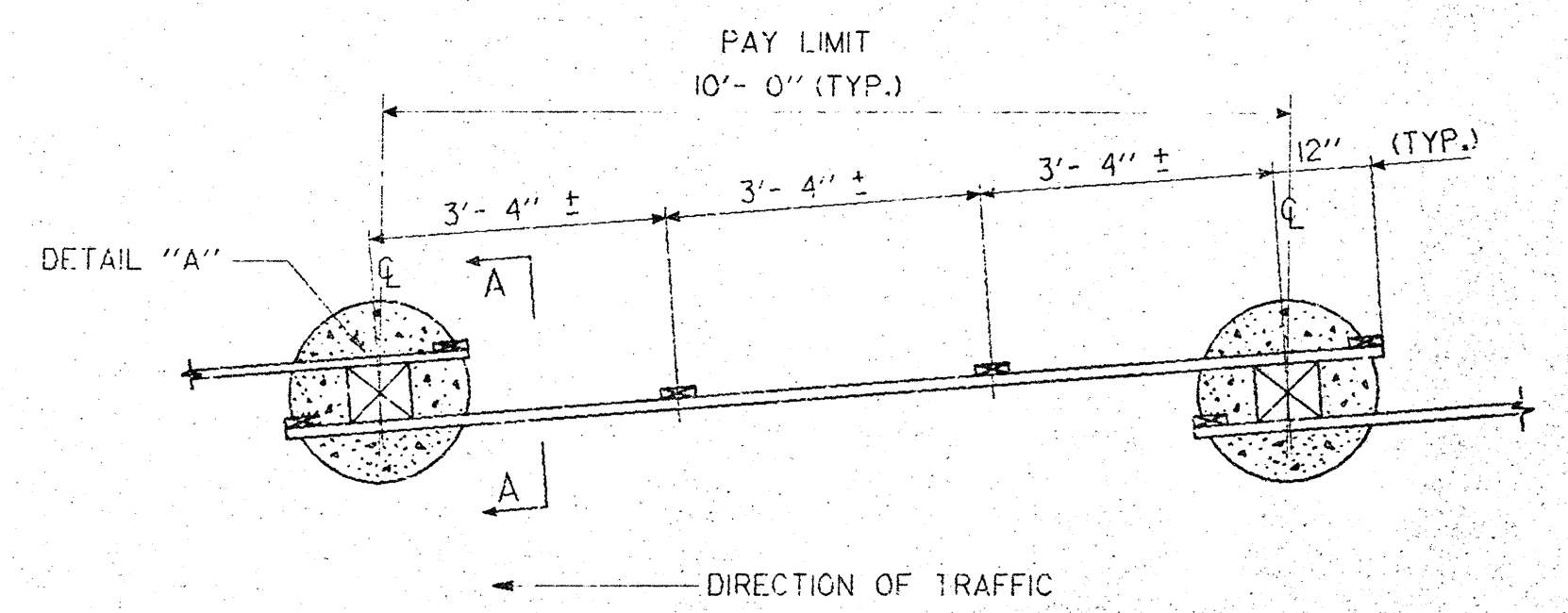
	E K K I	BONALIM
FLAME SPREAD INDEX (10 MINUTES):	0	10
FLAME SPREAD INDEX (30 MINUTES):	10	25
SMOKE DEVELOPED VALUE (10 MINUTES):	5	10
- THE TOP OF EACH POST IS TO BE FIELD - CUT FLUSH WITH THE TOP OF THE PANEL PLANKS.
- THE TOP EDGE OF THE TOP PLANK OF EACH PANEL SHALL NOT HAVE A TONGUE OR GROOVE. THE BOTTOM EDGE OF THE BOTTOM PLANK OF EACH PANEL MAY HAVE A GROOVE.
- ALL FASTENERS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. DOWEL STEEL SHALL CONFORM TO ASTM A36. ALL OTHER HARDWARE SHALL CONFORM TO ASTM A307. **DOWELS SHALL BE STAGGERED.**
- THE FIRST POST IN THE DIRECTION OF TRAFFIC SHALL BE INSTALLED ON THE SIDE OF THE PANEL AWAY FROM TRAFFIC.



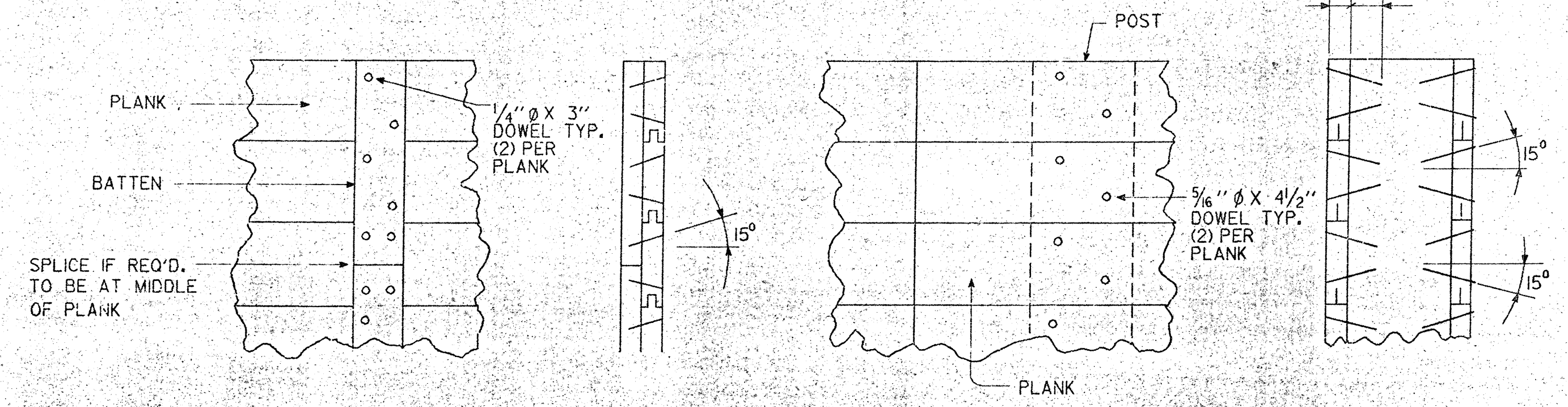
ELEVATION - TRAFFIC SIDE



ISOMETRIC VIEW - SIDE AWAY FROM HIGHWAY

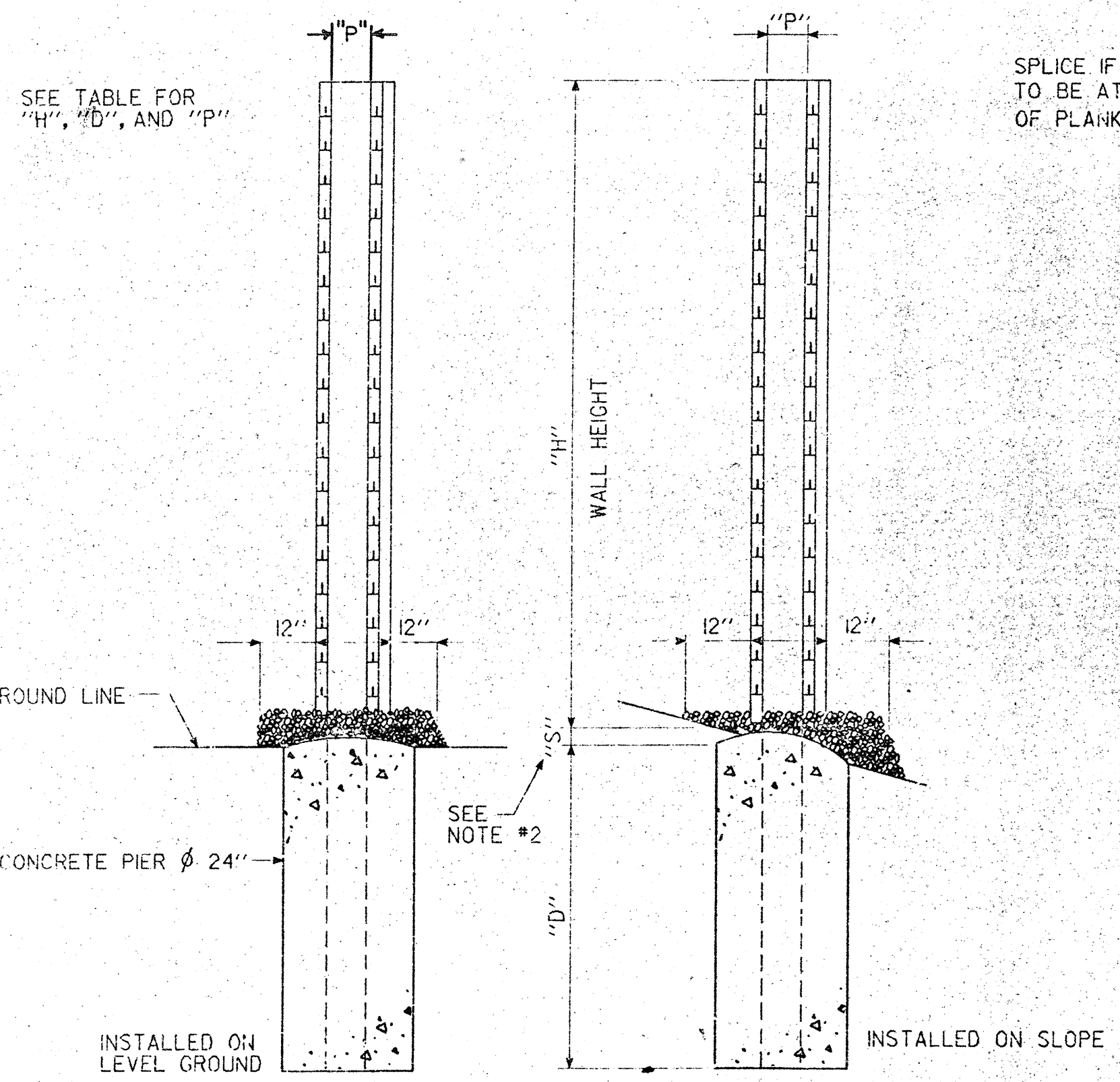


PLAN VIEW



BATTEN FASTENING

DETAIL "A"

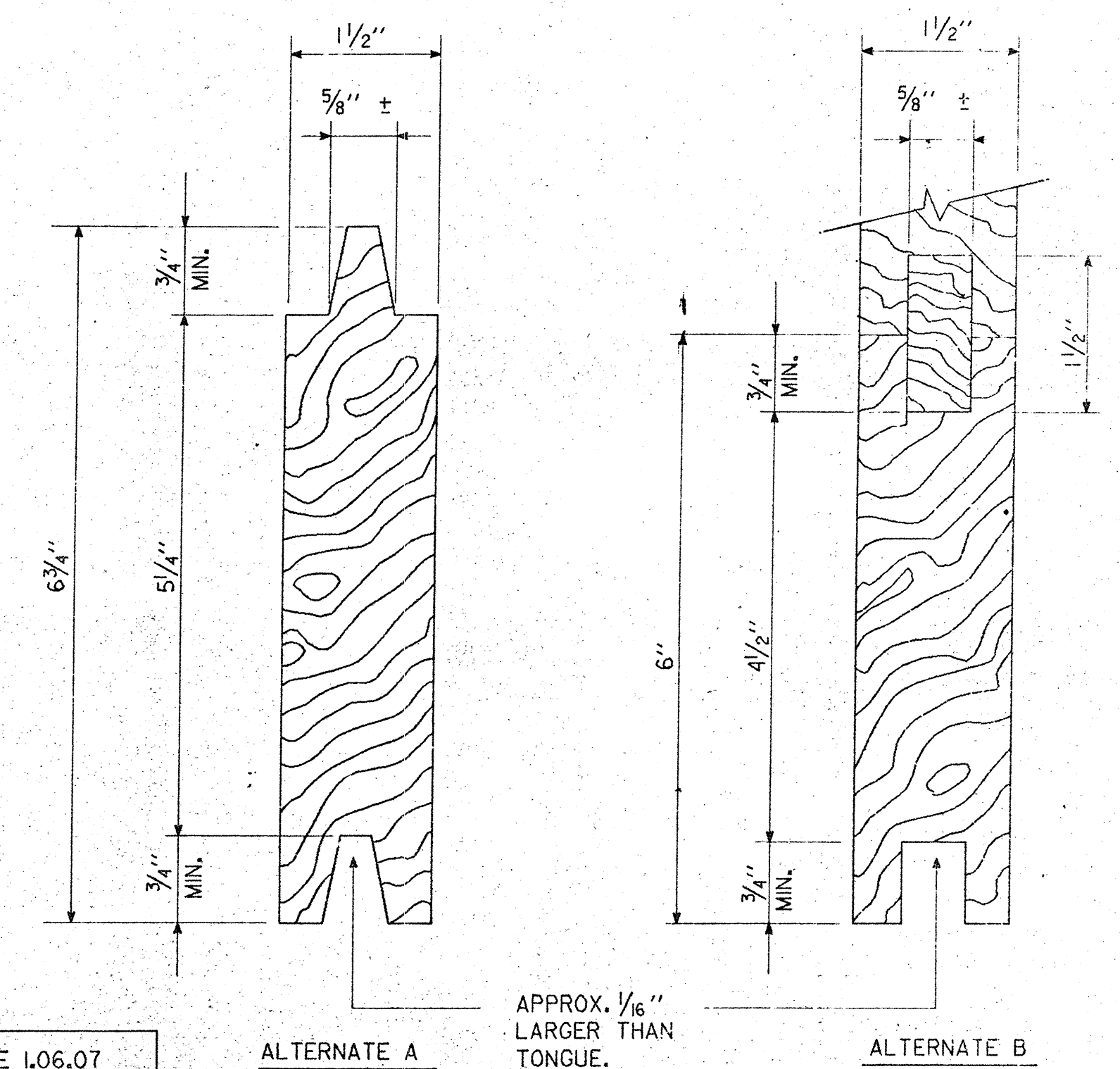


SECTION A-A

TABLE: PIER AND POST DEPTH "D" IN FT. (GRANULAR SOIL ONLY)

WALL HEIGHT "H"	POST DIMENSION "P"	PIER AND POST DEPTH "D" IN FT.		
		CASE # 1	CASE # 2	CASE # 3
6' - 0"	6"	4' - 0"	6' - 0"	6' - 0"
8' - 0"	6 - 3/4"	5' - 0"	6' - 0"	7' - 0"
10' - 0"	7 - 1/2"	5' - 0"	7' - 0"	8' - 0"
12' - 0"	8 - 1/4"	6' - 0"	8' - 0"	9' - 0"
14' - 0"	9 - 1/2"	7' - 0"	9' - 0"	10' - 0"
16' - 0"	10 - 1/4"	7' - 0"	10' - 0"	10' - 0"
18' - 0"	11"	8' - 0"	10' - 0"	11' - 0"
20' - 0"	11 - 7/8"	8' - 0"	11' - 0"	12' - 0"
22' - 0"	12 - 3/4"	9' - 0"	12' - 0"	12' - 0"

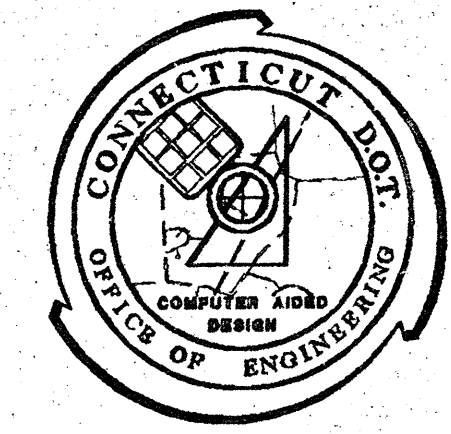
CASE # 1: FLAT SURFACE WITH WATER TABLE BELOW BOTTOM OF HOLE.
CASE # 2: FLAT SURFACE WITH WATER TABLE ABOVE BOTTOM OF HOLE.
CASE # 3: SIDE SLOPE OF 2:1 WITH WATER TABLE BELOW BOTTOM OF HOLE.



ALTERNATE A ALTERNATE B
APPROX. 1/16" LARGER THAN TONGUE.
PLANK DETAILS

TEST CERTIFICATION REQUIRED -- REF. ARTICLE 1.06.07
MATERIAL CERTIFICATE
1. LUMBER & POSTS
2. HARDWARE
A CERTIFICATE OF COMPLIANCE IS ALSO REQUIRED ON THE ABOVE ITEMS

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE: Q5A24200.200396C.DGN



STANDARD SHEET
CONN. DEPT. OF TRANSPORTATION
HARDWOOD NOISE BARRIER WALL
TYPE I

REVISIONS		DESIGNED BY:	DATE:
NO.	DATE	DESCRIPTION	
1			

Drafted by: SLB(NAH) Date: 1987
Reviewed by: S.A. ROBERTS Date: 5-89
Approved by: T. MCMAHON Date: 6-91
F.H.W.A. Approval: M. SHAW Date: 7-91
Date: 9-18-91

Scale: NOT TO SCALE

STANDARD NUMBER: 916-C