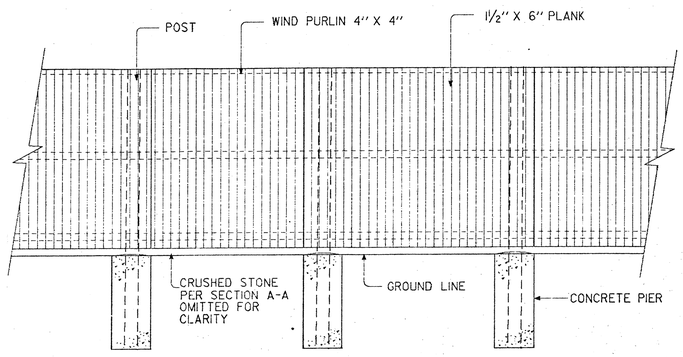
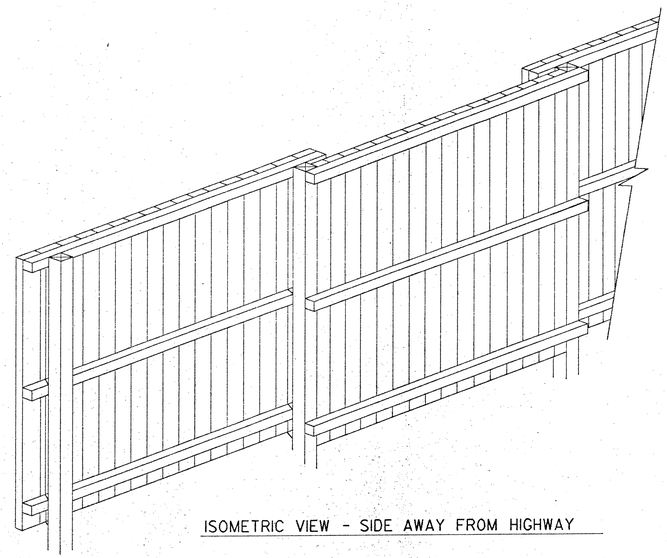
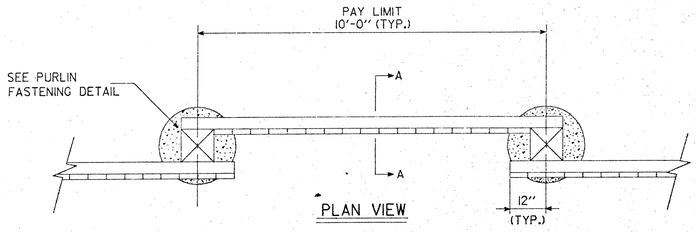
F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
I	CONN.							



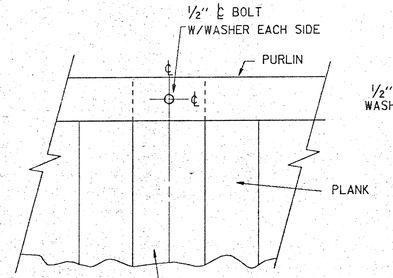
ELEVATION - TRAFFIC SIDE

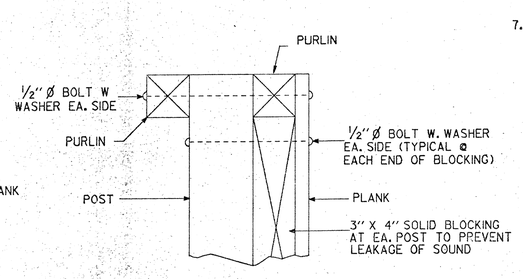


ISOMETRIC VIEW - SIDE AWAY FROM HIGHWAY

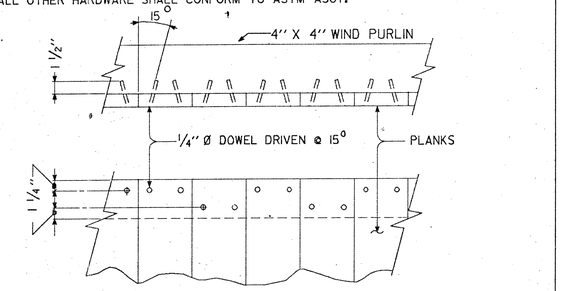


PLAN VIEW

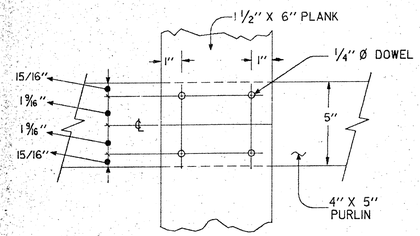




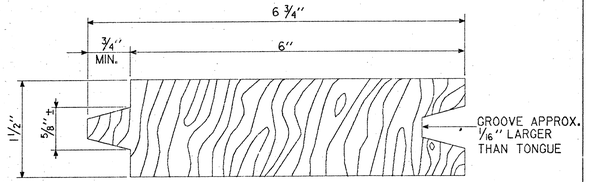
PURLIN FASTENING



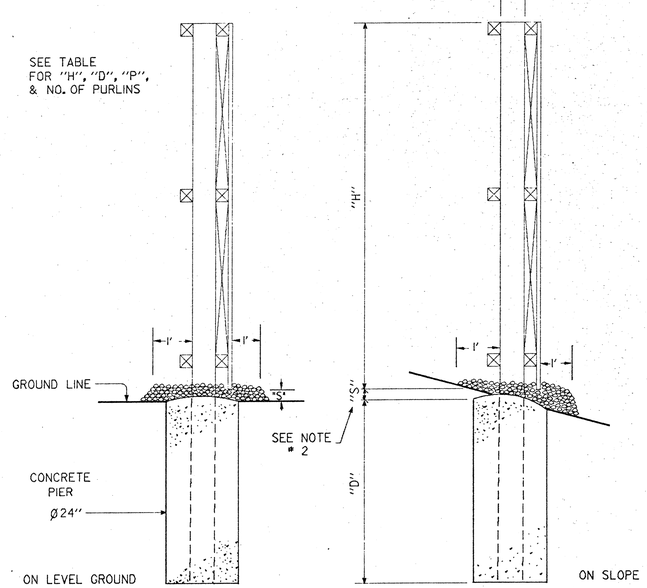
PLANK FASTENING



PLANK SPLICE DETAIL



PLANK SECTION



SECTION A-A

TABLE: POST AND PIER DEPTH 'D' IN FT. (GRANULAR SOILS ONLY)

WALL HEIGHT 'H'	POST DIMENSION 'P'	NO. OF PURLINS	POST AND PIER DEPTH 'D' CASE #1	CASE #2	CASE #3
6'-0"	6"	3	4'-0"	6'-0"	6'-0"
8'-0"	6-¾"	3	5'-0"	6'-0"	7'-0"
10'-0"	7-½"	3	5'-0"	7'-0"	8'-0"
12'-0"	8-¼"	3	6'-0"	8'-0"	9'-0"
14'-0"	9-½"	3	7'-0"	9'-0"	10'-0"
16'-0"	10-¼"	4	7'-0"	10'-0"	10'-0"
18'-0"	11"	4	8'-0"	10'-0"	11'-0"
20'-0"	11-⅞"	4	8'-0"	11'-0"	12'-0"
22'-0"	12-¾"	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 BELOW BOTTOM OF HOLE.
CASE #3: A SIDE SLOPE OF 2:1 WITH WATER TABLE BELOW BOTTOM OF HOLE.

NOTE: PLANKS UP TO 16'-0" IN LENGTH WILL BE PROVIDED AS ONE PIECE. PLANKS LONGER THAN 16'-0" MAY BE PROVIDED IN ONE LENGTH OR IN TWO LENGTHS WITH A SINGLE SPLICE. FOR WALLS OVER 16'-0" IN HEIGHT, IF SPLICES ARE USED, THE TWO INSIDE PURLINS WILL BE 4" X 5" TO ACCOMODATE THE SPLICE. (SEE PLANK SLICE DETAIL).

1. CONCRETE SHALL BE CLASS "A" IN CONFORMANCE WITH SECTION 6.01.
2. 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. "S" SHALL BE A MINIMUM OF 2".
3. ALL POST HARDWOOD MATERIAL SHALL BE BONGOSSI OR EKKI (LOPHERA ALATA/PROCERA). ALL PANAL HARDWOOD MATERIAL SHALL BE BONALIM (DINIZIA EXCELSA) OR EKKI WITH THE FOLLOWING MINIMUM CHARACTERISTICS:

	EKKI BONGOSSI	BONALIN
BENDING	3,750 PSI	3,800 PSI
TENSION	3,450 PSI	3,500 PSI
COMPRESSION PARALLEL TO GRAIN	3,550 PSI	4,000 PSI
COMPRESSION PERPENDICULAR TO GRAIN	2,000 PSI	2,100 PSI
SHEAR PARALLEL TO GRAIN	425 PSI	450 PSI
MODULUS OF ELASTICITY	2,490,000 PSI	2,350,000 PSI
MAX. UNIT WEIGHT ASSUMED FOR DESIGN PURPOSES	70 PCF	68 PCF

4. 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:

	EKKI BONGOSSI	BONALIN
FLAME SPREAD INDEX (10 MINUTES):	0	10
FLAME SPREAD INDEX (30 MINUTES):	10	25
SMOKE DEVELOPED VALUE (10 MINUTES):	5	10

5. THE TOP OF EACH POST IS TO BE FIELD CUT FLUSH WITH THE TOP OF THE PANEL PLANKS.
6. THE **END** PLANKS OF EACH PANEL SHALL NOT HAVE **AN EXPOSED TONGUE OR GROOVE.**
7. 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.

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 Files 05A2LE200\2003916D.DGN

CONNECTICUT DEPT. OF TRANSPORTATION — COMPUTER AIDED DESIGN

STANDARD SHEET
CONN. DEPT. OF TRANSPORTATION

HARDWOOD NOISE BARRIER WALL
TYPE 2

REVISIONS		
NO.	DATE	DESCRIPTION

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

Scale: NOT TO SCALE

STANDARD NUMBER 916-D