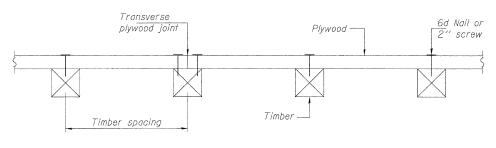


CROSS SECTION



SECTION A-A

TIMBER SPACING

	Timber Sizes (in.)			
Beam Spacing (ft,)	Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	Fv=125 psi	
		m Timber Spac		
4,5	16	16	16	
4.75	16	16	16	
_5.0	16	16	16	
5.25	16	16	16	
_ <u>5,5</u>	16	16	16	
<u>5.75</u>	16	16	16	
_6.0	16	16	16	
6.25	12	16	16	
_6,5	12	16	16	
<u>6.75</u>	12	16	16	
_ <u>7.0</u>	8	16	16	
7.25	8	16	16	
_7.5	8	16	16	
7.75	8	16	16	
_8.0	8	12	16	
<u>8.25</u>	8	12	16	
_8.5	6	12	12	
<u>8.75</u>	6	12	12	
_9.0	6	8	12	

See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.

Plywood shall be ${}^{5}8''$ rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers. When 4" x 6" timbers are used, they shall be placed such that the wide

face is horizontal and the narrow face is vertical. Design load = 200 psf.

The limits of Permanent Protective Shield shall extend from East Fascia beam to West fascia beam transversely. Longitudinally, it shall extend from face to face of guardrail on US 20.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent	t) Sq. Yd.	443

			USER	NAI
	LIN ENGINEERING,LTD.	FILE	NAN	
	Consulting Engineers	PLOT	SC	
	200	Chatham, Illinois	PLDT	DA

	USER NAME =	DESIGNED	-	TBP	REVISED	-	
١.	FILE NAME =	CHECKED	-	ADB	REVISED	-	
	PLDT SCALE =	DRAWN	-	TBP	REVISED	-	
	PLOT DATE =	CHECKED	-	MTH	REVISED		

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

PROTECTIVE	SHIELD	DETAILS
STRUCTUR	E NO. 0	450017

_	F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	345	8R-1-RS-4	KANE	124	72
			CONTRACT	NO. 6	OM46
		ILLINOIS FED. A	ID PROJECT		