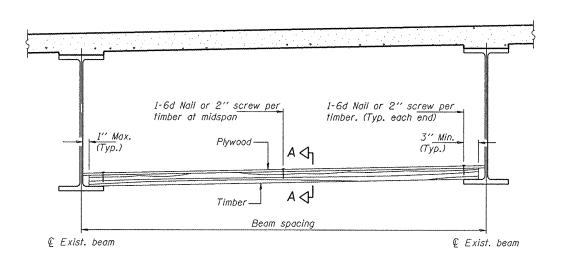
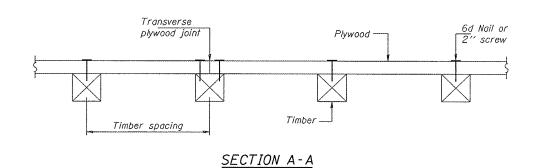
 		<u> </u>	NTRACT	NO. 688	320	
 F.A RTE.	SECTION		COUNTY	TOTAL	SHEET NO.	
VAR.	VARIOUS	;	VARIOUS	9	9	
STA. TO STA.						
FED. RO	AD DIST. NO. 4	ILLINOIS	FED. AID	PROJECT		





STEEL BEAMS

TIMBER SPACING

	Timber Sizes (in.)						
Beam Spacing (ft.)	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi				
ļ		n Timber Spac					
4.5	16	16	16				
<u>4,75</u>	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	<i>1</i> 6				
6.25	12	16	16				
_6,5	12	16	<i>1</i> 6				
<u>6.75</u>	12	<i>1</i> 6	16				
_Z <u>.Q</u>	8	16	<i>1</i> 6				
<u>7.25</u>	8	16	16				
_7 <u>.5</u>	8	16	<i>1</i> 6				
7.75	8	16	<i>1</i> 6				
_8.0	8	12	16				
<u>8,25</u>	8	12	16				
_ <u>8,5</u>	6	12	12				
<i>8</i> , 75	6	12	12				
_9.0	6	8	12				

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 ${}^{5}8$ " Exterior type plywood.

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.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	4502

_	REVISIONS DATE		THE THORE DEPARTMENT OF TRANSPORTATION		
			ILLINOIS DEPARTMENT OF TRANSPORTATION		
			PERMANENT		
			PROTECTI VE	SHIELD	
			SCALE: VERT. SCALE: HORIZ. DATE: 03-06-2008	DRAWN BY: CEJ CHECKED BY	

PPS-1 05-03-07