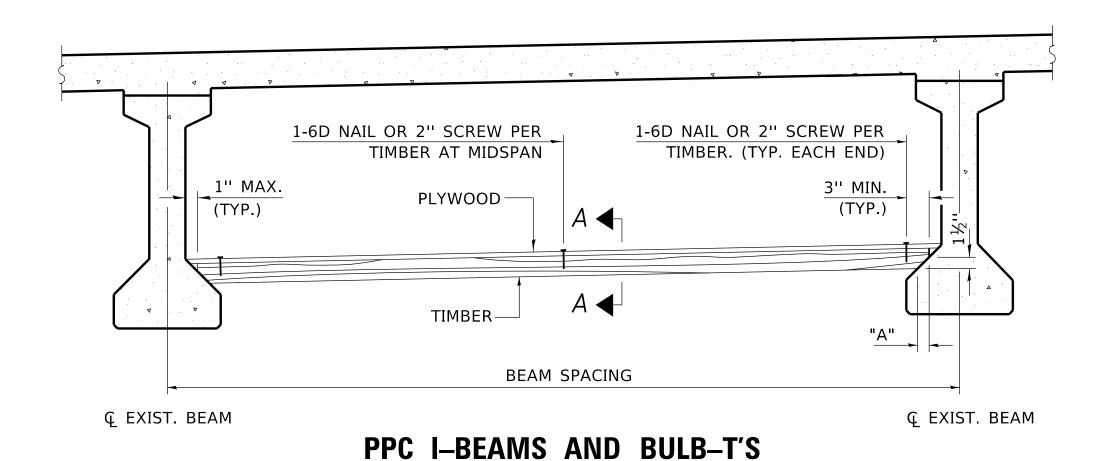
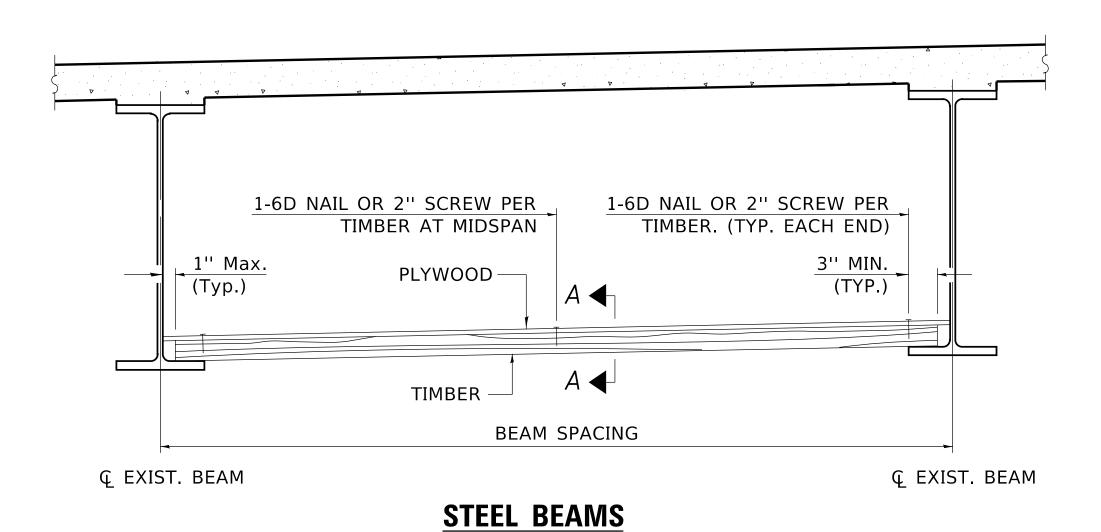
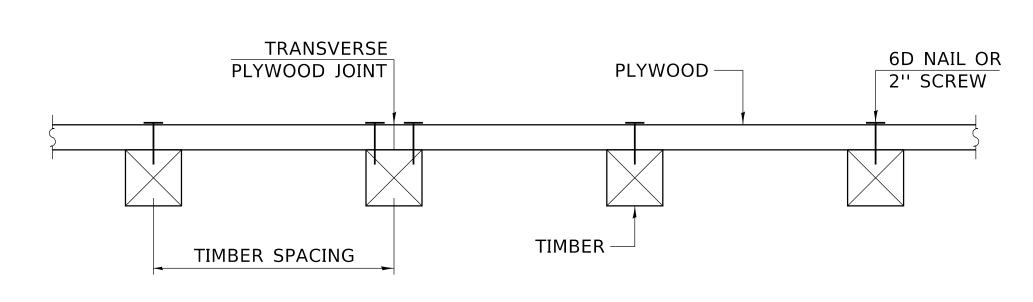
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION







# SECTION A-A

#### 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	
	MAXIMUM TIMBER SPACING (IN.)			
4.5	16	16	16	
4.75	16	16	16	
5.0	16	16	16	
5.25	16	16	16	
5.5	16	16	16	
5.75	16	16	16	
6.0	16	16	16	
6.25	12	16	16	
6.5	12	16	16	
6.75	12	16	16	
7.0	8	16	16	
7.25	8	16	16	
7.5	8	16	16	
7.75	8	16	16	
8.0	8	12	16	
8.25	8	12	16	
8.5	6	12	12	
8.75	6	12	12	
9.0	6	8	12	

# PPC I-BEAMS AND BULB-T's

BEAM	"A"
36'' I-Beam	1½''
42'' I-Beam	1½''
48'' I-Beam	1½''
54'' I-Beam	1%''
63'' Bulb-T	3%''
72'' Bulb-T	3%''

#### NOTES:

- 1. SEE SPECIAL PROVISION FOR PERMANENT PROTECTIVE SHIELD SYSTEM.
- 2. TIMBER SIZES SHOWN ARE NOMINAL SIZES. ROUGH SAWN TIMBER OF THE DIMENSIONS SHOWN WILL ALSO BE CONSIDERED ACCEPTABLE.
- 3. 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.
- 4. 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.
- 5. 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'.
- 6. TRANSVERSE PLYWOOD JOINTS SHALL BE SUPPORTED BY TIMBERS.
- 7. WHEN 4" X 6" TIMBERS ARE USED, THEY SHALL BE PLACED SUCH THAT THE WIDE FACE IS HORIZONTAL AND THE NARROW FACE IS VERTICAL.
- 8. DESIGN LOAD = 200 PSF.

# **BILL OF MATERIAL**

ITEM	UNIT	TOTAL
PROTECTIVE SHIELD (PERMANENT)	SQ. YD.	

#### PERMANENT PROTECTIVE SHIELD

CONTRACT NO.

PPS-1 01-22-09 DESIGNED REVISED F.A. RTE. USER NAME = footemj SECTION **STATE OF ILLINOIS** PERMANENT PROTECTIVE SHIELD DRAWN REVISED CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 50.0000 ' / in. BM-PPS-1 DATE REVISED OF 1 SHEETS STA. TO STA. PLOT DATE = 3/11/2019SCALE: NONE ILLINOIS FED. AID PROJECT