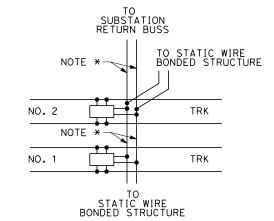
"A" POINT



STATIC WIRE
BONDED STRUCTURE

SIGNALLED TRK

SIGNALLED TRK

STATIC WIRE
BONDED STRUCTURE

"A" POINT

NO. 4

NO. 3

TRK

NO. 2

TRK

NO. 1

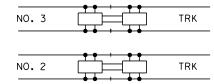
TRK

TO

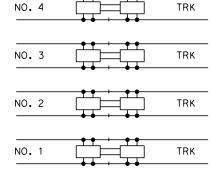
STATIC WIRE
BONDED STRUCTURE

"C" POINT

"A" POINT



"C" POINT



NOTE:

* LEADS FROM SUBSTATION RETURN BUSS TO FARTHEST ELECTRIFIED TRACK MUST BE NOT LESS THAN 2 EA 750 MCM. ALL OTHER CROSS-BOND LEADS, NEUTRAL LEADS, AND SIDE LEADS TO BE 2 EA. 19 #9 40% COPPER CLAD STEEL WIRE. ALL CONNECTION SHALL BE CADWELD.

PARSONS BRINCKERHOFF



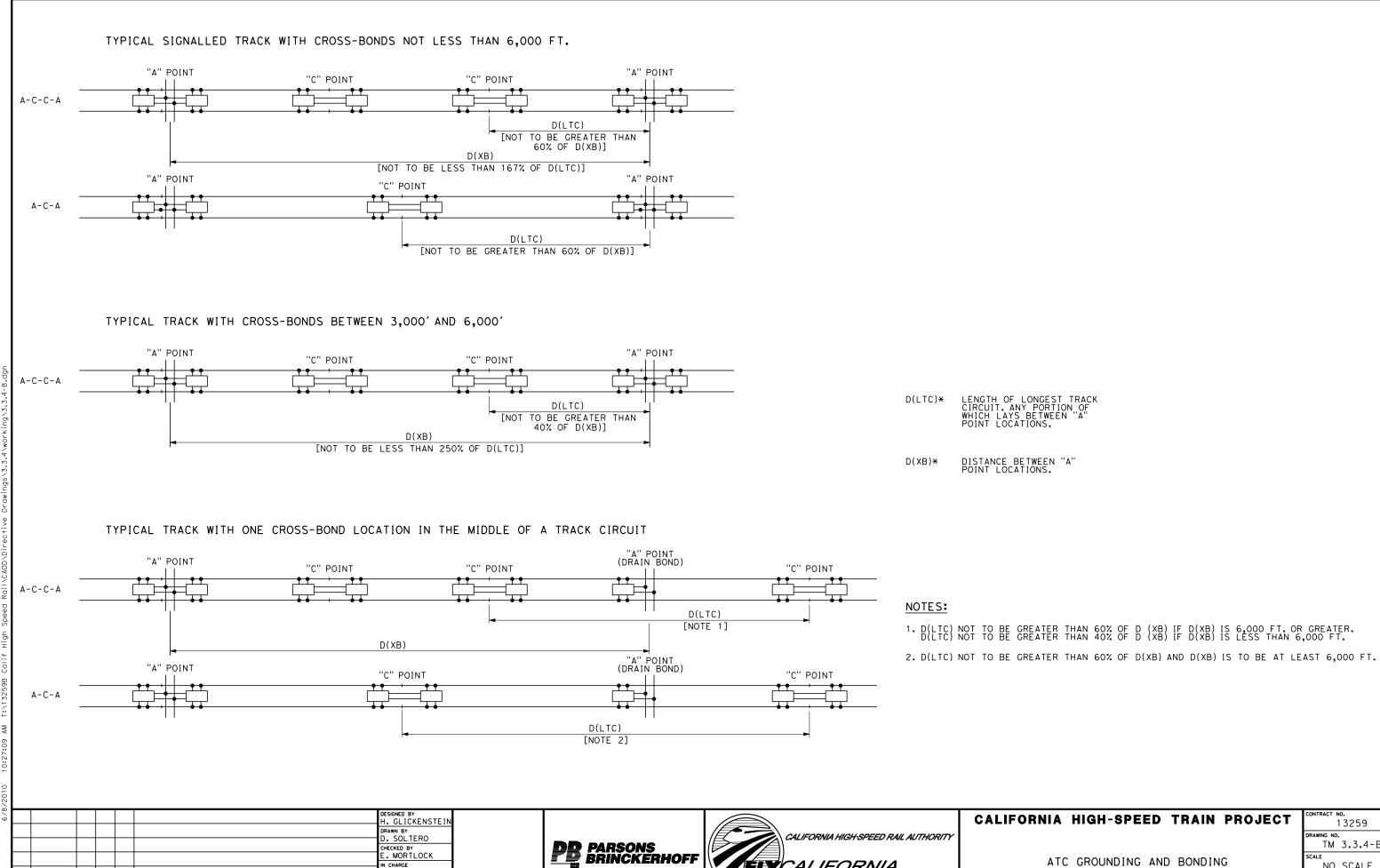
CALIFORNIA HIGH-SPEED TRAIN PROJECT

ATC GROUNDING AND BONDING
"A" & "C" POINTS AND DRAIN BOND LOCATIONS

CONTRACT NO.
13259

DRAWING NO.
TM 3.3.4-A

SCALE
NO SCALE
SHEET NO.



CHARGE

06/08/10

DATE

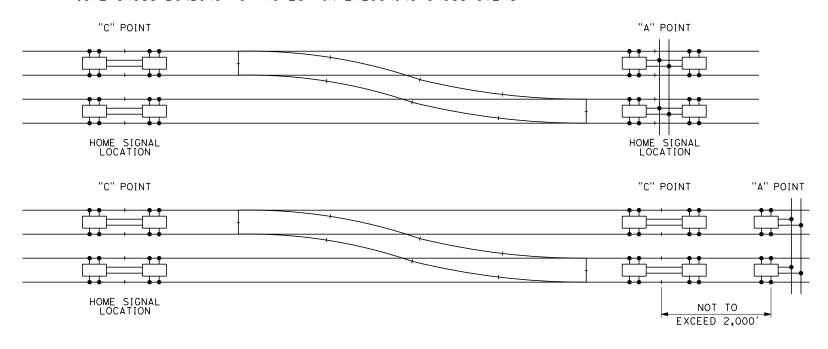
BY CHK APP

DESCRIPTION

FLYCALIFORNIA

ATC GROUNDING AND BONDING CROSS-BONDING PRACTICE

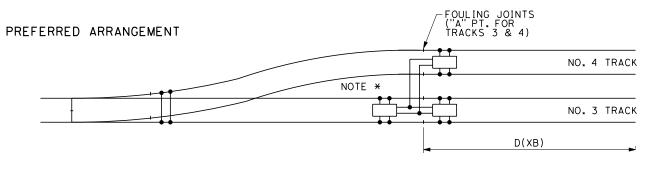
13259 TM 3.3.4-B NO SCALE SHEET NO.



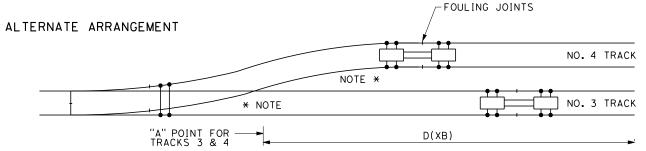
PERFERRED ARRANGEMENT "A" POINT AT ONE HOME SIGNAL LOCATION

ALTERNATE ARRANGEMENT WHERE SUBSTATION RETURN BUSS NOT GREATER THAN 2,000' FROM HOME SIGNAL

TYPICAL BONDING WHERE INTERLOCKING TURNOUT LEADS TO ANOTHER SIGNALED/ELECTRIFIED MAIN TRACK



PREFERRED ARRANGEMENT [NOTE THAT D(XB) FOR TRACKS 3 & 4 BEGINS AT THE FOULING JOINTS]



ALTERNATE ARRANGEMENT
[NOTE THAT D(XB) FOR TRACKS 3 & 4
BEGINS AT THE FROG OF THE TURNOUT]

NOTE:

* CROSS-BONDS IN PREFERRED ARRANGEMENT AND FOULING WIRES IN ALTERNATE ARRANGEMENT MUST BE 2 EACH 19 #9 40% COPPER CLAD STEEL WIRE. SAME AS NEUTRAL AND SIDE LEADS.

						DESIGNED BY H. GLICKENSTEIN	
						DRAWN BY	Ì
						CHECKED BY	Ì
						IN CHARGE R. SCHMEDES	İ
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 06/08/10	

PARSONS BRINCKERHOFF



CALIFORNIA HIGH-SPEED TRAIN PROJECT

ATC GROUNDING AND BONDING CROSS-BONDING AT INTERLOCKINGS

CONTRACT NO.

13259

DRAWING NO.

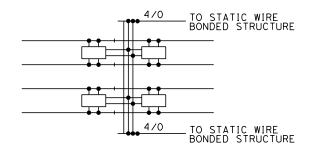
TM 3.3.4-C

SCALE

NO SCALE

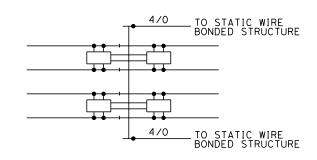
SHEET NO.

CADWELD CONNECTION [1 EA 19 #9 40% COPPER CLAD STEEL WIRE] FROM BASE OF SIGNAL MAST TO NEUTRAL LEADS OF INSULATED JOINTS ON TRACK GOVERNED BY SIGNAL ONLY. NO OTHER CONNECTION TO OTHER TRACKS. STRUCTURES OR SIGNALS UNLESS PART OF "A" POINT SHOWN ON PLAN



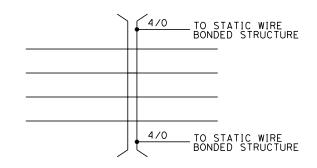
AERIAL CONNECTION FROM EACH END OF SIGNAL BRIDGE TO NEAREST STATIC WIRE BONDED STRUCTURE. AERIAL CONNECTIONS NOT REQUIRED IF SIGNAL BRIDGE IS PART OF TRANSMISSION STRUCTURE BONDED INTO STATIC WIRE RETURN SYSTEM.

SIGNAL BRIDGE, NOT AT AN "A" POINT LOCATION



AERIAL CONNECTION FROM EACH END OF SIGNAL BRIDGE TO NEAREST STATIC WIRE BONDED STRUCTURE. NO CONNECTIONS TO ANY PART OF TRACK OR NEUTRAL LEADS.

OVERHEAD BRIDGE



AERIAL CONNECTIONS FROM EACH END OF OVERHEAD BRIDGE TO NEAREST STATIC WIRE BONDED STRUCTURE.

PARSONS BRINCKERHOFF



CALIFORNIA HIGH-SPEED TRAIN PROJECT

ATC GROUNDING AND BONDING OF SIGNALS AND OVERHEAD STRUCTURES

CONTRACT NO.

1 3259

DRAWING NO.

TM 3.3.4-D

SCALE

NO SCALE

SHEET NO.