417 N (EAST STREET)

Pearl, IL

DEC 2'8 2015

IMPORTANT NOTE - Field Prints Dimensional Information

fm = Field Measured, meaning footage shown has been physically measured and is accurate unless field conditions have changed.

Verify in Field = Field personnel must accurately measure between the points shown and mark-up the plans with the actual field measurements.

 \pm = Dimensions shown were determined by mathematical calculations between two mile post numbers and must not be used to determine the exact placement of any signal equipment. If exact placement of signal equipment cannot be accurately determined by using KCS Standards, contact the KCS Supervisor in charge of the project.

AUTHORITY DATE SIGNALS IN SERVICE





KANSAS CITY SOUTHERN LINES

SIGNAL DEPT.

DWG. NO. SD-31-2-251.19 A-Z

LOCATION 417 N (EAST STREET) PEARL, IL

FILE SD-31-5-251.19 DOT NO. 293-200 S MILE POST 251.19

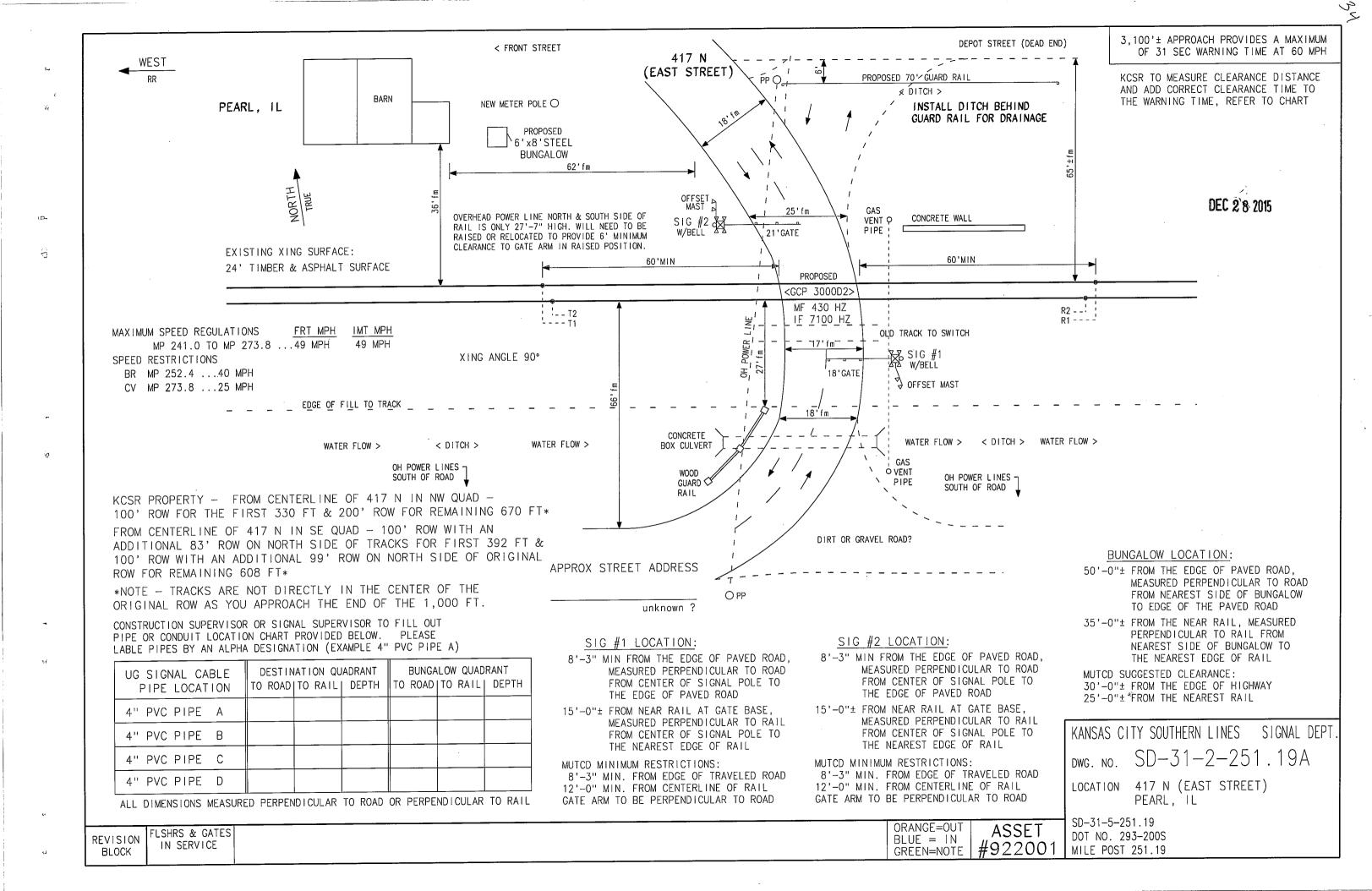
Asset or AFE No.

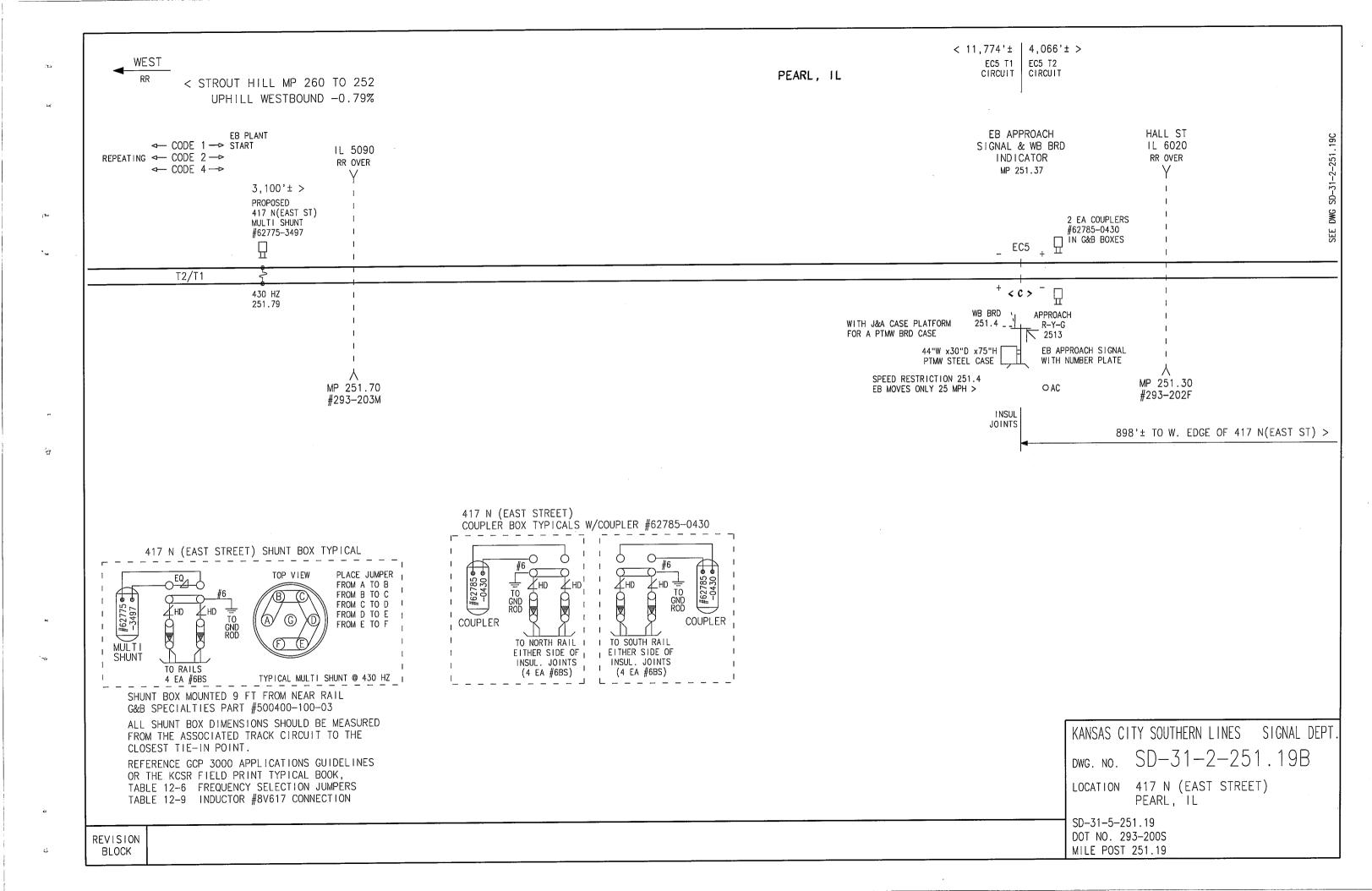
Field Prints Date

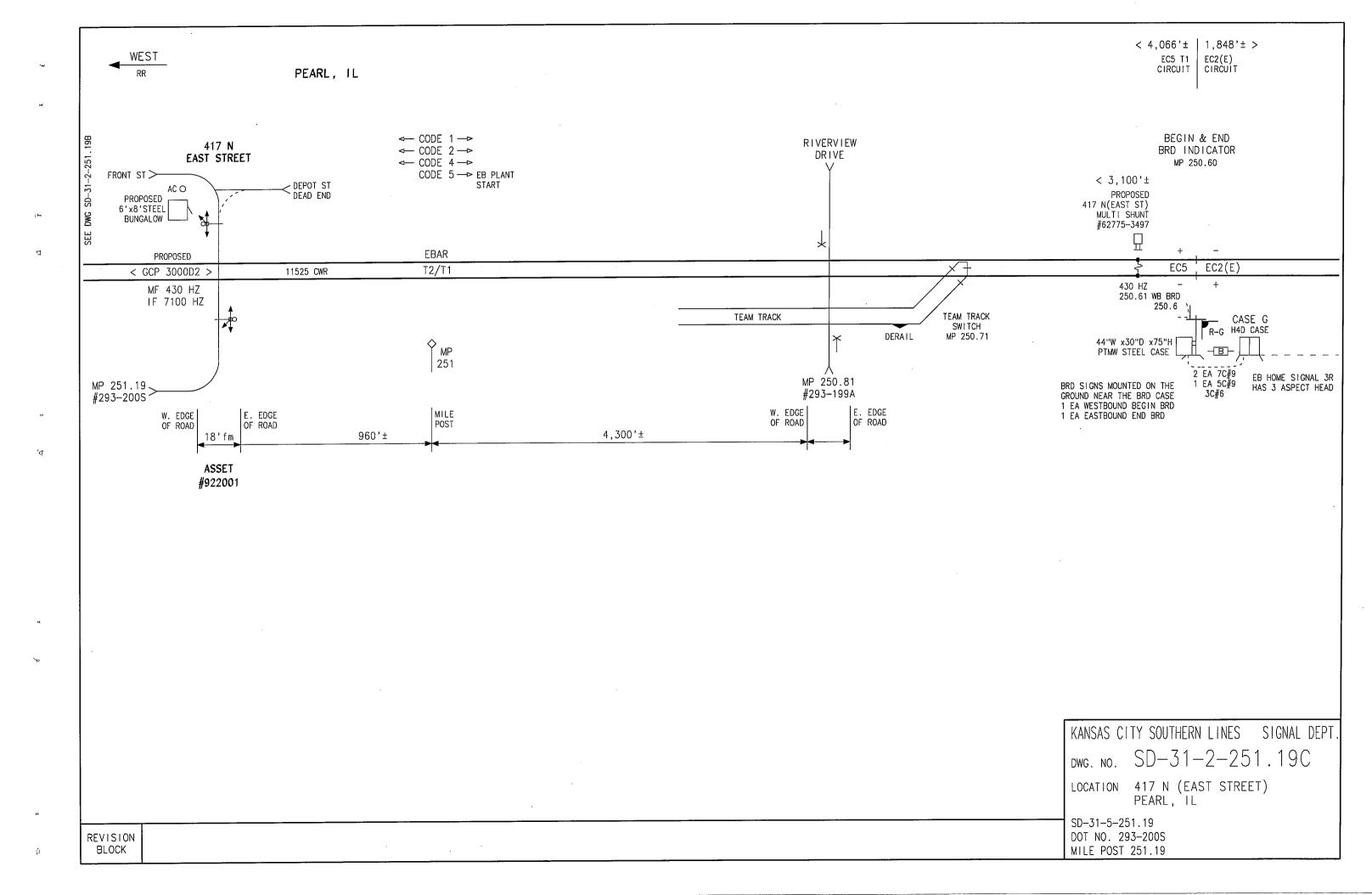
922001

12/21/15

ILLINOIS COMMERCE COMMISSION SET







INSTALLATION AND DESIGN INFORMATION

<u> </u>				
APPROACH AND WARNING TIME CALCULATIONS	GCP-T1 MAIN TRK	OTHER TRK	OTHER TRK	OTHER TRK
MINIMUM WARNING TIME PLUS CLEARANCE TIME PLUS BUFFER TIME	20 SEC 0 SEC 10 SEC			
TOTAL WARNING TIME	30 SEC			
TOTAL WARNING TIME PLUS EQUIP RESPONSE PLUS ADVANCE PREEMPT TOTAL APPROACH TIME	30 SEC 5 SEC 0 SEC 35 SEC			
MAX. TRAIN SPEED EQUATION FEET/SECOND SPEED FEET PER SECOND	60 MPH x 1.4667 88.0 FPS			
TOTAL APPROACH TIME SPEED FEET PER SECOND APPROACH DISTANCE	35 SEC x 88.0 3,080'			
(MESURED FROM TIE-IN POINTS)	3,100'±			
CLEARANCE DISTANCE FOR D		E WAS ESTIMA	TED TO BE _	 27

ILLINOIS REQUIRES A MIN. OF 30 SEC WARNING TIME FOR GATED CROSSING

THIS DISTANCE SHOULD BE MEASURED EXACTLY AS PART OF THE

INSTALLATION PROCESS. PER DIRECTIONS SHOWN IN CHART

MUTCD MINIMUM RESTRICTIONS FOR LOCATION AND CLEARANCE DIMENSIONS FOR FLASHER & GATE SIGNALS SHALL BE:

WHEN THERE IS A CURB...
A HORIZONTAL CLEARANCE OF AT LEAST 2'-0"
SHALL BE PROVIDED FROM THE FACE OF THE
VERTICAL CURB TO THE CLOSEST PART OF THE

WHEN THERE IS A SHOULDER, BUT NO CURB... A HORIZONTAL CLEARANCE OF AT LEAST 2'-0" FROM THE EDGE OF A PAVED OR SURFACED SHOULDER SHALL BE PROVIDED, WITH A CLEARANCE OF AT LEAST 6'-0" FROM THE EDGE OF THE TRAVELED WAY.

SIGNAL OR GATE ARM IN ITS UPRIGHT POSITION.

WHEN THERE IS NO CURB OR SHOULDER...

THE MINIMUM HORIZONTAL CLEARANCE SHALL BE
6'-0" FROM THE EDGE OF THE TRAVELED WAY.

MUTCD SUGGESTED LATERAL CLEARANCE FOR EQUIPMENT HOUSING (CONTROLLER CABINETS):

EQUIPMENT HOUSING SHOULD HAVE A LATERAL CLEARANCE OF AT LEAST 30'-0" FROM THE EDGE OF THE HIGHWAY AND WHERE RAILROAD PROPERTY AND CONDITIONS ALLOW, AT LEAST 25'-0" FROM THE NEAREST RAIL.

STIPULATED AGREEMENT 1786
SECTION 18c-7401
DOT NO. 293-200S
417 N (EAST STREET)
PEARL, IL
PIKE COUNTY

CONTACT INFORMATION:
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RAIL SAFETY SPECIALIST
ILLINOIS COMMERCE COMMISSION
527 EAST CAPITOL AVENUE
SPRINGFIELD, IL 62601-1827

PHONE: 217-557-1286

EMAIL: JVONDEBU@ICC.ILLINOIS.GOV

SIGNAL FOREMAN TO CALL STATE PROJECT ENGINEER WHEN GANG SHOWS UP AT JOB SITE TO BEGIN WORK

PROJECT NOTES:

- 1.) PROPOSED TO INSTALL THE FOLLOWING AS PART OF THIS STATE PROJECT:
 - 2 EA. FLASHER & GATE SIGNALS WITH 12" LED LIGHTS
 - 1 EA. 6'x 8' STEEL BUNGALOW WITH A CONSTANT WARNING TIME TRAIN DETECTION DEVICE WITH EVENT RECORDING
 - 2 EA. SHUNT BOX ASSEMBLIES WITH MULTI SHUNTS
 - 1 EA. 220 VAC METER POLE
- 2.) 4" PVC CONDUIT FOR SIGNAL CABLING
 UNDER ROADWAY MAY BE INSTALLED
 BY DIRECTIONAL BORING METHOD
- 3.) APPROX 450 TONS OF FILL MATERIAL REQUIRED FOR BUNGALOW & SIGNALS
- 4.) ANY UTILITIES THAT INTERFERE WITH PROPER SIGNAL PLACEMENT WILL BE RELOCATED AT PROJECT EXPENSE
- 5.) ANY POWER LINES IN AREA WILL NEED TO BE AT LEAST 10'FROM TIP OF GATE ARM IN RAISED POSITION (VERTICAL)
- 6.) ANY DRAINAGE WORK REQUIRED FOR THE PROPER SIGNAL OR BUNGALOW PLACEMENT WILL BE AT PROJECT EXPENSE
- 7.) ALL PROPOSED DIMENSIONS ARE PLUS OR MINUS AT THE DISCRETION OF THE KCS SIGNAL SUPERVISOR AND/OR THE KCS PROJECT ENGINEER, IF WITHIN THE STATE GUIDELINES

MEASURE ALONG THE EDGE OF ROAD - FROM GATE ARM DOWN TO 6' MIN. BEYOND THE FARTHEST RAIL (6'IS MEASURED PERPENDICULAR TO RAIL) MEASURE AT CENTER LINE OF ROAD - FROM GATE ARM DOWN TO 6' MIN. BEYOND THE FARTHEST RAIL (6'IS MEASURED PERPENDICULAR TO RAIL) USF THE LONGEST DISTANCE MEASURED ABOVE TO DETERMINE CLEARANCE TIME IF OVER 35' MIN., AS PER THE CHART BELOW ADD THE LONGEST CLEARANCE TIME TO THE WARNING TIME CLEARANCE DISTANCE MEASUREMENTS | SIG #1 = | | SIG #1 = |SIG #1 = |LONGËST AT EDGE CENTER CLEARANCE DISTANCE FT FT FT SEC TIME = CTOF ROAD OF ROAD SIG #2 =SIG #2 =SIG #2 = 1SIG #2 = 1LONGËST CLEARANCE CENTËR AT EDGE DISTANCE SEC FT FΤ TIME = CTOF ROAD OF ROAD CT= CLEARANCE 96' TO 105'= 7 SEC CT 0' TO 35' = NONE TIME 36' TO 45' = 1 SEC CT 106' TO 115'= 8 SEC CT 46' TO 55' = 2 SEC CT 116' TO 125'= 9 SEC CT 56' TO 65' = 3 SEC CT 126' TO 135'= 10 SEC CT 66' TO 75' = 4 SEC CT 136' TO 145'= 11 SEC CT 146' TO 155'= 12 SEC CT 76' TO 85' = 5 SEC CT 156' TO 165'= 13 SEC CT 86' TO 95' = 6 SEC CT

PLEASE MEASURE EXACT CLEARANCE DISTANCE AS FOLLOWS:

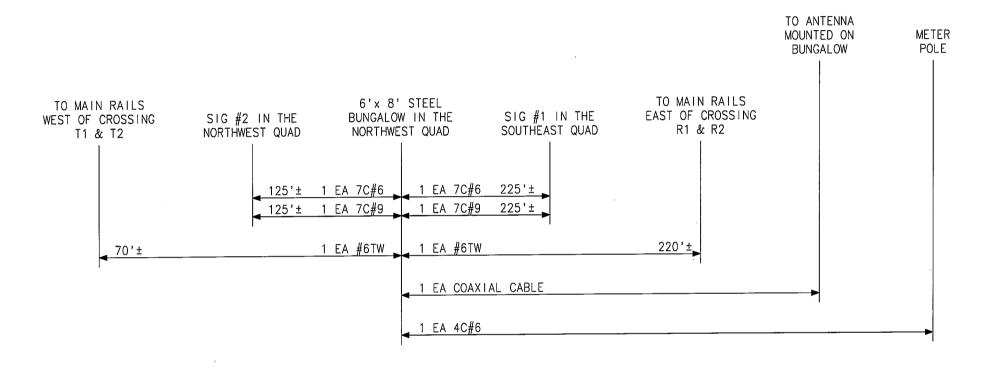
KANSAS CITY SOUTHERN LINES SIGNAL DEPT

DWG. NO. SD-3.1-2-251.19C1

LOCATION 417 N (EAST STREET)
PEARL, IL

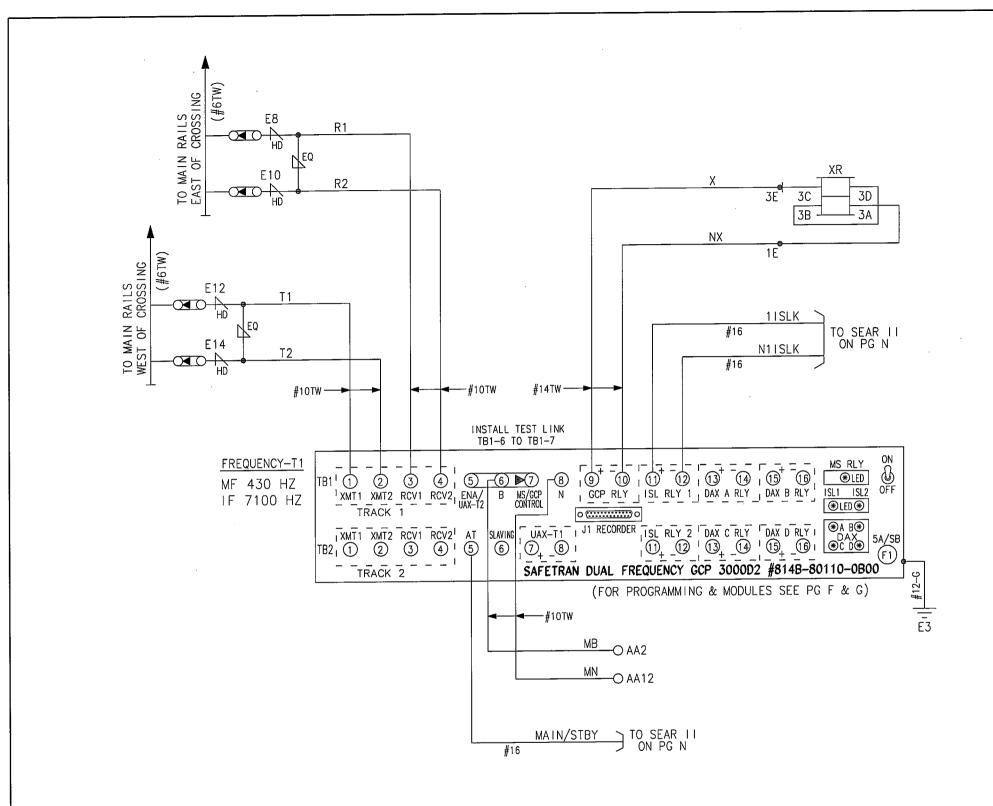
SD-31-5-251.19 DOT NO. 293-200S MILE POST 251.19

CABLE TABULATIONS



UG WIRE TOTALS
#6TW = 290'±
7C#9 = 350'±
7C#6 = 350'±
4C#6 = 200'±

SD-31-5-251.19
DOT NO. 293-200S
MILE POST 251.19



KANSAS CITY SOUTHERN LINES SIGNAL DEPT

DWG. NO. SD-31-2-251.19E

LOCATION 417 N (EAST STREET)
PEARL, IL

SD-31-5-251.19 DOT NO. 293-200S MILE POST 251.19

GCP #3000D2 / PROGRAMMING HISTORY	(Press PROGRAM Key)	GCP #3000D2 / PROGRAMMI	NG HISTORY (Press PROGRAM Key)		
NUMBER OF TRACKS (NUMBER OF TRANSCEIVERS MODULES)	1 🖺 2 🗆	RECORDER INSTALLED			000D2 MODULE ASSEMBLIES UPPER BAY
FREQUENCY (MS/GCP)T1	1:Hz		INSTALLED 🗆		4 M5 M6 M7 M8 M9 M10
T2	2 : <u>N/A</u> Hz	RS-232-C BAUD RATE			DISPLAY
UNIDIRECTIONAL/BIDIRECTIONAL Talental Tale		RS-232-C DATA BITS	7 □ 8 ■	ND NER	
	2: UNI BI BI	RS-232-C STOP BITS	1 ■ 2 □	ISLAND	SSSO SSO SSO
XMIT LEVEL T1	1: MAX MED LI 2: MAX MED LI	RS-232-C PARITY	NONE ■ MARK □	RANS	ROCE SONTR
PREDICTOR/MOTION SENSORT	_		ODD 🗆 SPACE 🗆	B0211-IPI ISLAND	80020-CONTROL 80019-1 KEY/DIS
	2: PRED MS		EVEN 🗆	802	800 800 800
WARNING TIME SELECTEDT	1:SEC.	DATE (E.G., MON 16 NOV 1987)	SETUP ON INSTALL		LOWER BAY
	2:SEC.		SETUP ON INSTALL		4 M15 M16 M17 M18 M19 M20 M21
APPROACH DISTANCE SELECTED T1					VE NIFAC
	2:FT.	5	011 BBM 011 L3	80211-IPI ISLAND	SOR SOR
APPROACH DISTANCE COMPUTED T			MANDATORY INFORMATION *	ISCE	ESSO LESSO LESSO
	2: <u>SYSTEM COMPUTED</u> FT.		F "REV.M" SOFTWARE IS INSTALLED	80211-IPI ISLAND 80012-TRANSCEIVE	80013-RELAY DRI 800214-PROCESSOR 80020-CONTROL I
UAX1 PICKUP DELAY (0 = OFF)		ĸ	CS FIELD PERSONNEL TO RECORD THE	211-	80013- 800214- 80020- 12
ENA / UAX2 DELAY (0 = OFF)	O SEC.		CONFIGURATION CHECK NUMBER (CCN), AFTER GCP INSTALLATION, PROGRAMMING	800	
ISLAND DISTANCE (BETWEEN ISLAND TRACK WIRES)_T	1:FT.		AND CALIBRATION IS COMPLETE.		
	2:FT.				NCY GCP 3000D2 #814B-80110-0E
		C	NUMBER MUST BE RECORDED PRIOR		TWARE VERSION #9V121-A01M
NUMBER OF DAX'S		LOCATED ON THE #80211-IPI	TO RETURNING AS INSTALLED PLANS		SOFTWARE VERSION IS 9V121-A01H, OR 9V121-A02J, UPDATING TO THE
DAX A TRACK ASSIGNMENT		MODULE WITH SOFTWARE REVISION A01E APRIL, 2000			E 9V121-A01L WILL NOT REQUIRE DEFAULT". UPDATING A EARLIER
DAX A DISTANCE (0 = PREMPT)		INSTALL JUMPER IN PICKUP DELAY		VERSION OF	SOFTWARE WILL REQUIRE THE USER
DAX A WARNING TIME	N/ASEC.	HEADER POSITION TIME ADDED A & B 0 SEC			Y REPROGRAM THE UNIT.
DAX B TRACK ASSIGNMENT	T1 🗆 T2 🗖	A 2 SEC		S1 SWITCH & IRA	ANSFER TIMER SWITCH ON TRANSFER MC S4 SWITCH
DAX B DISTANCE (0 = PREMPT)	N/AFT.	B 4 SEC NO JUMPER (A OR B) 6 SEC		<u> </u>	UP 16 3 MINUTE
DAX B WARNING TIME	N/ASEC.	FREQUENCY		DAX USED B DAX NOT USED	UP 8 TRANSFER
DAX C TRACK ASSIGNMENT	T1 □ T2 □	SELECT HEADER		C D	UP 4 DOWN 2 OFF=UP SIDE VIEW
DAX C DISTANCE (0 = PREMPT)	N/AFT.	FREQ PICKUP DELAY		ON/OFF	DOWN 1 DOWN S4
DAX C WARNING TIME	N/ASEC.	20.2		214 21	OFF= UP
 DAX D TRACK ASSIGNMENT	T1 □ T2 □	0 0 17.5 0 15.2 0 13.2 0 0 11.5			ON = DOWN
DAX D DISTANCE (0 = PREMPT)	N/AFT.	1 140 0		KANSAS	S CITY SOUTHERN LINES SIGNAL
DAX D WARNING TIME	N/ASEC.	8.30 7.10< CONNECT SHORTING 5.90 BLOCK/JUMPER 4.90		DWG. N	o. SD-31-2-251.19F
SLAVING MASTER/SLAVE	MASTER 🛢 SLAVE 🗆	0 4.00 0 3.24 0 2.53			ON 417 N (EAST STREET)
PASSWORD ENABLED	DISABLED =	2.14		LOCATI	PEARL, IL
				·	5-251.19
VISION BLOCK				·	. 293-200S OST 251.19

GCP #3000D2 / EXPANDED PROGRAMM	ING	(Pres	s FUNCTI	ON Key)
SWITCH TO MS (ENTER EZ VALUE)	T1:_		10	EZ
	T2:_		N/A	EZ
TRANSFER DELAY MS TO GCP $(0 = OFF)_{}$	_			
	T2:_		N/A	SEC
\$ TRANSFER MS TO GCP PRIME	T1:	ON □	OFF 🗆	
(WHEN PRIME PREDICTION OFFSET IS ON)	T2:	ON 🗆	OFF 🗆	
\$ TRANSFER MS TO GCP DAX A		T1 🗆	T2 🗆	
(WHEN GCP DAX A IS ON)		ON 🗆	OFF 🗆	
\$ TRANSFER MS TO GCP DAX B		T1 □	T2 □	
(WHEN GCP DAX B IS ON)		ON 🗆	OFF 🗆	
\$ TRANSFER MS TO GCP DAX C		T1 🗆	T2 🗆	
(WHEN GCP DAX C IS ON)		ON 🗆	OFF 🗆	
\$ TRANSFER MS TO GCP DAX D		T1 🗆	T2 🗆	
(WHEN GCP DAX D IS ON)		ON 🗆	OFF □	
PRIME PREDICTION OFFSET (0 = OFF)	T1:_		0	FT.
•			0	
PICKUP DELAY PRIME		-	25	SEC
PICKUP DELAY DAX A			N/A	SEC
PICKUP DELAY DAX B	- _		N/A	SEC
PICKUP DELAY DAX C	· · _		N/A	SEC
PICKUP DELAY DAX D			N/A	SEC
COMPENSATION VALUE	T1:_		SYSTEM COMP	PUTED
	T2:_	<u></u>	SYSTEM COMP	PUTED
~ SPEED LIMITING	T1:	ON 🎇	OFF 🗆	
(DEFAULT IS ON - INDEPENDENT OF ED BELOW)	T2:	ON 🗆	OFF 🗆	
* ENHANCED DETECTION (ED)	T1:	ON 🗆	OFF 🖺	
(POOR SHUNTING DETECTION)	Т2:	ON 🗆	OFF 🗆	
* BACK TO BACK T1 AND T2		NO 🗆	YES 🗆	
(WHEN ED IS ON) * STATION STOP TIMER				くたし
* STATION STOP TIMER (WHEN ED IS ON)			N/A	
NUMBER OF TRACK WIRES			6 □ 6 □	
. LOW EV AD HISTAGENT (O - NORMAL)				
* LOW EX ADJUSTMENT (0 = NORMAL)			N/A	

GCP #3000D2 / EXPANDED PROGRAMMING	(Press FUNCTION	Key)
# LOW EZ DETECTIONT1	: ON	
# LOW EZ DETECTION TIMERT1 (WHEN LOW EZ DETECTION IS ON) T2	: N/A : N/A	
# POSITIVE START (0 = OFF)T1 (ENTER EZ VALUE) T2	: 0 : N/A	
# POSITIVE START TIMEOUT (0 = NONE)T1 (WHEN POSITIVE START IS ON) T2	: N/A : N/A	
# SET AT OPERATION	NORMAL ■ DIAGNOSTIC □	
@! DIAGNOSTIC MESSAGES	ON OFF	
@! DAX MESSAGES	ON 🗌 OFF 🖪	
! ADVANCE PREEMPT TIMER (00 = OFF)	00	_SEC.
\$ MOTION SENSING LEVEL (0 = NORMAL)T1	,	_ EZ EZ

THE FOLLOWING OPTIONS (A,B,C) ARE AVAILABLE WHEN THE ENHANCED DETECTION SCREEN IS DISPLAYED

- A: ED SENSITIVITY LEVEL CAN BE REDUCED WITH ED ON. TO REDUCE, KEY IN "NEW DATA" THEN 1003, 1004, 1005 OR 1025. THE LOWER THE NUMBER, THE HIGHER THE SENSITIVITY.
- B: SPEED LIMITING MAY BE TURNED ON OR OFF INDEPENDENT OF ED ">" INDICATES SPEED LIMITING IS ON DEFAULT.

 TO TURN ON OR OFF, KEY IN "NEW DATA",

 THEN 4000 FOR ON, OR 4001 FOR OFF.
- C: PREDICTION COUNTS CAN BE CHANGED WITH ED ON.
 TO INCREASE KEY IN "NEW DATA", THEN 3001, 3002 OR 3003.
 3001 = A DELAY OF 0.5 SECONDS, DISPLAYED AS "ON +1"
 3002 = A DELAY OF 1.0 SECONDS, DISPLAYED AS "ON +2"
 3003 = A DELAY OF 1.5 SECONDS, DISPLAYED AS "ON +3"

FOLLOWING IS REQUIRED TO CONNECT GCP 3000 UNIT TO A ECHELON NETWORK...

- 1 EA. 80063 ECHELON PLUG ON J1 SERIAL PORT
- 2 EA. 80214 PROCESSOR MODULES (E OR HIGHER) 2 EA. 80255 INTERFACE MODULES (M7/M17)

EXPANDED PROGRAMMING RESTRICTIONS...

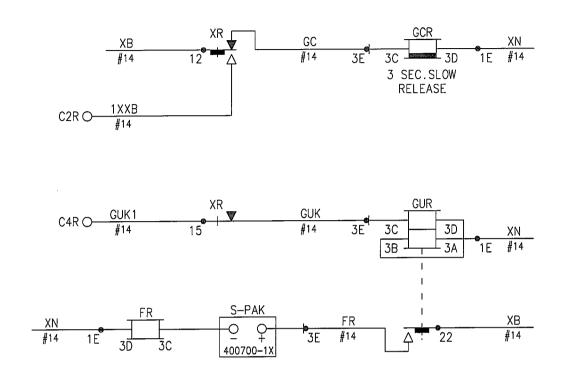
- * APPLICABLE ONLY TO GCP WITH 80044 OR 80214 PROCESSOR MODULE
- # APPLICABLE ONLY TO GCP WITH 80214 PROCESSORS WITH SOFTWARE REVISION 9V121-A01C OR LATER
- ! APPLICABLE ONLY TO GCP WITH 80214 PROCESSORS WITH SOFTWARE REVISION 9V121-A01E OR LATER
- \$ APPLICABLE ONLY TO GCP WITH 80214 PROCESSORS WITH SOFTWARE REVISION 9V121-A01H OR LATER
- @ APPLICABLE ONLY WHEN A SEAR NODE HAS BEEN PROGRAMMED INTO THE GCP FROM A SEAR

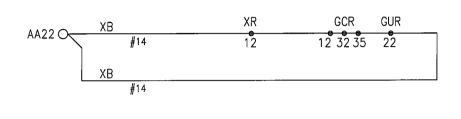
KANSAS CITY SOUTHERN LINES SIGNAL DEPT

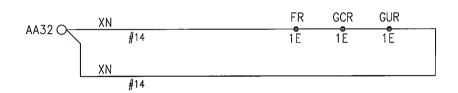
DWG. NO. SD-31-2-251.19G

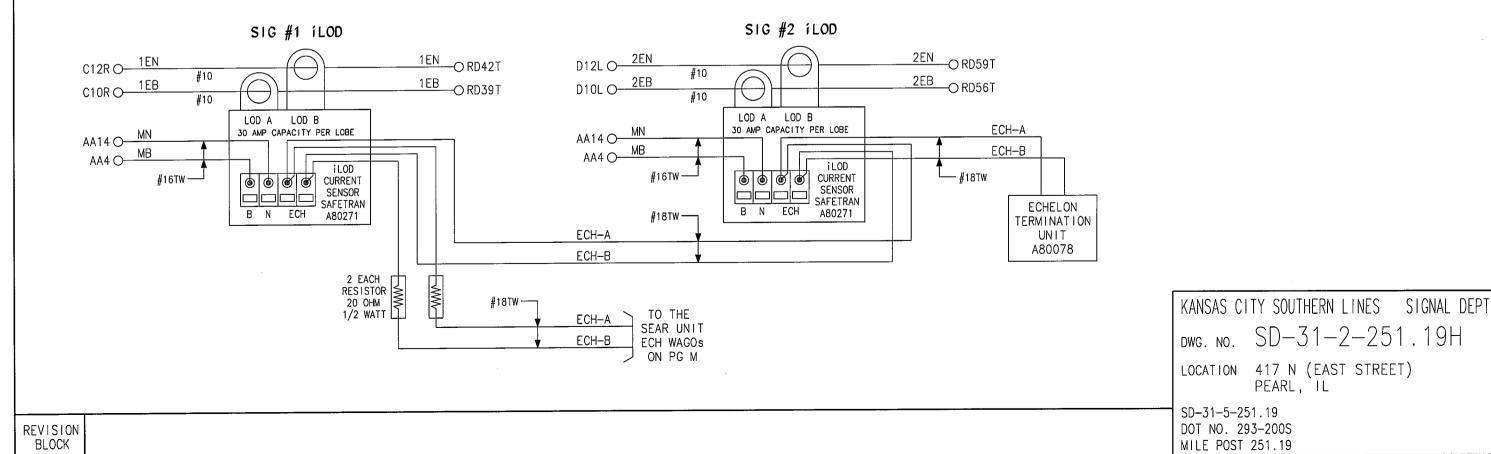
LOCATION 417 N (EAST STREET)
PEARL, IL

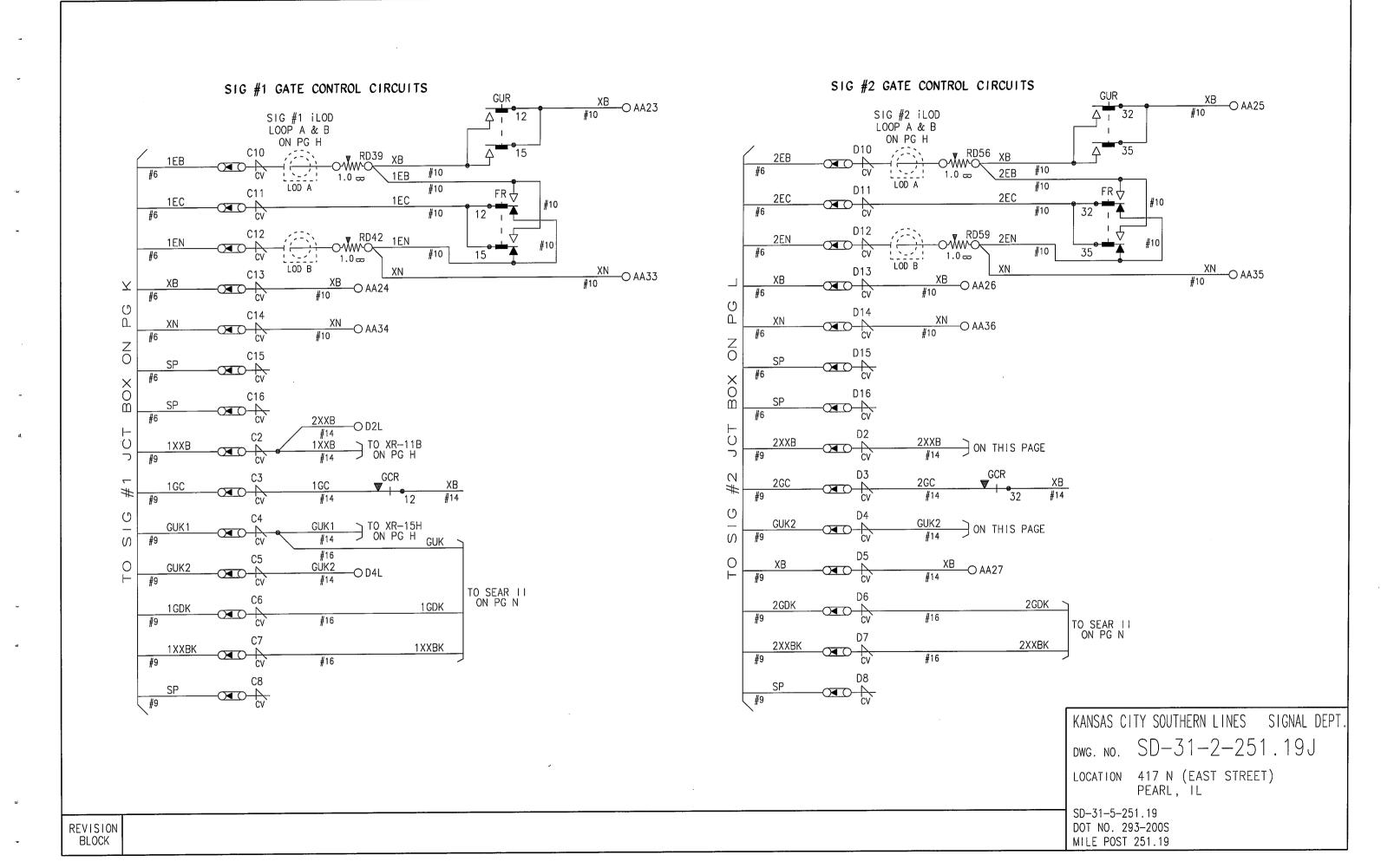
SD-31-5-251.19 DOT NO. 293-200S MILE POST 251.19

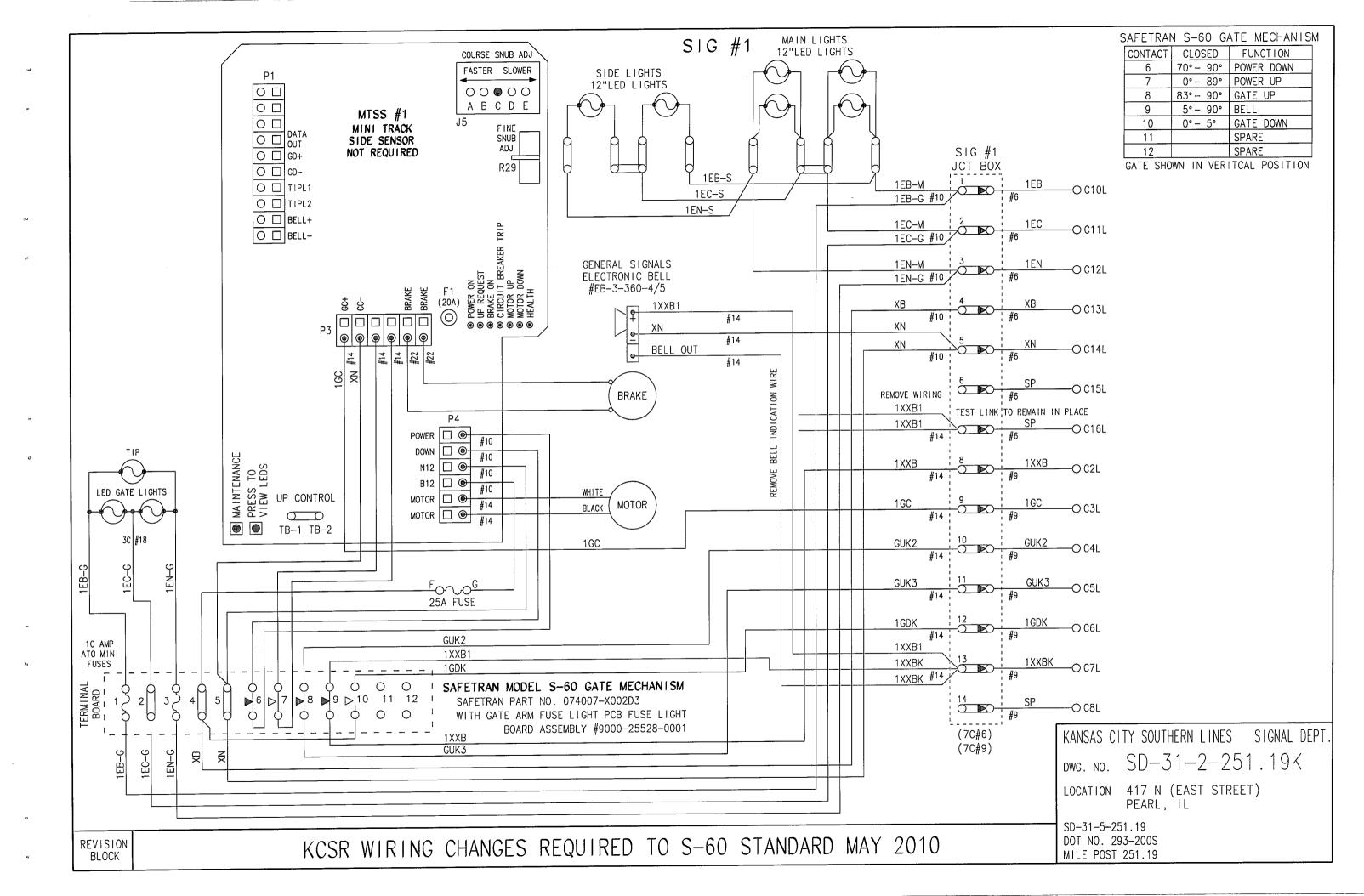


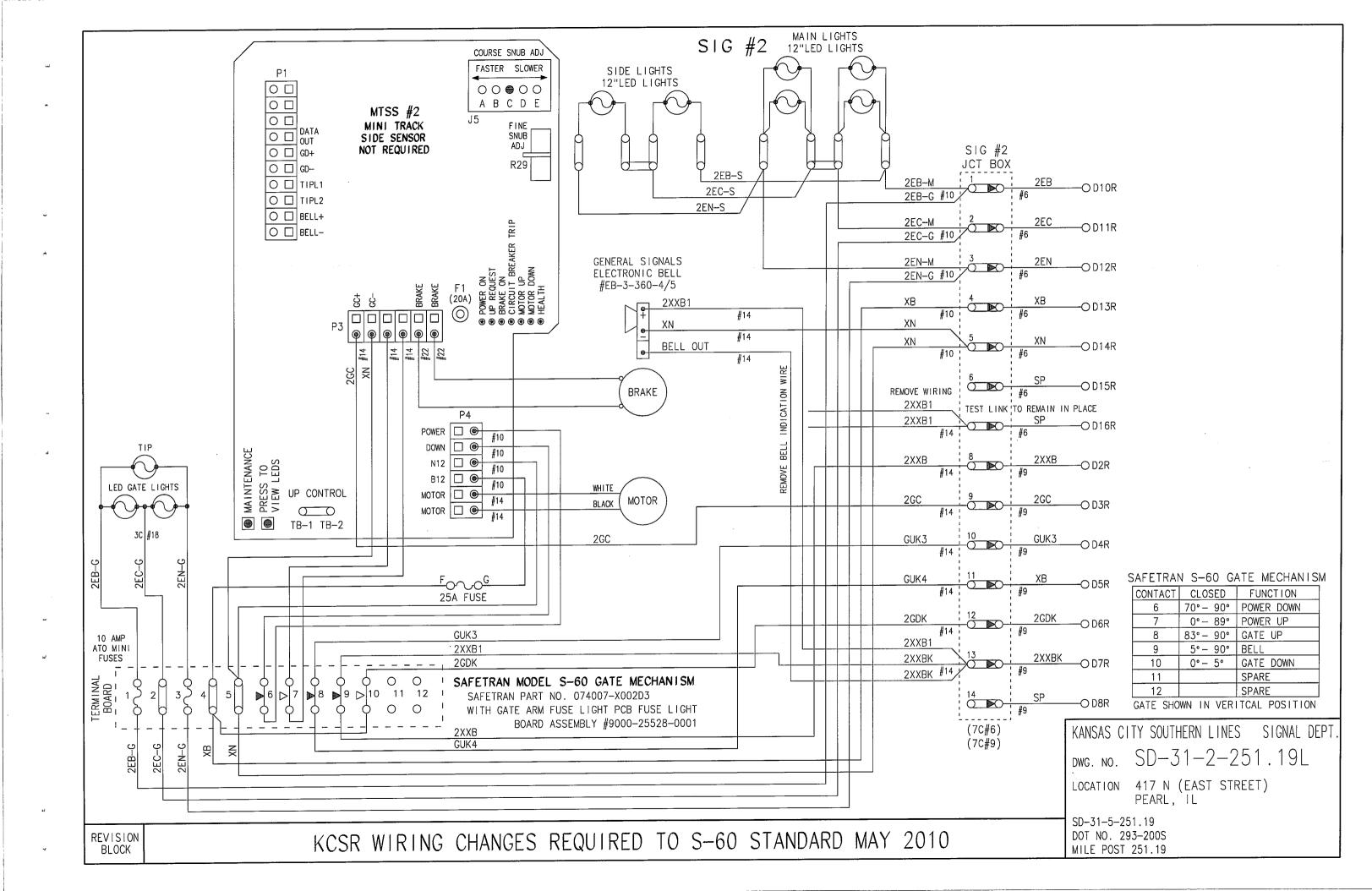


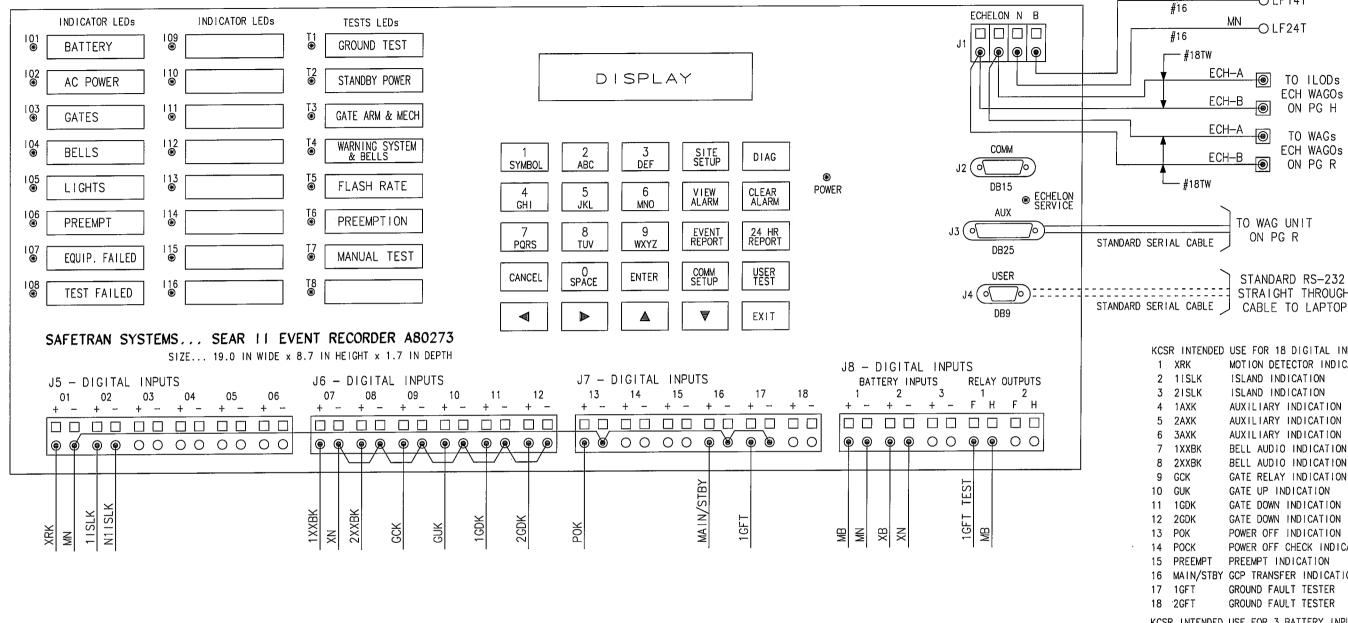












STANDARD LED CONVENTIONS...

- 1. LEDs ARE OFF WHEN NO ALARM HAS BEEN GENERATED OR AN ALARM HAS BEEN CLEARED USING THE CLEAR ALARM KEY.
- 2. LEDs FLASH FAST WHEN AN ALARM CONDITION EXISTS.
- 3. LEDs ARE ON (RED) IF AN ALARM HAS OCCURRED BUT THE ALARM CONDITION NO LONGER EXISTS.
- 4. THE CLEAR ALARM KEY WILL NOT CLEAR OUT ALARMS IF THEY CURRENTLY EXIST.

TEST LED CONVENTIONS...

- 1. LEDs ARE YELLOW STEADY WHEN AUTOMATIC INSPECTIONS ARE NOT READY TO EXECUTE.
- 2. LEDs SLOW FLASH YELLOW WHEN INSPECTIONS ARE READY TO RUN, BUT HAVE NOT YET EXECUTED OR ARE CURRENTLY EXECUTING. (EXAMPLE: AWAITING A TRAIN ARRIVAL)
- 3. LEDs ARE RED STEADY WHEN AN INSPECTION HAS FAILED.
- 4. LEDs FAST FLASH GREEN WHEN AN INSPECTION HAS PASSED.
- 5. THE CLEAR ALARM KEY WILL NOT EFFECT THESE LEDs.
- 6. A LOCALLY EXECUTED AUTOMATIC TEST WILL RESET ALL LEDs TO SLOW FLASH YELLOW IF PREVIOUS TESTS HAVE PASSED.
- 7. AFTER SUCCESSFUL PASS FOR ALL TESTS, THE TESTS ARE SENT INTO THE OFFICE AND LEDS ARE GREEN STEADY.

KCSR INTENDED USE FOR 18 DIGITAL INPUTS MOTION DETECTOR INDICATION ISLAND INDICATION ISLAND INDICATION AUXILIARY INDICATION AUXILIARY INDICATION AUXILIARY INDICATION BELL AUDIO INDICATION BELL AUDIO INDICATION GATE RELAY INDICATION GATE UP INDICATION GATE DOWN INDICATION GATE DOWN INDICATION POWER OFF INDICATION POWER OFF CHECK INDICATION 15 PREEMPT PREEMPT INDICATION 16 MAIN/STBY GCP TRANSFER INDICATION GROUND FAULT TESTER GROUND FAULT TESTER KCSR INTENDED USE FOR 3 BATTERY INPUTS 1 MB BATTERY MAIN OPERATING BATTERY 1ST LIGHTING BATTERY 2 XB BATTERY 3 BATTERY #3 2ND LIGHTING BATTERY KCSR INTENDED USE FOR 2 RELAY OUTPUTS 1 GFT TEST GROUND FAULT RELAY AC OFF CONTROL RELAY 2 XATR

—O LF14T

—O LF24T

TO WAG UNIT

ON PG R

STANDARD RS-232

STRAIGHT THROUGH

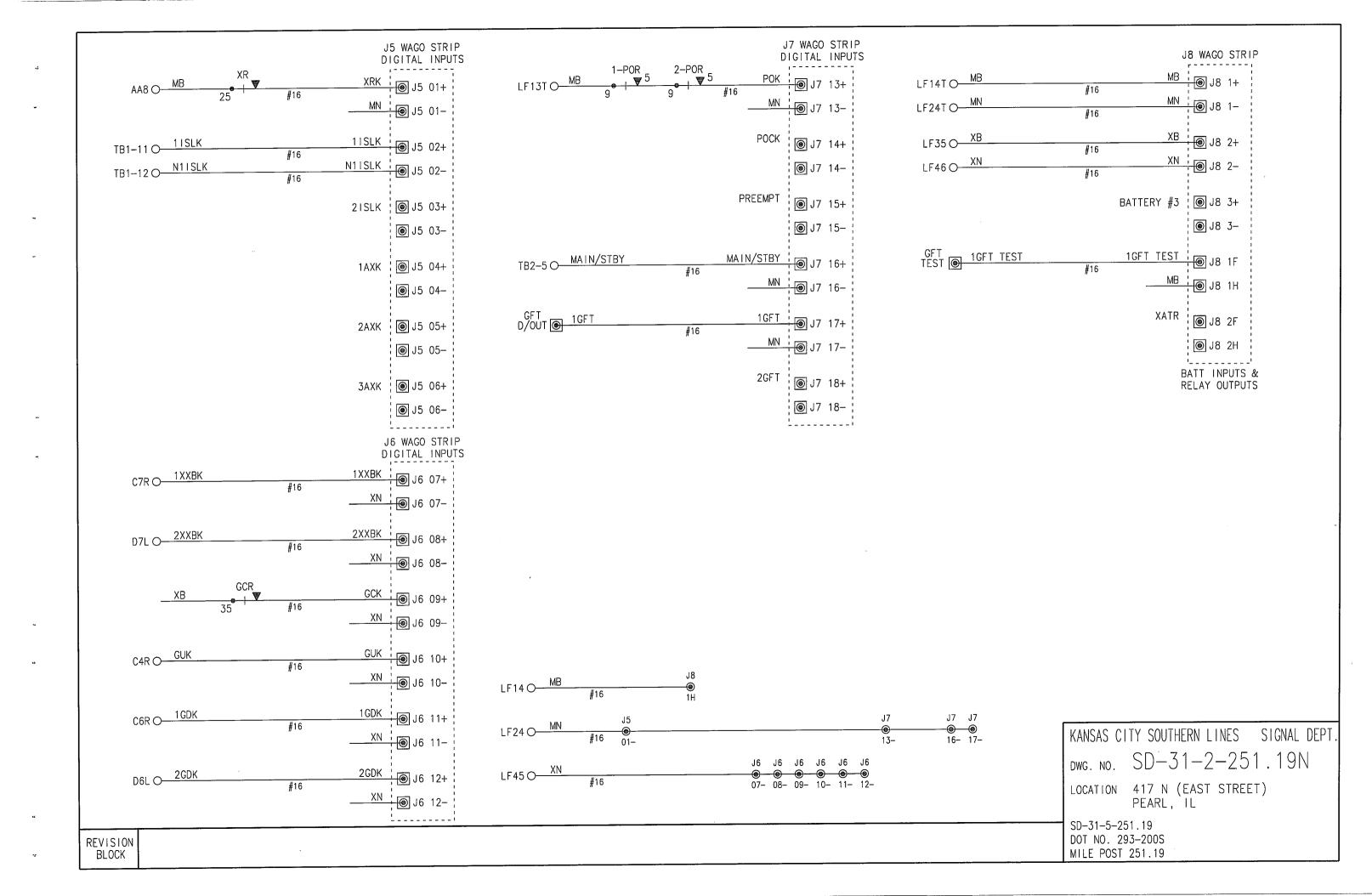
ECH WAGOs ON PG H

TO WAGs

ECH WAGOs

ON PG R

KANSAS CITY SOUTHERN LINES SIGNAL DEPT SD-31-2-251.19M LOCATION 417 N (EAST STREET) PEARL, IL SD-31-5-251.19 DOT NO. 293-200S MILE POST 251.19



SEAR II EXECUTIVE PROGRAM		SITE TYPE: CELL MODEM COLLECTOR		
MENU QUESTION ?	SITE SETUP	POSSIBLE SELECTIONS AND CONDITION FOR MENU DISPLAY		
DATE / TIME ?	XX-XX-XXXX XX:XX:XX	XX-XX-XXXX XX:XX:XX		
AUTOMATIC DST ADJUSTMENT ?	YES	SELECTION IS YES OR NO		
TIME ZONE ?	CENTRAL	SELECTION IS EASTERN, CENTRAL, ECT.		
SITE NAME ?	417 N (E ST)-PEARL, IL	LIMITED TO 23 CHARACTERS		
MILE POST ?	251.19	LIMITED TO 7 DIGITS		
DOT NÜMBER ?	293200S	LIMITED TO 7 DIGITS		
TESTER TYPE ?	CROSSING	SELECTION IS CROSSING OR WAYSIDE		
DATE FORMAT ?	MM-DD-YYYY	SELECTION IS MM-DD-YYYY OR DD-MM-YYYY		
TEMP. FORMAT ?	FAHRENHEIT	SELECTION IS FAHRENHEIT OR CELSIUS		
INIDICATE HOLD (SEC) ?	0	SELECTION IS 0 TO 99		
INDICATE REFRESH ?	60	SELECTION IS 0 TO 65535		
SITE ATCS ADDRESS ?	7.400.103.160.99.01	TYPE 7 ATCS ADDRESS		
SITE TYPE ?	NO COMMUNICATION	SELECT NO COMMUNICATION, BULLHORN/MODBUS, DIAL-UP, NODE, COLLECTOR, CDS-902X		
OFFICE ATCS ADDRESS ?	N/A	IF SITE TYPE = NODE OR COLLECTOR		
MODEM PORT ?	N/A	IF SITE TYPE = DIAL-UP SELECTION IS AUX OR COMM		
POLL ID ?	N/A	IF SITE TYPE = BULLHORN/MODBUS OR COLLECTOR, SELECTION IS 1 TO 999		
PRIMARY HOP ADDR ?	N/A	IF SITE TYPE = NODE		
BACKUP HOP ADDR 1 ?	N/A	IF SITE TYPE = NODE		
BACKUP HOP ADDR 2 ?	N/A	IF SITE TYPE = NODE		
RADIO ATCS ADDR ?	N/A	IF OFFICE COMM DEVICE = MCM RS232, WAG ECH, MCM ECH, ENTER ATCS ADDRESS		

N/A

SEAR II EXECUTIVE P	ROGRAM	SITE TYPE: CELL MODEM COLLECTOR
MENU QUESTION ?	SITE SETUP	POSSIBLE SELECTIONS AND CONDITION FOR MENU DISPLAY
MCM (RS232) PORT ?	N/A	IF FIELD COMM DEVICE = MCM (RS232) SELECTION IS AUX OR COMM
SPREAD SPEC (RS232) PORT ?	N/A	IF FIELD COMM DEVICE = SPREAD SPEC (RS232) SELECTION IS AUX OR COMM
VHF COMM. (RS232) PORT ?	N/A	IF FIELD COMM DEVICE = VHF COMM (RS232) SELECTION IS AUX OR COMM
DIRECT (RS232) PORT ?	N/A	IF OFFICE COMM DEVICE = DIRECT (RS232) SELECTION IS COMM OR AUX
DIAL MODEM (RS232) PORT ?	N/A	IF OFFICE COMM DEVICE = DIAL MODEM (RS232) SELECTION IS COMM OR AUX
S200 RADIO (RS422) PORT ?	N/A	IF OFFICE COMM DEVICE = S200 RADIO (RS422) SELECTION IS COMM OR AUX
FIELD COMM. DEVICE ?	N/A	IF SITE TYPE = NODE OR COLLECTOR, SELECT IS VHF ECH, SPREAD-SPEC, WAG, VHF RS, NONE
PHONE # ?	N/A	IF OFFICE COMM DEVICE = DIAL MODEM (RS232) ENTER 10 DIGIT PHONE NUMBER
INIT STRING ?	N/A	IF SITE TYPE = DIAL-UP, OR OFFICE COMM. DEVICE = DIAL MODEM (RS232) LEAVE BLANK
USER PORT BAUD ? (J4)	57600	SELECTION IS 9600, 19200, 38400, 57600, 300, 600, 1200, 2400, 4800
USER PORT DATA BITS ?	8	SELECTION IS 8 OR 9
USER PORT PARITY ?	NONE	SELECTION IS NONE, ODD, EVEN
USER PORT STOP BITS ?	1	SELECTION IS 1 OR 9
USER PORT FLOW CONTROL	NONE	SELECTION IS NONE, HARDWARE, RADIO
AUX PORT BAUD ? (J3)	9600	SELECTION IS 9600, 19200, 38400, 57600, 300, 600, 1200, 2400, 4800
AUX PORT DATA BITS ?	8	SELECTION IS 8 OR 9
AUX PORT PARITY ?	NONE	SELECTION IS NONE, ODD, EVEN
AUX PORT STOP BITS ?	1	SELECTION IS 1 OR 9

(SEAR II ONLY)

N/A = MEANS THIS SELECTION WILL NOT APPEAR BECAUSE OF PRIOR SELECTIONS MADE

NONE

9600

NONE

NONE

8

AUX PORT FLOW CONTROL

COMM PORT BAUD ? (J2)

COMM PORT DATA BITS ?

COMM PORT STOP BITS ?

COMM PORT FLOW CONTROL

COMM PORT PARITY ?

SEAR EXECUTIVE SOFTWARE 9V645-A01AA

KANSAS CITY SOUTHERN LINES SIGNAL DEPT DWG. NO. SD-31-2-251.19P

LOCATION 417 N (EAST STREET) PEARL, IL

SD-31-5-251.19 DOT NO. 293-200S MILE POST 251.19

SELECTION IS NONE, HARDWARE, RADIO

SELECTION IS NONE, HARDWARE, RADIO

300, 600, 1200, 2400, 4800

SELECTION IS NONE, ODD, EVEN

SELECTION IS 8 OR 9

SELECTION IS 1 OR 9

SELECTION IS 9600, 19200, 38400, 57600,

REVISION BLOCK

MODE ?

WAMS XID ?

OFFICE COMM. DEVICE ?

EXECUTIVE SETUP AS OF 6/18/09

IF SITE TYPE = COLLECTOR

IF SITE TYPE = COLLECTOR

SELECTION IS GEN/ATCS OR GENISYS

IF SITE TYPE = COLLECTOR, SELECTION IS DIRECT, MCM RS, WAG, MCM ECH, MODEM, S200 RADIO

SELECTION IS ENABLE OR DISABLE

KCS VERSION OF SEAR PROGRAM MENU ITEMS - SITE SETUP

QUESTION ?	SITE SETUP	POSSIBLE SELECTIONS AND CONDITION FOR MENU DISPLAY
XR INPUT ?	YES	SELECTION YES OR NO
ISLAND INPUTS ?	1	SELECTION 0 TO 2
BELL OUT INPUTS ?	2	SELECTION 0 TO 2
GATE CONTROL INPUT ?	YES	SELECTION YES OR NO
GATE UP INPUT ?	YES	SELECTION YES OR NO
GATE DOWN INPUTS ?	2	SELECTION O TO 2
POWER OFF INPUT ?	YES	SELECTION YES OR NO
POWER OFF CHECK INPUT ?	NO	SELECTION YES OR NO IF POWER OFF INPUT = YES
PREEMPT INPUT ?	NO	SELECTION YES OR NO
PREEMPT TIME SECS ?	N/A	SELECTION 0 TO 60 IF PREEMPT INPUT = YES
MAIN / STANDBY INPUT ?	YES	SELECTION YES OR NO
BATTERY INPUTS ?	2	SELECTION 0 TO 3
GFT INPUTS ?	1	SELECTION 0 TO 2 IF BATTERY INPUTS > 0
iLOD MODULES ?	2	SELECTION 0 TO 4
ANY LED BULBS USED ?	YES	SELECTION YES OR NO IF ILOD MODULES > 0
AUTO INSPECTIONS ?	NO	SELECTION YES OR NO
VHF COMMUNICATOR ?	NO	SELECTION YES OR NO
VHF CHANNEL ?	N/A	SELECTION 1 TO 8 IF VHF COMMUNICATOR = YES
NUMBER OF TRACKS ?	1	SELECTION 1 OR 2
CUT-OUT CIRCUITS ?	NO	SELECTION YES OR NO
TIMING DEVICE PRESENT ?	NO	SELECTION YES OR NO
HOLD CLEAR DEVICE PRESENT ?	NO	SELECTION YES OR NO

BATTERY INPUT CONFIGURATION

CHANNEL	NAME	RESOLUTION	MENU CONDITION
01	МВ	1 VDC	BATTERY INPUTS > 0
02	XB	1 VDC	BATTERY INPUTS = 2
02	1XB	1 VDC	BATTERY INPUTS = 3
03	2XB	1 VDC	BATTERY INPUTS = 3

STANDARD DIGITAL AND BATTERY INPUT NAMES MUST BE USED TO ENABLE CORRESPONDING APPLICATION ALARMS. INPUTS ARE AUTOMATICALLY DETECTED BY THE APPLICATION PROGRAM.

RELAY OUTPUT CONFIGURATION

CHANNEL	NAME	DESIGNATOR	NORMAL	ENERGIZED	DE-ENERGIZED	MENU CONDITION
01	GFT TEST	GFTTEST	OFF	ON	OFF	GFT INPUTS > 0
02	AC POWER TEST	ACTEST	OFF	ON	OFF	IF AUTO INSPECTIONS = YES

SEAR APPLICATION SOFTWARE 9V505-A01A

KANSAS CITY SOUTHERN LINES SIGNAL DEPT

DWG. NO. SD-31-2-251.19Q

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