NO.	DATE	BY	DESCRIPTION	APP. BY
1				
2				
3				
4				
5				

REVISIONS

Program Report

Location and SIN

DOT Number: 289297J
Milepost Number: 82.95
Site Name: US 24-1700N

SIN: 762010010016

MCF and Template Selection

MCF Name: GCP-T6X-01-2.mcf
MCF Revision: 012
MCFCRC: 0DFE7A0C

Template = 1D:3 Uni pairs

Program

BASIC: module configuration
Track 1 Slot = Track
Track 2/RIO 1 Slot = Track
Track 3 Slot = Not Used
Track 4 Slot = Not Used
Track 5/RIO 2 Slot = Not Used
Track 6/RIO 3 Slot = Not Used
SSCC-1 Slot = SSCC31
SSCC-2 Slot = SSCC31
SEAR Used = Yes

BASIC: MS/GCP operation
Track 1 : MS/GCP Operation = Yes
Track 2 : MS/GCP Operation = Yes

BASIC: Island operation
Track 1 : Island Used = Internal
Track 2 : Island Used = No

BASIC: preemption
Preempt Logic = No

BASIC: radio Dax links
Radio DAX link A Used = No
Radio DAX link B Used = No

BASIC: Vital Comms links
Vital Comms link 1 Used = No
Vital Comms link 2 Used = No

PREDICTORS: track 1
Track 1 : Prime Used = Yes
Track 1 : Dax A Used = No
Track 1 : Dax B Used = No
Track 1 : Dax C Used = No
Track 1 : Dax D Used = No
Track 1 : Dax E Used = No
Track 1 : Dax F Used = No
Track 1 : Dax G Used = No

PREDICTORS: track 2
Track 2 : Prime Used = Yes
Track 2 : Dax A Used = No
Track 2 : Dax B Used = No
Track 2 : Dax C Used = No
Track 2 : Dax D Used = No
Track 2 : Dax E Used = No
Track 2 : Dax F Used = No
Track 2 : Dax G Used = No

GCP: track 1
Track 1 : GCP Freq Category = Standard
Track 1 : GCP Frequency = 285 Hz
Track 1 : Approach Distance = 3100 ft
Track 1 : Uni/Bi/Sim-Bidirni = Unidirni
Track 1 : GCP Transmit Level = High
Track 1 : Island Connection = Isi1
Track 1 : Island Distance = 134 ft
Track 1 : Computed Distance = 9999 ft
Track 1 : Linearization Steps = 100

GCP: track 1 prime
Track 1 : Prime Warning Time = 26 sec
Track 1 : Prime Offset Distance = 0 ft
Track 1 : Switch MS EZ Level = 0
Track 1 : Prime MS/GCP Mode = Pred
Track 1 : Prime Pickup Delay = 30 sec
Track 1 : Prime UAX = Not Used

GCP: track 1 low EZ detect
Track 1 : Low EZ Detection Used = No
Track 1 : Positive Start = Off
Track 1 : Enhanced Detectn Used = Yes
Track 1 : Station Stop Timer = 10 sec
Track 1 : False Activate Level = Normal
Track 1 : Poor Shunting Level = 2

GCP: track 1 MS Control
Track 1 : MS/GCP Ctrl IP Used = No
Track 1 : MS Sensitivity Level = 0
Track 1 : Compensation Level = 1300
Track 1 : Low EX Adjustment = 39
Track 1 : Bidirn Dax Passthru = No

GCP: track 2
Track 2 : GCP Freq Category = Standard
Track 2 : GCP Frequency = 285 Hz
Track 2 : Approach Distance = 3100 ft
Track 2 : Uni/Bi/Sim-Bidirni = Unidirni
Track 2 : GCP Transmit Level = High
Track 2 : Island Connection = Isi1
Track 2 : Island Distance = 0 ft
Track 2 : Computed Distance = 9999 ft
Track 2 : Linearization Steps = 100

GCP: track 2 prime
Track 2 : Prime Warning Time = 26 sec
Track 2 : Prime Offset Distance = 0 ft
Track 2 : Switch MS EZ Level = 0
Track 2 : Prime MS/GCP Mode = Pred
Track 2 : Prime Pickup Delay = 30 sec
Track 2 : Prime UAX = Not Used

GCP: track 2 low EZ detect
Track 2 : Low EZ Detection Used = No
Track 2 : Positive Start = Off
Track 2 : Enhanced Detectn Used = Yes
Track 2 : Station Stop Timer = 10 sec
Track 2 : False Activate Level = Normal
Track 2 : Poor Shunting Level = 2

GCP: track 2 MS Control
Track 2 : MS/GCP Ctrl IP Used = No
Track 2 : MS Sensitivity Level = 0
Track 2 : Compensation Level = 1300
Track 2 : Low EX Adjustment = 39
Track 2 : Bidirn Dax Passthru = No

ISLAND: track 1
Track 1 : Isi Frequency = 4.9 kHz
Track 1 : Pickup Delay (2s +) = 0 sec

AND: track Anding
AND 1 XR Used = Yes
AND 2 Used = No
AND 3 Used = No
AND 4 Used = No
AND 5 Used = No
AND 6 Used = No
AND 7 Used = No
AND 8 Used = No

AND: AND 1 XR
AND 1 XR Track 1 = Prime
AND 1 XR Track 2 = Prime
AND 1 Enable Used = Yes
And 1 Enable Pickup = 0 sec
AND 1 Enable Drop = 0 sec
AND 1 Wrap Used = No

ADVANCED: MS restart
MS/GCP Restart Used = No

ADVANCED: out of service
OOS Control = Display
OOS Timeout = Yes
OOS Timeout = 1 hrs

ADVANCED: track wrap circuits
Wrap LOS Timer = 5 sec
Track 1 Wrap Used = No
Track 2 Wrap Used = No

ADVANCED: trk 1 overrides
Track 1 : All Predictors Override Used = No

ADVANCED: trk 2 overrides
Track 2 : All Predictors Override Used = No

ADVANCED: OR logic
OR 1 Used = No
OR 2 Used = No
OR 3 Used = No
OR 4 Used = No

ADVANCED: Internal I/O 1
Pass Thrus = No
Int. 1 Sets = Not Used
Int. 1 Set by = Not Used
Int. 2 Sets = Not Used
Int. 2 Set by = Not Used
Int. 3 Sets = Not Used
Int. 3 Set by = Not Used
Int. 4 Sets = Not Used
Int. 4 Set by = Not Used

ADVANCED: Internal I/O 2
Int. 5 Sets = Not Used
Int. 5 Set by = Not Used
Int. 6 Sets = Not Used
Int. 6 Set by = Not Used
Int. 7 Sets = Not Used
Int. 7 Set by = Not Used
Int. 8 Sets = Not Used
Int. 8 Set by = Not Used

ADVANCED: site options
Daylight Savings = On
Units = Standard
Ext Maint Call Input = No
Emergency Activate IP = No
EZ/EX Logging = Change
EZ/EX Point Change = 3

SSCC
Gates Used = Yes
SSCCi+2 GPs Coupled = Yes
Min Activation = 21 sec
Rmt Activation Cancel = 3 min
Bell On Gate Rising = No
Mute Bell On Gate Down = No
SSCCIV Controller Used = No

SSCC: 1
SSCC-1 Activation = AND 1 XR
SSCC-1 Gate Delay = 3 sec
SSCC-1 Number of GPs = 1
SSCC-1 Number of GDs = 1
SSCC 1 : Flash Rate = 60
SSCC 1 : Low Battery Detection = No
SSCC 1 : Flash Sync = master
SSCC 1 : Invert Gate Output = No
SSCC 1 : Lamp Neutral Test = Off
Aux-1 Xng Ctrl Used = No

SSCC: 2
SSCC-2 Activation = AND 1 XR
SSCC-2 Gate Delay = 3 sec
SSCC-2 Number of GPs = 0
SSCC-2 Number of GDs = 1
SSCC 2 : Flash Rate = 60
SSCC 2 : Low Battery Detection = No
SSCC 2 : Flash Sync = slave
SSCC 2 : Invert Gate Output = No
SSCC 2 : Lamp Neutral Test = Off
Aux-2 Xng Ctrl Used = No

OUTPUT: assignment page 1
OUT 1.1 = Not Used
OUT 1.2 = Not Used
OUT 2.1 = Not Used
OUT 2.2 = Not Used

INPUT: assignment page 1
IN 1.1 = Not Used
IN 1.2 = Not Used
IN 2.1 = Not Used
IN 2.2 = Not Used

IO: assignment SSCC
OUT GC 1 = Gate Output 1
OUT GC 2 = Gate Output 2
IN 7.1 = AND 1 XR Enable
IN 7.2 = Not Used
IN 7.3 = Not Used
IN 7.4 = GD 1.1
IN 7.5 = GP 1.1
IN 8.1 = Not Used
IN 8.2 = Not Used
IN 8.3 = Not Used
IN 8.4 = GD 2.1
IN 8.5 = Not Used

SEAR
SEAR Subnode = 99
DI 1 = General1
DI 2 = Gnd Flt Tester 1
Rly 1 = Ground Fault Test
Rly 2 = Not Used

SEAR: Inputs
SP 2.1 = Not Used
SP 3.1 = Not Used
SP 4.1 = Not Used
SP 5.1 = Not Used
SP 6.1 = Not Used

SEAR: slot 1-4 Inputs
IN 1.1 = Not Used
IN 1.2 = Not Used
IN 2.1 = Not Used
IN 2.2 = Not Used
IN 3.1 = Not Used
IN 3.2 = Not Used
IN 4.1 = Not Used
IN 4.2 = Not Used

SEAR: Inputs slot 5
IN 5.1 = Not Used
IN 5.2 = Not Used

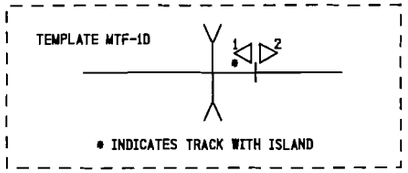
SEAR: Inputs slot 6
IN 6.1 = Not Used
IN 6.2 = Not Used

SEAR: slot 7-8 Inputs
IN 7.2 = Not Used
IN 7.3 = Not Used
IN 8.1 = General 2
IN 8.2 = Not Used
IN 8.3 = Not Used
IN 8.5 = Not Used

SITE: programming
Radio Subnode = 1
Password Access = Off
Low Battery Enabled = Off

Configuration Package File

Filename: 289297J.pac



NOTES:

1) DISTANCE(S) TO BE VERIFIED AT INSTALLATION.
INDICATE SELECTED PROGRAMMED VALUE IF DIFFERENT THAN SHOWN.
REFER TO 4000 GCP INSTRUCTION/INSTALLATION MANUAL
FOR PROGRAMMING PARAMETERS.

2) EACH CONSTANT WARNING DEVICE SYSTEM TO BE PROGRAMMED TO
CONVERT TO A MOTION SENSOR 300 FEET FROM EDGE OF ROAD
TRAVELLED WAY.
SHUNT TRACK 300 FEET FROM EDGE OF ROAD TRAVELLED WAY
AND NOTE "EZ" VALUE.
PROGRAM EACH SYSTEM WITH THE INDICATED "EZ" VALUE +2.

3) VERIFY SET TIMER VALUE TO MATCH ACTUAL TRAIN MOVEMENT
WITHIN THE CROSSING APPROACH CIRCUITS.

PROPOSED
DES. No. _____
RED-IN YELLOW-OUT
AS INSTALLED
DATE _____
BY _____

PROPOSED			REVISIONS	D	C	COMPLETED			C
D	M	Y				D	M	Y	

DIVISION MIDWEST
SUB. GILMAN
SD. 1017 C
MP. 82.80 TO 83.00

SIGNALS AND COMMUNICATIONS
EDMONTON, ALBERTA
01 MAY 2007

DES. RLC
CH. PWW

GCP 4000 NON REDUNDANT
PROGRAM INFORMATION
US 24 / 1700N
GILMAN, IL

M 08280C13

SAFETRAN SYSTEM CORP.

SAFETRAN SYSTEMS CORPORATION

DES. : RLC	DATE: 08/01/07	JOB NO. : PICA1014	
CKD. : PWW	ISSUE DATE: N/A	EST. NO. : N/A	
DRN. : RLC	PLAN NO. : N/A	SHEET N/A OF N/A	
P TIME: 18:41	P DATE: 07-AUG-2007	CAD ID. : 08280C13	

NO.	DATE	BY	DESCRIPTION	APP. BY
1				
2				
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4				
5				

REVISIONS

TO CONFIGURE SEARII & SEARIII PRESS SITE SETUP KEY. USE ARROW KEYS TO MAKE SELECTION, PRESS ENTER AFTER SELECTION HAS BEEN MADE.

STAGE 1

PROGRAM MENU QUESTIONS	PROGRAM	OPTIONS/RANGE
DATE/TIME?	CURRENT DATE/TIME	CURRENT DATE/TIME
AUTOMATIC DST ADJUSTMENT?	YES	YES, NO
TIME ZONE?	CENTRAL	EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA, HAWAII, ATLANTIC, SASKATCHEWAN, NEW FOUNLAND
SITE NAME?	US 24 / 1700N	STREET NAME
MILE POST?	82.95	MILEAGE
DOT/CROSSING IS #?	289 297J	
TESTER TYPE?	CROSSING	CROSSING, WAYSIDE
DATE FORMAT?	dd-mm-yyyy	mm-dd-yyyy, dd-mm-yyyy
TEMPERATURE FORMAT?	CELSIUS	FAHRENHEIT, CELSIUS
SITE TYPE?		NO COM, BULLHORN, DIALUP, NODE, COLLECTOR
SITE ATCS ADDRESS?	7.620.100.100.99.01	7.RRR.LLL.GGG.99.01
OFFICE ATCS ADDRESS?		2.RRR.NN.DDDD
(FOR NODE USE) PRIMARY HOP ADDR?		7.RRR.LLL.GGG.00.01
(FOR NODE USE) BACKUP HOP ADDR1?		7.RRR.LLL.GGG.00.01
(FOR NODE USE) BACKUP HOP ADDR2?		7.RRR.LLL.GGG.00.01
(FOR COLLECTOR USE) POLL ID?		1-99
(FOR COLLECTOR USE) MODE?		GEN/ATCS, GENISYS
(FOR COLLECTOR USE) WAMS/XID?		ENABLED, DISABLE
(FOR COLLECTOR USE) OFFICE COMM. DEVICE?		DIRECT (RS232) MCM (RS232) MCM (ECHELON) SREAD SPEC (ECHELON) DIAL MODEM (RS232) S200 RADIO (RS422)
(FOR COLLECTOR USE) OFFICE PHONE NUMBER?		PHONE NUMBER OF WAMS
(FOR COLLECTOR USE) INIT STRING?		OPTIONAL HAYES MODEM INITIALIZATION STRING
FIELD COMM. DEVICE?		VHF COMM. (ECHELON) VHF COMM. (RS232) SPREAD SPEC (ECHELON) SPREAD SPEC (RS232)
USER PORT?	57600, 8, N, 1, N	BAUD, DATA BITS, PARITY, STOP BITS, FLOW CONTROL
AUX PORT?	9600, 8, N, 1, N	BAUD, DATA BITS, PARITY, STOP BITS, FLOW CONTROL

YOU WILL NOW SEE A MESSAGE "PLEASE WAIT COMPILING STAGE 1"
CONTINUE TO NEXT PROGRAM MENU QUESTIONS.

STAGE 2

QUESTION	PROGRAM	SELECTION 1 (MINIMUM)	SELECTION 2 (MAXIMUM)	CONDITION FOR MENU DISPLAY
RESET NAMES / MODULES ?	NO	YES	NO	ALWAYS
RAILROAD NUMBER ?	360 (IC)	1	999	ALWAYS
CROSSING CONFIGURATION	NORMAL	NORMAL	SPLIT GATE (NOTE 2)	ALWAYS
ENTRANCE GATES ?	0 (NOTE 3)	0	8	ALWAYS
GATE POSTION FAIL TIME (SECONDS) ?	N/A	10	60	GATES > 0
BATTERY BANKS ?	2	1	3	ALWAYS
BATT MON USED ?	NO	NO	YES	ALWAYS
INTERNAL CROSSING CONTROLLERS ?	2	0	2	ALWAYS
EXTERNAL CROSSING CONTROLLERS ?	0	0	2	CROSSING CONTROLLER = YES
VHF COMMUNICATOR ?	YES	YES	NO	ALWAYS
DTMF ACTIVATION?	NO	NO	YES	RAILROAD = 360 (IC)
ACTIVATION CODE ?	N/A	1	999	VHF COMMUNICATOR = YES
ACTIVATION TIMEOUT ?	N/A	1	600	VHF COMMUNICATOR = YES
ILOD MODULES ?	2	0	4	ALWAYS
ANY LED BULBS USED ?	YES	NO	YES	ILOD MODULES > 0
AUTO INSPECTION ?	NO	YES	NO	ALWAYS
BELL SENSORS ?	0	0	8	ALWAYS
BELL SENSORS TSS1 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS2 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS3 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS4 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS5 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS6 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS7 ?	N/A	NO	YES	BELL SENSORS > 0
BELL SENSORS TSS8 ?	N/A	NO	YES	BELL SENSORS > 0
BELL ON ?	N/A	GATES LOWERING	GATES MOVING	BELL SENSORS > 0
GFT'S ?	YES	YES	NO	ALWAYS
BATTERIES ON GFT1 ?	2	1	2	GFT'S = YES
GATE TIP SENSORS ?	N/A	YES	NO	GATES > 0
RTU ?	NO	NO	YES	ALWAYS
VHF VOICE CHANNEL ?	1 (NOTE 1)	1	8	VHF COMMUNICATOR = YES
VHF DATA CHANNEL ?	1 (NOTE 1)	1	8	VHF COMMUNICATOR = YES
USE CELL MODEM NON-CRITICAL FEATURE ?	NO	NO	YES	ALWAYS
FULL APPROACH MOVE ALARMS ?	ACTIVATE	ACTIVATE	DO NOT ACTIVATE	ALWAYS

YOU WILL NOW SEE A MESSAGE "PLEASE WAIT COMPILING STAGE 2"
CONTINUE TO NEXT PROGRAM MENU QUESTIONS.

STAGE 3

PROGRAM MENU QUESTIONS	PROGRAM
EDIT DIGITAL INPUTS	NO
EDIT BATTERIES	NO
EDIT RELAYS	NO
EDIT TEST LEDS	NO
EDIT ILOD SENSORS	NO
EDIT VHF SETTINGS	NO
GCP4K ATCS SUBNODE?	16

SAVE CONFIGURATION

NOTES:

1) INDICATE SELECTION IN SPACE PROVIDED.
2) ADDITIONAL OPTIONS: DUAL CROSSING, EXTERNAL ENTRANCE GATE CONTROLLERS.
3) SELECT "0" IF NO GATE TIP AND BELL SENSORS ARE USED.
THUS GATE AND BELL SENSOR RELATED STEPS WILL NOT BE AVAILABLE, OVERWISE ERRORS IN SEARS RECORDING WILL OCCUR.

PROPOSED
DES. No. _____
RED-IN YELLOW-OUT
AS INSTALLED
DATE _____
BY _____

SEARIII EXECUTIVE SOFTWARE: 9V725-A01T SEARIII APPLICATION SOFTWARE: 9V864-A01H

PROPOSED D	PROPOSED M	PROPOSED Y	REVISIONS	D	C	COMPLETED D	COMPLETED M	COMPLETED Y	C

DIVISION MIDWEST
SUB. GILMAN
SD. 1017 C
MP. 82.80 TO 83.00

SIGNALS AND COMMUNICATIONS
EDMONTON, ALBERTA
01 MAY 2007

DES. RLC
CH. PWW

SEARIII
SETUP AND PROGRAM
US 24 / 1700N
GILMAN, IL

M 08280C14

SAFETRAN SYSTEM CORP.

SAFETRAN SYSTEMS CORPORATION

DES. : RLC DATE: 08/01/07 JOB NO. : PICA10114
CKD. : PWW ISSUE DATE: N/A EST. NO. :N/A
DRN. : RLC PLAN NO. :N/A SHEET N/A OF N/A
P TIME:15:41 P DATE: 07-AUG-2007 CAD ID. : 08280C14

NO.	DATE	BY	DESCRIPTION	APP. BY
1				
2				
3				
4				
5				

REVISIONS

CALIBRATION HISTORY

INITIAL SET UP BY: _____ DATE: _____

DC VOLTAGE READINGS AFTER CALIBRATION				CALIBRATION HISTORY										LINEARIZATION HISTORY (NOTE 1)							
				EZ/EX VALUES (TRACK UNOCCUPIED)				HARD WIRE SHUNT AT TERMINATION SHUNT						HARD WIRE SHUNT AT 50 PERCENT POINT OF SHUNT							
				EZ		EX		EZ		EX		50 PERCENT OF EZ VALUE		NO LINEARIZATION				LINEARIZATION COMPLETE			
														EZ		EX		STEP±		EZ	
				NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY
T1	Z1=	NORTH	TRACK 1																		
T1	Z2=	SOUTH	TRACK 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T2	Z1=	NORTH	TRACK 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T2	Z2=	SOUTH	TRACK 2																		

CALIBRATION HISTORY

INITIAL SET UP BY: _____ DATE: _____

DC VOLTAGE READINGS AFTER CALIBRATION				CALIBRATION HISTORY										LINEARIZATION HISTORY (NOTE 1)							
				EZ/EX VALUES (TRACK UNOCCUPIED)				HARD WIRE SHUNT AT TERMINATION SHUNT						HARD WIRE SHUNT AT 50 PERCENT POINT OF SHUNT							
				EZ		EX		EZ		EX		50 PERCENT OF EZ VALUE		NO LINEARIZATION				LINEARIZATION COMPLETE			
														EZ		EX		STEP±		EZ	
				NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY
T1	Z1=	NORTH	TRACK 1																		
T1	Z2=	SOUTH	TRACK 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T2	Z1=	NORTH	TRACK 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T2	Z2=	SOUTH	TRACK 2																		

CALIBRATION HISTORY

INITIAL SET UP BY: _____ DATE: _____

DC VOLTAGE READINGS AFTER CALIBRATION				CALIBRATION HISTORY										LINEARIZATION HISTORY (NOTE 1)							
				EZ/EX VALUES (TRACK UNOCCUPIED)				HARD WIRE SHUNT AT TERMINATION SHUNT						HARD WIRE SHUNT AT 50 PERCENT POINT OF SHUNT							
				EZ		EX		EZ		EX		50 PERCENT OF EZ VALUE		NO LINEARIZATION				LINEARIZATION COMPLETE			
														EZ		EX		STEP±		EZ	
				NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY	NRML	STBY
T1	Z1=	NORTH	TRACK 1																		
T1	Z2=	SOUTH	TRACK 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T2	Z1=	NORTH	TRACK 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T2	Z2=	SOUTH	TRACK 2																		

NOTE:

1) **SET UP APPROACH LENGTH AND LINEARIZATION CALIBRATION**
VERIFY THAT "ENHANCED DETECTION" MODE IS PROGRAMMED "OFF" BEFORE ATTEMPTING LINEARIZATION PROCEDURES.

PROPOSED
DES. No. _____
RED-IN YELLOW-OUT
AS INSTALLED
DATE _____
BY _____

6' X 6' BUNGALOW

PROPOSED D	M	Y	REVISIONS	D	C	COMPLETED D	M	Y	C

DIVISION MIDWEST
SUB. GILMAN
SD. 1017 C
MP. 82.80 TO 83.00

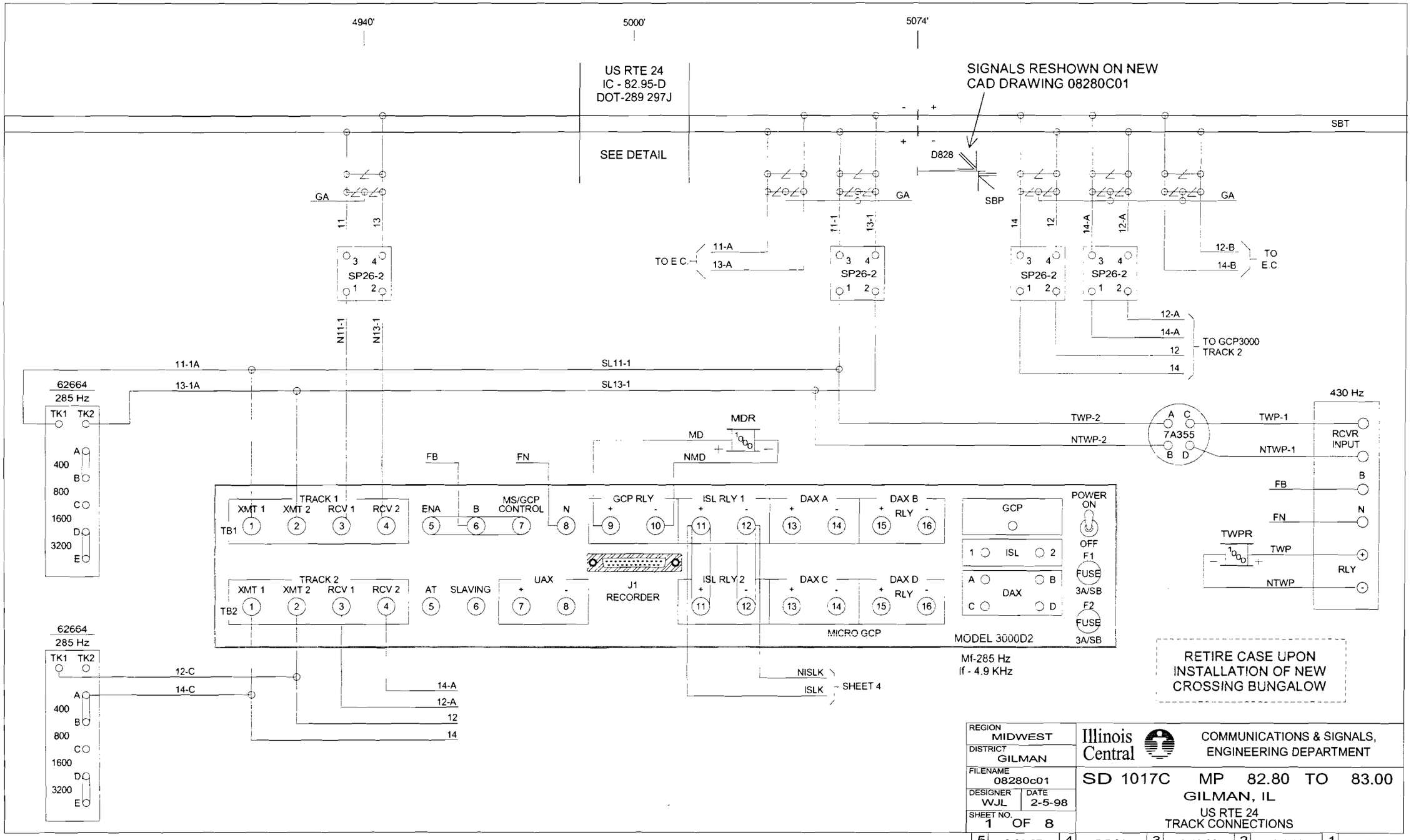
SIGNALS AND COMMUNICATIONS
EDMONTON, ALBERTA
01 MAY 2007
DES. RLC
CH. PNW

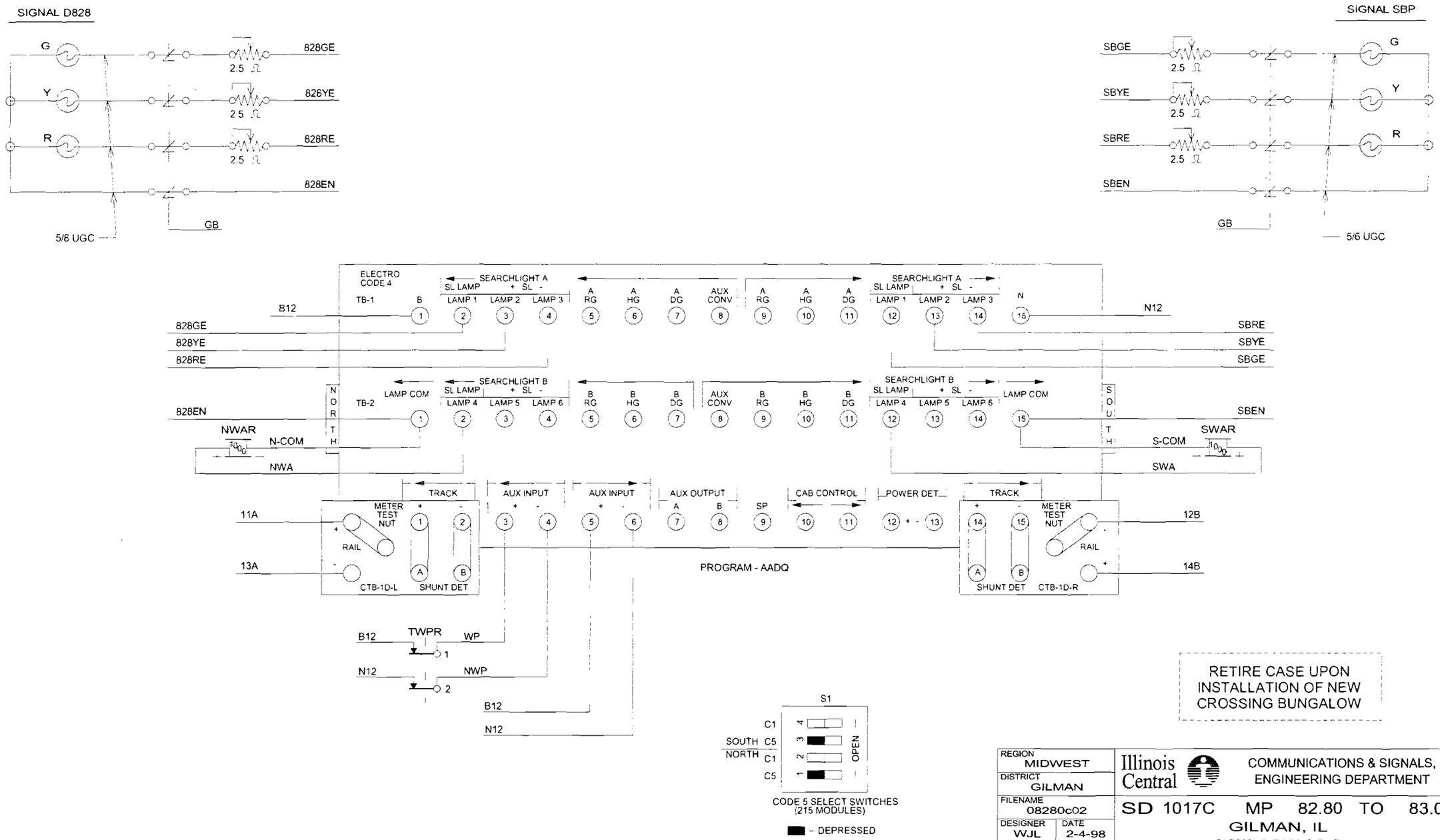
GCP 4000
CALIBRATION HISTORY
US 24 / 1700N
GILMAN, IL

M 08280C15

SAFETRAN SYSTEM CORP.

SAFETRAN SYSTEMS CORPORATION
DES. = RLC DATE: 06/01/07 JOB NO. = PICA0114
CKD. = PNW ISSUE DATE: N/A EST. NO. =N/A
DWN. = RLC PLAN NO. =N/A SHEET N/A OF N/A
P TIME=15:41 P DATE= 07-AUG-2007 CAD ID. = 08280C15


4940'
5000'
5074'
US RTE 24
IC - 82.95-D
DOT-289 297J
SEE DETAIL
SIGNALS RESHOWN ON NEW
CAD DRAWING 08280C01
SBT
D828
SBP
GA
11
13
11-1
13-1
14
12
14-A
12-A
SP26-2
TO E.C.
11-A
13-A
12-B
14-B
TO E.C.
12-A
14-A
12
14
TO GCP3000
TRACK 2
N11-1
N13-1
11-1A
13-1A
SL11-1
SL13-1
62664
285 Hz
TK1
TK2
400
800
1600
3200
MDR
MD
NMD
FB
FN
TWP-2
NTWP-2
7A355
TWP-1
NTWP-1
430 Hz
RCVR
INPUT
B
N
TWPR
TWP
NTWP
RLY
TRACK 1
XMT 1
XMT 2
RCV 1
RCV 2
TB1
ENA
B
MS/GCP
CONTROL
GCP RLY
ISL RLY 1
DAX A
DAX B
RLY
GCP
ISL
DAX
POWER
ON
OFF
F1
FUSE
3A/SB
F2
FUSE
3A/SB
TRACK 2
TB2
AT
SLAVING
UAX
J1
RECORDER
ISL RLY 2
DAX C
DAX D
MICRO GCP
MODEL 3000D2
Mf-285 Hz
If - 4.9 KHz
NISLK
ISLK
SHEET 4
RETIRE CASE UPON
INSTALLATION OF NEW
CROSSING BUNGALOW
REGION
MIDWEST
DISTRICT
GILMAN
FILENAME
08280c01
DESIGNER
WJL
DATE
2-5-98
SHEET NO.
1 OF 8
Illinois Central
COMMUNICATIONS & SIGNALS,
ENGINEERING DEPARTMENT
SD 1017C MP 82.80 TO 83.00
GILMAN, IL
US RTE 24
TRACK CONNECTIONS
5 3-30-07
4 5-5-04
3 3-16-99
2 2-4-98
1 REVISIONS



RETIRE CASE UPON INSTALLATION OF NEW CROSSING BUNGALOW

REGION MIDWEST	Illinois Central — COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT
DISTRICT GILMAN	
FILENAME 08280c02	SD 1017C MP 82.80 TO 83.00
DESIGNER WJL / DATE 2-4-98	GILMAN, IL
SHEET NO. 2 OF 8	SIGNALS D828 & SBP EC4 UNIT

5	4	3-30-07	3	5-5-04	2	2-4-98	1	REVISIONS

Equipment: 3000 ☐ 3000D2 ■ 3008 ☐ 3008D2 ☐ 3000ND ☐ 3000ND2 ☐

3000 GCP APPLICATION HISTORY CARD

Unit/Serial No: 4872 Crossing No: IC-82.95 - D

Crossing Name: U.S. RTE. 24 City: GILMAN State: IL.

Date Installed: FEBRUARY 23, 1994 Weather:

Island Frequency: T1: 4.9 kHz T2: kHz

PROGRAMMING HISTORY

	Initial Programmed Value Date: 2-23-94	Program Change Date:	Program Change Date:
■ press PROGRAM key			
NUMBER OF TRACKS (Number of transceiver modules, 1 or 2)	1 ☐ 2 ■	1 ☐ 2 ☐	1 ☐ 2 ☐
FREQUENCY (MS/GCP) GCP	285 Hz	Hz	Hz
UNIDIRECTIONAL/BIDIRECTIONAL T1:	UNI ☐ BI ■	UNI ☐ BI ☐	UNI ☐ BI ☐
T2:	UNI ☐ BI ■	UNI ☐ BI ☐	UNI ☐ BI ☐
XMIT LEVEL T1:	HI ■ MED ☐	HI ☐ MED ☐	HI ☐ MED ☐
T2:	HI ■ MED ☐	HI ☐ MED ☐	HI ☐ MED ☐
PREDICTOR/MOTION SENSOR T1:	PRED ■ MS ☐	PRED ☐ MS ☐	PRED ☐ MS ☐
T2:	PRED ■ MS ☐	PRED ☐ MS ☐	PRED ☐ MS ☐
WARNING TIME SELECTED T1:	25 sec.	sec.	sec.
T2:	25 sec.	sec.	sec.
APPROACH DISTANCE SELECTED T1:	2360' ft.	ft.	ft.
T2:	2360' ft.	ft.	ft.
APPROACH DISTANCE COMPUTED T1:	ft.	ft.	ft.
T2:	ft.	ft.	ft.
UAX PICKUP DELAY (UAX1) (0 = OFF)	0 sec.	sec.	sec.
ENA/UAX2 DELAY (0 = ENA)	0 sec.	sec.	sec.
ISLAND DISTANCE (between island track wire connections) T1:	N/A ft.	ft.	ft.
T2:	N/A ft.	ft.	ft.
NUMBER OF DAX'S	0 ■ 1 ☐ 2 ☐ 3 ☐ 4 ☐	0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐	0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐
DAX A TRACK ASSIGNMENT	T1 ☐ T2 ☐	T1 ☐ T2 ☐	T1 ☐ T2 ☐
DAX A DISTANCE (0=PREEMPT)	N/A ft.	ft.	ft.
DAX A WARNING TIME	N/A sec.	sec.	sec.
DAX B TRACK ASSIGNMENT	T1 ☐ T2 ☐	T1 ☐ T2 ☐	T1 ☐ T2 ☐
DAX B DISTANCE (0=PREEMPT)	N/A ft.	ft.	ft.
DAX B WARNING TIME	N/A sec.	sec.	sec.
DAX C TRACK ASSIGNMENT	T1 ☐ T2 ☐	T1 ☐ T2 ☐	T1 ☐ T2 ☐
DAX C DISTANCE (0=PREEMPT)	N/A ft.	ft.	ft.
DAX C WARNING TIME	N/A sec.	sec.	sec.
DAX D TRACK ASSIGNMENT	T1 ☐ T2 ☐	T1 ☐ T2 ☐	T1 ☐ T2 ☐
DAX D DISTANCE (0=PREEMPT)	N/A ft.	ft.	ft.
DAX D WARNING TIME	N/A sec.	sec.	sec.

PROGRAMMING HISTORY (continued)

	Initial Programmed Value Date: 2-23-94	Program Change Date:	Program Change Date:
SLAVING MASTER/SLAVE	MASTER ■ SLAVE ☐	MASTER ☐ SLAVE ☐	MASTER ☐ SLAVE ☐
PASSWORD ENABLED	DISABLED ☐ ENABLED ■	DISABLED ☐ ENABLED ☐	DISABLED ☐ ENABLED ☐
RECORDER INSTALLED	NOT INSTALLED ☐ INSTALLED ■	NOT INSTALLED ☐ INSTALLED ☐	NOT INSTALLED ☐ INSTALLED ☐
RS-232-C BAUD RATE	9600 bps	bps	bps
RS-232-C DATA BITS	7 ☐ 8 ■	7 ☐ 8 ☐	7 ☐ 8 ☐
RS-232-C STOP BITS	1 ■ 2 ☐	1 ☐ 2 ☐	1 ☐ 2 ☐
RS-232-C PARITY	NONE ■ MARK ☐ ODD ☐ SPACE ☐ EVEN ☐	NONE ☐ MARK ☐ ODD ☐ SPACE ☐ EVEN ☐	NONE ☐ MARK ☐ ODD ☐ SPACE ☐ EVEN ☐
(NOTE: SET DATE & TIME AS REQUIRED) DATE (e.g., 16 NOV 1987)			
TIME (e.g., 11:25:43 AM)			
DAYLIGHT SAVINGS	ON ■ OFF ☐	ON ☐ OFF ☐	

EXPANDED PROGRAMMING HISTORY (Function Mode, Optional)

	Initial Programmed Value Date: 2-23-94	Program Change Date:	Program Change Date:
■ press FUNCTION key			
SWITCH TO MS (enter EZ value) T1:	30 EZ.	EZ.	sec.
T2:	30 EZ.	EZ.	sec.
TRANSFER DELAY MS TO GCP (O=OFF) T1:	0 ft.	ft.	ft.
T2:	ft.	ft.	ft.
PRIME PREDICTION OFFSET (O=OFF) T1:	0 ft.	ft.	ft.
T2:	ft.	ft.	ft.
PICKUP DELAY PRIME	15 sec.	sec.	sec.
PICKUP DELAY DAX A	N/A sec.	sec.	sec.
PICKUP DELAY DAX B	N/A sec.	sec.	sec.
PICKUP DELAY DAX C	N/A sec.	sec.	sec.
PICKUP DELAY DAX D	N/A sec.	sec.	sec.
COMPENSATION VALUE T1:	1100 sec.	sec.	sec.
COMPENSATION VALUE T2:	1100 sec.	sec.	sec.

CALIBRATION HISTORY RE-CALIBRATED

		FULL TRACK (NO HARDWIRE SHUNT)	FULL TRACK (HARDWIRE SHUNT AT TERMINATION)	50 PERCENT TRACK (HARDWIRE SHUNT) NO LINEARIZATION	LINEARIZATION STEP +/-	LINEARIZATION EZ
		/	/	/		
		/	/	/		

RETIRE CASE UPON INSTALLATION OF NEW CROSSING BUNGALOW

REGION	MIDWEST
DISTRICT	GILMAN
FILENAME	08280c03
DESIGNER	WJL
DATE	2-5-98
SHEET NO.	3 OF 8

Illinois Central

COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT

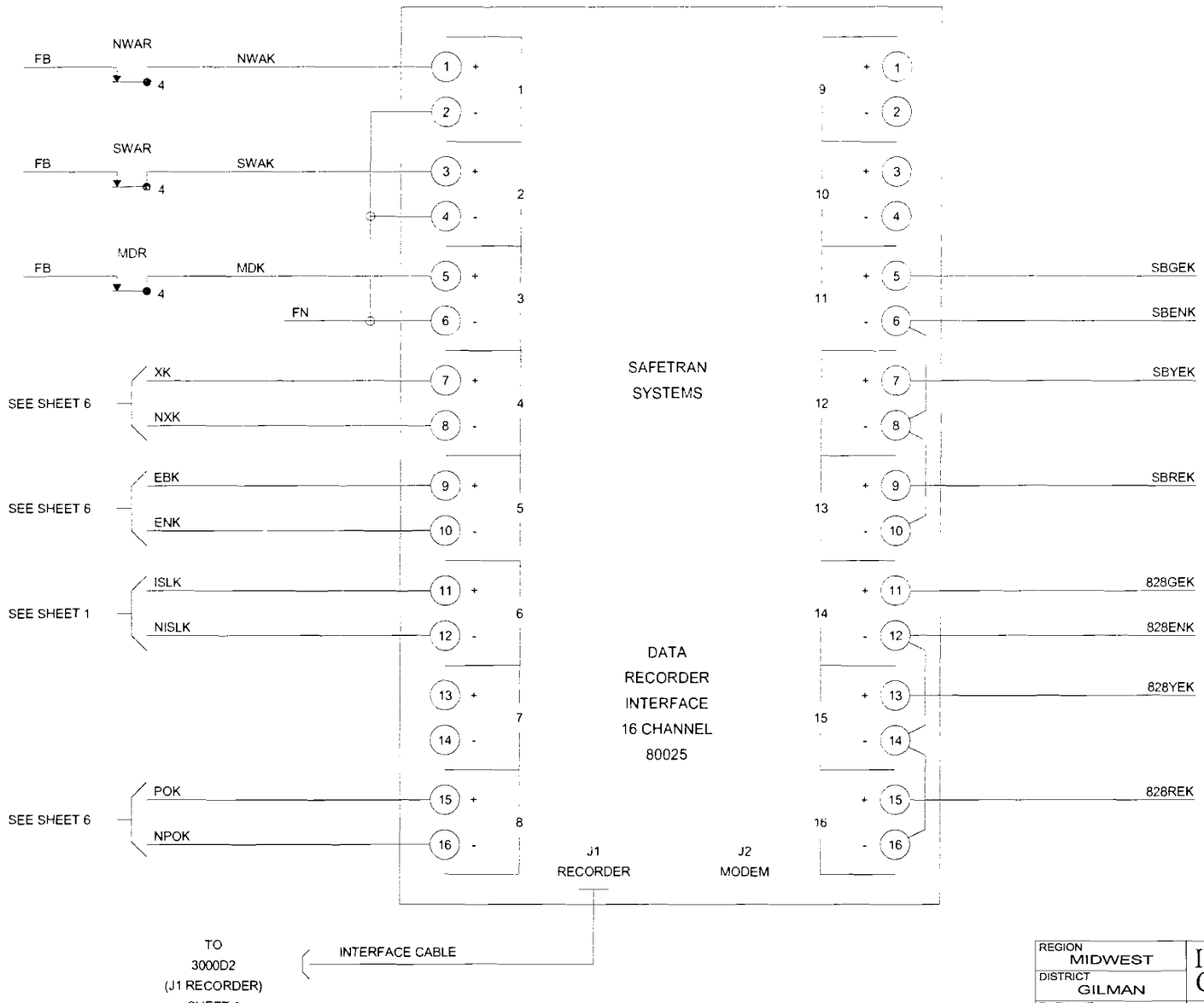
SD 1017C MP 82.80 TO 83.00

GILMAN, IL

US RTE 24

GCP APPLICATION INFO

5		4	3-30-07	3	5-5-04	2	2-4-98	1	REVISIONS



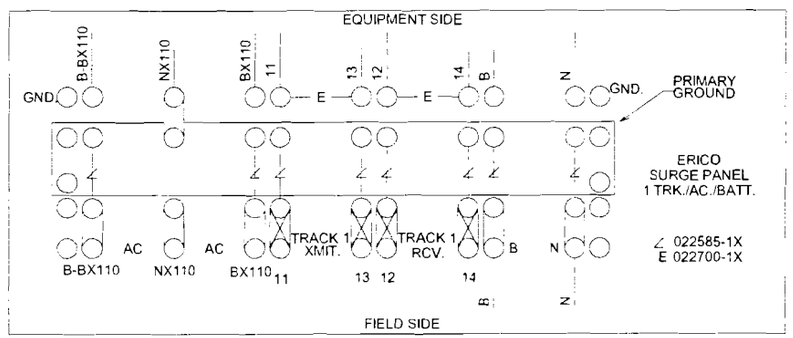
TO
3000D2
(J1 RECORDER)
SHEET 1

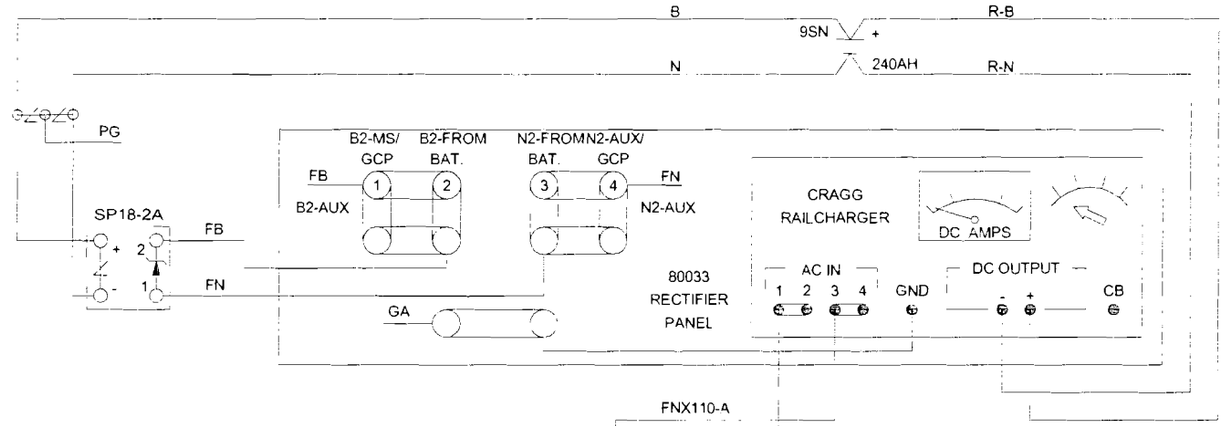
INTERFACE CABLE

RETIRE CASE UPON
INSTALLATION OF NEW
CROSSING BUNGALOW

REGION MIDWEST	Illinois Central — COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT
DISTRICT GILMAN	
FILENAME 08280c04	SD 1017C MP 82.80 TO 83.00
DESIGNER WJL / DATE 2-5-98	GILMAN, IL
SHEET NO. 4 OF 8	US RTE 24 DATA RECORDER

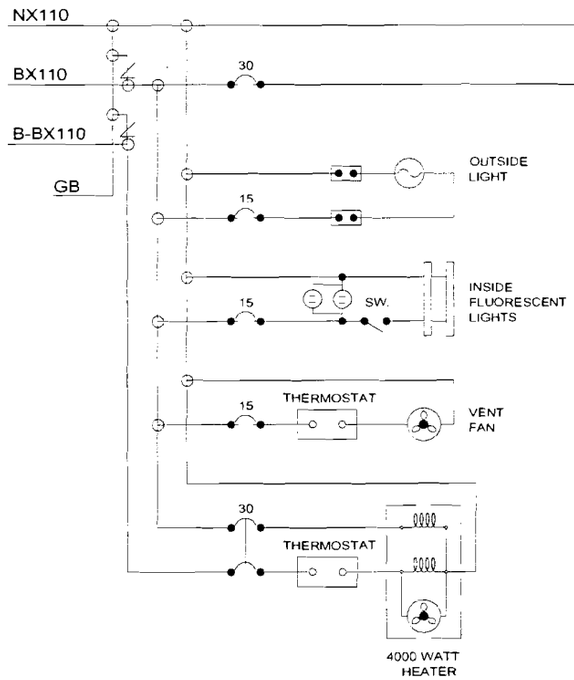
5	4	3	3-30-07	2	2-4-98	1	REVISIONS

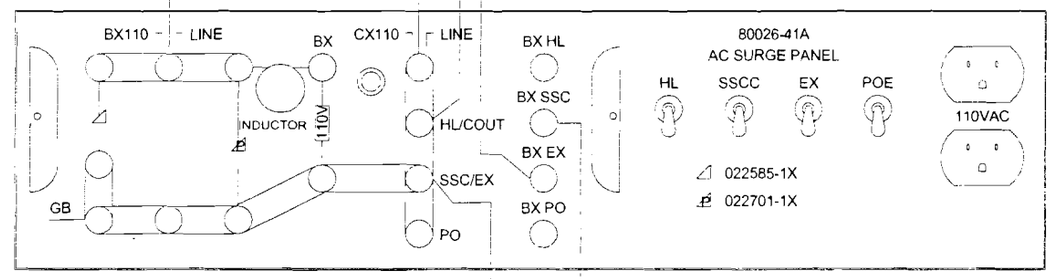




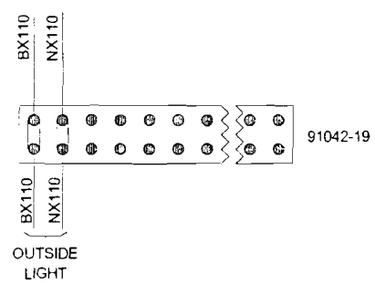
FNX110-A

FBX110-A

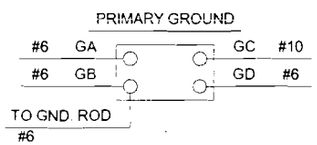




FBX110
FNX110
SHEET 6

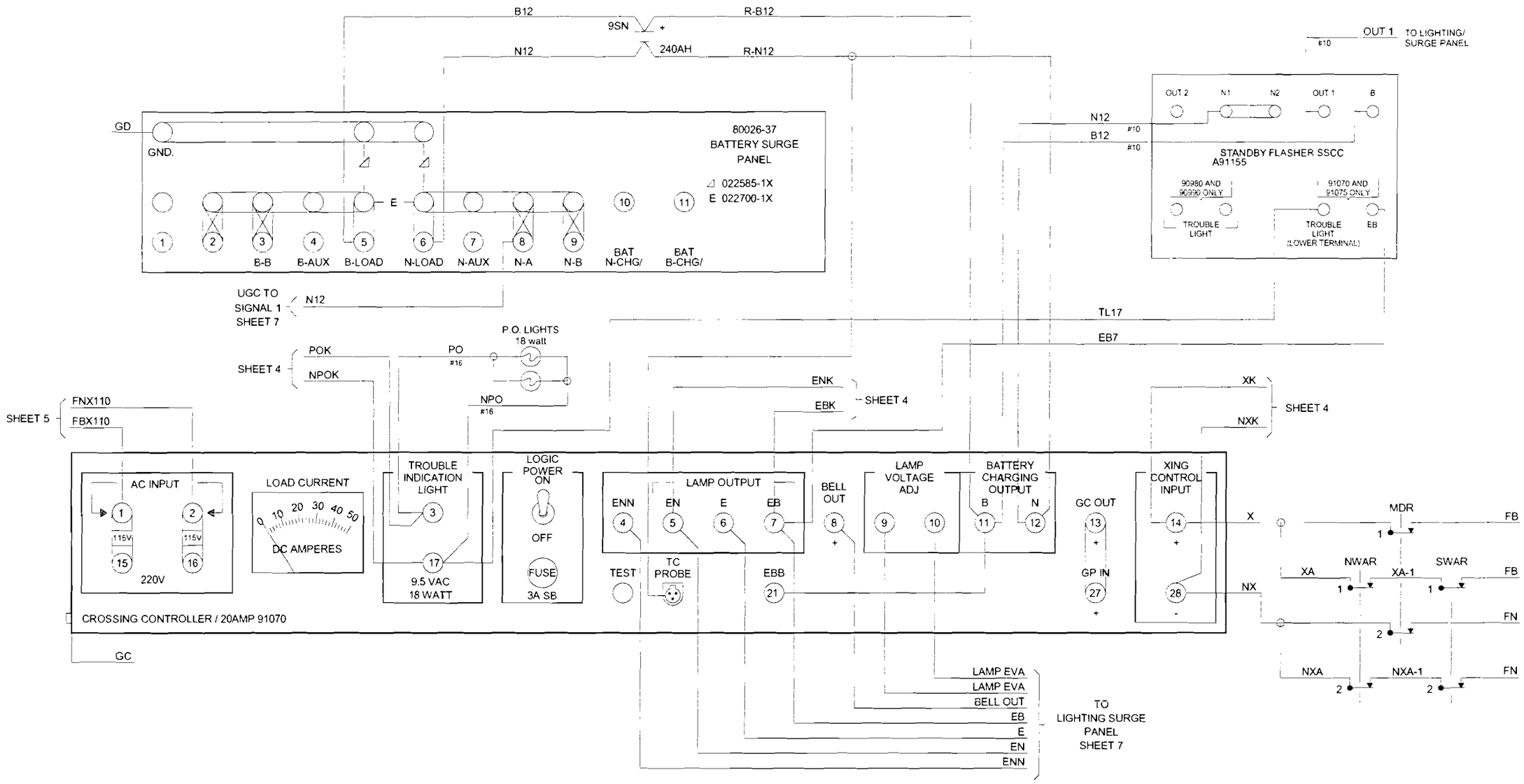


RETIRE CASE UPON INSTALLATION OF NEW CROSSING BUNGALOW



REGION MIDWEST	Illinois Central	COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT
DISTRICT GILMAN		
FILENAME 08280c05	SD 1017C MP 82.80 TO 83.00	
DESIGNER WJL / DATE 2-5-98	GILMAN, IL	
SHEET NO. 5 OF 8	US RTE 24 POWER	

5	4	3-30-07	3	5-5-04	2	2-4-98	1	REVISIONS



RETIRE CASE UPON INSTALLATION OF NEW CROSSING BUNGALOW

REGION	MIDWEST
DISTRICT	GILMAN
FILENAME	08280c06
DESIGNER	WJL
DATE	2-6-98
SHEET NO.	6 OF 8

Illinois Central

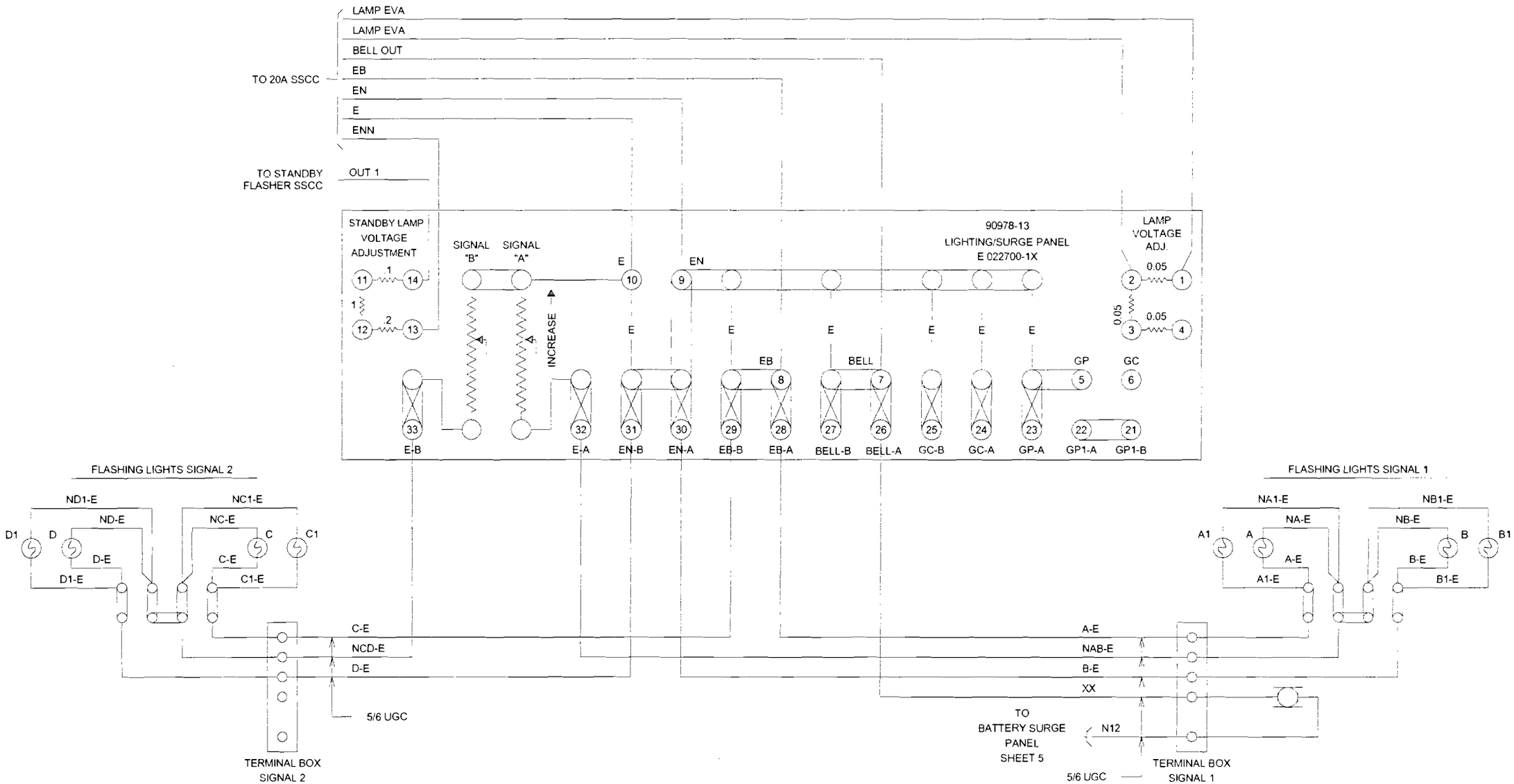
COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT

SD 1017C MP 82.80 TO 83.00

GILMAN, IL

US RTE 24
CROSSING CONTROLLER

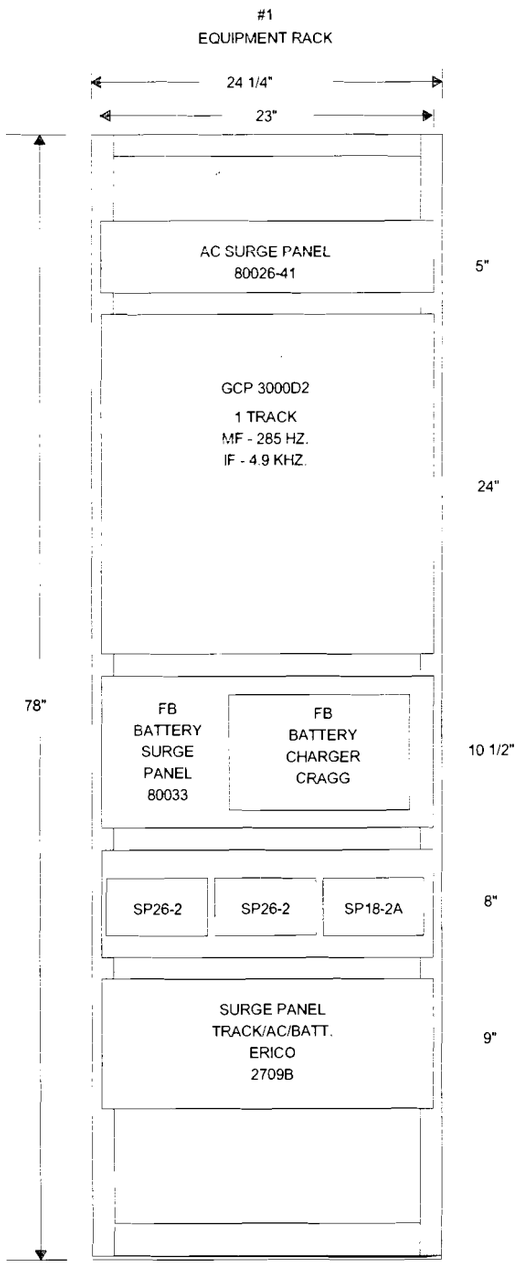
5		4	3-30-07	3	5-5-04	2	2-4-98	1	REVISIONS

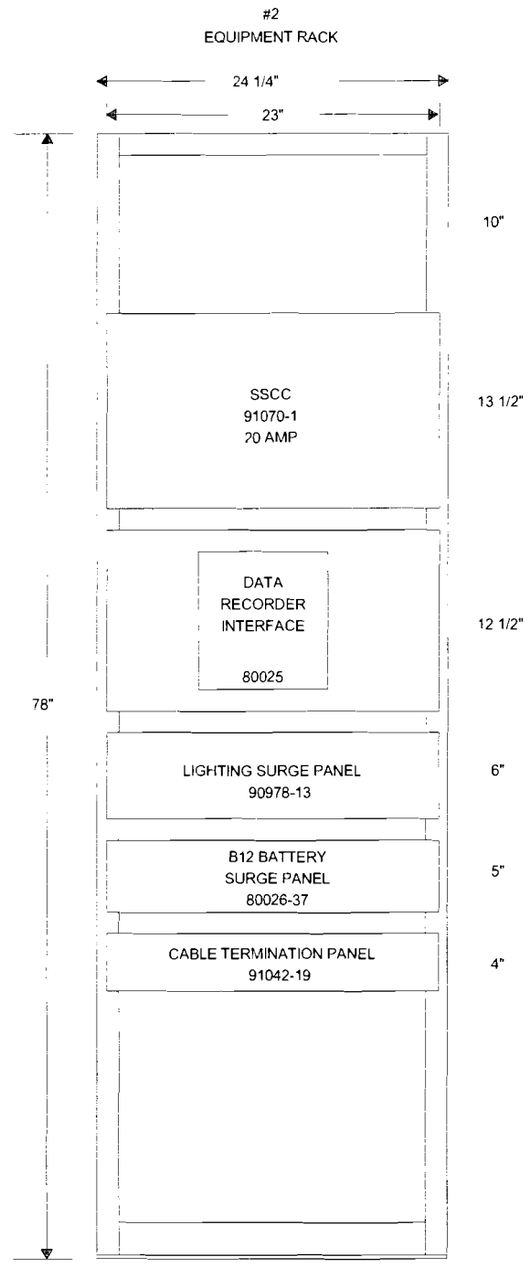


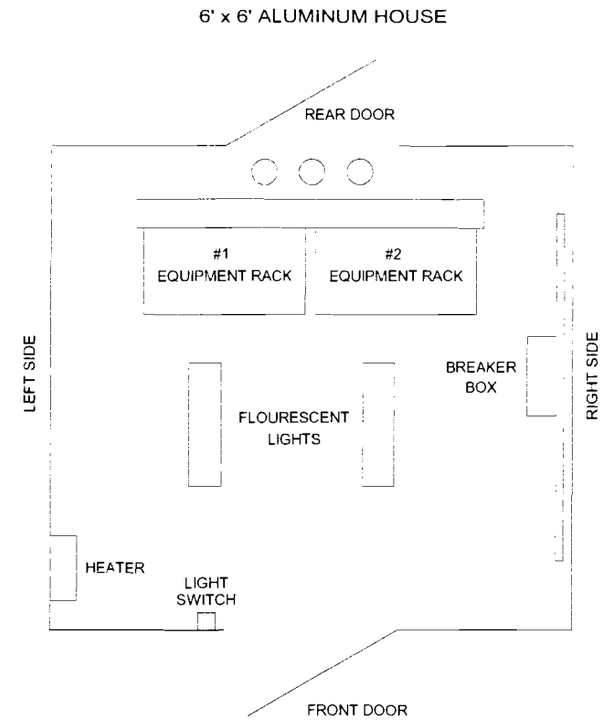
RETIRE CASE UPON INSTALLATION OF NEW CROSSING BUNGALOW

REGION MIDWEST	Illinois Central — COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT
DISTRICT GILMAN	
FILENAME 08280c07	SD 1017C MP 82.80 TO 83.00
DESIGNER WJL / DATE 2-4-98	GILMAN, IL
SHEET NO. 7 OF 8	US RTE 24
	LIGHTING / SURGE PANEL - AFLS

REVISIONS							
5		4	3-30-07	3	5-5-04	2	2-4-98	1



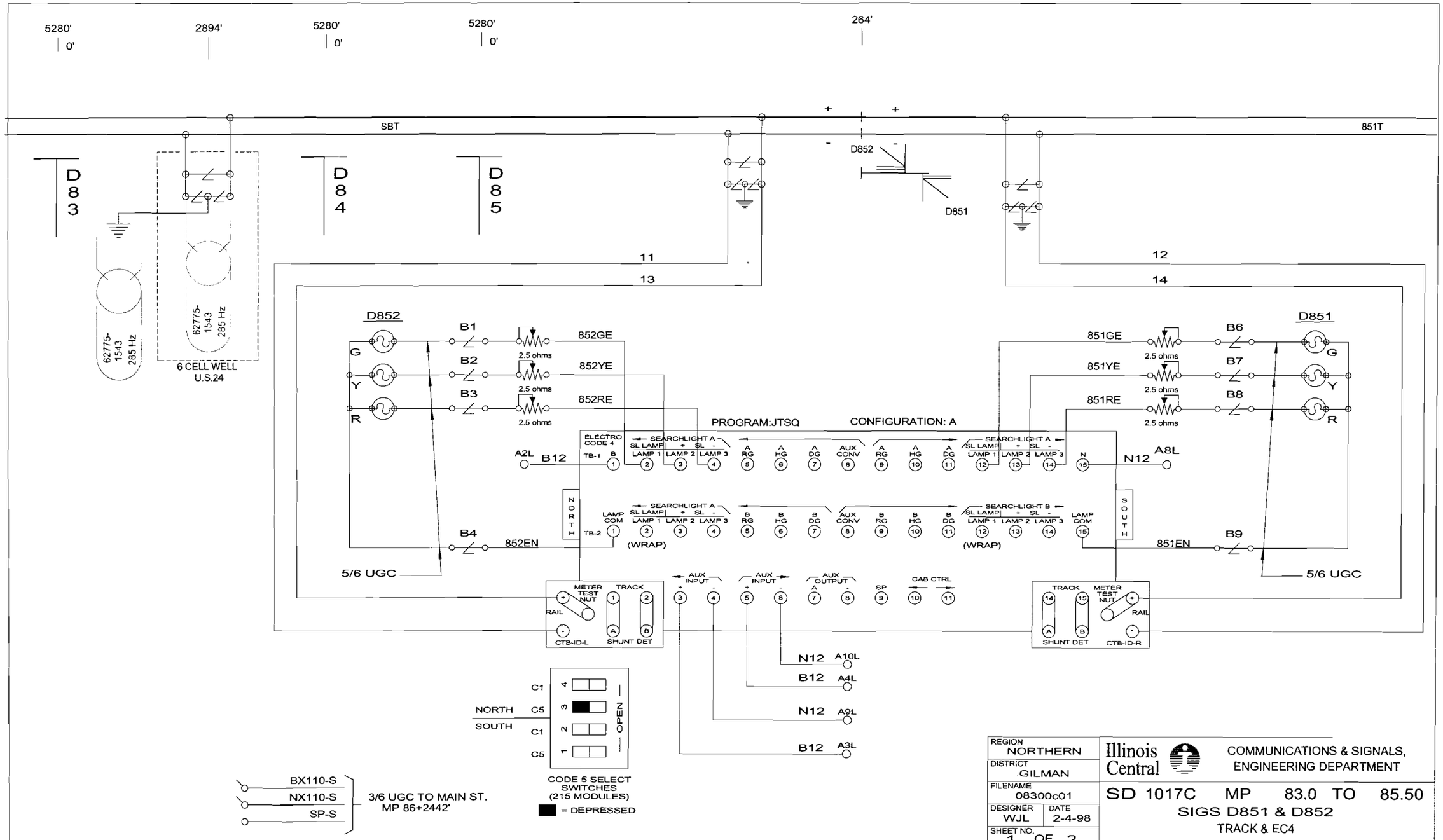




RETIRE CASE UPON
INSTALLATION OF NEW
CROSSING BUNGALOW

REGION MIDWEST	Illinois Central	COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT
DISTRICT GILMAN		
FILENAME 08280c08	SD 1017C MP 82.80 TO 83.00	
DESIGNER WJL / DATE 2-4-98	GILMAN, IL	
SHEET NO. 8 OF 8	US RTE 24 HOUSE / RACK LAYOUTS	

5	4	3-30-07	3	5-5-04	2	2-4-98	1	REVISIONS


5280'
0'
2894'
5280'
0'
5280'
0'
264'
SBT
851T
D83
D84
D85
D852
D851
62775-1543 285 Hz
62775-1543 285 Hz
6 CELL WELL U.S.24
11
13
12
14
D852
B1
B2
B3
852GE
852YE
852RE
2.5 ohms
G
Y
R
PROGRAM:JTSQ
CONFIGURATION: A
ELECTRO CODE 4
SEARCHLIGHT A
SL LAMP
LAMP 1
LAMP 2
LAMP 3
AUX CONV
SEARCHLIGHT B
A2L
B12
A8L
N12
NORTH
SOUTH
LAMP COM
TB-1
TB-2
(WRAP)
B4
852EN
851EN
B9
5/6 UGC
METER TEST NUT
TRACK
RAIL
CTB-ID-L
CTB-ID-R
SHUNT DET
AUX INPUT
AUX OUTPUT
SP
CAB CTRL
N12 A10L
B12 A4L
N12 A9L
B12 A3L
NORTH
SOUTH
C1
C5
OPEN
CODE 5 SELECT SWITCHES (215 MODULES)
= DEPRESSED
BX110-S
NX110-S
SP-S
3/6 UGC TO MAIN ST. MP 86+2442'
REGION NORTHERN
DISTRICT GILMAN
FILENAME 08300c01
DESIGNER WJL
DATE 2-4-98
SHEET NO. 1 OF 2
Illinois Central
COMMUNICATIONS & SIGNALS, ENGINEERING DEPARTMENT
SD 1017C MP 83.0 TO 85.50
SIGS D851 & D852
TRACK & EC4
3-30-07
2-4-98
REVISIONS