

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

Petition for permission to make a major change in crossing protection, or to install new protection under 92 Illinois Administrative Code 1535.400 (d).

Date: July 2, 2015

To the Illinois Commerce Commission:

The petitioner Norfolk Southern Railway Company shows

- (1) That it is a railroad company operating a line of railroad in the State of Illinois.
- (2) That petitioner proposes and hereby makes application for authority to make a major change in crossing protection, or to install new protection, under 92 Illinois Administrative Code 1535.400 (d) adopted by this Commission.
- (3) That the location of the crossing, the nature of protection now established and proposed to be established, and other pertinent facts in connection therewith, are set forth in the statement attached to and forming part of this petition.
- (4) That petitioner's reasons and purpose, with reference to its said proposal are

Installation of Grade Crossing Warning Devices requested by Illinois Commerce Commission

at: Scully Rd. in Dawson, Illinois, DOT: 479291T, MP: DH-401.59.

File No.: CX1111203

Project No.: 04.1041

- (5) That the facts set forth in this petition and in the statement and plans or plats attached thereto, are, all of them, true and correct to the best of petitioner's knowledge and belief.

WHEREFORE, the petitioner prays that the Commission will, if deemed desirable by the Commission, set the aforesaid matter for hearing, and that the Commission enter an order or adopt a resolution consenting to and granting authority for the making of the said proposed changes in or additions to crossing protection.

Norfolk Southern Railway Company

By


S.J. Klinger, Administrator
Grade Crossing Program
(404) 529-1234

Thomas W. Ambler

(Attorney for Petitioner)

Norfolk Southern Corporation
Three Commercial Place
Norfolk, VA 23510-2191

(Attorney's Address)

Statement, attached to and part of an application for permission to make a major change in crossing protection or to install new protection, under 92 Illinois Administrative Code 1535.400(d).

1. Name of Railroad Company Norfolk Southern Railway Company
2. Crossing Number 479291T
3. Village or City Dawson
4. Name of Street or Highway Scully Rd.
5. Public Agency Maintaining Highway Township
6. Protection now established: (Give full description. Indicate the hours of any manual protection.)
Passive Crossing
7. Protection desired: (Give details)
Install grade crossing warning devices to include LED flashing lights with gates and bell controlled by constant warning time detection equipment.
8. Number of main tracks One Other tracks None
9. Number of passenger movements:
6 a.m. to 6 p.m. None 6 p.m. to 6 a.m. None
10. Number of freight train movements:
6 a.m. to 6 p.m. Seven 6 p.m. to 6 a.m. Five
11. Approximate number of switch movements:
6 a.m. to 6 p.m. Two 6 p.m. to 6 a.m. None
12. Maximum speed of trains at crossing on each track in each direction:
Track 1 N/E Bound 60 mph S/W Bound 60 mph
Track 2 N/E Bound N/A mph S/W Bound N/A mph
Track 3 N/E Bound N/A mph S/W Bound N/A mph
13. Passenger platforms served by tracks within the limits of track circuits, if any None

14. Where automatic signals or gates are proposed, approximate number of train or engine movements daily which would cause false indications or operation:

None

15. Nature and approximate amount of street or highway traffic over crossing:

50 AADT

16. In addition to the information listed hereinbefore in Form 3, attach a track plan or plat of the proposed crossing. This plan should show:

- (a) Width and surface of highway.
- (b) Highway intersections (including private driveways to be so indicated) and location of established highway signs or signals within 100 feet of crossing.
- (c) Location of tracks, switches and other railroad facilities such as block signals, etc. within limits of track circuits, present and/or proposed.
- (d) Where automatic protection is proposed, show proposed location of signals (sidelights, cantilevers, etc., if any).
- (e) Show the length of each operation track section within the control limits of the crossing protection and its function.

ADDITIONAL INFORMATION

Drawings attached for question no. 16

VERIFICATION

I, **S. J. Klinger**, first being duly sworn upon oath depose and say that I am
Administrator, Grade Crossing Program, of **Norfolk Southern Railway Company**, a
Virginia corporation; that I have read the above and foregoing petition by me subscribed and know the
contents thereof; that said contents are true in substance and in fact, except as to those matters stated upon
information and belief, and as to those, I believe same to be true.



Administrator, Grade Crossing Program

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INDEX SHEET

DESIGNED BY:	KDF 04-21-15	
DRAWN BY:	SII 04-21-15	
CHECKED BY:	EWP 04-28-15	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. M.P.: DH-401.59
IN SERVICE:	- -	DAWSON, IL. FLGS AT SCULLY RD.
		SPRINGFIELD DISTRICT
		FILE No. R- SHEET 1 of 1
		CADD or DWG. No. SFDH40159.NX1

REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

Program Report

Location and SIN

DOT Number: 479291T
Milepost Number: DH-401.59
Site Name: SCULLY RD

SIN: 755053509016

MCF and Template Selection

MCF Name: GCP-T6X-02-1.mcf
MCF Revision: 021
MCF CRC: 6076E435

Template = 1A:6 Trk BI

Check Numbers

Office Check No. (DT 4,6,0): 245F2D6B
Office Check Number: 245F2D6B
Config. Check Number: 059BD2C6
(Based on MCF Revision 021)

Program

BASIC: module configuration

Track 1 Slot = Track
Track 2/RIO 1 Slot = Not Used
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

BASIC: island operation

Track 1: Island Used = Internal

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

GCP: track 1

Track 1: GCP Freq Category = Standard
Track 1: GCP Frequency = 211 Hz
Track 1: Approach Distance = 3087 ft
Track 1: Uni/Bi/Sim-Bidirnl = Bidirnl
Track 1: GCP Transmit Level = High
Track 1: Island Connection = Isl
Track 1: Island Distance = 124 ft
Track 1: Computed Distance = 9999 ft
Track 1: Linearization Steps = 100

GCP: track 1 enhanced det
Track 1: Inbound PS Sensitivity = Off
Track 1: Speed Limiting Used = Yes
Track 1: Outbound False Act Lvl = Normal
Track 1: Outbound PS Timer = 20 sec
Track 1: Trailing Switch Logic = On
Track 1: Post Joint Detn Time = 15 sec
Track 1: Adv Appr Predn = No
Track 1: Cancel Pickup Delay = This Isl

GCP: track 1 prime
Track 1: Prime Warning Time = 30 sec
Track 1: Prime Offset Distance = 0 ft
Track 1: Switch MS EZ Level = 10
Track 1: Prime MS/GCP Mode = Pred
Track 1: Prime Pickup Delay = 15 sec
Track 1: Prime UAX = Not Used

GCP: track 1 pos start
Track 1: Positive Start = Off
Track 1: Sudden Shnt Det Used = No
Track 1: Low EZ Detection Used = No

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: Warn Time-Ballast Comp = High
Track 1: Low EX Adjustment = 39
Track 1: Bidrn Dax Passthru = No
Track 1: False Act on Train Stop = No
Track 1: EX Limiting Used = Yes
Track 1: EZ Correction Used = Yes

ISLAND: track 1
Track 1: Isl Frequency = 11.5 kHz
Track 1: Pickup Delay (2s +) = 0 sec
Track 1: Isl Enable IP Used = No

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 Enable Used = Yes
AND 1 Enable Pickup = 5 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 IPs
OOS Timeout = Yes
OOS Timeout = 1 hrs

ADVANCED: out of service 2
TI OOS Control = OOS Input 1

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

ADVANCED: trk 1 overrides
Track 1: 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: internal I/O 3

Int.9 Sets = Not Used
Int.9 Set by = Not Used
Int.10 Sets = Not Used
Int.10 Set by = Not Used
Int.11 Sets = Not Used
Int.11 Set by = Not Used
Int.12 Sets = Not Used
Int.12 Set by = Not Used

ADVANCED: internal I/O 4

Int.13 Sets = Not Used
Int.13 Set by = Not Used
Int.14 Sets = Not Used
Int.14 Set by = Not Used
Int.15 Sets = Not Used
Int.15 Set by = Not Used
Int.16 Sets = Not Used
Int.16 Set by = Not Used

ADVANCED: site options

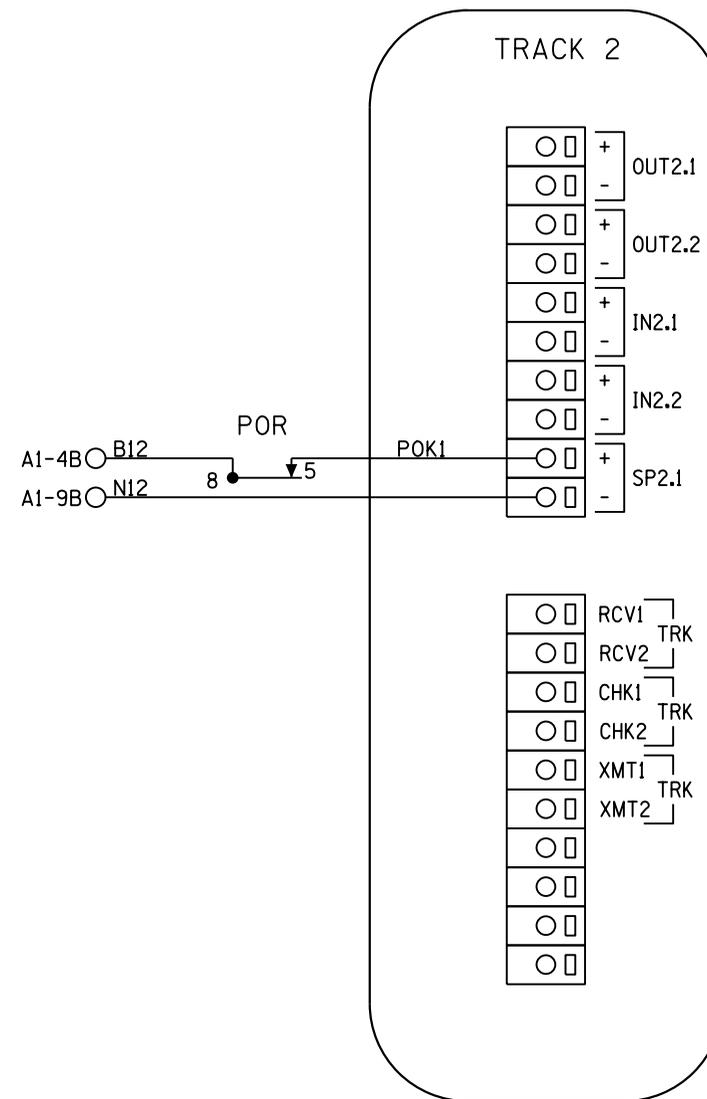
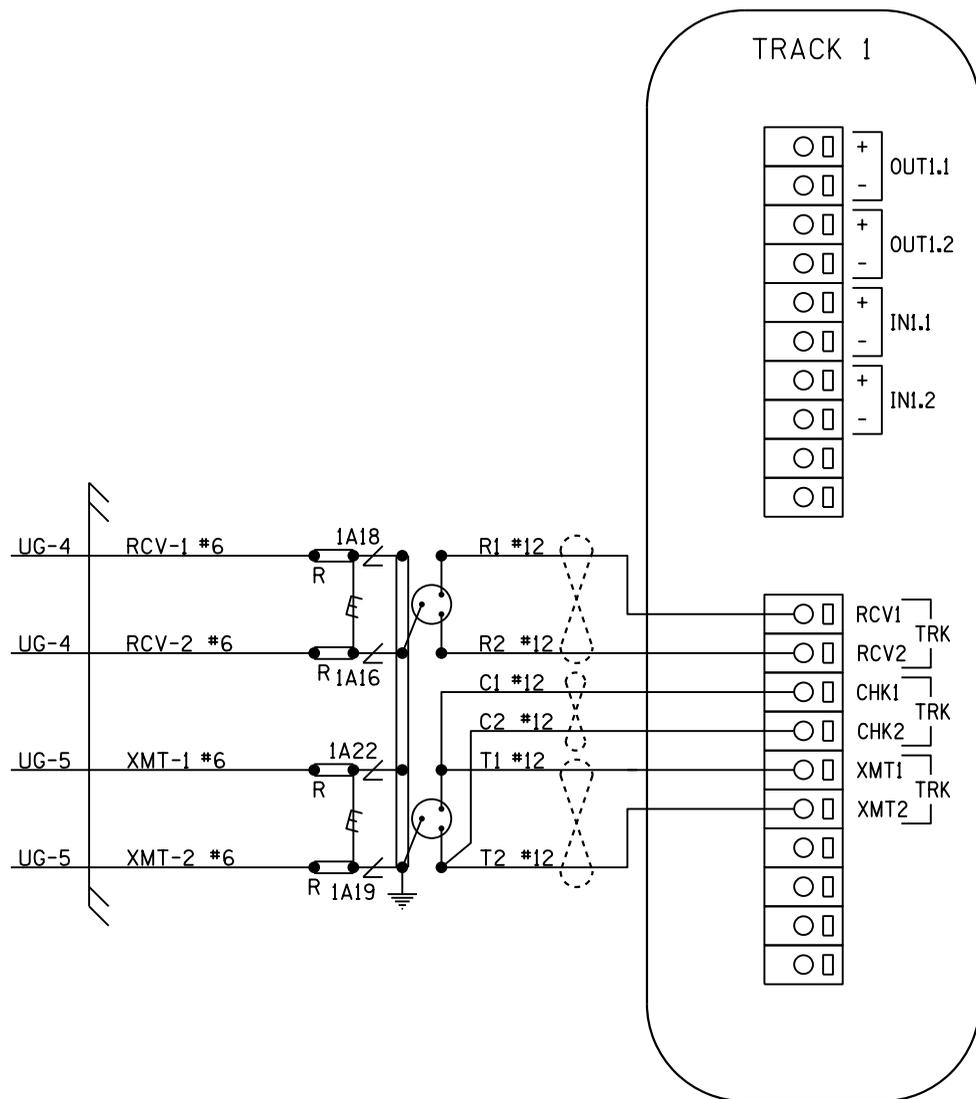
Daylight Savings = On
Units = Standard
Maint Call Rpt IP Used = No
Emergency Activate IP = No
EZ/EX Logging = Change
EZ/EX Point Change = 3

4000 GCP PROGRAMMING SETUP

Table with design and drawing information including: DESIGNED BY: KDF 04-21-15, DRAWN BY: SII 04-21-15, CHECKED BY: EWP 04-28-15, IN SERVICE: - -, and logos for NORFOLK SOUTHERN and Dawson, IL.

REVISION INITIALS table with 10 columns for tracking changes.

PROPERTY NORFOLK SOUTHERN RAILWAY CO.



CONNECTORS FOR TRACK MODULES

NOTES:
ALL WIRING TO BE #16AWG
UNLESS NOTED OTHERWISE.

= TWIST

DESIGNED BY: KDF 04-21-15	NORFOLK SOUTHERN	M.P.: DH-401.59
DRAWN BY: SII 04-21-15		
CHECKED BY: EWP 04-28-15	DAWSON, IL. FLGS AT SCULLY RD.	
IN SERVICE: - -	SPRINGFIELD DISTRICT	FILE No. R-
	CADD or DWG. No. SFDH40159.09	SHEET No. 9 of 22

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

REVISION
INITIALS

SITE SET UP PROCEDURE	
FUNCTION	LED DISPLAY
DATE/TIME	
AUTOMATIC DST ADJUSTMENT	YES
TIME ZONE	EST
SITE NAME	SCULLY RD.
MILEPOST	DH-401.59
DOT #	47929IT
TESTER TYPE	CROSSING
DATE FORMAT	MM-DD-YYYY
TEMP FORMAT	FAHRENHEIT
INDICATE HOLD (SEC)	0
INDICATE REFRESH (SEC)	60
SITE ATCS	7.550.535.090.03.01
SITE TYPE	NO COMMUNICATION
** OFFICE ATCS ADDRESS	2.550.00.0000
** PRIMARY HOP ADDR	7.RRR.LLL.GGG.XX.XX
** BACKUP HOP ADDR 1	7.RRR.LLL.GGG.XX.XX
** BACKUP HOP ADDR 2	7.RRR.LLL.GGG.XX.XX
** POLL ID	1
** MODE	GEN/ATCS
** WAMS XID	DISABLED
** OFFICE COMM DEVICE	MCM (ECHELON)
** RADIO ATCS ADDR	7.RRR.LLL.GGG.01.01
** PHONE #	(OFFICE NUMBER)
** INIT STRING	
** FIELD COMM DEVICE	NONE
**** USER PORT BAUD	57600
**** USER PORT DATA BITS	8
**** USER PORT PARITY	NONE
**** USER PORT STOP BITS	1
**** USER PORT FLOW CONTROL	NONE
**** AUX PORT BAUD	9600
**** AUX PORT DATA BITS	8
**** AUX PORT PARITY	NONE
**** AUX PORT STOP BITS	1
**** AUX PORT FLOW CONTROL	NONE

CONTROL SYSTEM CONFIGURATION MENU QUESTIONS	
THE QUESTION	SELECT FROM MENU OPTION
RESET NAMES AND MODULES?	YES
RAILROAD NUMBER	550
CROSSING CONFIGURATION	NORMAL
AND 1 USED AS XR?	YES
AND 2 USED AS XR?	NO
AND 3 USED AS XR?	NO
AND 4 USED AS XR?	NO
AND 5 USED AS XR?	NO
AND 6 USED AS XR?	NO
AND 7 USED AS XR?	NO
AND 8 USED AS XR?	NO
* XR CONTROLLED BY FOREIGN RR	
ENTRANCE GATES	2
85% VOLTAGE RELAY OUT	YES
* GATES CONTROLLED BY FOREIGN RR	
BATTERY BANKS	2
BATTERY MON USED	NO
PREEMPTION	NO
INTERNAL CROSSING CONTROLLERS	2
EXTERNAL CROSSING CONTROLLERS	0
VHF COMMUNICATOR	YES
DTMF ACTIVATION	YES
**** ACTIVATION CODE	291
ACTIVATION TIMEOUT (SECONDS)	60
ILOD MODULES	0
***** ANY LED BULBS USED	YES
VHF VOICE CHANNEL	2
VHF DATA CHANNEL	2
USE CELL MODEM NON-CRITICAL FEATURE	NO

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

NOTES:

- * = DISPLAYED IF CROSSING CONFIGURATION IS SPLIT GATE.
- ** = IF SITE TYPE = NO COMMUNICATION, THEN THESE OPTIONS ARE NOT DISPLAYED.
- *** = THESE SETTINGS SHOULD BE LEFT AT THE DEFAULT SETTING.
- **** = USE LAST 3 NUMBERS FROM DOT NUMBER.
- ***** = IF ILOD MODULE >0.

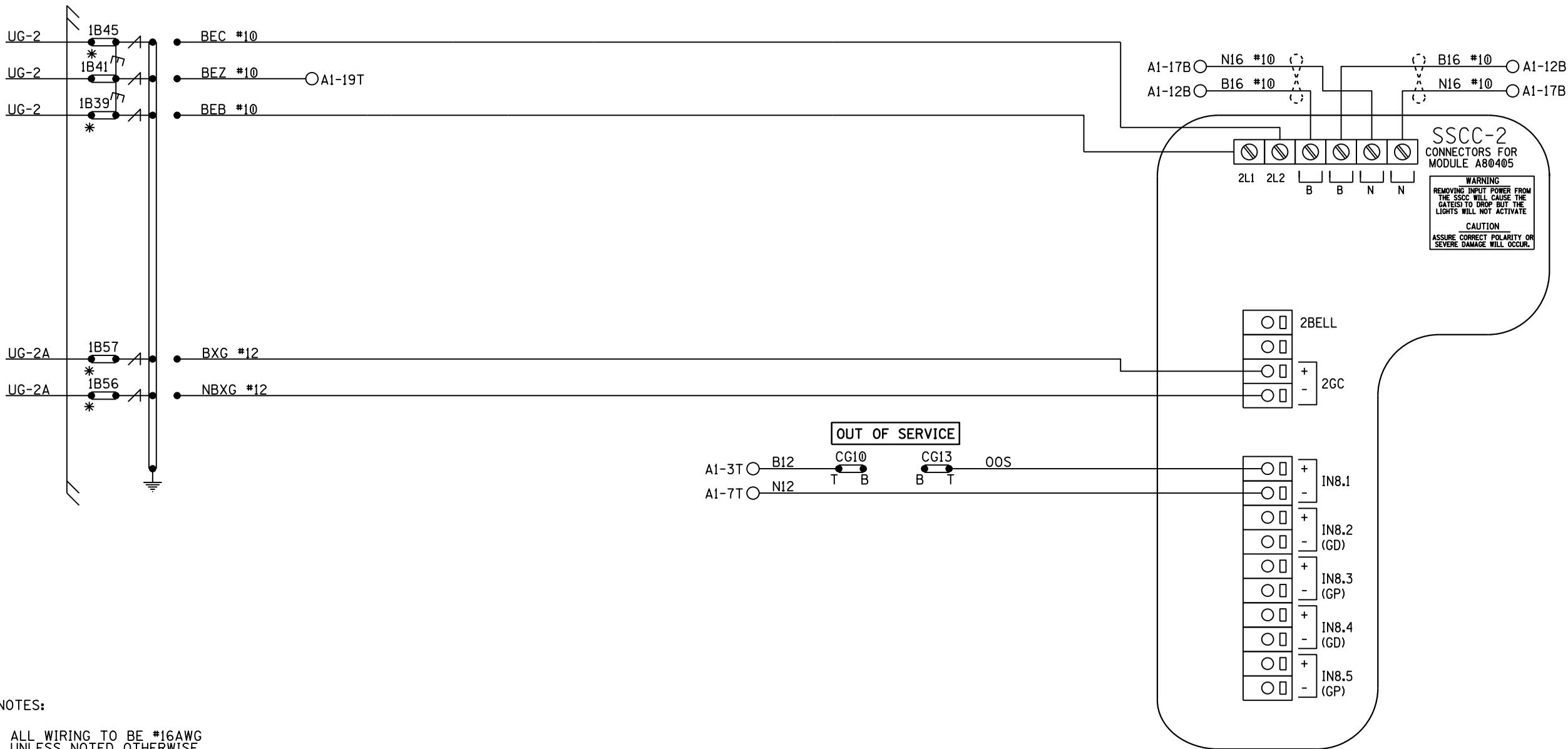
SEAR III PROGRAMMING SETUP

DESIGNED BY:	KDF 04-21-15	
DRAWN BY:	SII 04-21-15	
CHECKED BY:	EWP 04-28-15	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. M.P.: DH-401.59
IN SERVICE:	- -	DAWSON, IL. FLGS AT SCULLY RD.
		SPRINGFIELD DISTRICT
		CADD or DWG. No. SFDH40159.11
		FILE No. R- SHEET 11 of 22

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

REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.



NOTES:

ALL WIRING TO BE #16AWG
UNLESS NOTED OTHERWISE.

* = TEST LINKS MUST BE OPENED TEMPORARILY FOR NEW
COLD START OF NEW OR REPLACEMENT SSSC MODULE
AND CAN ONLY BE CLOSED IN SEQUENCE WITH MFR.
INSTRUCTIONS: SECTION 8 OF THE GCP 4000 REFERENCE MANUAL.

⊘ = TWIST

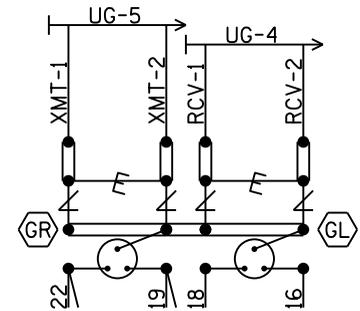
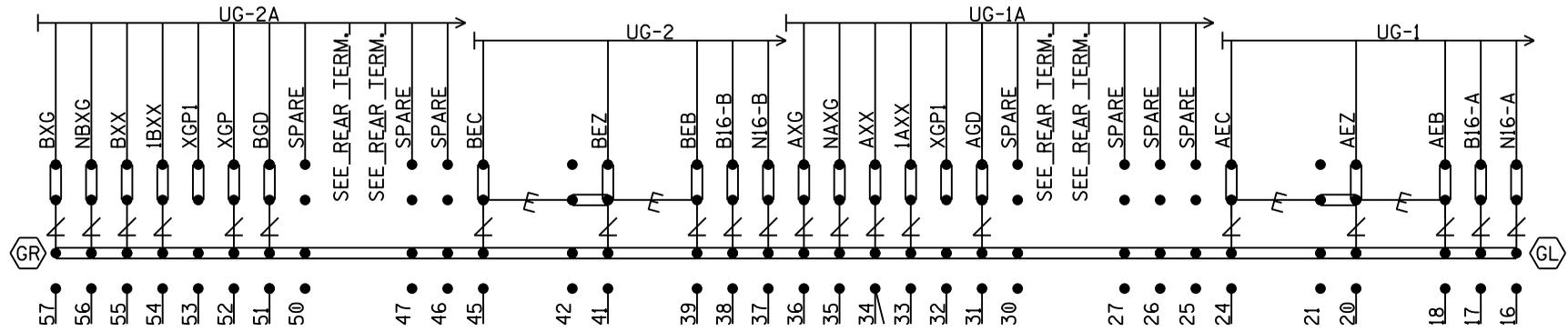
SSSC#2 MODULE HOOK-UP

DESIGNED BY:	KDF	04-21-15	NORFOLK SOUTHERN
DRAWN BY:	SII	04-21-15	
CHECKED BY:	EWP	04-28-15	DAWSON, IL. FLGS AT SCULLY RD.
IN SERVICE:	-	-	SPRINGFIELD DISTRICT FILE No. R-
			CADD or DWG. No. SFDH40159.13 SHEET No. 13 of 22

REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

"1A"
LEFT TWO ROWS TERMINAL BOARD 1
"1B"



NOTE: INSTALL TEST LINKS ON ALL TRACK WIRES AND ON ALL LOW VOLTAGE UNDERGROUND CABLE TERMINATIONS.

SEE FARADAY SHIELD DETAILS - 1A & 1B FOR HOW THIS PORTION OF THE FARADAY SHIELD IS PREDRILLED. ONLY INSTALL AND USE THE TERMINALS NEEDED.

= Heavy Duty Equalizer (022700-1X)

= Clearview Lightning Arrestor (022585-1X)

= LPC-10560-51

= TERMINALS GROUNDED TO SHIELD.
 4 POST BLOCKS USE EITHER -
 GR - SERMMI PART NO. 61278
 GL - SERMMI PART NO. 61278-1.

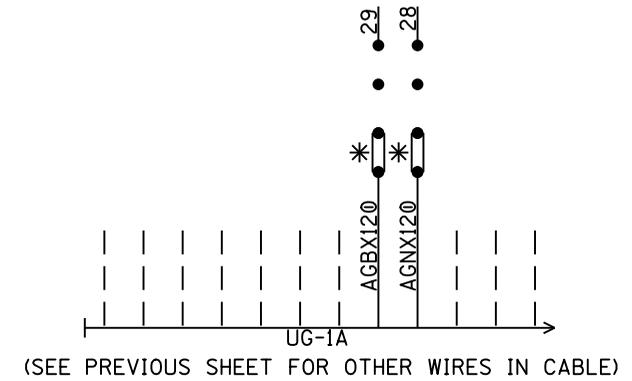
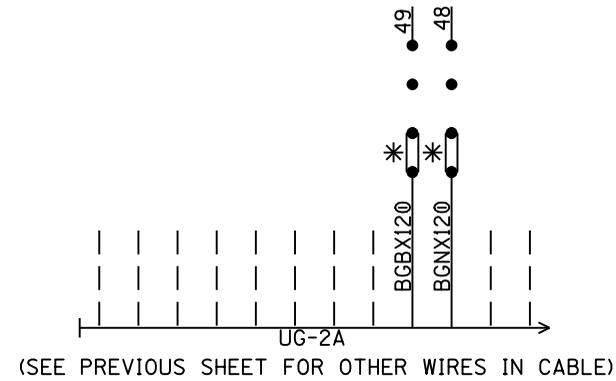
BACKBOARD 1A & 1B

DESIGNED BY:	KDF 04-21-15	NORFOLK SOUTHERN
DRAWN BY:	SII 04-21-15	
CHECKED BY:	EWP 04-28-15	DAWSON, IL. FLGS AT SCULLY RD.
IN SERVICE:	- -	SPRINGFIELD DISTRICT FILE No. R-
		CADD or DWG. No. SFDH40159.16 SHEET No. 16 of 22

REVISION INITIALS																			
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PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

REAR VIEW OF LEFT TWO ROWS TERMINAL BOARD 1
 "1A"
 "1B"



NOTE: ALL 120VAC AND ABOVE WILL BE WIRED TO THE REAR OF FARADAY BACKBOARD. INSULATED NUTS MUST BE USED ON ALL TERMINALS.

* = CLOSED DURING WINTER MONTHS

REAR BACKBOARD 1A & 1B

DESIGNED BY:	KDF	04-21-15		NORFOLK SOUTHERN
DRAWN BY:	SII	04-21-15		
CHECKED BY:	EWP	04-28-15	DAWSON, IL. FLGS AT SCULLY RD.	
IN SERVICE:	-	-	SPRINGFIELD DISTRICT	FILE No. R-
			CADD or DWG. No. SFDH40159.17	SHEET 17 of 22

REVISION INITIALS																			
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PROPERTY
 NORFOLK SOUTHERN RAILWAY CO.

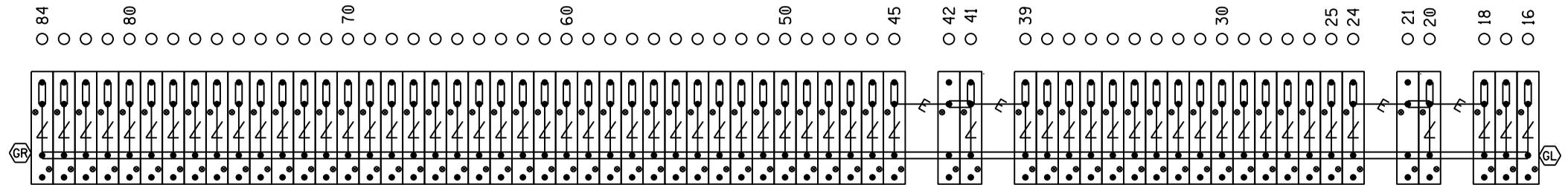
NOTE: IF THE FARADAY SHIELD WOULD EVER NEED TO BE DRILLED IN THE FIELD, PROPER PRECAUTIONS MUST BE TAKEN TO INSURE METAL SHAVINGS DO NOT GET INTO EXISTING TERMINALS/WIRES.

AREA BELOW IS SCALED WITH AS=.75

TERMINAL BOARD 1
RIGHT HALF

11C"

2" PANDUIT



F = Heavy Duty Equalizer
(022700-1X)

Z = Clearview
Lightning Arrester
(022585-1X)

⊙ = LPC-10560-51

⊙GR = TERMINALS GROUNDED TO SHIELD.
⊙GL = 4 POST BLOCKS USE EITHER -
GR - SERMMI PART NO. 61278
GL - SERMMI PART NO. 61278-1.

= INDICATES PLACEMENT
OF PANDUIT

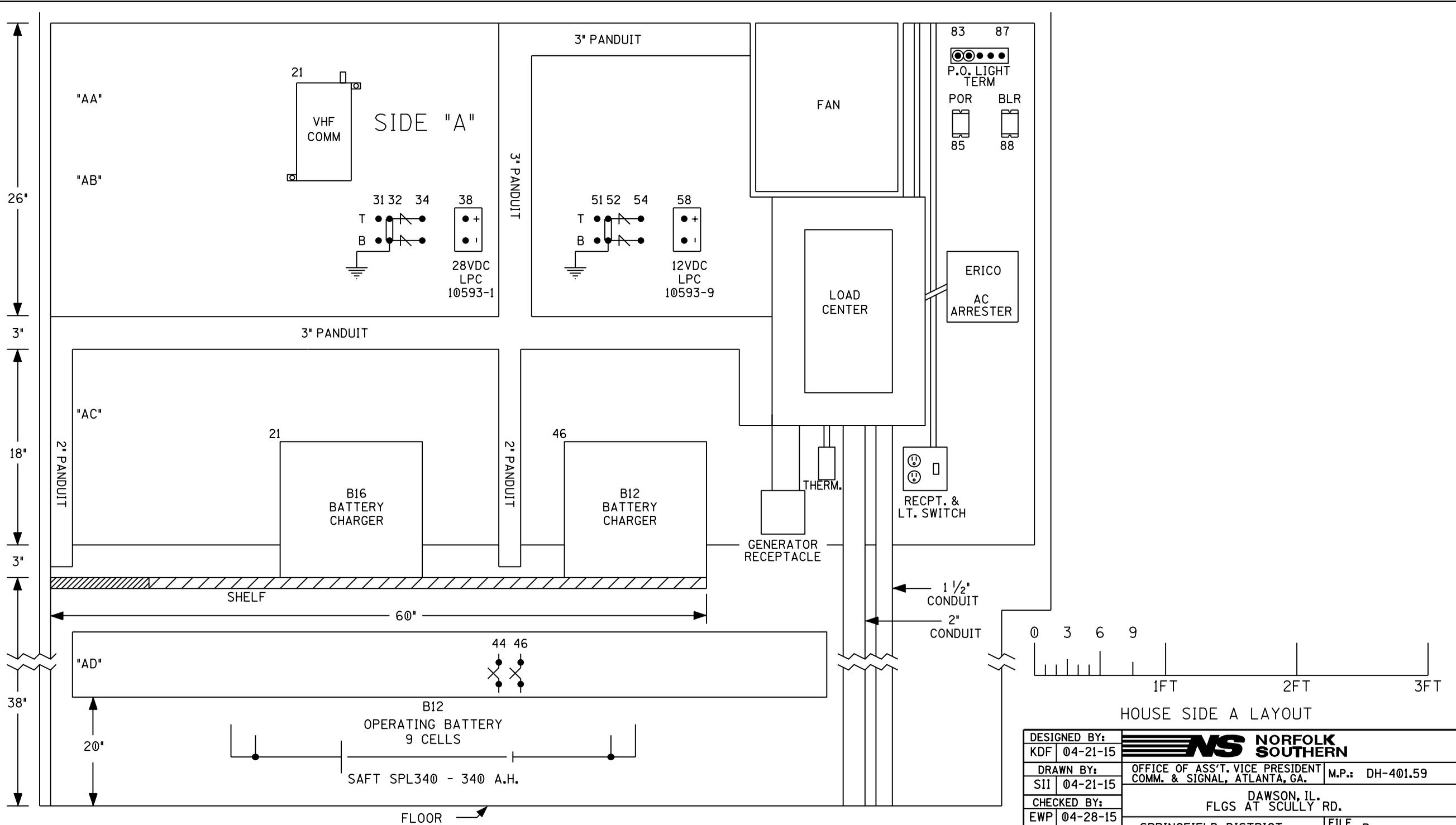
THIS SHEET IS FOR REFERENCE ONLY,
TO REFLECT HOW THE FARADAY SHIELD
IS PREDRILLED. ONLY INSTALL AND USE
THE TERMINALS NEEDED.

FARADAY SHIELD 1C

DESIGNED BY:	KDF 04-21-15	
DRAWN BY:	SII 04-21-15	
CHECKED BY:	EWP 04-28-15	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. M.P.: DH-401.59
IN SERVICE:	- -	DAWSON, IL. FLGS AT SCULLY RD.
		SPRINGFIELD DISTRICT
		CADD or DWG. No. SFDH40159.19
		FILE No. R- SHEET 19 of 22

REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.



HOUSE SIDE A LAYOUT

DESIGNED BY: KDF 04-21-15		M.P.: DH-401.59
DRAWN BY: SII 04-21-15		
CHECKED BY: EWP 04-28-15	DAWSON, IL. FLGS AT SCULLY RD.	
IN SERVICE: - -	SPRINGFIELD DISTRICT	FILE No. R-
	CADD or DWG. No. SFDH40159.21	SHEET No. 21 of 22

REVISION INITIALS																			
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PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

