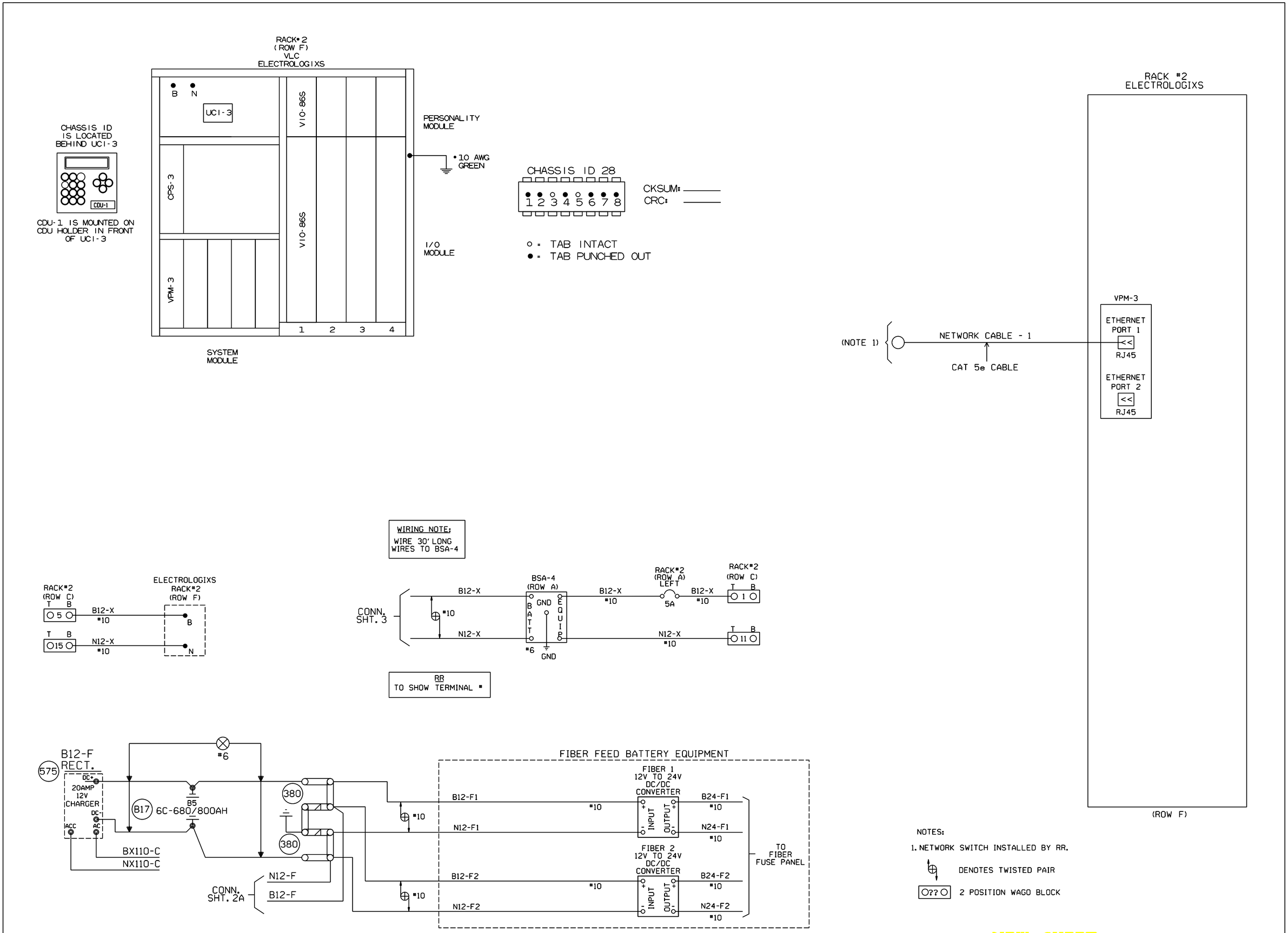


NOTES:

1. NETWORK SWITCH INSTALLED BY RR.

DENOTES TWISTED PAIR

2 POSITION WAGO BLOCK

NEW SHEET

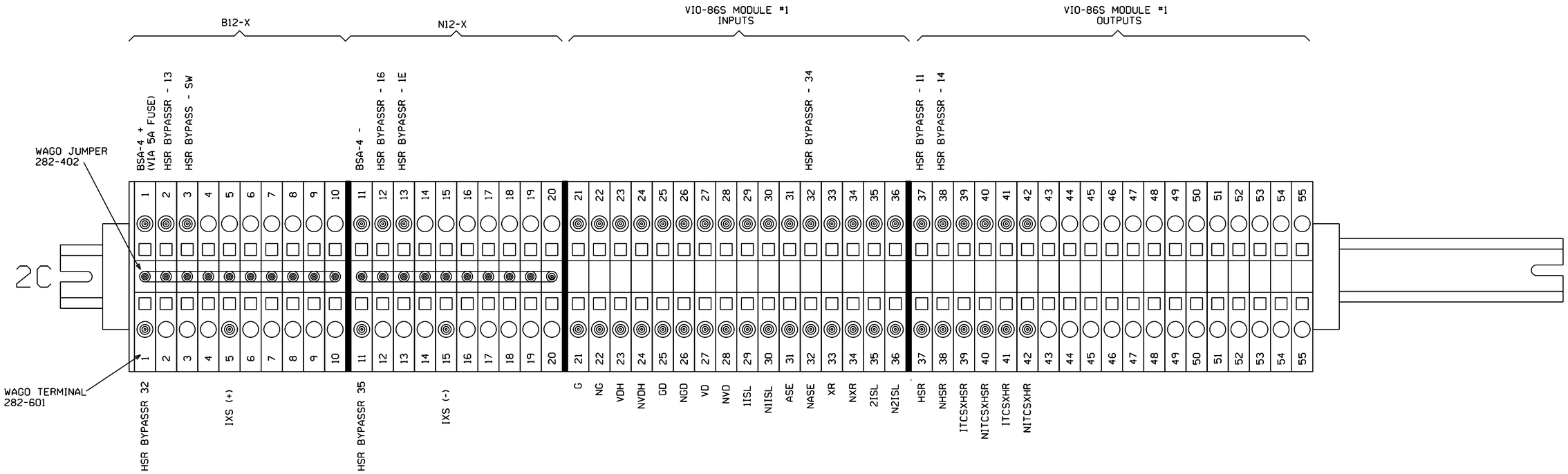
Designed: 04/01/14
REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER.
PID: WO#: 23324
IS: / NBT
Rec#: / /WIT /RLL

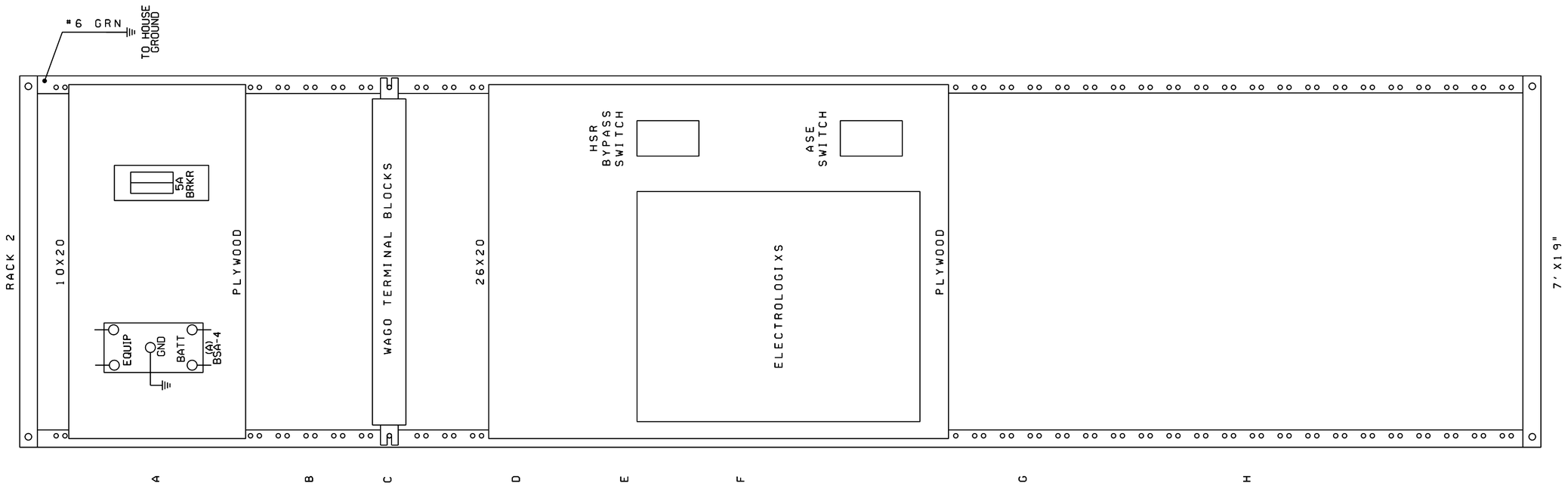
CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN

Date:	04/01/14
Des:	WIT
Chk:	NBT
AFE:	23324

UNION PACIFIC RAILROAD
DWIGHT, ILLINOIS
MAZON AVENUE
JOLIET SUBDIVISION
Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska

Sh.:	10A
DOT	290538S
MP:	73.51
ID:	CSL7351.10AX





NEW SHEET

Designed: 04/01/14
REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER.
PID: WO#: 23324
IS: / NBT
Rec: / / WIT / RLL

CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN

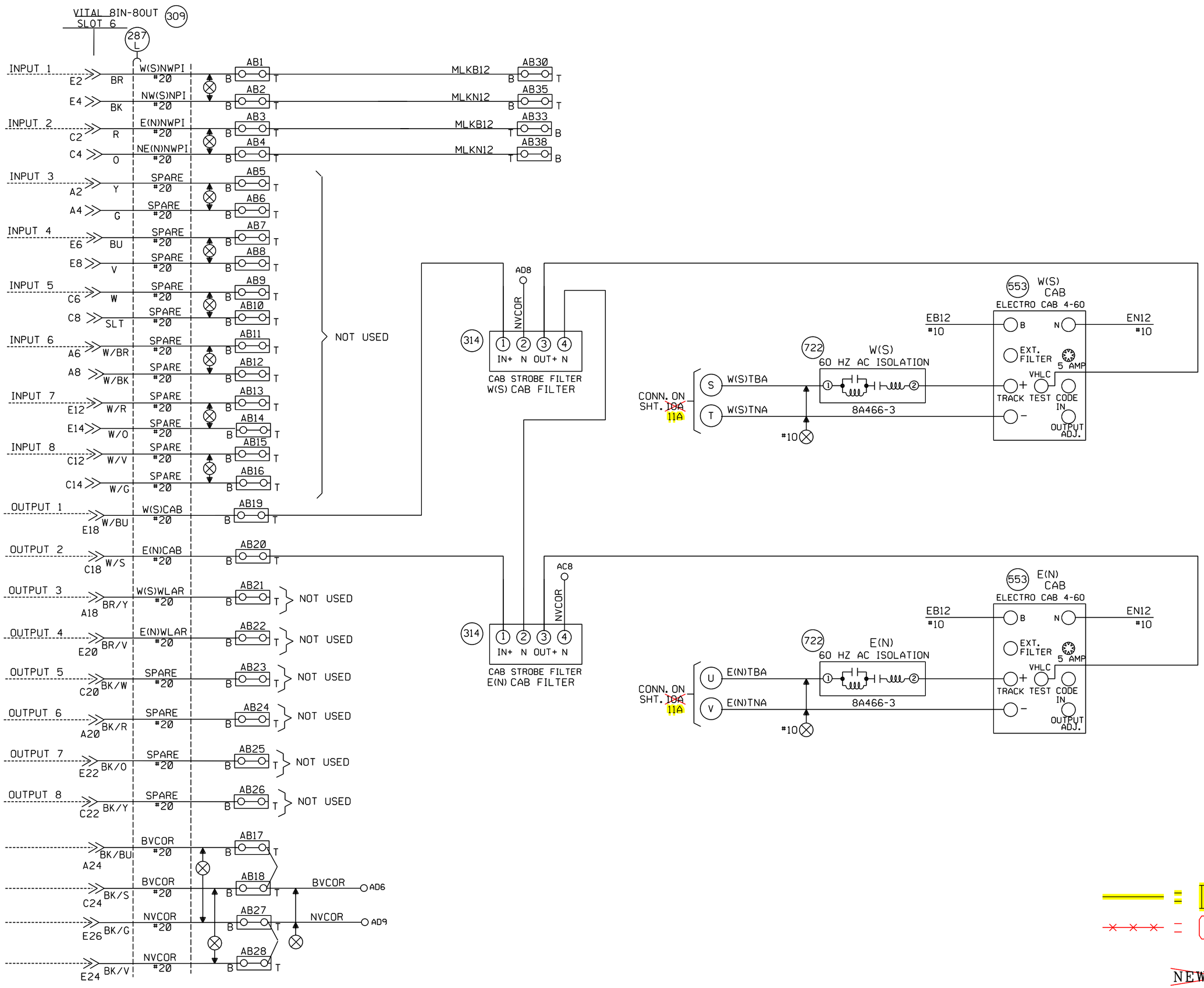
Date:	04/01/14
Des:	WIT
Chk:	NBT
AFE:	23324

UNION PACIFIC RAILROAD

DWIGHT, ILLINOIS
MAZON AVENUE
JOLIET SUBDIVISION

Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska

Sh.:	10B
DOT	290538S
MP:	73.51
ID:	CSL7351.10BX

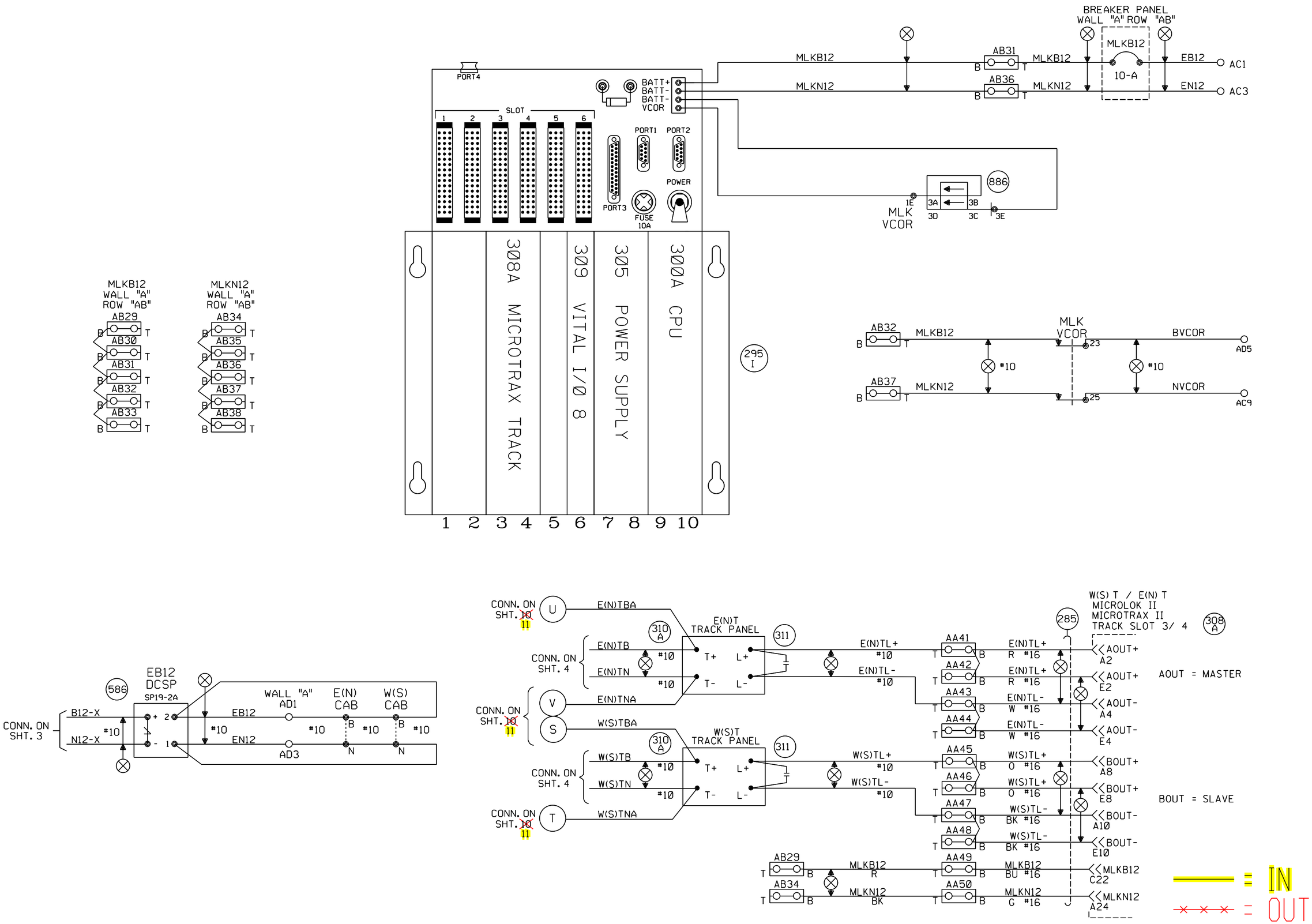


Designed: 04/01/14 REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER. PID: WO#: 23324 IS: / NBT Rec#: / / WIT /RLL	Designed: 8/28/12 UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING. Rec#: WO#: 12780 IS: / WSD / / WIT/MJF	MODIFICATION LEVEL O. A. LAST LEVEL CHECKED DQ LAST LEVEL MOD THIS TYPICAL DQ LAST LEVEL BY DESIGNER DU CHANGED FROM TYPICAL? Y Rev 02/01/08 1TMLREGEN. 3UPRR	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN

Date: 8/28/12
Des: WIT
Chk: WSD
AFE: 23324 ~~12780~~

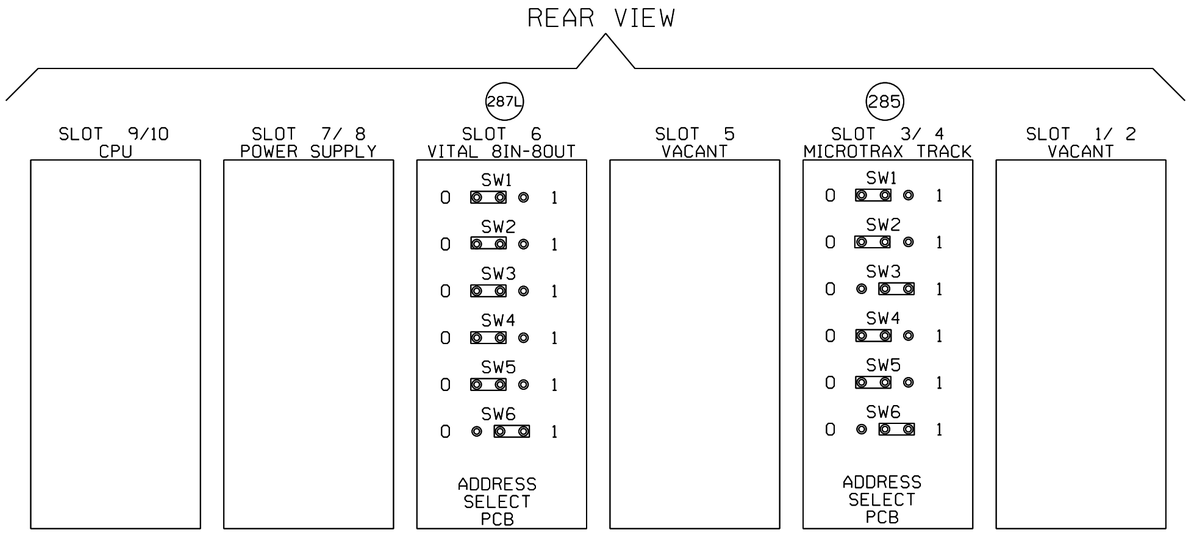
UNION PACIFIC RAILROAD
DWIGHT, ILLINOIS
MAZON AVENUE
JOLIET SUBDIVISION
Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska

Sh.: ~~10~~ 11
DOT 290538S
MP: 73.51
ID: CSL7351.~~10S~~ 11S



~~NEW SHEET~~

Designed: 04/01/14 REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER. PID: WO#: 23324 IS: / NBT Rec#: / /WIT /RLL	Designed: 8/28/12 UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING. Rec#: WO#: 12780 IS: /WSD / /WIT/MJF	MODIFICATION LEVEL Q. A. LAST LEVEL CHECKED DU LAST LEVEL MOD THIS TYPICAL DU LAST LEVEL BY DESIGNER DU CHANGED FROM TYPICAL? N REV 8/20/10 1TMLHBINTU.4	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	Date: 8/28/12 Des: WIT Chk: WSD AFE: ~~12780~~ 23324	UNION PACIFIC RAILROAD DWIGHT, ILLINOIS MAZON AVENUE JOLIET SUBDIVISION Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska	Sh.: ~~10A~~ 11A DOT 290538S MP: 73.51 ID: CSL7351.~~10AS~~ 11AS



NOTE: FOR PTC COMPATIBLE CPU JUMPER SETTINGS REFER TO ANSALDO MANUAL 1D1.0028 PAGE 1-26 1-27 1-28 REV.1 DATE 8/2009

FOR STANDARD CPU JUMPER SETTINGS REFER TO ANSALDO MANUAL SM-6800B PAGE 2-12, 2-13 REV.2.5 DATE 9/2000

ML8RRH REV

15 SEC SLOW PICK ET TO PREVENT JOINT HOP	
15 SEC SLOW PICK WT TO PREVENT JOINT HOP	
PROGRAM ID 1 (BINARY 1)	
PROGRAM ID 2 (BINARY 2)	
PROGRAM ID 3 (BINARY 4)	X
PROGRAM ID 4 (BINARY 8)	
PROGRAM ID 5 (BINARY 16)	
PROGRAM ID 6 (BINARY 32)	X
PROGRAM ID 7 (BINARY 64)	
PROGRAM ID 8 (BINARY 128)	
CODE P?	X

PLACE AN "X" IN THE BOX FOR DESIRED CONFIGURATION.

= IN

= OUT

~~NEW SHEET~~

Designed: 04/01/14
REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER.
PID: WO#: 23324
IS: / NBT
Rec#: / /WIT /RLL

Designed: 8/28/12
UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING.
Rec#: WO#: 12780
IS: /WSD
/ /WIT/MJF

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHECKED	DU
LAST LEVEL MOD THIS TYPICAL	DU
LAST LEVEL BY DESIGNER	DU
CHANGED FROM TYPICAL?	Y

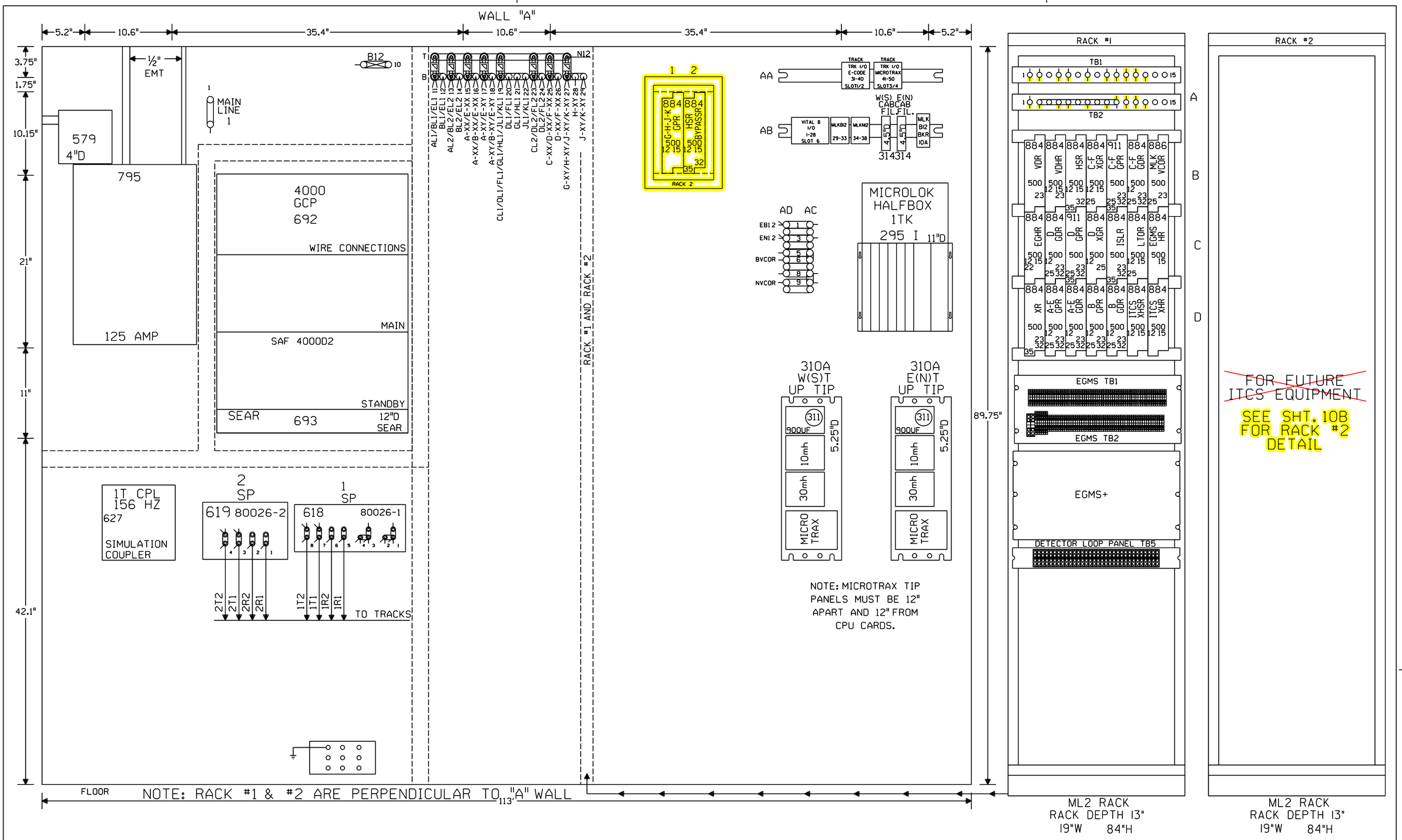
REV 8/20/10 1TMLHBINTU.5

CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN

Date: 8/28/12
Des: WIT
Chk: WSD
AFE: 23324 ~~12780~~

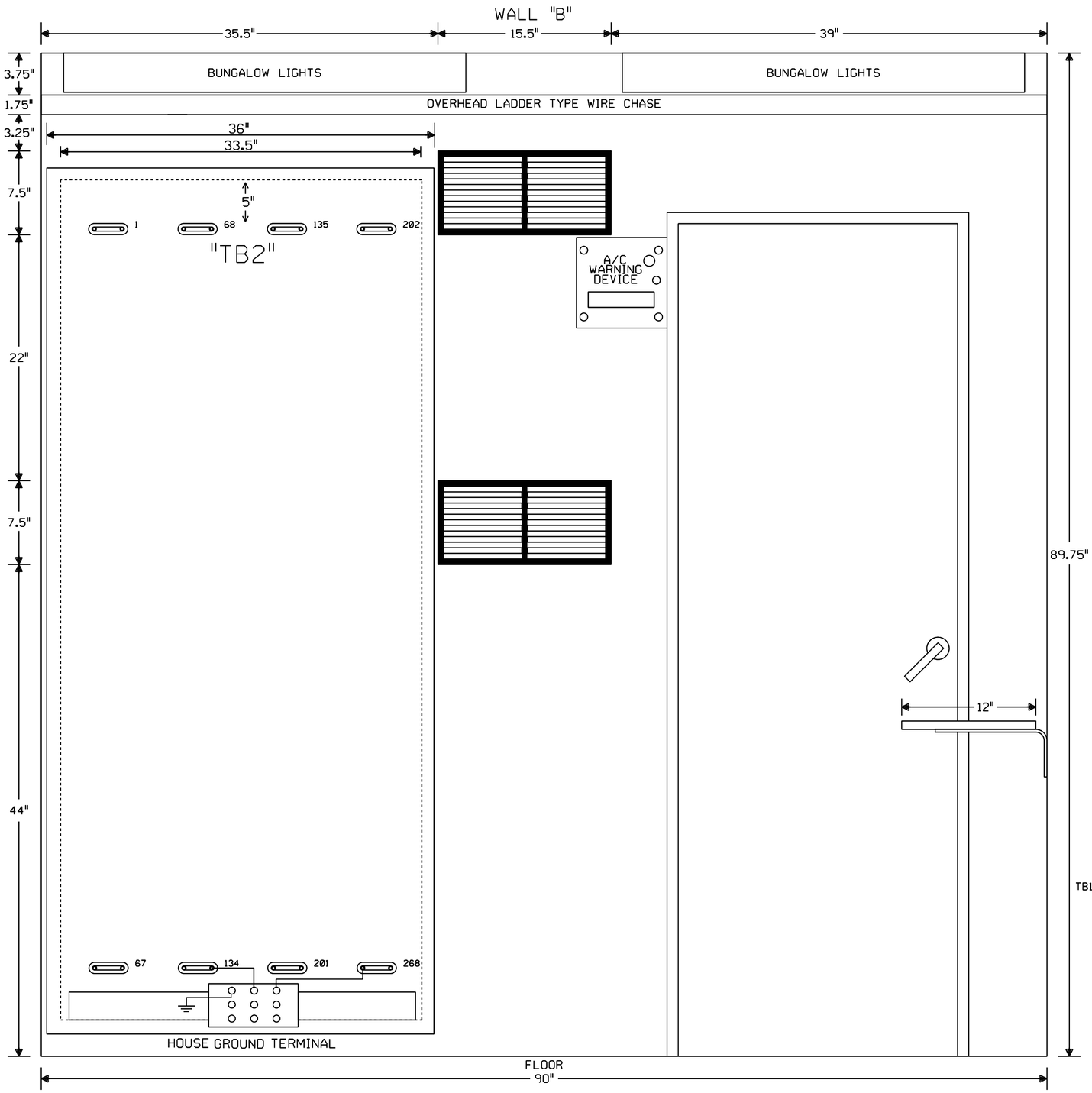
UNION PACIFIC RAILROAD
DWIGHT, ILLINOIS
MAZON AVENUE
JOLIET SUBDIVISION
Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska

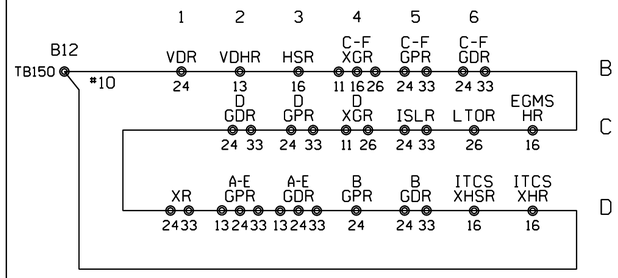
Sh.: ~~10B~~ 11B
DOT 290538S
MP: 73.51
ID: CSL7351.1~~0B~~S
11BS

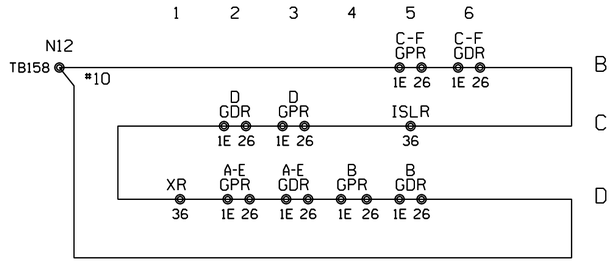


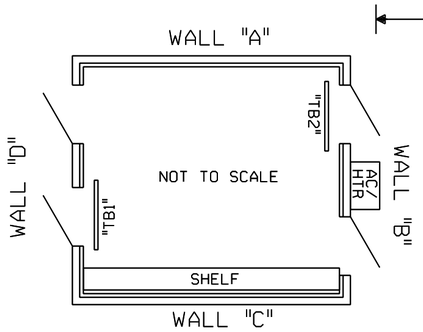
~~NEW SHEET~~

Designed: 04/01/14 REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER. PID: WO#: 23324 IS: / NBT Rec#: / /WIT /RLL	Designed: 8/28/12 UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING. Rec#: WO#: 12780 IS: /WSD / /WIT/MJF	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	Date: 8/28/12 Des: WIT Chk: WSD AFE: ~~12780~~ 23324	UNION PACIFIC RAILROAD DWIGHT, ILLINOIS MAZON AVENUE JOLIET SUBDIVISION Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska	Sh.: ~~11~~ 12 DOT 290538S MP: 73.51 ID: CSL7351.~~11X~~ 12X









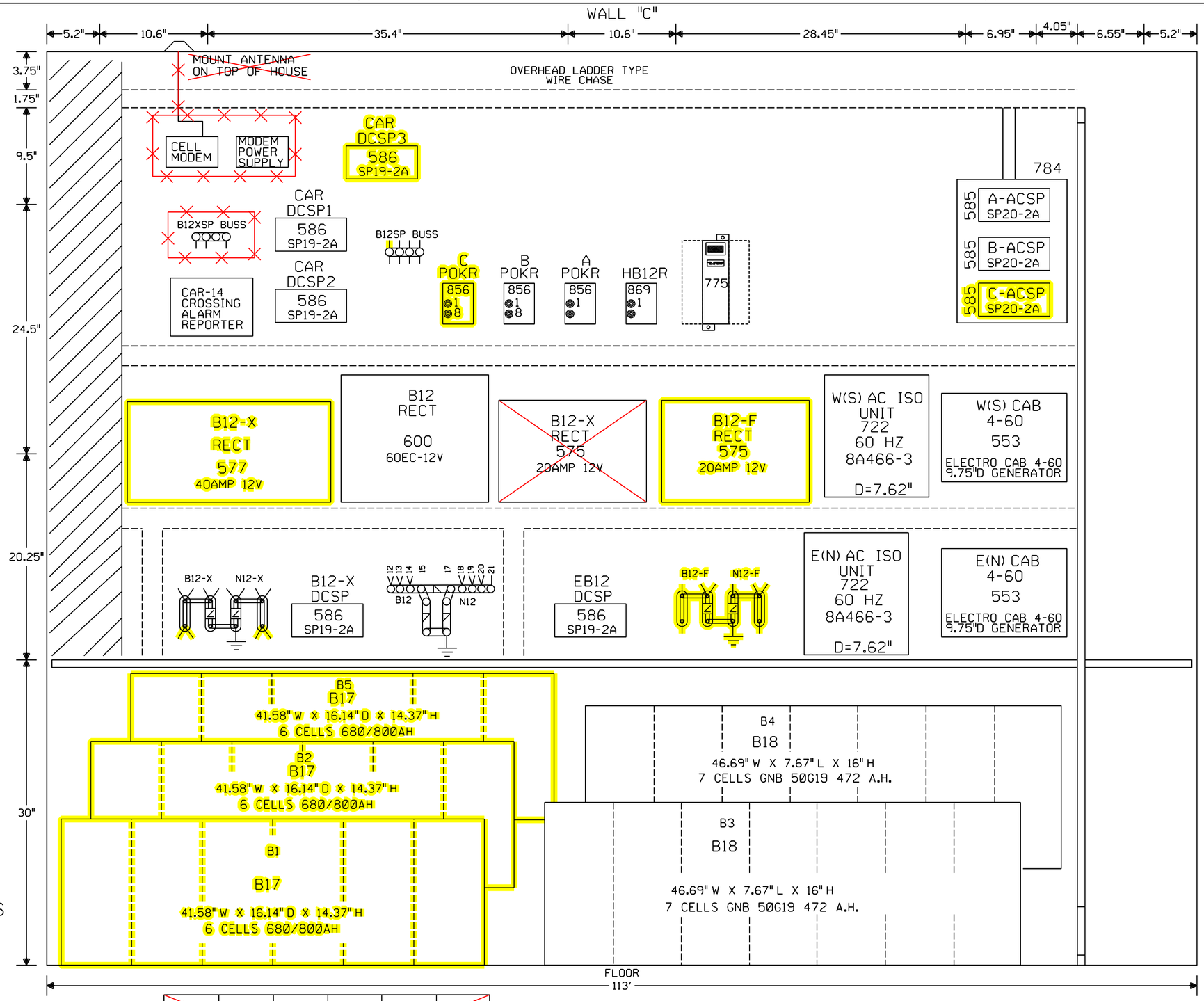
NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

= IN

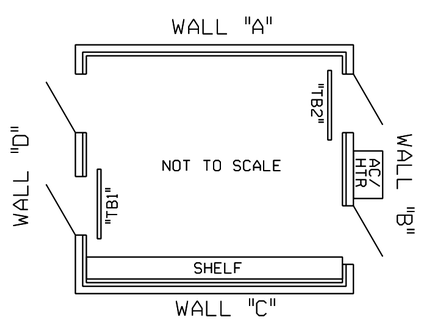
= OUT

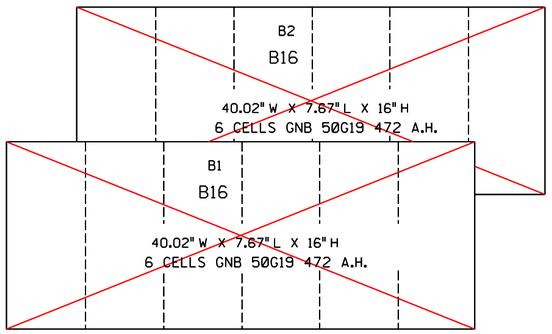
~~NEW SHEET~~

Designed: 04/01/14 REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER. PID: WO#: 23324 IS: / NBT Rec#: / / WIT / RLL	Designed: 8/28/12 UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING. Rec#: WO#: 12780 IS: / WSD / / WIT/MJF	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	Date: 8/28/12 Des: WIT Chk: WSD AFE: ~~12780~~ 23324	UNION PACIFIC RAILROAD DWIGHT, ILLINOIS MAZON AVENUE JOLIET SUBDIVISION Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska	Sh.: ~~12~~ 13 DOT 290538S MP: 73.51 ID: CSL7351.1~~2X~~ 13X



NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.





= IN

= OUT

NEW SHEET

Designed: 04/01/14
REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER.
PID: WO*: 23324
IS: / NBT
Rec*: / / WIT / RLL

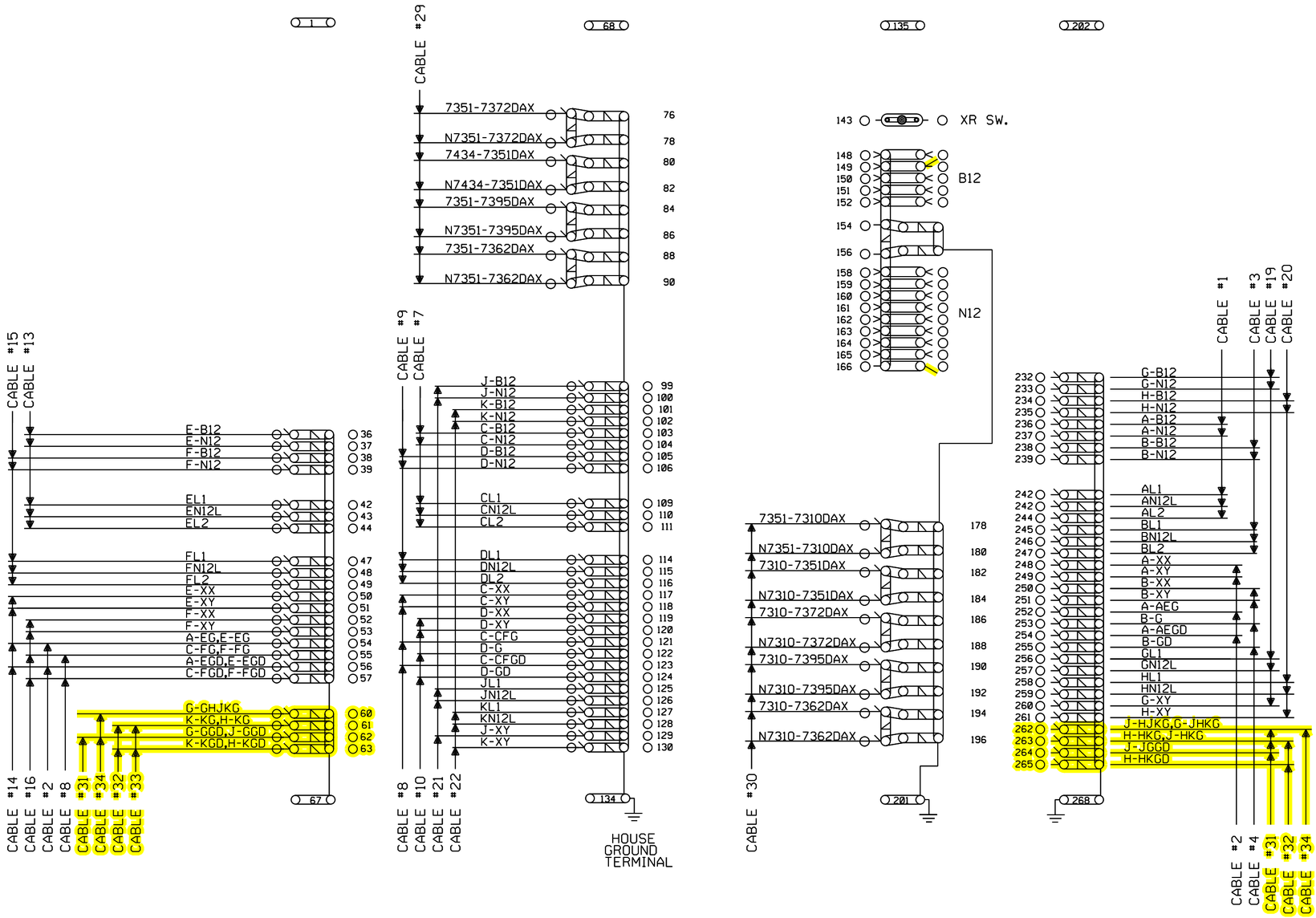
Designed: 8/28/12
UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING.
Rec*: WO*: 12780
IS: / WSD
/ / WIT/MJF

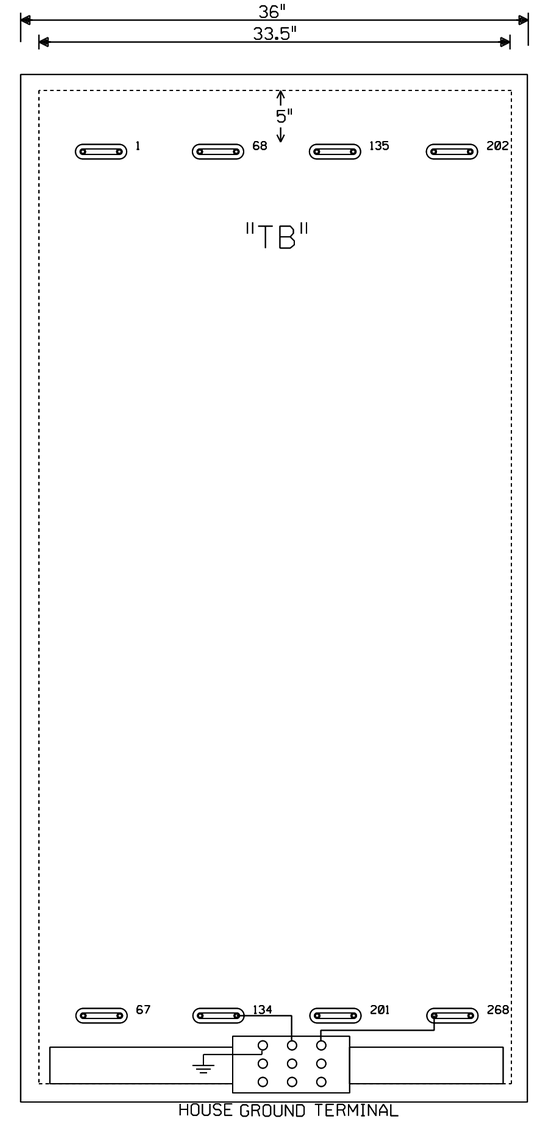
CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN

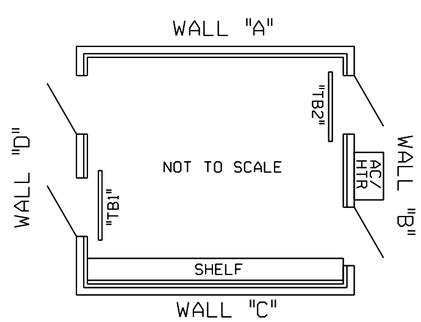
Date:	8/28/12
Des:	WIT
Chk:	WSD
AFE:	23324 ~~12780~~

UNION PACIFIC RAILROAD
DWIGHT, ILLINOIS
MAZON AVENUE
JOLIET SUBDIVISION
Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska

Sh.:	~~13~~ 14
DOT	290538S
MP:	73.51
ID:	CSL7351.~~13X~~ 14X







NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

= IN

= OUT

SEE SIGNAL STANDARD DRAWING 846120UP FOR HOUSE GROUNDING SCHEME

~~NEW SHEET~~

Designed: 04/01/14 REVISE PEDESTRIAN GATE CIRCUITS, ADD ELECTROLOGIXS AND DESIGN FOR FUTURE FIBER. PID: WO#: 23324 IS: / NBT Rec#: / /WIT /RLL	Designed: 8/28/12 UPGRADE MAZON AVE & CHIPPEWA ST w/QUAD GATES AND EGMS. INSTALL NEW GATES @ N DEPOT PED XING. Rec#: WO#: 12780 IS: /WSD / /WIT/MJF	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	Date: 8/28/12 Des: WIT Chk: WSD AFE: ~~12780~~ 23324	UNION PACIFIC RAILROAD DWIGHT, ILLINOIS MAZON AVENUE JOLIET SUBDIVISION Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska	Sh.: ~~14~~ 15 DOT 290538S MP: 73.51 ID: CSL7351.~~14X~~ 15X

Minimum Program Steps Report

Location and SIN

DOT Number: 290538S
Milepost Number: 73.51
Site Name: Dwight, IL

SIN: 762010010016 *

* Parameter is part of office check number calculation.

MCF and Template Selection

MCF Name: GCP-T6X-02-4.mcf
MCF Revision: 24
MCFCRC: 09FC363B

Template = 1D:3 Uni pairs (OCCN) *

* Parameter is part of office check number calculation.

Minimum Program Steps

BASIC: module configuration
Track 5/RIO 2 Slot = RIO (OCCN) *
Track 6/RIO 3 Slot = RIO (OCCN) *

PREDICTORS: track 1
Track 1 : Dax A Used = Yes (OCCN) *

PREDICTORS: track 2
Track 2 : Dax A Used = Yes (OCCN) *
Track 2 : Dax B Used = Yes (OCCN) *
Track 2 : Dax C Used = Yes (OCCN) *

GCP: track 1
Track 1 : GCP Frequency = 156 Hz (Set in Field,TCN)
Track 1 : Approach Distance = 4184 ft (Set in Field,TCN)
Track 1 : Uni/Bi/Sim-Bidirnl = Sim. Bidirnl (OCCN,TCN) *
Track 1 : Island Distance = 179 ft (Set in Field,TCN)

GCP: track 1 prime
Track 1 : Prime Warning Time = 38 sec (OCCN) *
Track 1 : Prime UAX = IP (OCCN) *
Track 1 : Prime UAX Pickup = 15 sec (OCCN) *

GCP: track 1 Dax A
Track 1 : Dax A Warning Time = 38 sec (OCCN) *
Track 1 : Dax A Offset Distance = 1978 ft (Set in Field)

GCP: track 2
Track 2 : GCP Frequency = 156 Hz (Set in Field,TCN)
Track 2 : Approach Distance = 2155 ft (Set in Field,TCN)

GCP: track 2 prime
Track 2 : Prime Warning Time = 38 sec (OCCN) *

GCP: track 2 Dax A
Track 2 : Dax A Offset Distance = 1043 ft (Set in Field)
Track 2 : Dax A Enable = IP (OCCN) *

```
GCP:  track 2 Dax B
Track 2 : Dax B Warning Time = 38 sec (OCCN) *
Track 2 : Dax B Offset Distance = 2212 ft (Set in Field)
Track 2 : Dax B Enable = IP (OCCN) *

GCP:  track 2 Dax C
Track 2 : Dax C Offset Distance = 579 ft (Set in Field)
Track 2 : Dax C Enable = IP (OCCN) *

ISLAND:  track 1
Track 1 : Isl Frequency = 8.3 kHz (Set in Field)
Track 1 : Pickup Delay (2s +) = 2 sec (OCCN) *

AND:  AND 1 XR
AND 1 Enable Used = Yes (OCCN) *

ADVANCED:  out of service
OOS Control = OOS IPs (OCCN) *

ADVANCED:  out of service 2
T2 OOS Control = OOS Input 1 (OCCN) *

SSCC:  2
SSCC-2 Number of GPs = 2 (OCCN) *
SSCC-2 Number of GDs = 2 (OCCN) *

OUTPUT:  assignment page 1
OUT 1.1 = AND 1 XR (OCCN) *
OUT 1.2 = T1 Island (OCCN) *
OUT 2.1 = T2 Dax B (OCCN) *
OUT 2.2 = T2 Dax A (OCCN) *

OUTPUT:  assignment page 2
OUT 5.1 = T1 Dax A (OCCN) *
OUT 5.2 = T2 Dax C (OCCN) *

INPUT:  assignment page 1
IN 1.1 = AND 1 XR Enable (OCCN) *
IN 1.2 = Out Of Service IP 1 (OCCN) *

INPUT:  assignment page 2
IN 5.1 = T2 Dax C Enable (OCCN) *
IN 5.2 = GP 1.1 (OCCN) *
IN 6.1 = T1 Prime UAX (OCCN) *
IN 6.2 = T1 Prime UAX (OCCN) *
IN 6.3 = T2 Dax A Enable (OCCN) *
IN 6.4 = T2 Dax B Enable (OCCN) *

IO:  assignment SSCC
IN 7.1 = AND 1 XR Enable (OCCN) *
IN 8.2 = GD 2.2 (OCCN) *
IN 8.3 = GP 2.2 (OCCN) *
IN 8.4 = GD 2.1 (OCCN) *
IN 8.5 = GP 2.1 (OCCN) *

SEAR:  inputs
SP 3.1 = General 3 (OCCN) *
SP 4.1 = General 4 (OCCN) *

SEAR:  slot 1-4 inputs
IN 2.2 = General 3 (OCCN) *
IN 3.1 = General 1 (OCCN) *
IN 3.2 = General 2 (OCCN) *
```

```
IN 4.1 = Vehicle Det Hlth (OCCN) *
IN 4.2 = 3 Vehicle Detect (OCCN) *

SEAR:  inputs slot 5
IN 5.3 = General 1 (OCCN) *
IN 5.4 = General 2 (OCCN) *

* Parameter is part of office check number calculation.

Check Numbers
-------------
Office Check Number: 687C2930
Config. Check Number: 249E9370
(Based on MCF Revision 24)

Parameters not part of office check number calculation:

Track 1 : GCP Frequency = 156 Hz (Set in Field)
Track 1 : Approach Distance = 4184 ft (Set in Field)
Track 1 : Island Distance = 179 ft (Set in Field)
Track 1 : Dax A Offset Distance = 1978 ft (Set in Field)
Track 2 : GCP Frequency = 156 Hz (Set in Field)
Track 2 : Approach Distance = 2155 ft (Set in Field)
Track 2 : Dax A Offset Distance = 1043 ft (Set in Field)
Track 2 : Dax B Offset Distance = 2212 ft (Set in Field)
Track 2 : Dax C Offset Distance = 579 ft (Set in Field)
Track 1 : Isl Frequency = 8.3 kHz (Set in Field)

Comments
--------
<none>

Configuration Package File
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Filename: CSL7351_290538S.pac
Path: C:\PAC File\
Date/Time: 5/25/2016 11:49:24
DT Version: 5.7.3
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