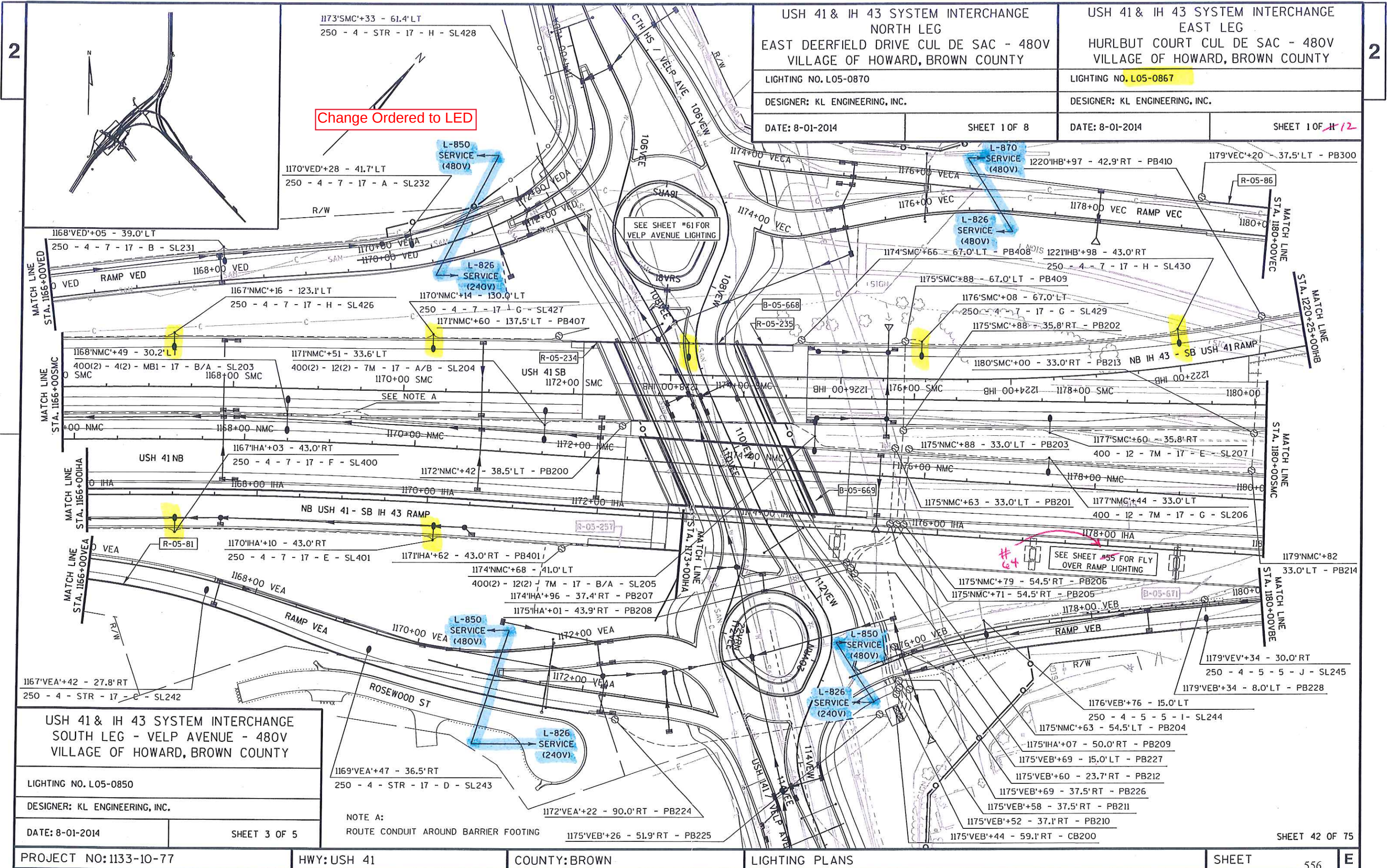
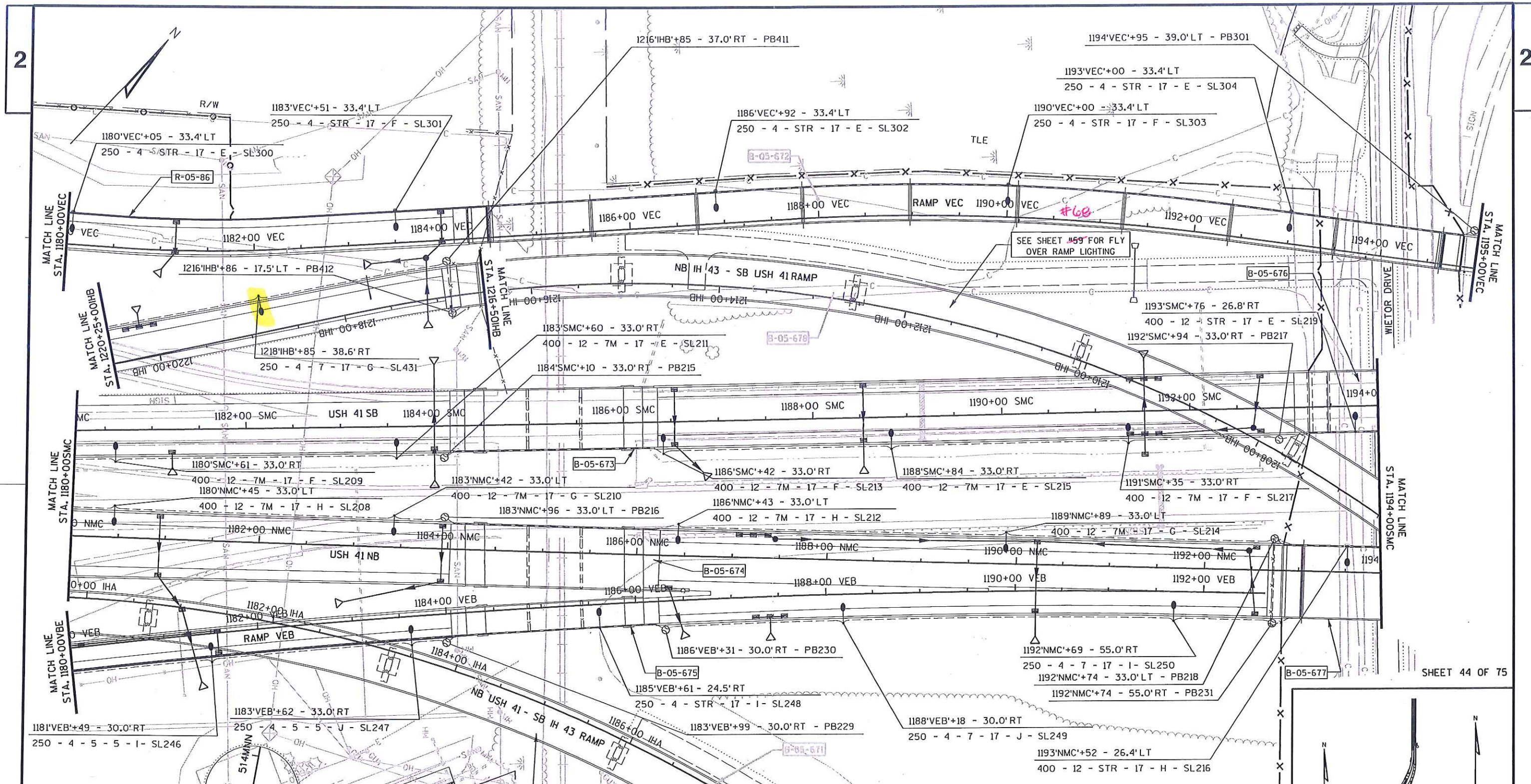






USH 41 & IH 43 SYSTEM INTERCHANGE NORTH LEG EAST DEERFIELD DRIVE CUL DE SAC - 480V VILLAGE OF HOWARD, BROWN COUNTY	
LIGHTING NO. L05-0870	
DESIGNER: KL ENGINEERING, INC.	
DATE: 8-01-2014	SHEET 2 OF 8

PROJECT NO: 1133-10-77

HWY: USH 41

COUNTY: BROWN

LIGHTING PLANS

SHEET 558 E

FILE NAME : G:\WDOT\N\WNE30-0739\BROWN COUNTY - 02\1133-10-77 (USH 41 - IH 43_VELP)\DGN\PLAN SHEETS\023504-1p.dgn

PLOT DATE : 12/15/2014

PLOT BY : KL Engineering

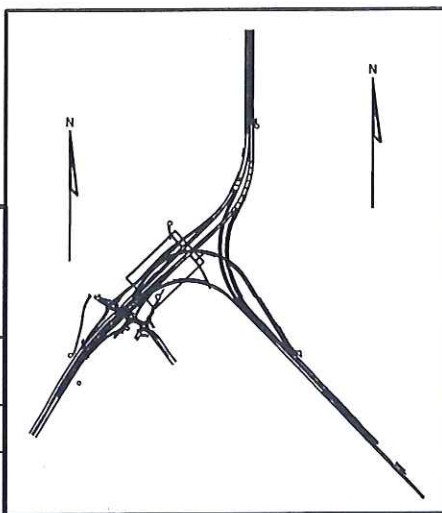
PLOT NAME :

PLOT SCALE :

WISDOT/CADDs SHEET 42

USH 41 & IH 43 SYSTEM INTERCHANGE EAST LEG HURLBUT COURT CUL DE SAC - 480V VILLAGE OF HOWARD, BROWN COUNTY	
LIGHTING NO. L05-0867	
DESIGNER: KL ENGINEERING, INC.	
DATE: 8-01-2014	SHEET 2 OF 12

USH 41 & IH 43 SYSTEM INTERCHANGE SOUTH LEG - VELP AVENUE - 480V VILLAGE OF HOWARD, BROWN COUNTY	
LIGHTING NO. L05-0850	
DESIGNER: KL ENGINEERING, INC.	
DATE: 8-01-2014	SHEET 4 OF 5



2

USH 41 & IH 43 SYSTEM INTERCHANGE
EAST LEG
HURLBUT COURT CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0867

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 3 OF 12

USH 41 & IH 43 SYSTEM INTERCHANGE
NORTH LEG
EAST DEERFIELD DRIVE CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0870

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 3 OF 8

USH 41 & IH 43 SYSTEM INTERCHANGE
SOUTH LEG - VELP AVENUE - 480V
VILLAGE OF HOWARD, BROWN COUNTY

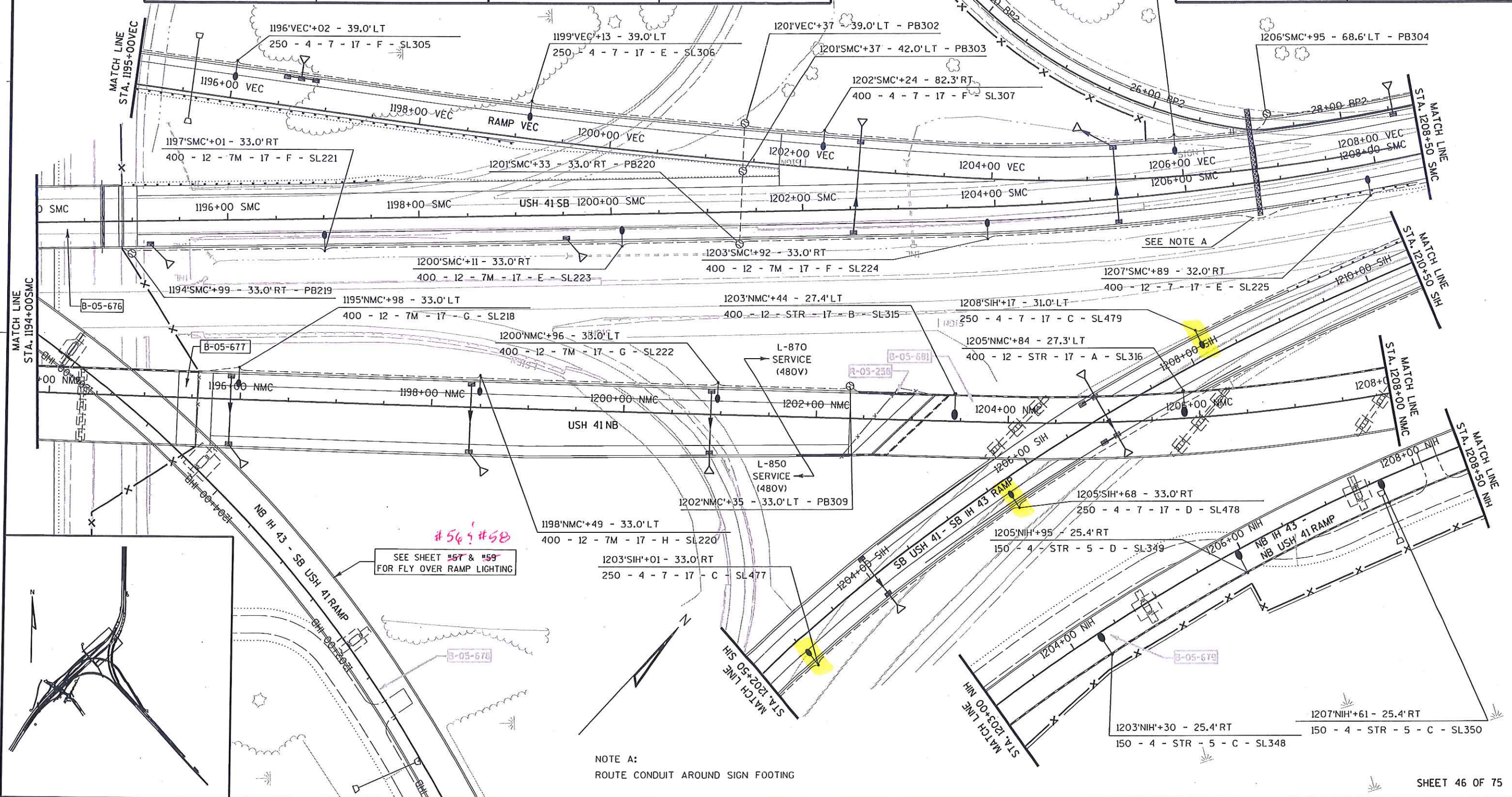
LIGHTING NO. L05-0850

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 5 OF 5

2



PROJECT NO: 1133-10-77

HWY: USH 41

COUNTY: BROWN

LIGHTING PLANS

SHEET

560

E

FILE NAME : G:\WDOT\NE\WNE30-0739\BROWN COUNTY - 02\1133-10-77 (USH 41 _IH 43_VELP)\DGN\PLAN SHEETS\023505_1p.dgn

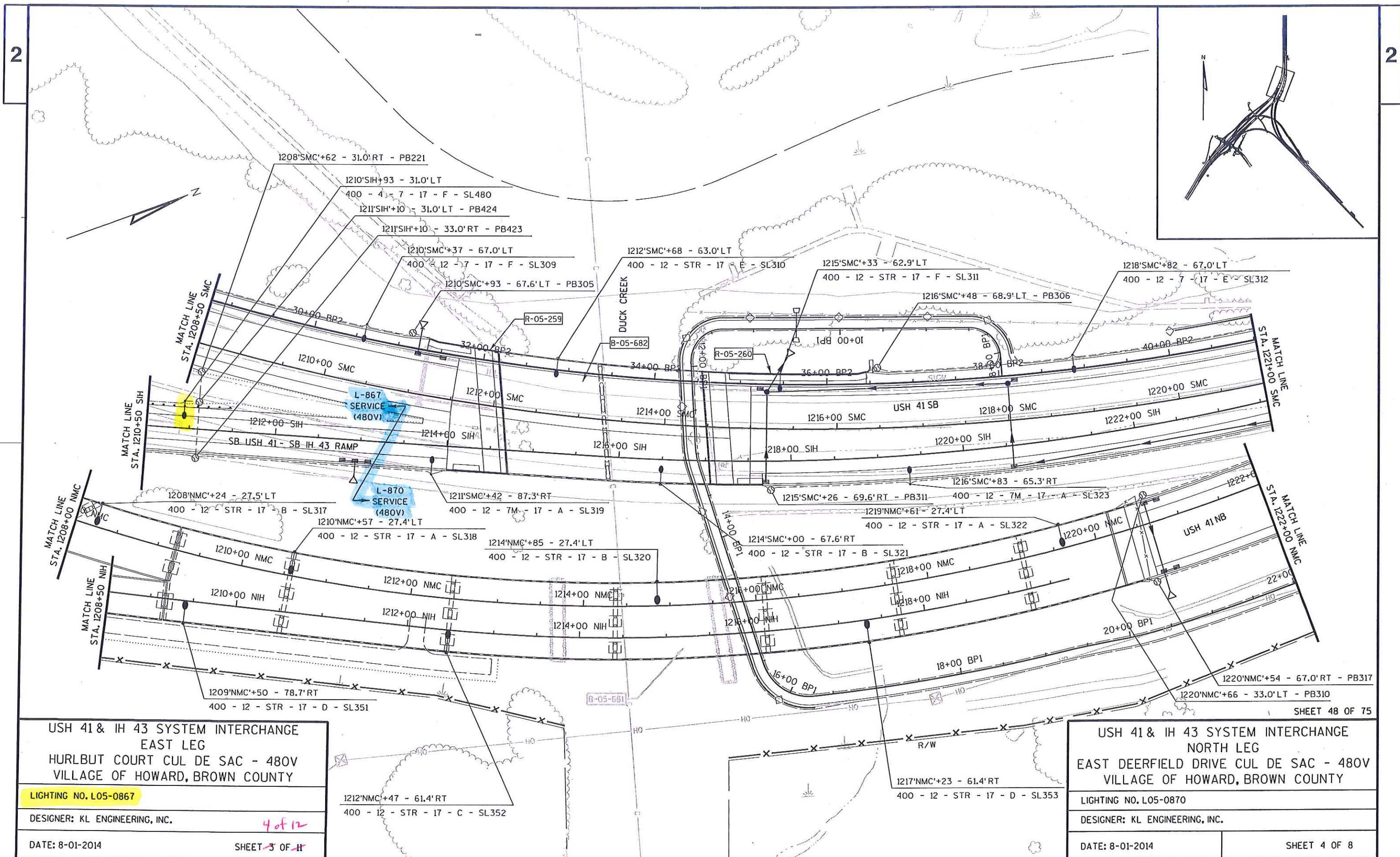
PLOT DATE : 12/15/2014

PLOT BY : KL Engineering

PLOT NAME :

PLOT SCALE :

WISDOT/CADDs SHEET 42



USH 41 & IH 43 SYSTEM INTERCHANGE
EAST LEG
HURLBUT COURT CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0867

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

4 of 12

SHEET 3 OF 11

USH 41 & IH 43 SYSTEM INTERCHANGE
NORTH LEG
EAST DEERFIELD DRIVE CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0870

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 4 OF 8

USH 41 & IH 43 SYSTEM INTERCHANGE
EAST LEG
HURLBUT COURT CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

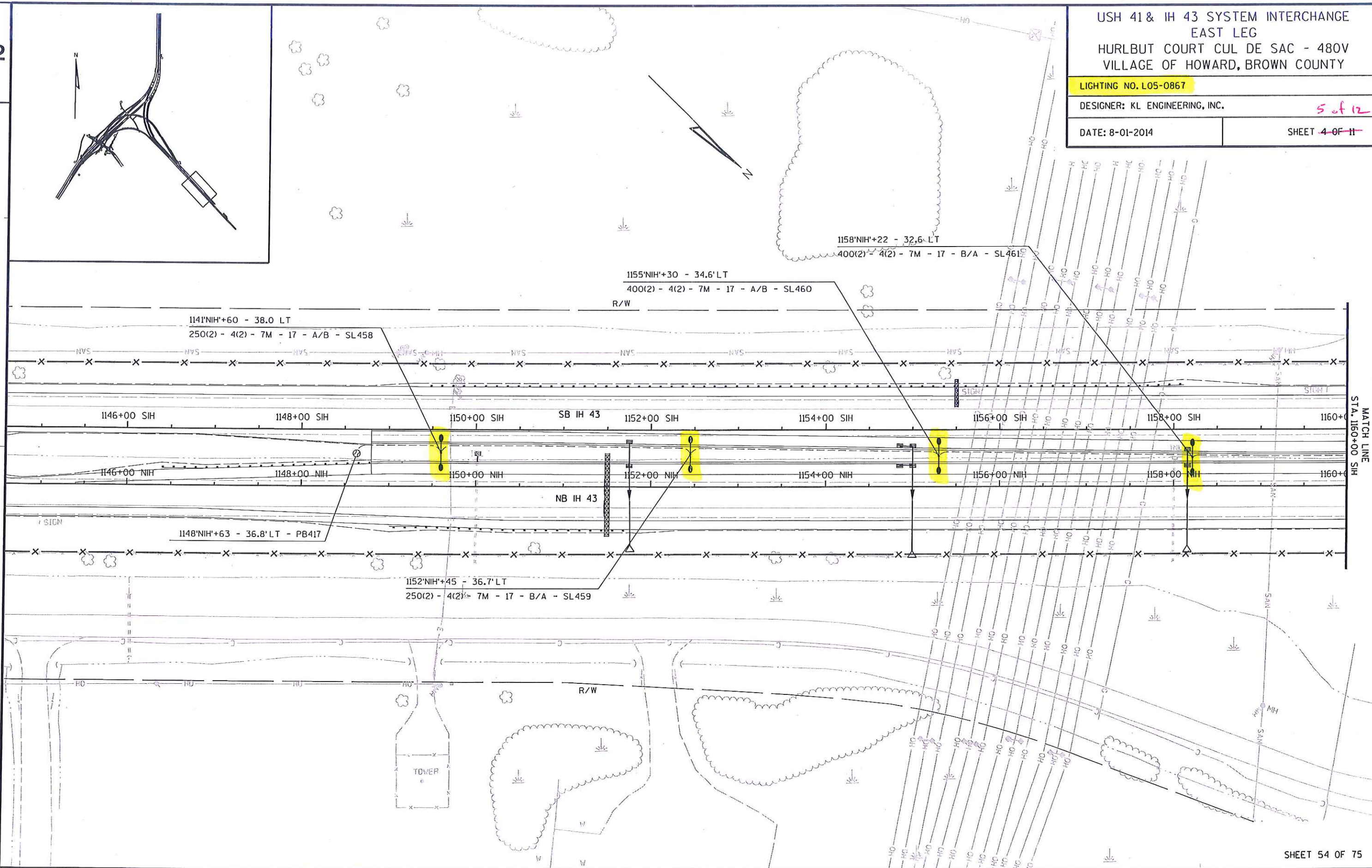
LIGHTING NO. L05-0867

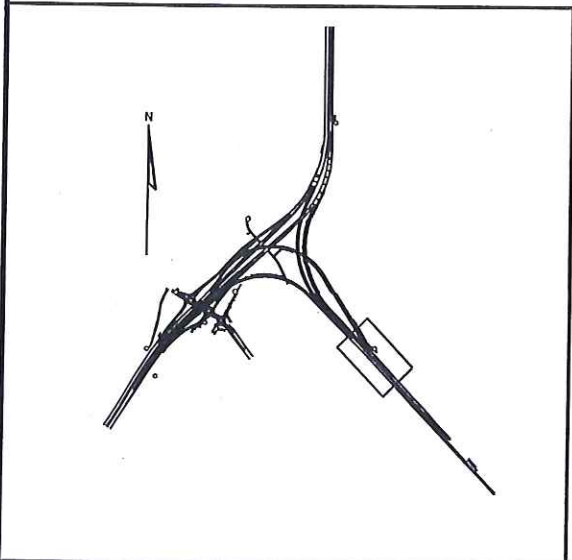
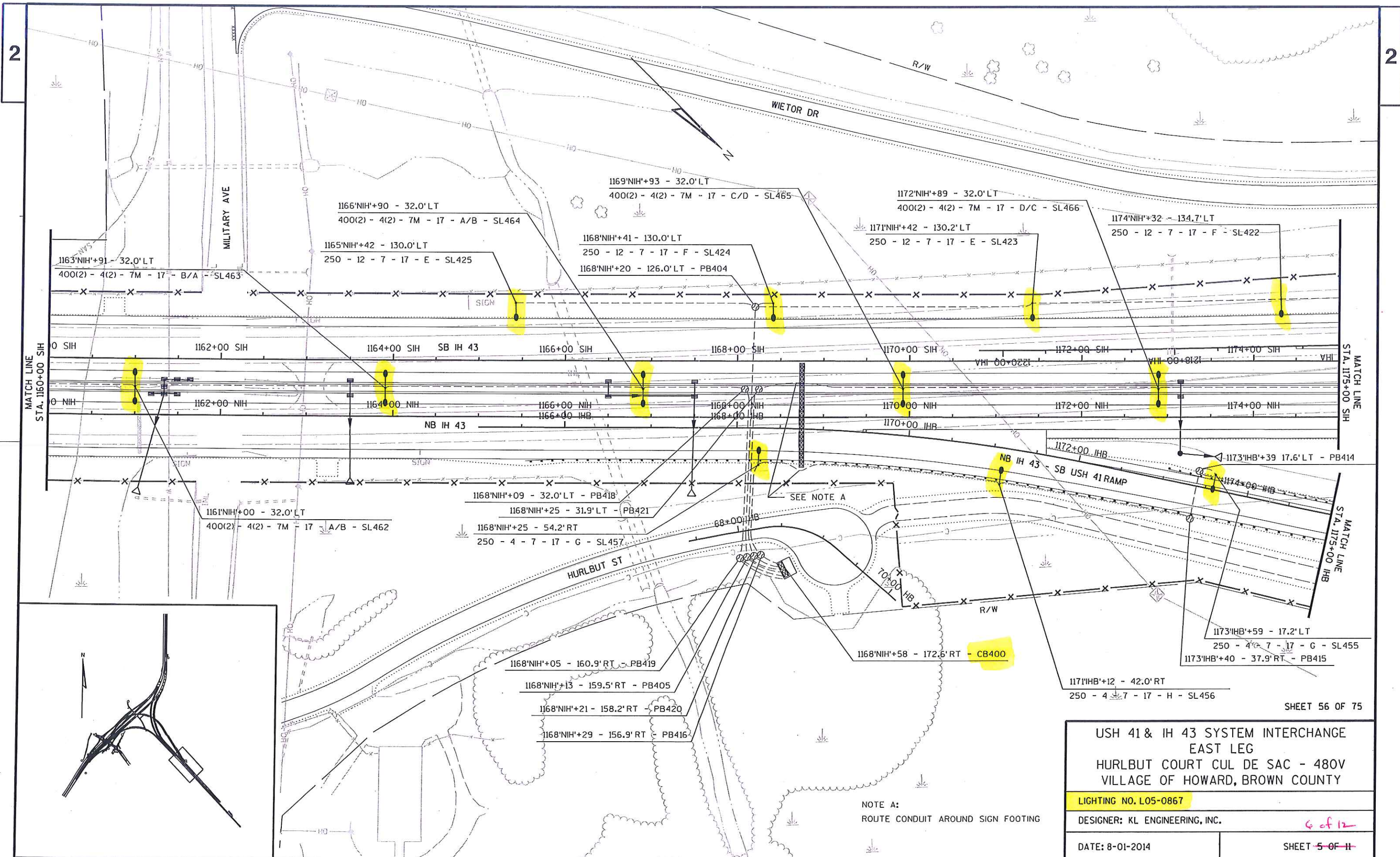
DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 4 OF 11

5 of 12





NOTE A:
ROUTE CONDUIT AROUND SIGN FOOTING

USH 41 & IH 43 SYSTEM INTERCHANGE EAST LEG HURLBUT COURT CUL DE SAC - 480V VILLAGE OF HOWARD, BROWN COUNTY	
LIGHTING NO. L05-0867	
DESIGNER: KL ENGINEERING, INC.	6 of 12
DATE: 8-01-2014	SHEET 5 OF 11

USH 41 & IH 43 SYSTEM INTERCHANGE
NORTH LEG
EAST DEERFIELD DRIVE CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0870

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 7 OF 8

USH 41 & IH 43 SYSTEM INTERCHANGE
EAST LEG
HURLBUT COURT CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0867

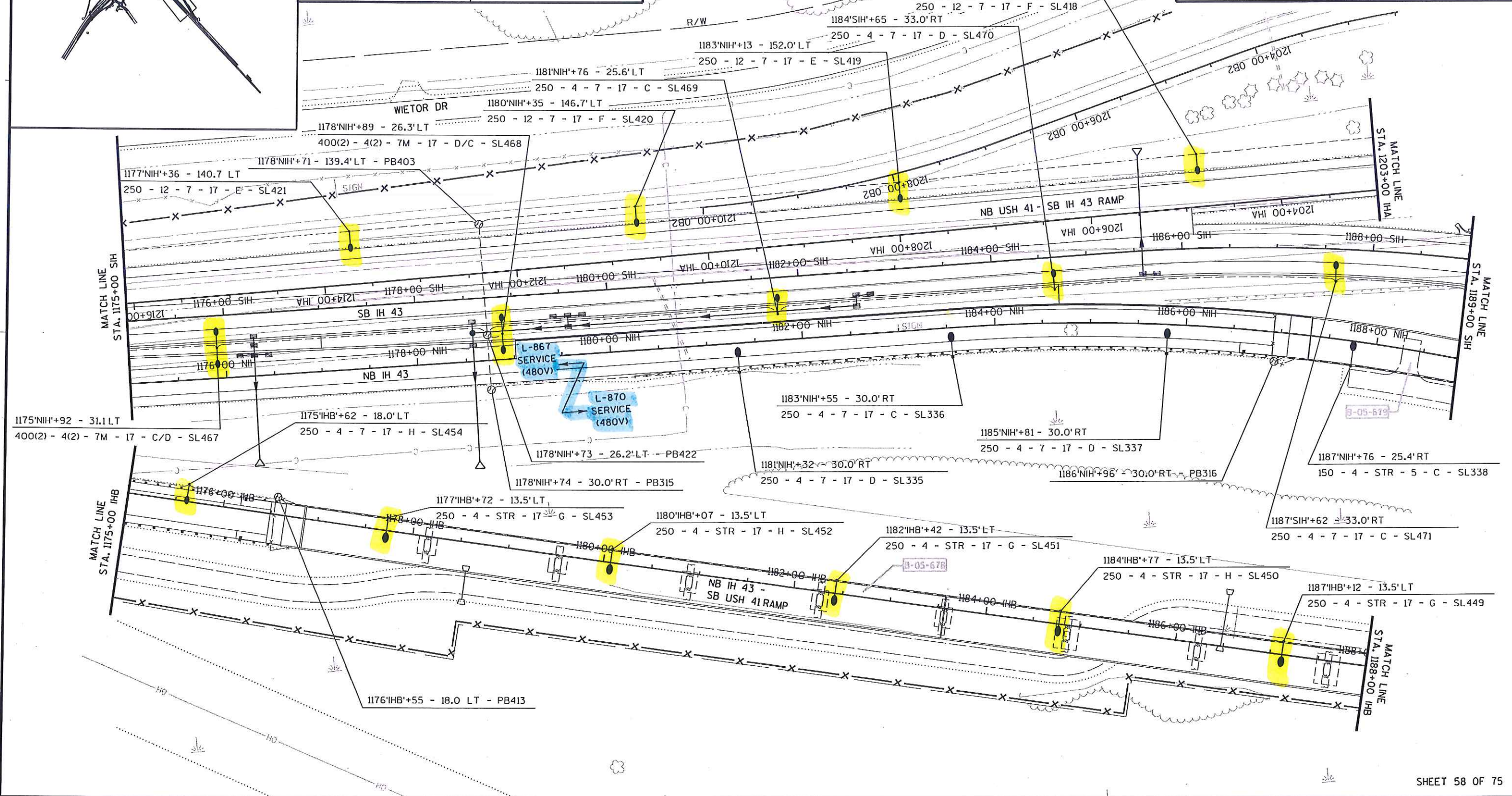
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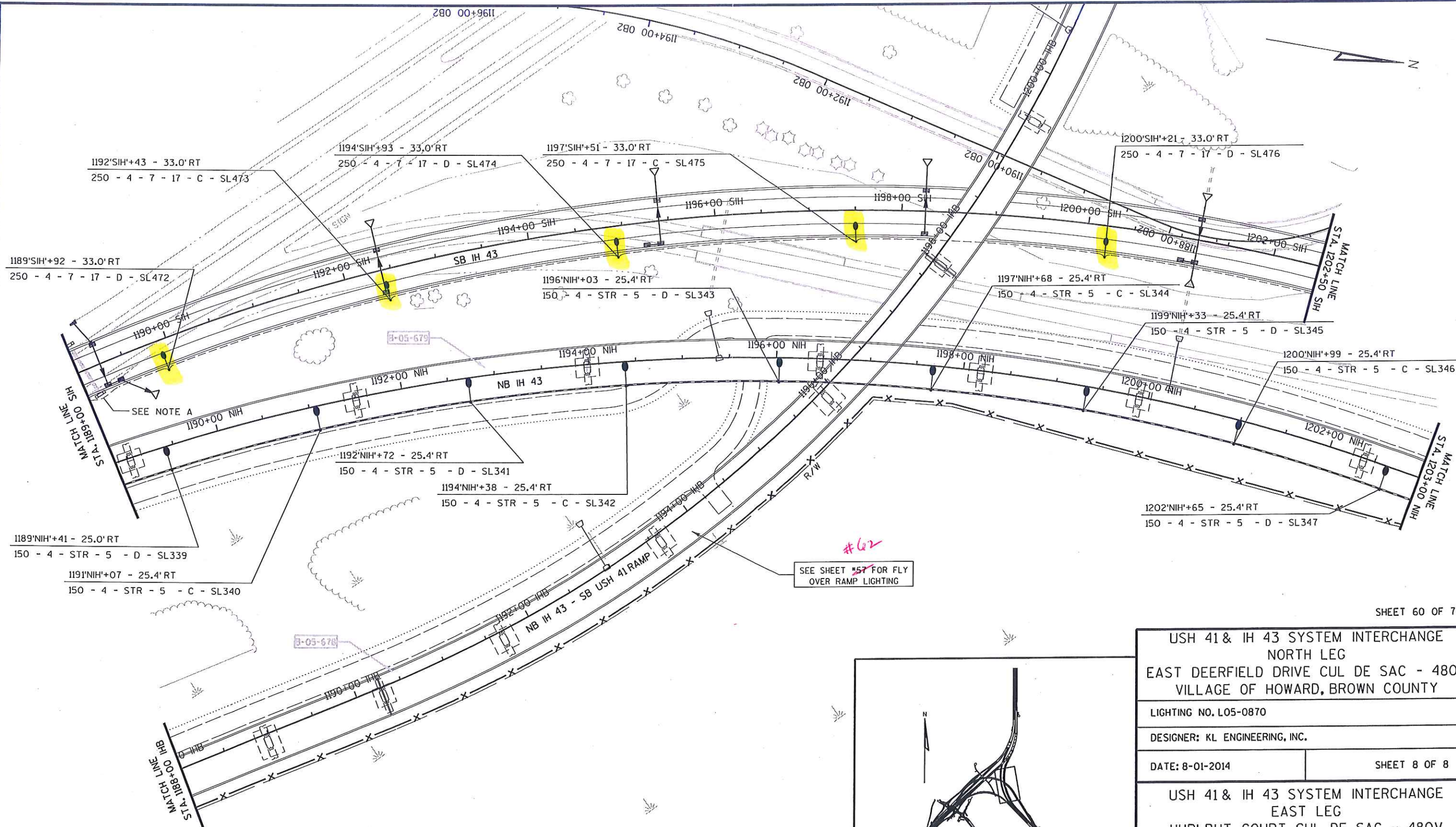
DATE: 8-01-2014

SHEET 6 OF 11

2

2





SHEET 60 OF 75

USH 41 & IH 43 SYSTEM INTERCHANGE
NORTH LEG
EAST DEERFIELD DRIVE CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0870

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 8 OF 8

USH 41 & IH 43 SYSTEM INTERCHANGE
EAST LEG
HURLBUT COURT CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

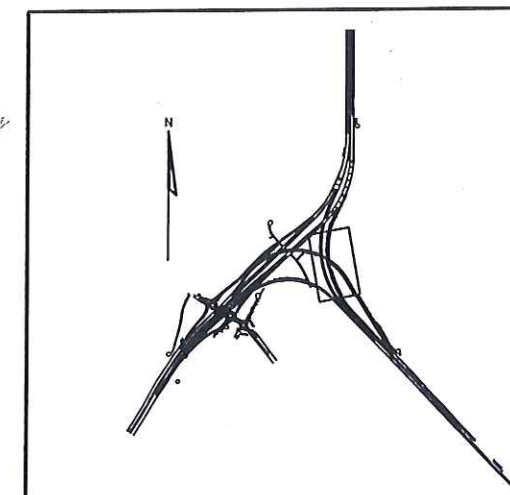
LIGHTING NO. L05-0867

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 7 OF 11

NOTE A:
ROUTE CONDUIT AROUND SIGN FOOTING



PROJECT NO: 1133-10-77

HWY: USH 41

COUNTY: BROWN

LIGHTING PLANS

SHEET 574

E

FILE NAME : G:\WDOT\NE\WNE30-0739\BROWN COUNTY - 02\1133-10-77 (USH 41 - IH 43 - VLP)\DGN\PLAN SHEETS\023514_1p.dgn

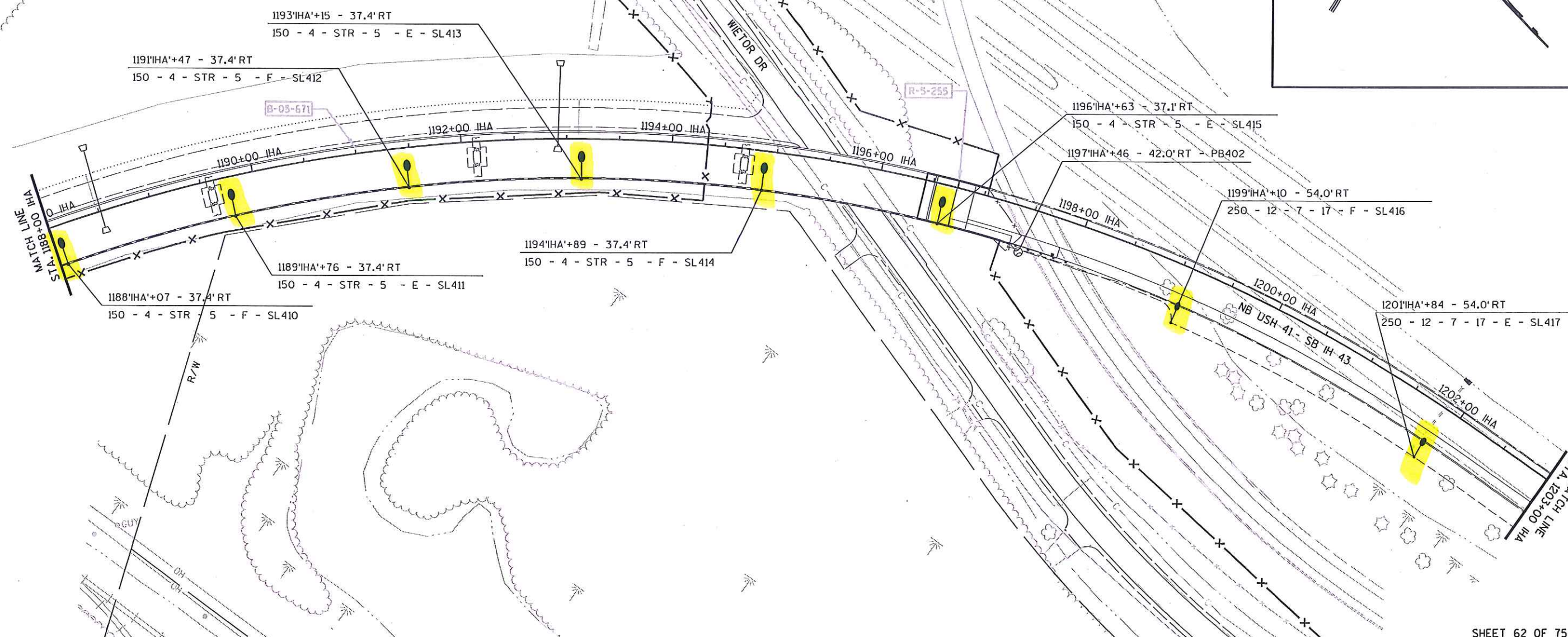
PLOT DATE : 12/15/2014

PLOT BY : KL Engineering

PLOT NAME :

PLOT SCALE :

WISDOT/CADDs SHEET 42



SHEET 62 OF 75

USH 41 & IH 43 SYSTEM INTERCHANGE
EAST LEG
HURLBUT COURT CUL DE SAC - 480V
VILLAGE OF HOWARD, BROWN COUNTY

LIGHTING NO. L05-0867

DESIGNER: KL ENGINEERING, INC.

DATE: 8-01-2014

SHEET 8 OF 11

PROJECT NO: 1133-10-77

HWY: USH 41

COUNTY: BROWN

LIGHTING PLANS

SHEET 576

E

FILE NAME : G:\WDOT\WNE30-0739\BROWN COUNTY - 02\1133-10-77 (USH 41 - IH 43-VELP)\DGN\PLAN SHEETS\023515_1p.dgn

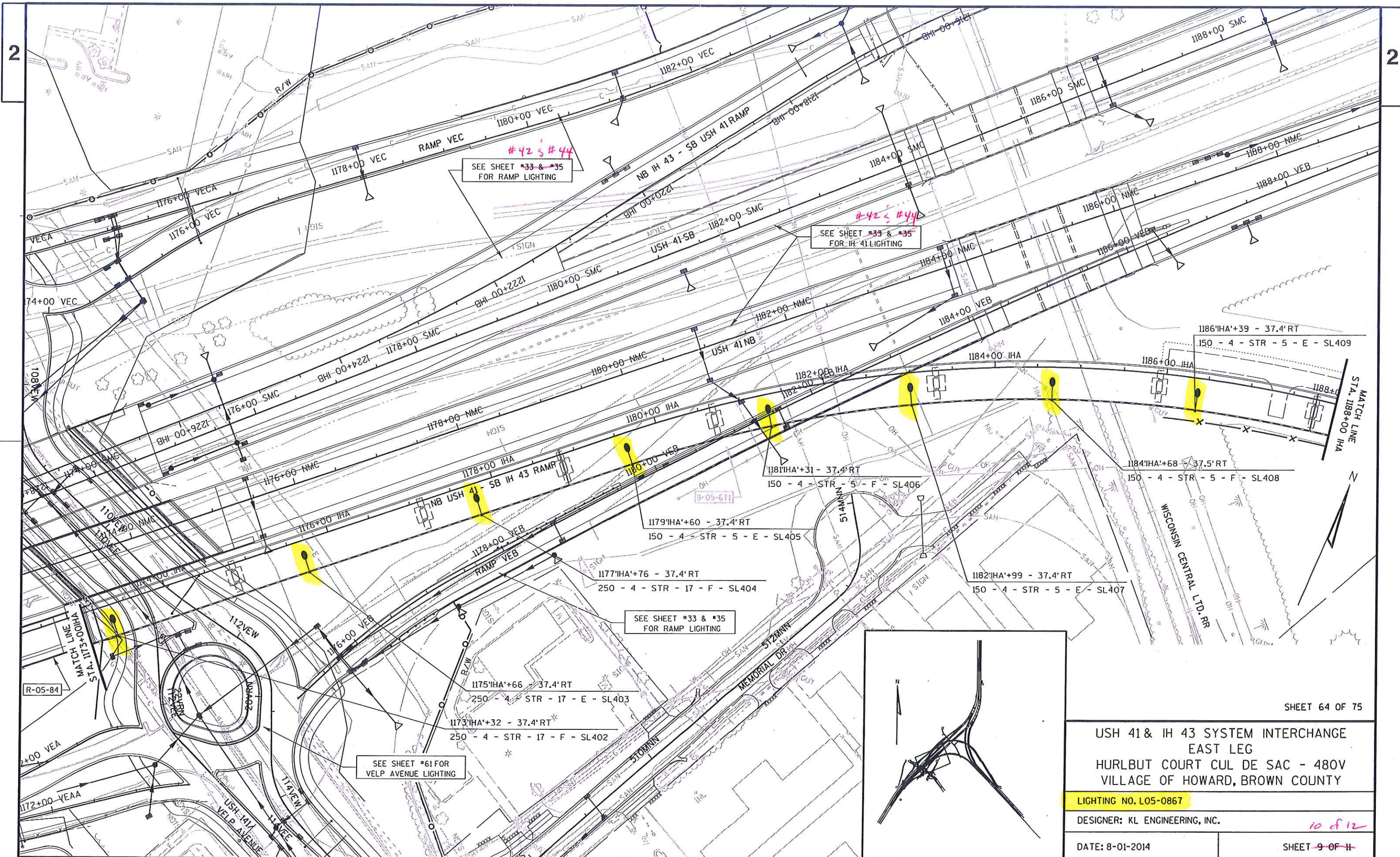
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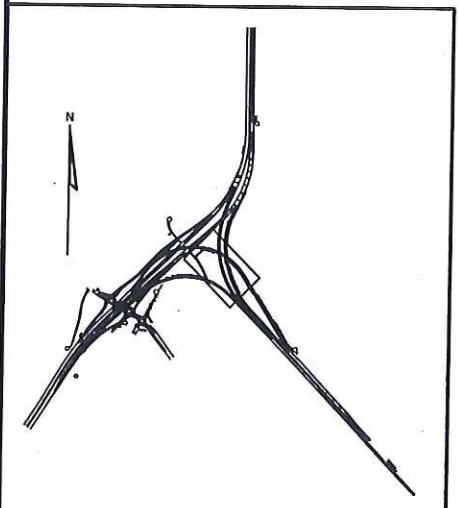
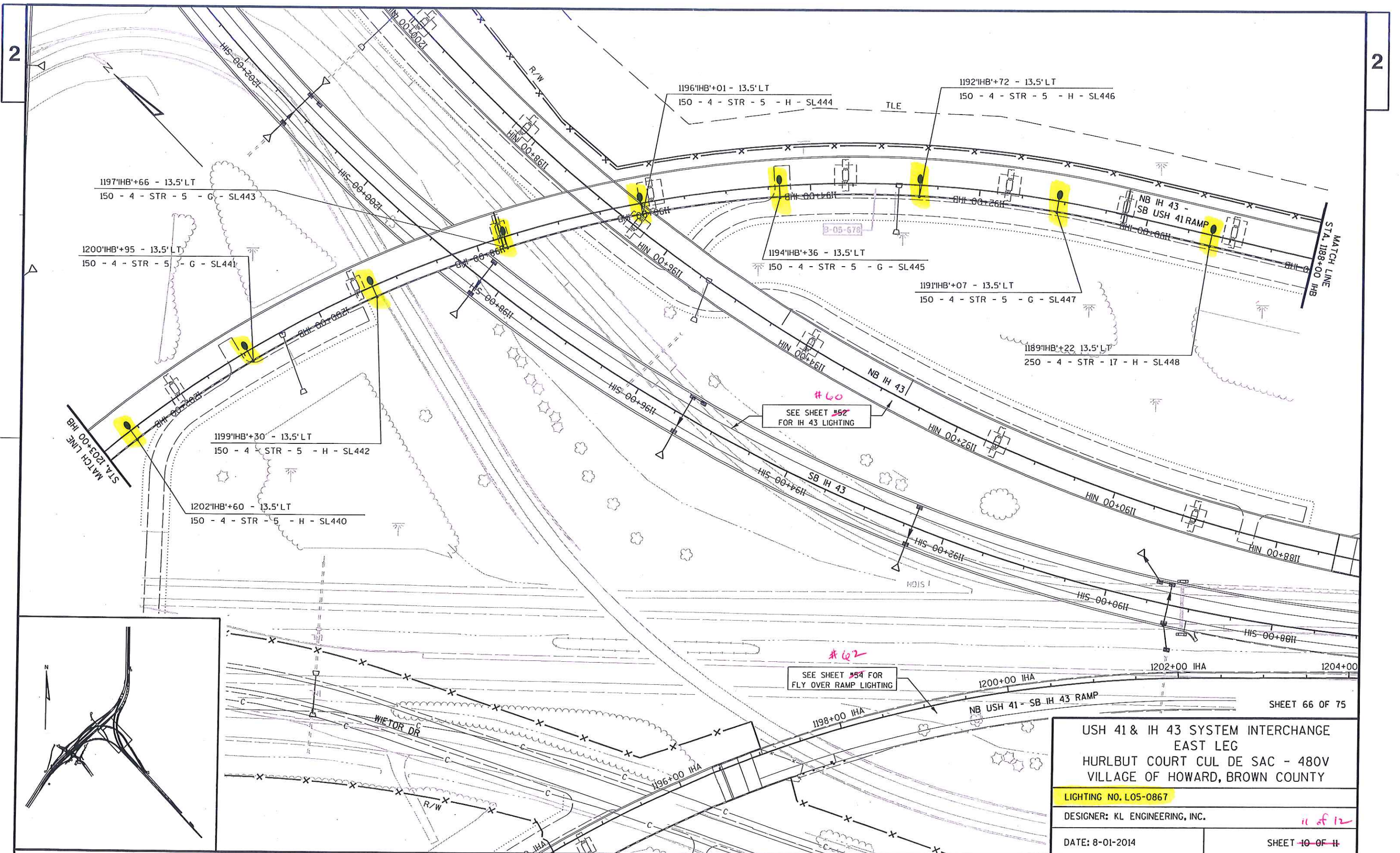
PLOT BY : KL Engineering

PLOT NAME :

PLOT SCALE :

WISDOT/CADDs SHEET 42

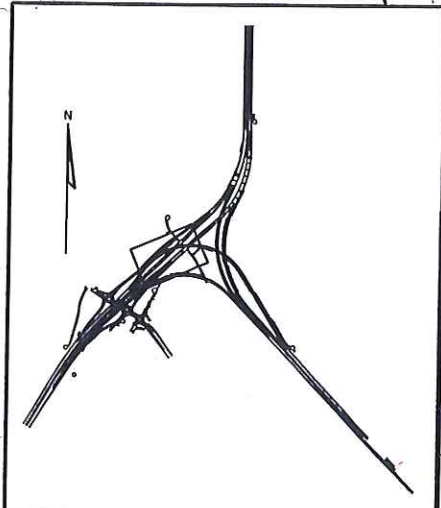
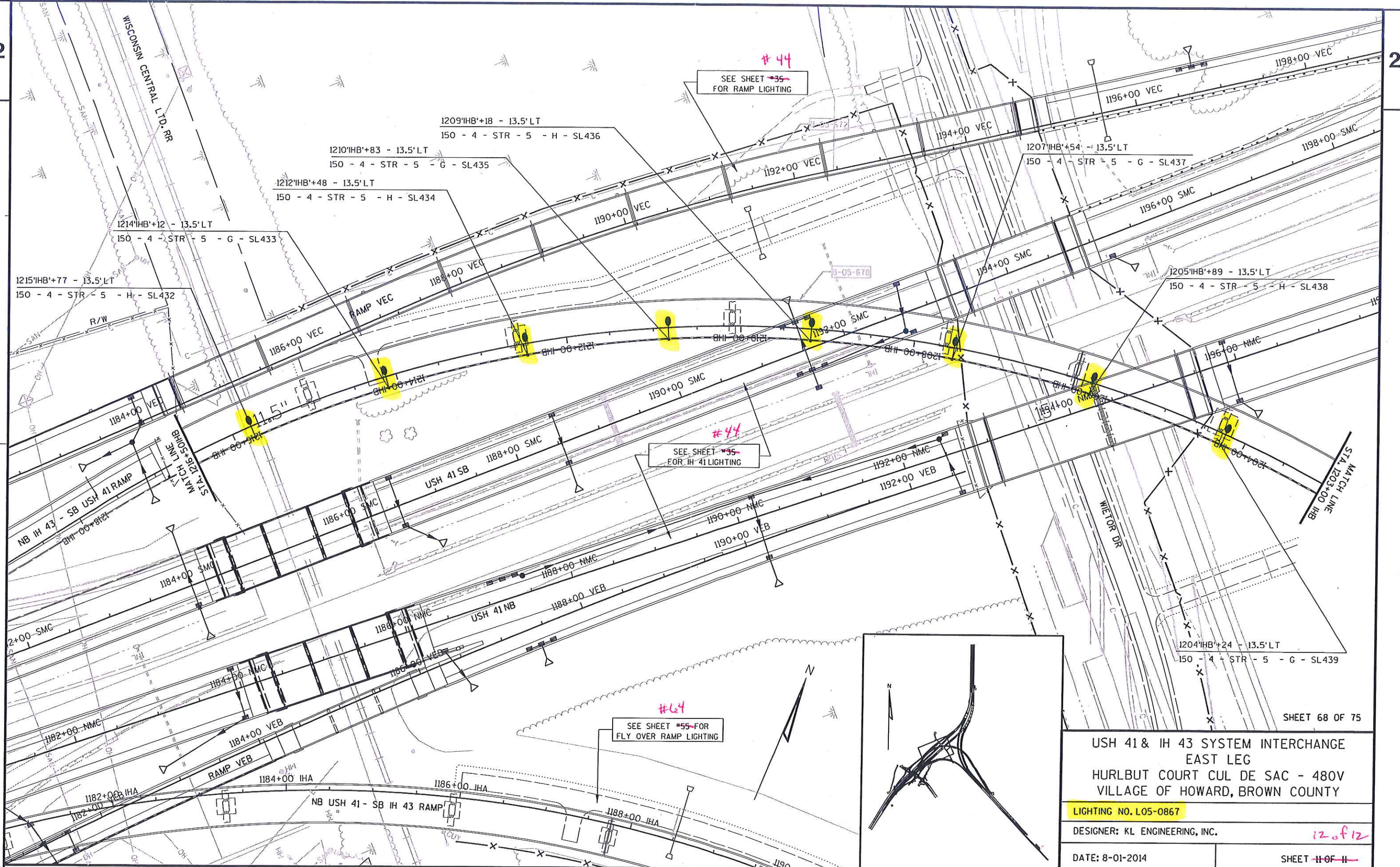




PROJECT NO: 1133-10-77	HWY: USH 41	COUNTY: BROWN	LIGHTING PLANS	SHEET 66 OF 75
USH 41 & IH 43 SYSTEM INTERCHANGE EAST LEG HURLBUT COURT CUL DE SAC - 480V VILLAGE OF HOWARD, BROWN COUNTY				
LIGHTING NO. L05-0867				
DESIGNER: KL ENGINEERING, INC.				11 of 12
DATE: 8-01-2014				SHEET 10 OF 11
SHEET 580				E

2

2



USH 41 & IH 43 SYSTEM INTERCHANGE EAST LEG HURLBUT COURT CUL DE SAC - 480V VILLAGE OF HOWARD, BROWN COUNTY	
LIGHTING NO. L05-0867	
DESIGNER: KL ENGINEERING, INC.	
DATE: 8-01-2014	SHEET 11 OF 12

2

1

A/G - BLACK
B/H - RED
C/I - BLUE
D/J - BROWN
E - ORANGE
F - YELLOW

480V PHASE TO PHASE

- L05-0850 / USH 41 & IH 43 System Interchange South Leg - Velp Avenue / Village of Howard / Brown County
- CB 200 / Northeast Quadrant of NB USH 41 Roundabout / Next to CB500 (240V)
- 240/480 Volt Single Phase / 200 Amp Service
- Main Lugs Only Meter Pedestal
- Circuit Descriptions
 - Ckt A/B - USH 41 Mainline from Velp Ave. to SB 41 Entrance Ramp & SB USH 41 Entrance Ramp
 - Ckt C/D - NB USH 41 Exit Ramp
 - Ckt E/F - SB USH 41 from Velp Ave. to Duck Creek
 - Ckt G/H - NB USH 41 from Velp Ave. to Beginning of R-05-258
 - Ckt I/J - NB USH 41 Entrance Ramp

2

A/G - BLACK
B/H - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE TO PHASE

- L05-0870 / USH 41 & IH 43 System Interchange North Leg - East Deerfield Cul-de-Sac / Village of Howard / Brown County
- CB 300 / Southeast Quadrant of East Deerfield Cul-de-Sac
- 240/480 Volt Single Phase / 200 Amp Service
- Main Lugs Only Meter Pedestal / Shared Power Source with ITS
- Circuit Descriptions
 - Ckt A/B - SB USH 41 from East Deerfield Cul-de-Sac to end of B-05-682 & NB USH 41 from East Deerfield Cul-de-Sac to end of B-05-681
 - Ckt C/D - NB IH 43 - NB USH 41 from East Deerfield Cul-de-Sac to Beginning of Flyover
 - Ckt E/F - SB USH 41 Exit Ramp from East Deerfield Cul-de-Sac to Velp Ave.
 - Ckt G/H - USH 41 Mainline from East Deerfield Cul-de-Sac to North Project Limits

3

A/G - BLACK
B/H - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE TO PHASE

- L05-0867 / USH 41 & IH 43 System Interchange East Leg - Hurlbut Court Cul-de-Sac / Village of Howard / Brown County
- CB 400 / Northeast Quadrant of Hurlbut Court Cul-de-Sac
- 240/480 Volt Single Phase / 200 Amp Service
- Main Lugs Only Meter Pedestal
- Circuit Descriptions
 - Ckt A/B - IH 43 Mainline from Hurlbut Court Cul-de-Sac to South Project Limits
 - Ckt C/D - SB USH 41 - SB IH 43 from Hurlbut Court Cul-de-Sac to End of Ramp
 - Ckt E/F - NB USH 41 - SB IH 43 from Hurlbut Court Cul-de-Sac to End of Flyover
 - Ckt G/H - NB IH 43 - SB USH 41 from Hurlbut Court Cul-de-Sac to End of Flyover

4

A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE TO PHASE

- L-866 / USH 41 & STH 29 Interchange / USH 41 Mainline, Shawano Ave. - Lone Grove Ave. / Village of Howard / Brown County
- EXCB 200 / Southwest Quadrant of Memorial Drive and Vincent Road Intersection
- 240/480 Volt Single Phase / 200 Amp Service
- Main Lugs Only Meter Pedestal
- Circuit Descriptions
 - Ckt A/B - USH 41 Mainline from Box Culvert to SB 41 Entrance Ramp from Velp Ave.
 - Ckt C/D - USH 41 NB C-D Roadway from Memorial Drive to EN Flyover
 - Ckt E/F - USH 41 SB C-D Roadway from Memorial Drive to SW System Ramp

1

A - BLACK
B - RED
C - BLUE
D - BROWN

240V PHASE TO PHASE

- L0826 / USH 41 & Velp Avenue Interchange - Roundabout Lighting / Village of Howard / Brown County
- CB 500 / Northeast Quadrant of NB USH 41 Roundabout / Next to CB200 (480V)
- 120/240 Volt Single Phase / 200 Amp Service
- Meter Breaker Pedestal / Shared Power Source with ITS
- Circuit Descriptions
 - Ckt A/B - North Side of NB and SB Roundabout / R-05-235 Underdeck
 - Ckt C/D - South Side of NB and SB Roundabout / R-05-234 Underdeck

WISDOT SYSTEMS

1

A - BLACK
B - RED
C - BLUE
D - BROWN

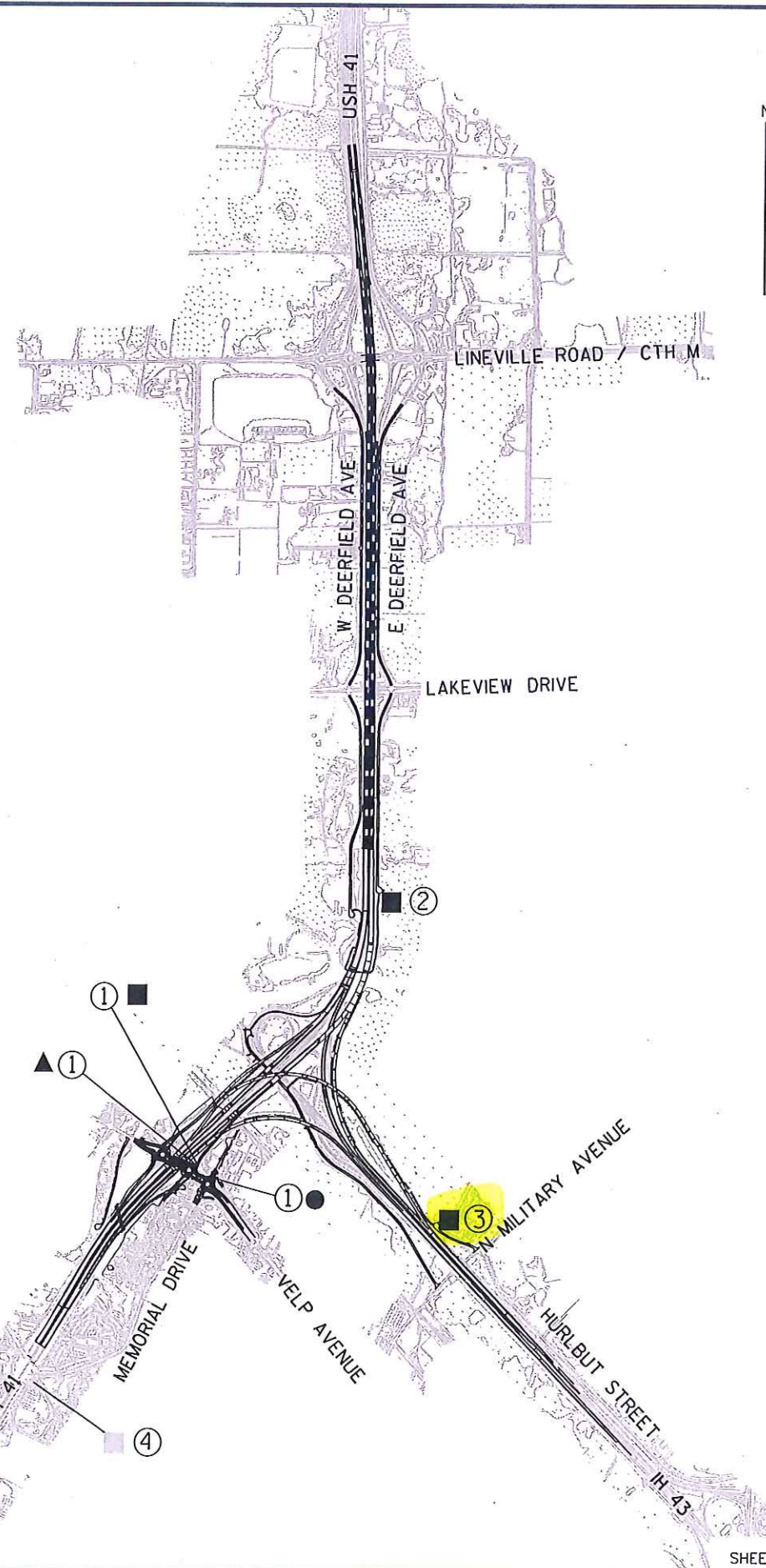
240V PHASE TO PHASE

E - BLUE
F - BROWN
G - BLACK
H - RED

120V PHASE TO PHASE

- CB 600 / Memorial Drive Roundabout Lighting
- 120/240 Volt Single Phase / 200 Amp Service
- Electrical Service Meter Breaker Pedestal Special
- Village of Howard / Brown County
- Circuit Descriptions
 - Ckt A/B - Street Lights (240V) North and East Sides of Roundabout
 - Ckt C/D - Street Lights (240V) South and West Sides of Roundabout
 - Ckt E/F - Receptacles (120V) North and East Sides of Roundabout
 - Ckt G/H - Receptacles (120V) South and West Sides of Roundabout

NON-WISDOT SYSTEMS



2