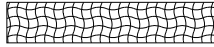






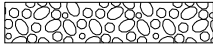
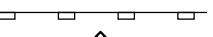


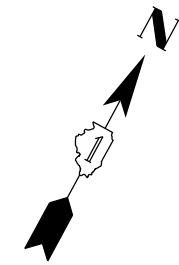


EROSION CONTROL LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
-  TEMPORARY EROSION CONTROL BLANKET
-  TEMPORARY FENCE; TREE TRUNK PROTECTION
-  TREE ROOT PRUNING; TREE PRUNING
-  MULCH PLACEMENT 4'; SUPPLEMENTAL WATERING
-  TEMPORARY FENCE
-  STONE RIPRAP, CLASS A4

-  STONE RIPRAP, CLASS A5
-  PERIMETER EROSION BARRIER
-  INLET FILTERS
-  TEMPORARY DITCH CHECKS



MATCHLINE STA. 601+50

WETLAND

ELGIN-O'HARE ENTRANCE RAMP

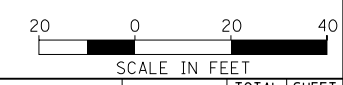
MATCHLINE

603

604

605+00

606



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USER NAME = JasonM	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
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PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

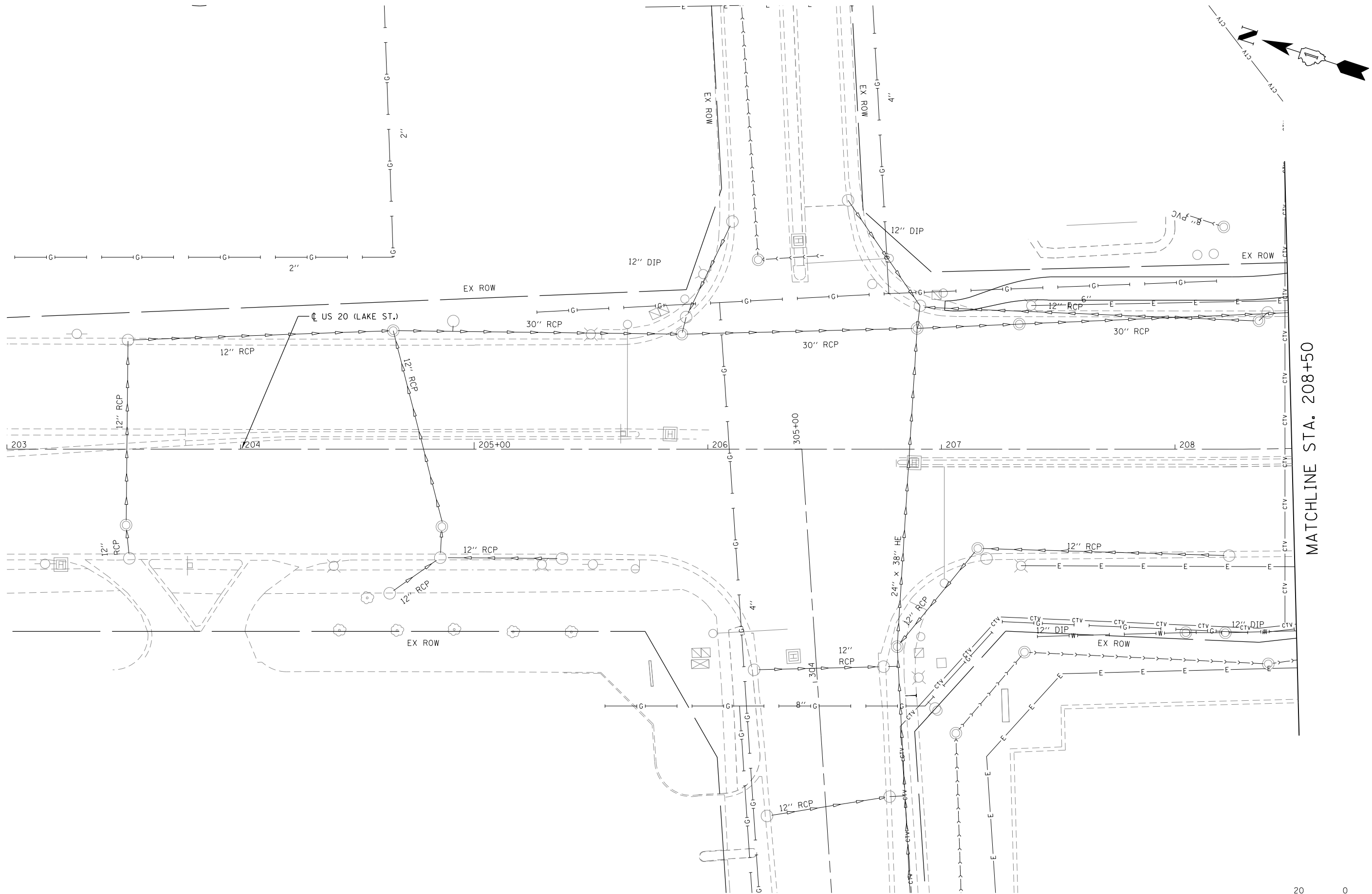
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
EROSION & SEDIMENT CONTROL PLAN**

SCALE: 1"=20' SHEET 8 OF 8 SHEETS STA. 601+50 TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	101
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

M:\US 20 OVER WEST BRANCH DUPAGE 12-154-903\DESIGN\CIVIL\CADD_Sheets\US20_Drain_01.dgn



MATCHLINE STA. 208+50



USER NAME = JasonM	DESIGNED - BCB	REVISED -
PLLOT SCALE = 1"=20'	DRAWN - BCB	REVISED -
PLLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

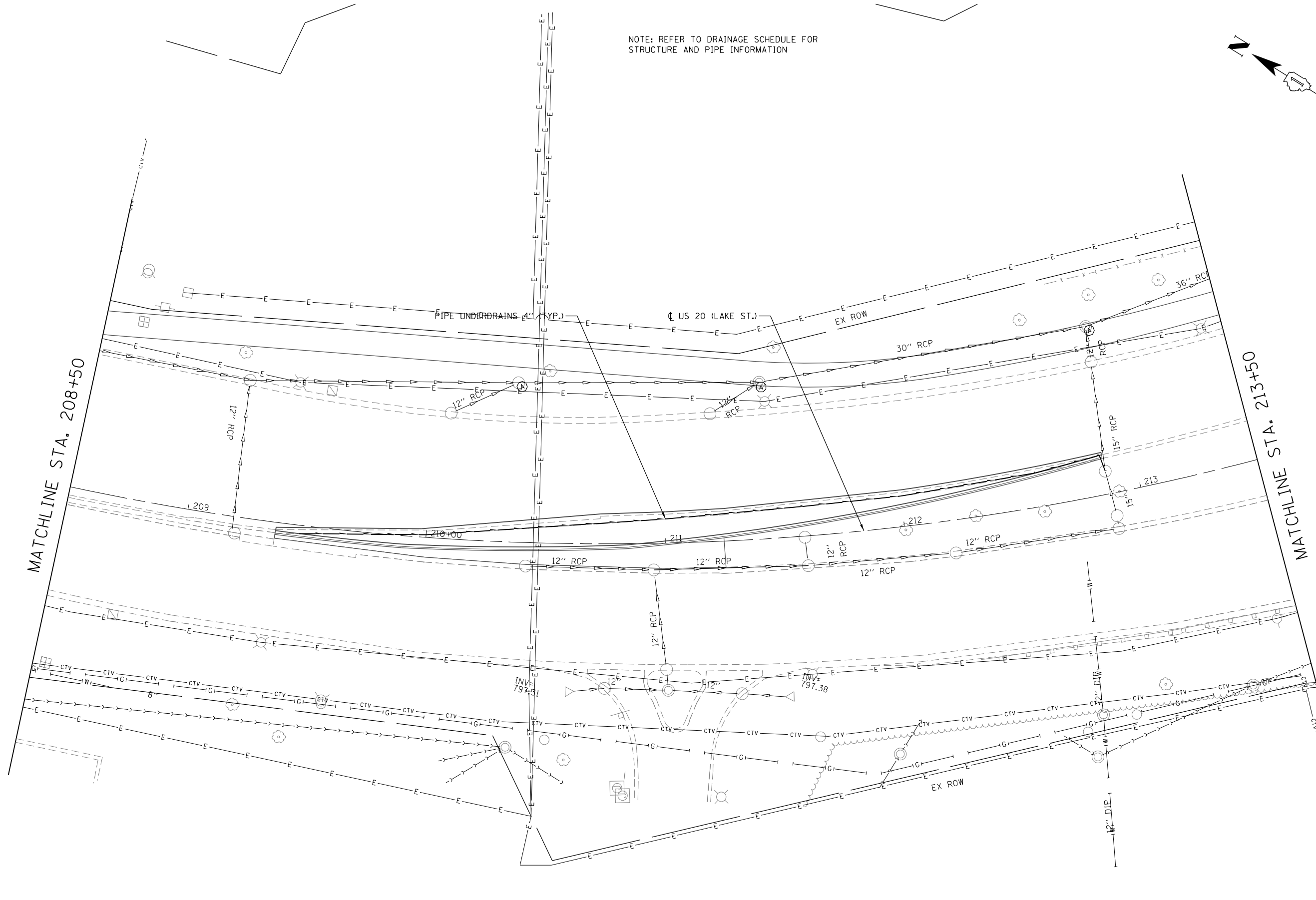
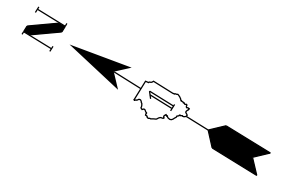
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN**

SCALE: 1"=20' SHEET 1 OF 8 SHEETS STA. N/A TO STA. 208+50

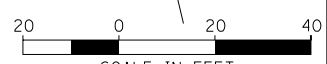
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CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

NOTE: REFER TO DRAINAGE SCHEDULE FOR
STRUCTURE AND PIPE INFORMATION



MATCHLINE STA. 208+50

MATCHLINE STA. 213+50



SCALE IN FEET

M:\US 20 OVER WEST BRANCH DUPAGE 112-154-903\DESIGN\CIVIL\CADD_Sheets\US20_Drain_82.dgn
Dr Paul



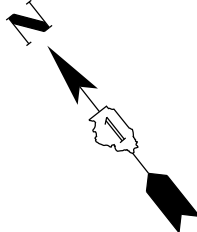
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DRAWN - BCB	REVISOR -	
CHECKED - LVA	REVISOR -	
DATE - 5/8/2015	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN**

SCALE: 1"=20' SHEET 2 OF 8 SHEETS STA. 208+50 TO STA. 213+50

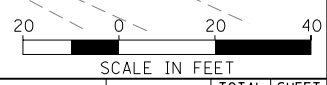
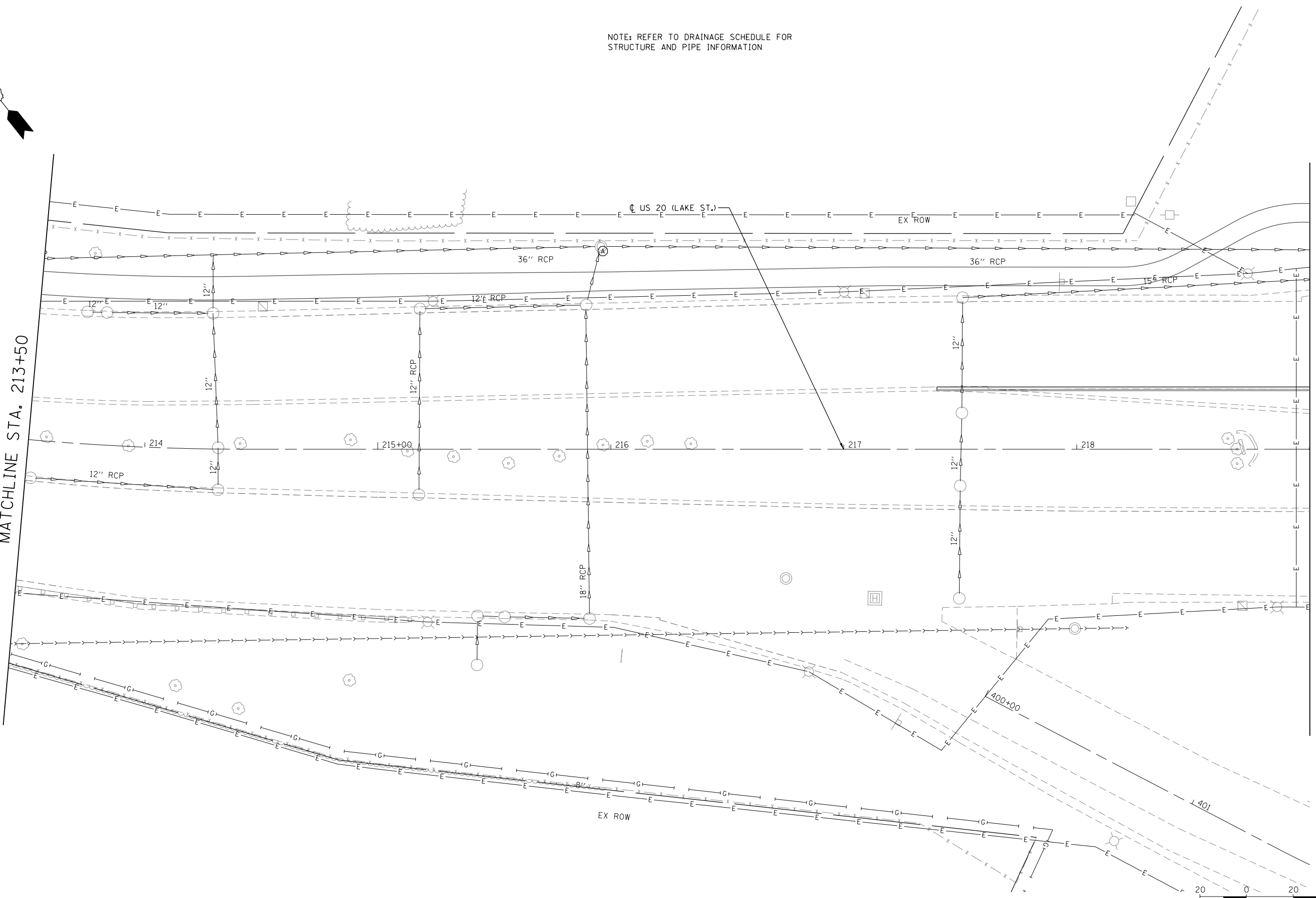
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	103
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



NOTE: REFER TO DRAINAGE SCHEDULE FOR
STRUCTURE AND PIPE INFORMATION

MATCHLINE STA. 213+50

MATCHLINE STA. 219+00



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USER NAME = JasonM	DESIGNED - BCB	REVISED -
DRAWN - BCB	REVISIONS -	
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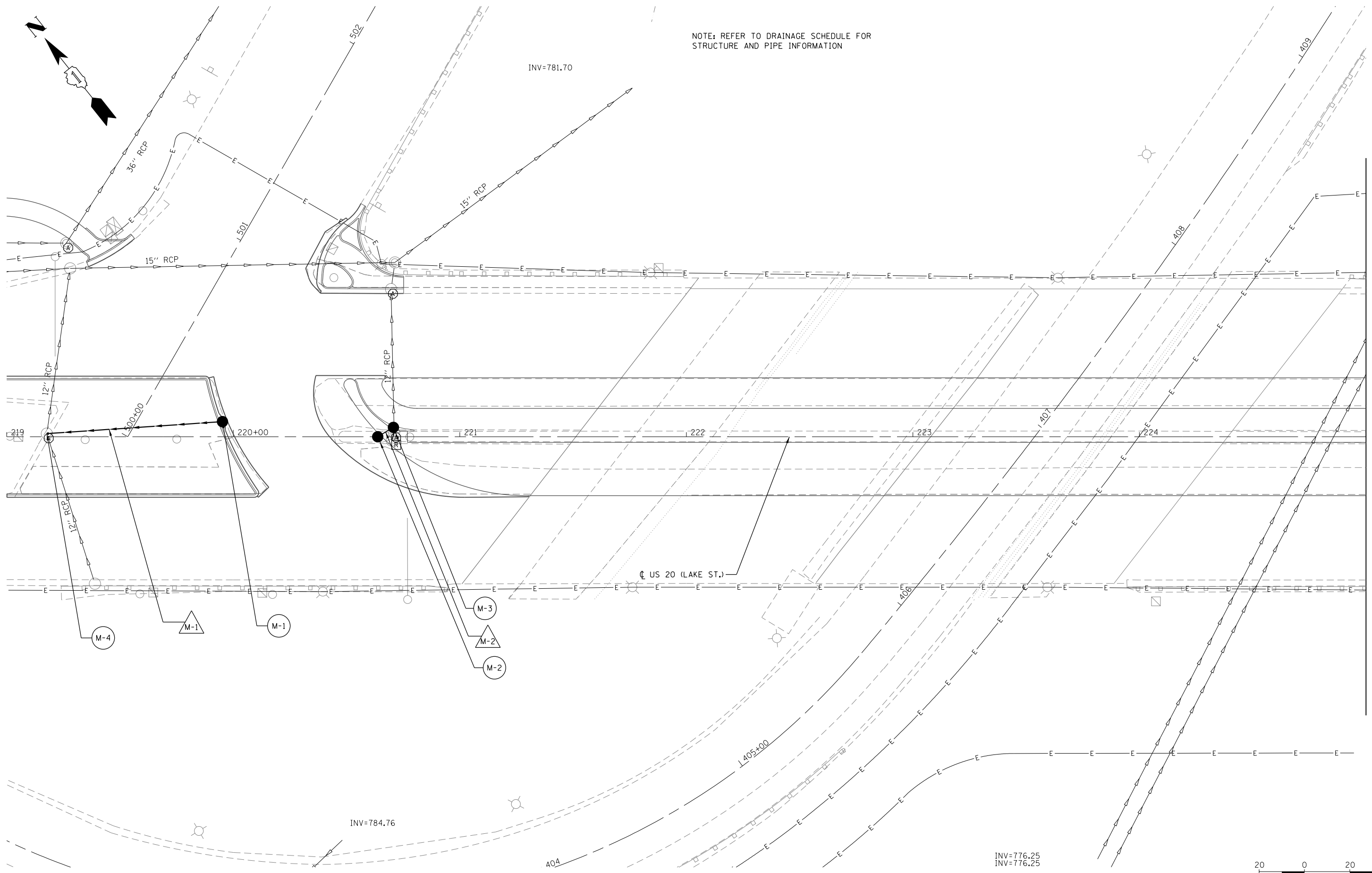
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	104
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET 3 OF 8 SHEETS STA. 213+50 TO STA. 219+00

NOTE: REFER TO DRAINAGE SCHEDULE FOR
STRUCTURE AND PIPE INFORMATION



MATCHLINE STA. 225+00

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USER NAME = JasonM	DESIGNED - BCB	REVISED -
PLOT SCALE = 1"=20'	DRAWN - BCB	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN

SCALE: 1"=20' SHEET 4 OF 8 SHEETS STA. 219+00 TO STA. 225+00

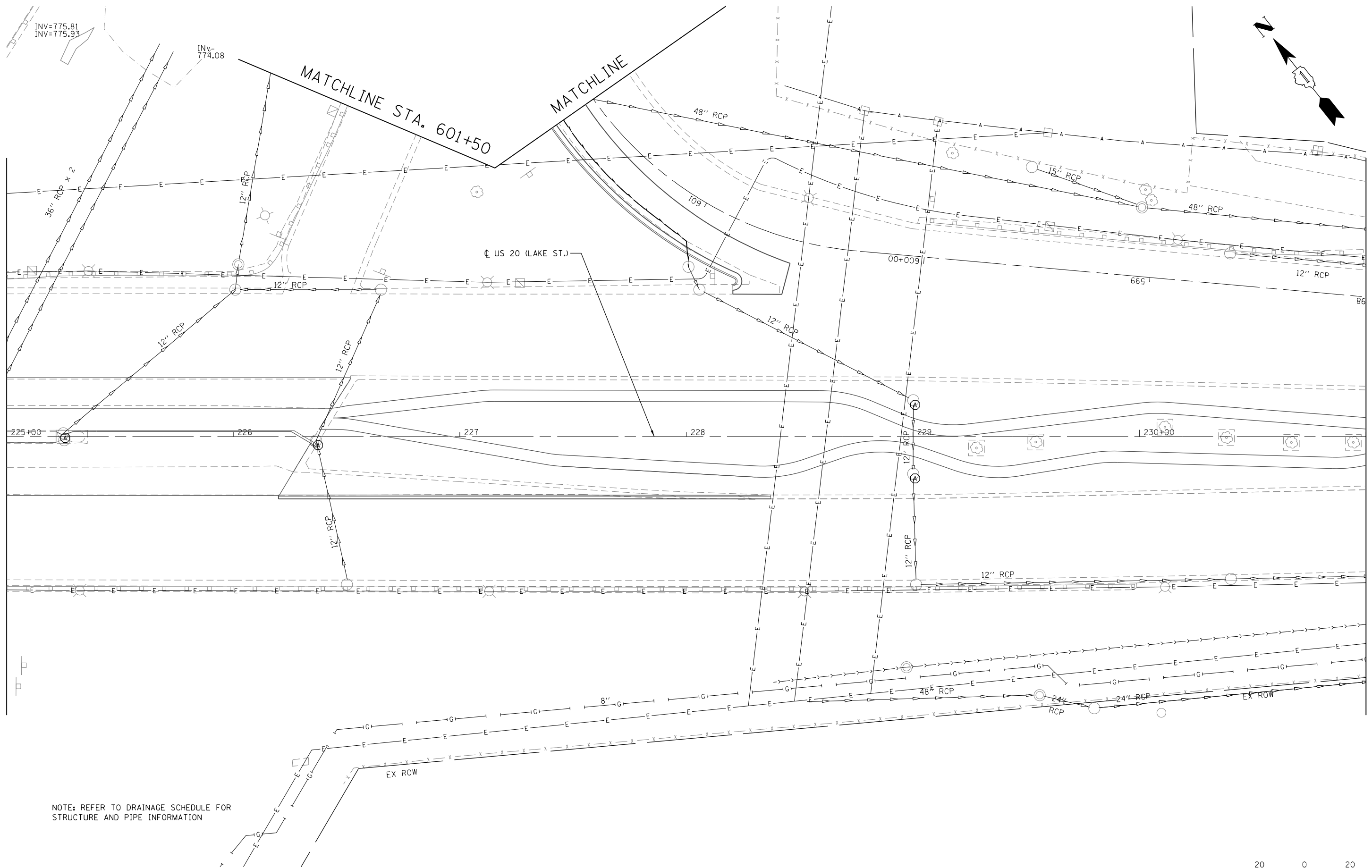
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345	6Y-TS&N(13)	DUPAGE	209	105
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	



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MATCHLINE STA. 225+00

MATCHLINE STA. 231+00



INV=775.81
INV=775.93

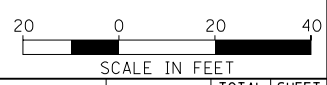
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MATCHLINE STA. 601+50

MATCHLINE

US 20 (LAKE ST.)

NOTE: REFER TO DRAINAGE SCHEDULE FOR STRUCTURE AND PIPE INFORMATION



USER NAME = JasonM	DESIGNED - BCB	REVISED -
	DRAWN - BCB	REVISED -
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

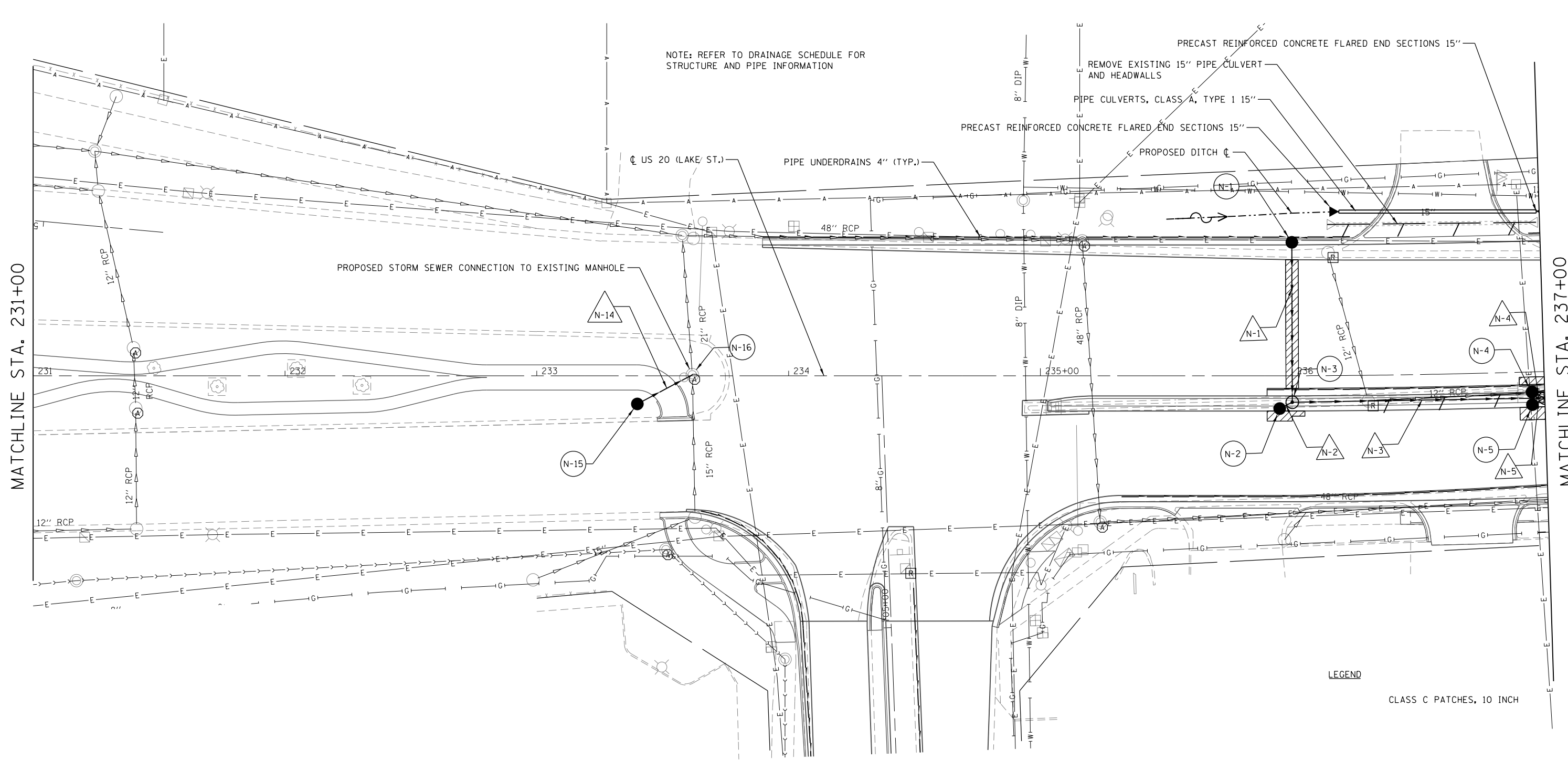
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN**

SCALE: 1"=20' SHEET 5 OF 8 SHEETS STA. 225+00 TO STA. 231+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	106
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

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MATCHLINE STA. 231+00

MATCHLINE STA. 237+00

NOTE: REFER TO DRAINAGE SCHEDULE FOR STRUCTURE AND PIPE INFORMATION

REMOVE EXISTING 15" PIPE CULVERT AND HEADWALLS
 PIPE CULVERTS, CLASS A, TYPE 1 15"
 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"

PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE

LEGEND
 CLASS C PATCHES, 10 INCH



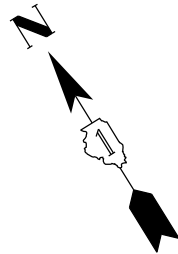
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DRAWN - BCB	REVISIONS -	
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PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

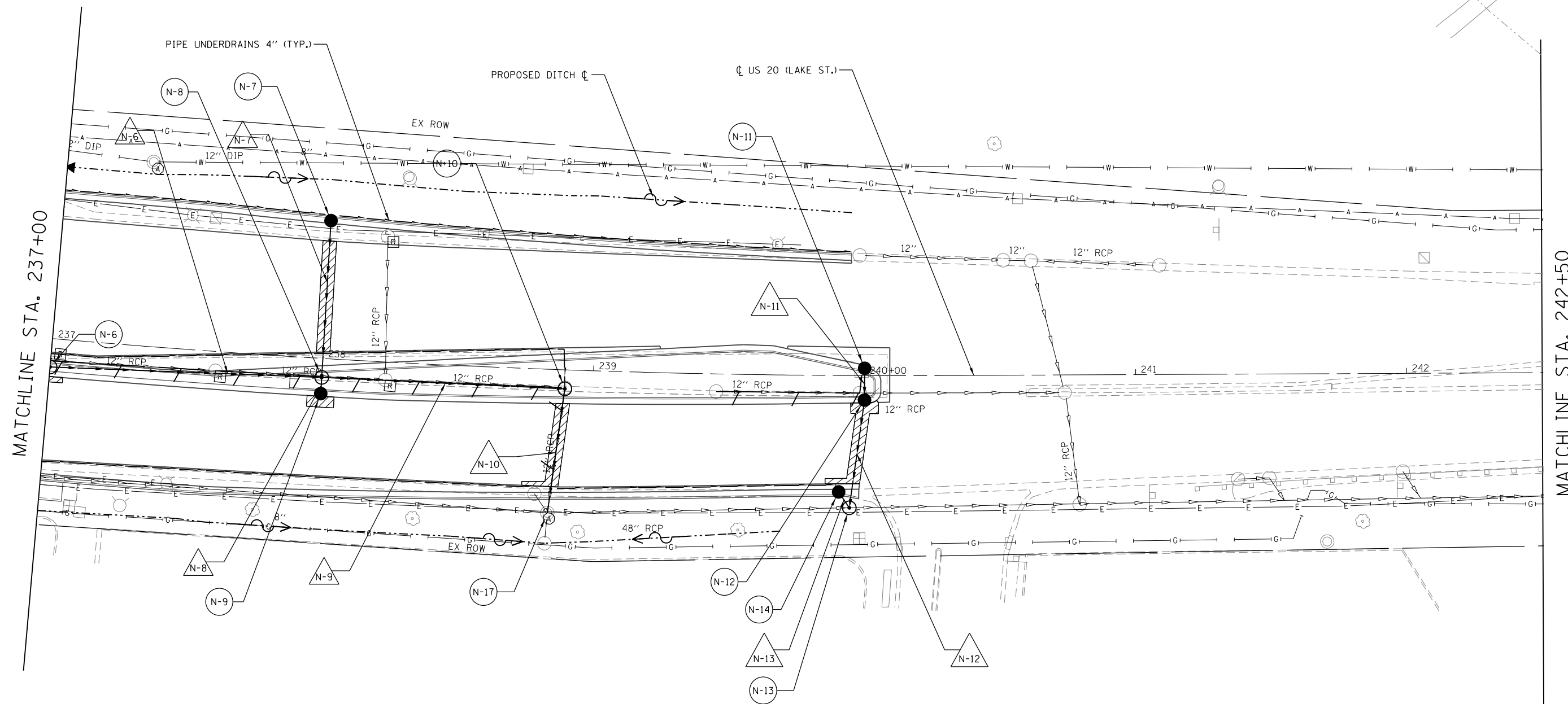
**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
 DRAINAGE PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	107
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

SCALE: 1"=20' SHEET 6 OF 8 SHEETS STA. 231+00 TO STA. 237+00



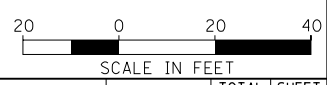
NOTE: REFER TO DRAINAGE SCHEDULE FOR
STRUCTURE AND PIPE INFORMATION



MATCHLINE STA. 237+00

MATCHLINE STA. 242+50

LEGEND
CLASS C PATCHES, 10 INCH



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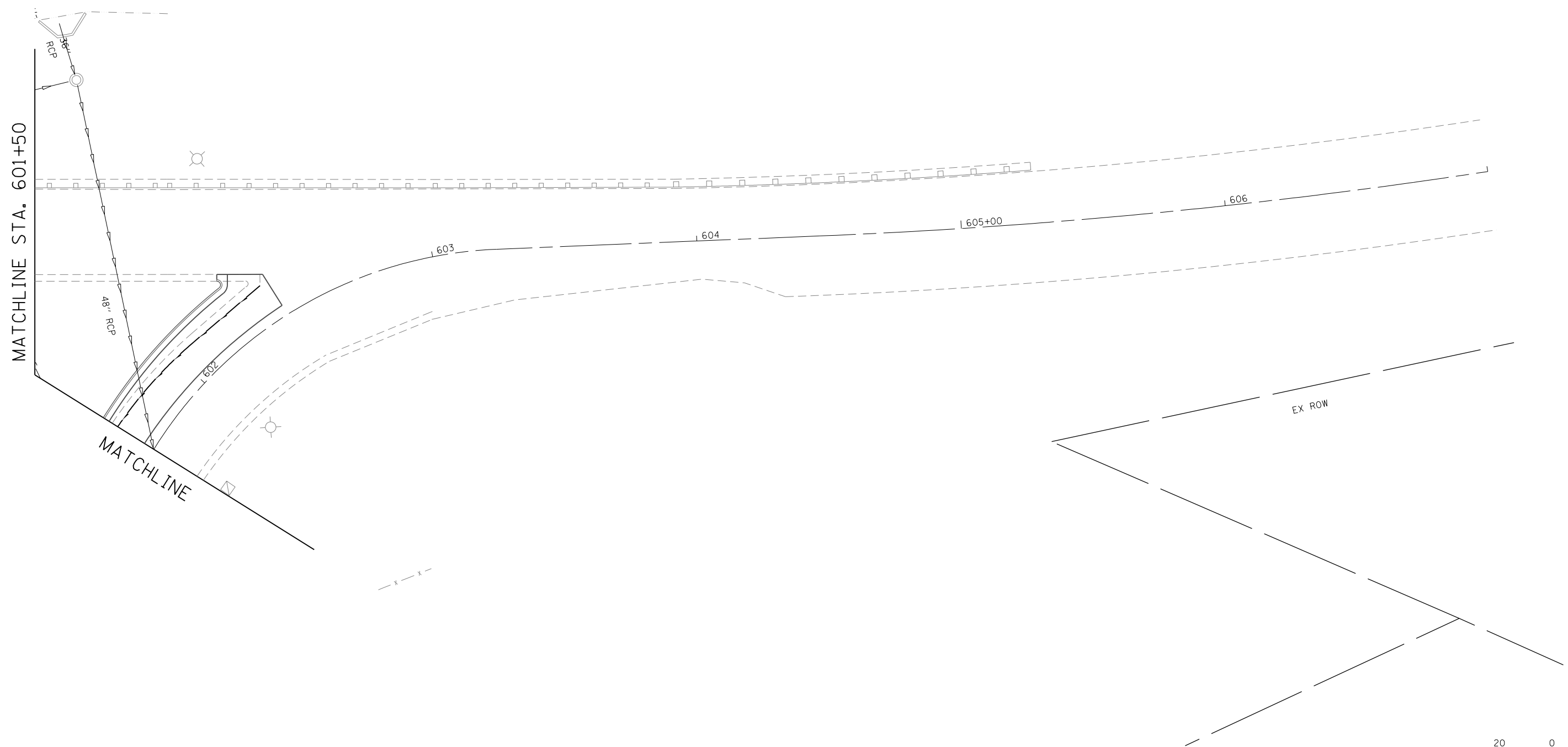
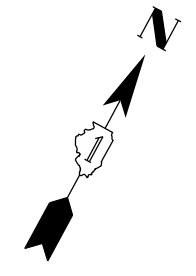
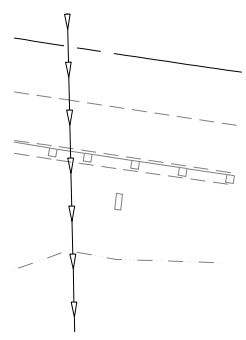
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DRAWN - BCB	REVISED -	
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PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN**

SCALE: 1"=20' SHEET 7 OF 8 SHEETS STA. 237+00 TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	108
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



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USER NAME = JasonM	DESIGNED - BCB	REVISED -
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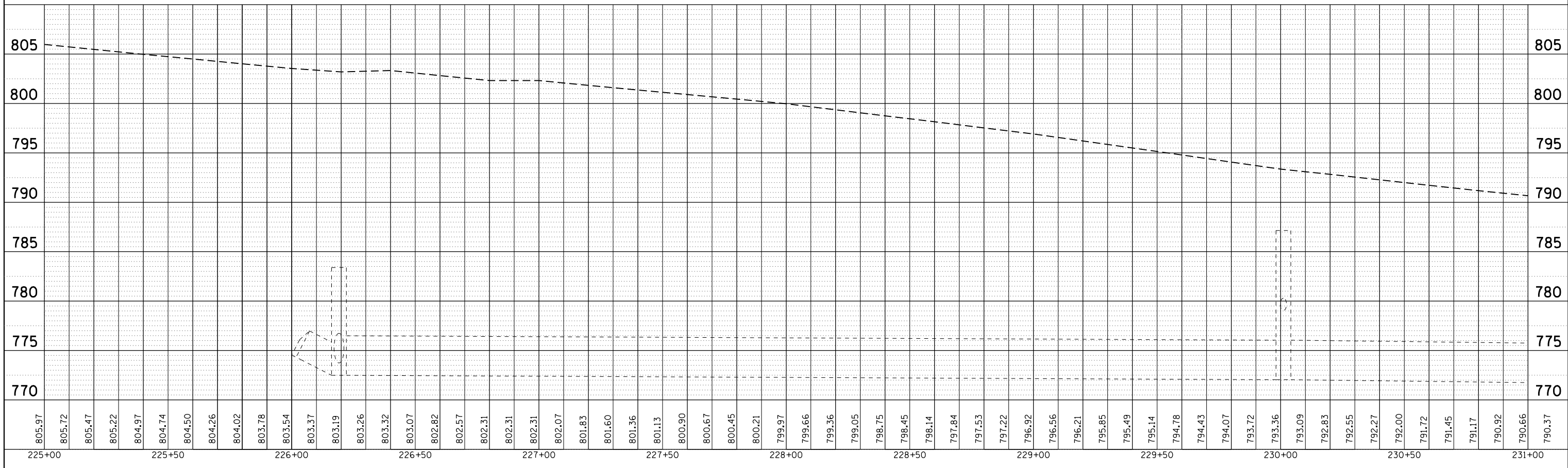
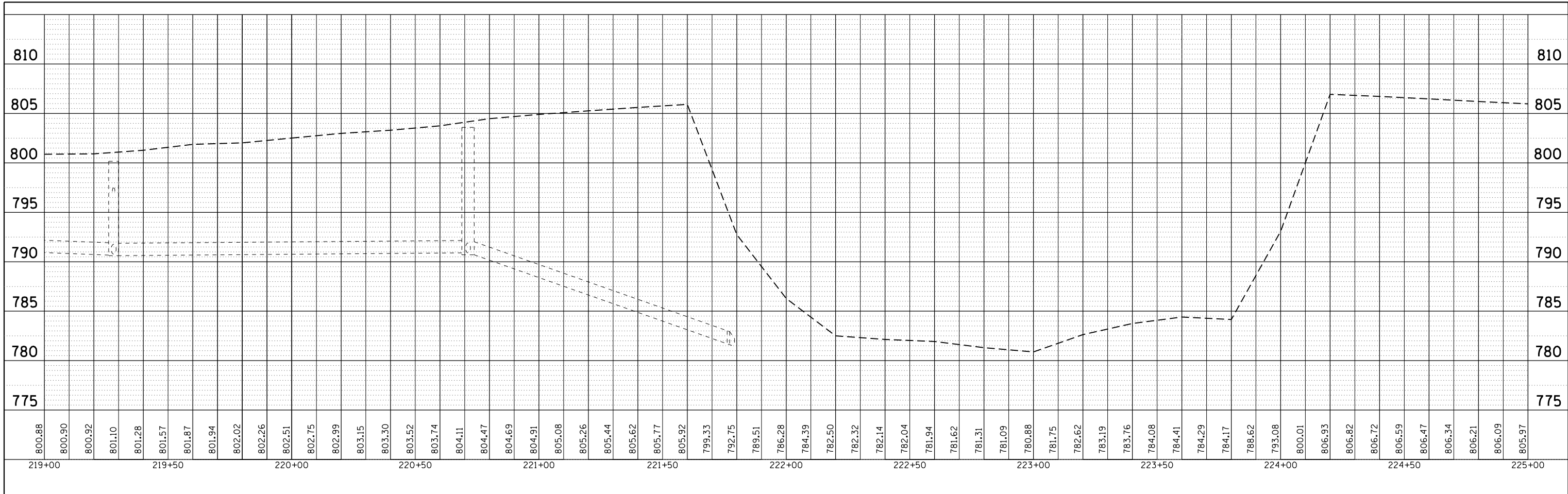
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
DRAINAGE PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	109
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET 8 OF 8 SHEETS STA. 601+50 TO STA. N/A

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 Date: 5/8/2015



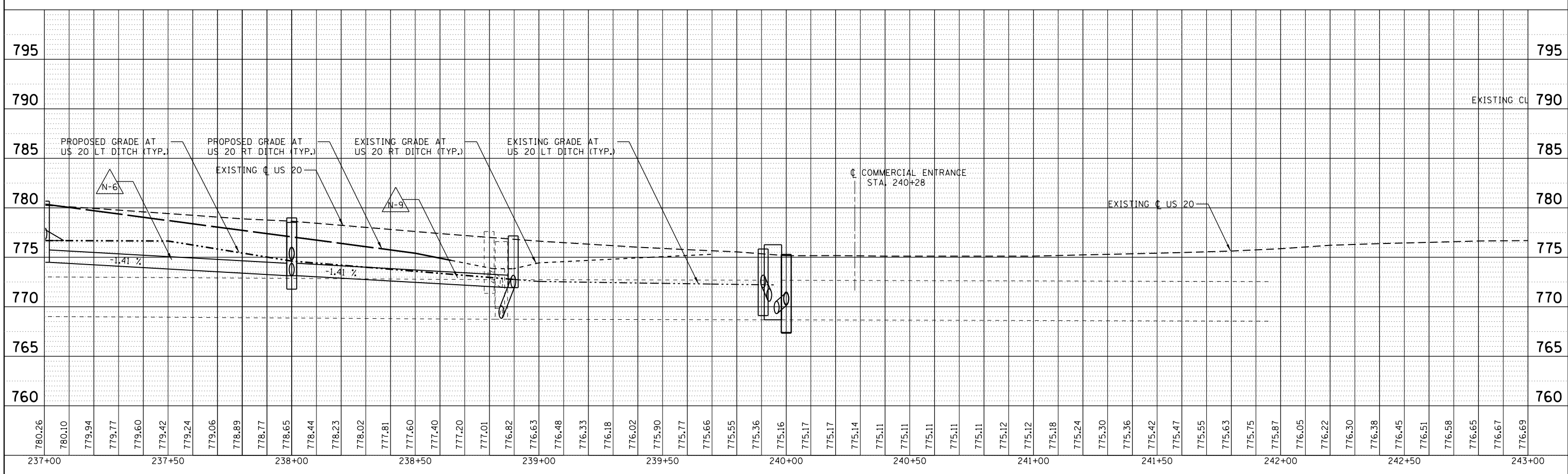
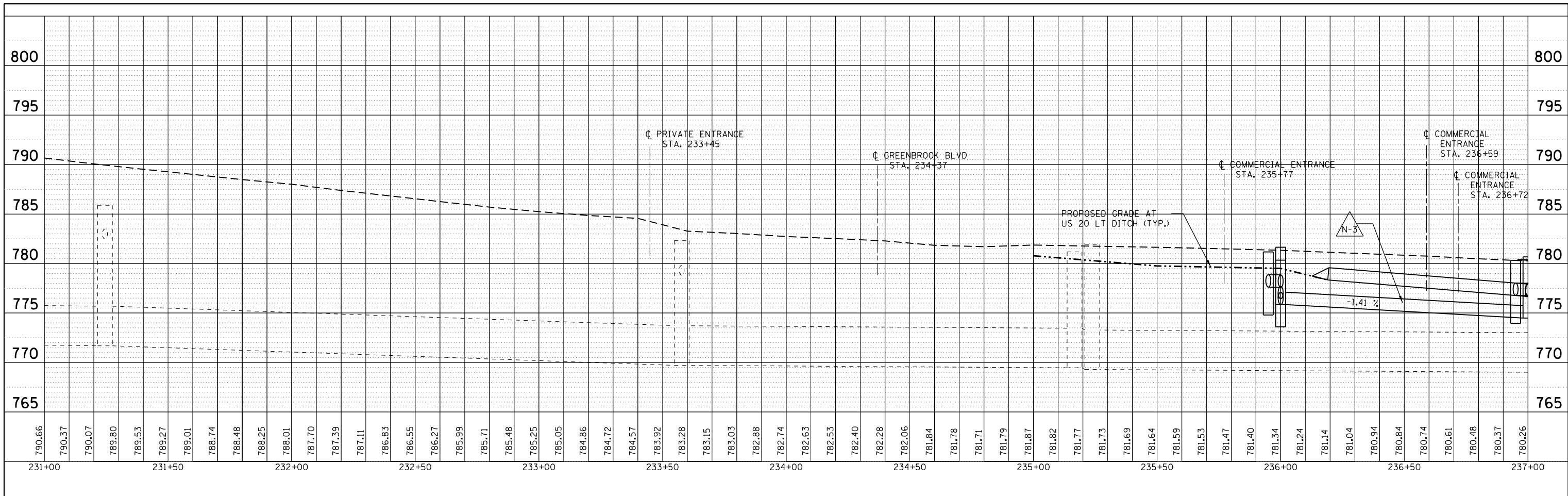
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PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PROPOSED DRAIN PROFILE

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 219+00 TO STA. 231+00

F.A. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 110
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	



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 Dr Paul



USER NAME = JasonM	DESIGNED - BCB	REVISED -
PLOT SCALE = 1"=20'	DRAWN - BCB	REVISED -
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	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PROPOSED DRAIN PROFILE

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 231+00 TO STA. 243+00

F.A. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 111
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURE DATA

STRUCTURE NO.	STATION	OFFSET	DIRECTION	DESCRIPTION	F&G	RIM ELEVATION	NORTH	NORTHEAST	NORTHWEST	SOUTH	SOUTHEAST	SOUTHWEST	EAST	WEST
N-1	236+00.00	53.00	LT	4' DIA CB, TY A	T24	780.34				776.44				
N-2	235+95.00	13.00	RT	4' DIA CB, TY A	T24	781.18		777.63						
N-3	236+00.00	10.50	RT	4' DIA MH, TY A	T1F, CL	781.65	775.85					777.60	775.85	
N-4	236+95.00	8.00	RT	4' DIA CB, TY A	T23	780.27					776.78			
N-5	236+95.00	13.00	RT	4' DIA CB, TY A	T24	780.33		776.78						
N-6	237+00.00	10.50	RT	4' DIA MH, TY A	T1F, CL	780.67			776.75			776.75	774.49	774.49
N-7	238+00.00	50.95	LT	4' DIA CB, TY A	T24	777.43				773.68				
N-8	238+00.00	7.00	RT	4' DIA MH, TY A	T1F, CL	778.98	773.14			774.75			773.14	773.14
N-9	238+00.00	13.00	RT	4' DIA CB, TY A	T24	778.52	774.77							
N-10	238+89.62	7.00	RT	4' DIA MH, TY A	T1F, CL	777.16				771.93				771.93
N-11	240+00.00	2.71	LT	4' DIA CB, TY A	T24	775.29				770.24				
N-12	240+00.00	9.02	RT	4' DIA CB, TY A	T24	775.19	770.17			770.17				
N-13	239+94.62	48.81	RT	7' DIA MH, TY A	T1F, CL	776.28		768.81	770.47				768.69	768.68
N-14	239+90.70	43.00	RT	4' DIA CB, TY A	T24	775.85					770.52			
N-15	233+39.93	11.15	RT	4' DIA CB, TY A	T8	783.65		779.80						
N-16	233+61.79	0.43	LT	EXISTING MH	N/A	(782.84)		(771.84)				(771.84)		778.98
N-17	238+84.82	53.00	RT	EXISTING MH	N/A	(776.59)	768.84					(768.84)	(768.74)	(768.74)
M-1	219+95.24	6.67	LT	4' DIA CB, TY A	T23	802.40			793.74					
M-2	220+63.79	0.00	--	4' DIA CB, TY A	T24	803.95							799.65	
M-3	220+70.69	4.14	LT	4' DIA CB, TY A	T24	803.78		799.53						799.60
M-4	219+17.71	1.37	LT	EXISTING CB	N/A	(800.68)		(790.98)			793.00	(791.18)		

DRAINAGE PIPE DATA

PIPE NO.	DIAMETER (IN)	CLASS	TYPE	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CY)	FROM	TO
N-1	15	A	2	60	0.98	10.59	N-1	N-3
N-2	15	A	2	2	1.50	1.00	N-2	N-3
N-3	15	A	2	97	1.40	34.87	N-3	N-6
N-4	15	A	2	2	1.50	1.00	N-4	N-6
N-5	15	A	2	2	1.50	1.00	N-5	N-6
N-6	15	A	2	97	1.39	35.18	N-6	N-8
N-7	15	A	2	54	1.00	9.06	N-7	N-8
N-8	15	A	2	2	1.00	1.00	N-9	N-8
N-9	15	A	2	86	1.41	24.64	N-8	N-10
N-10	15	A	2	45	6.87	19.79	N-10	N-17
N-11	15	A	2	8	0.88	1.65	N-11	N-12
N-12	15	A	2	35	3.89	14.04	N-12	N-13
N-13	15	A	2	2	2.50	1.00	N-14	N-13
N-14	15	A	2	21	3.90	1.00	N-15	N-16
M-1	12	A	2	74	1.00	55.46	M-1	M-4
M-2	12	A	2	4	1.25	1.00	M-2	M-3

NOTE:
 ALL PIPE UNDERDRAINS SHALL BE PLACED AT A DEPTH OF 30" BELOW THE TOP OF PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE AND IN ACCORDANCE WITH CHECK SHEET # 19 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE UNDERDRAINS.

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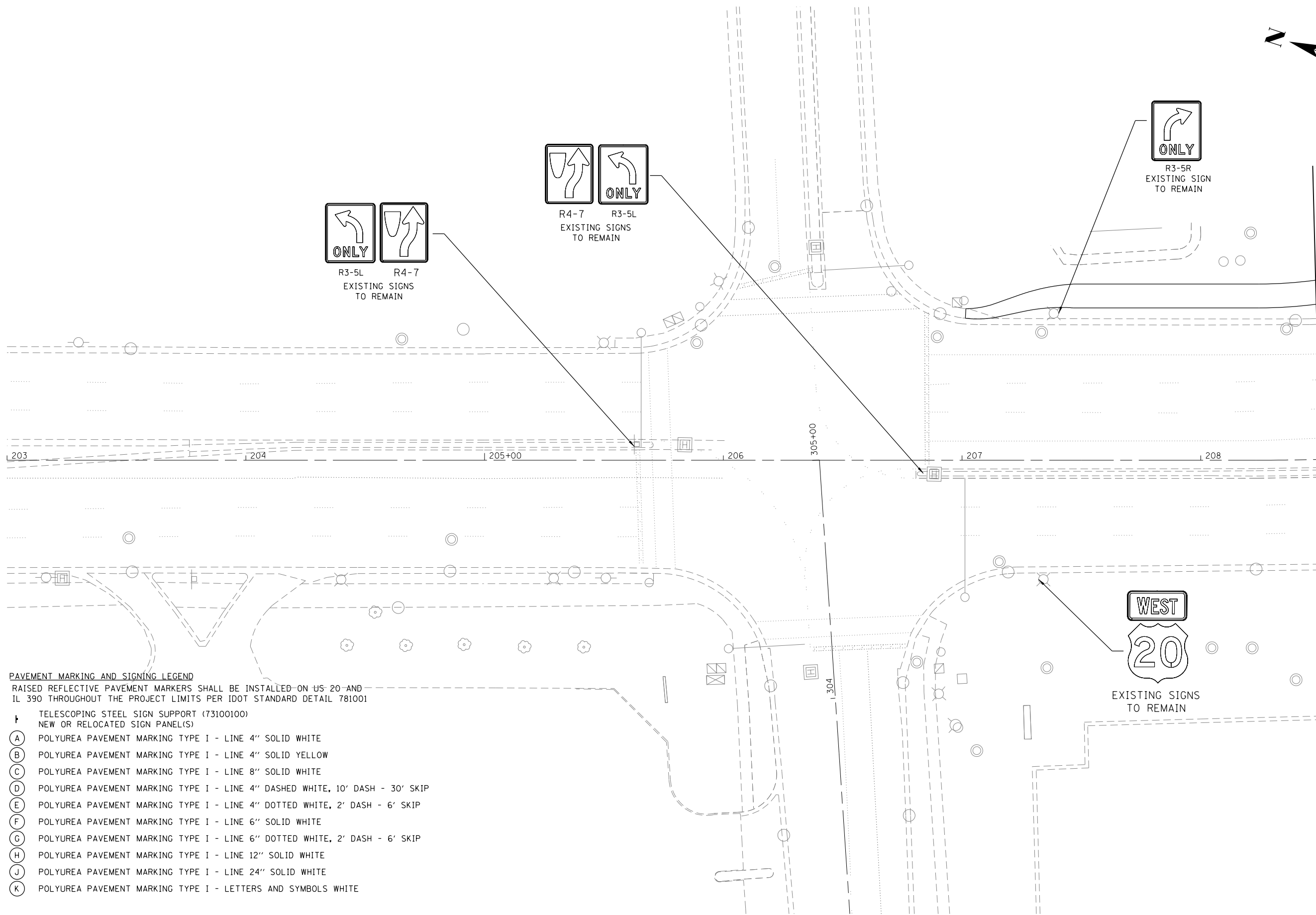
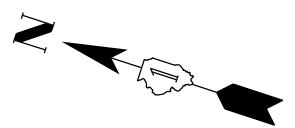
USER NAME = JasonM	DESIGNED - BCB	REVISED -
	DRAWN - BCB	REVISED -
PLOT SCALE = N/A	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
 DRAINAGE SCHEDULE**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	112
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	



MATCHLINE STA. 208+50

- PAVEMENT MARKING AND SIGNING LEGEND**
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001
- † TELESCOPING STEEL SIGN SUPPORT (73100100)
NEW OR RELOCATED SIGN PANEL(S)
 - (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
 - (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
 - (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
 - (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
 - (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
 - (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
 - (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
 - (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
 - (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
 - (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



M:\US 20 OVER WEST BRANCH DUPAGE 12-154-903\DESIGN\CIVIL\CADD Sheets\US20_MarkSign.dgn



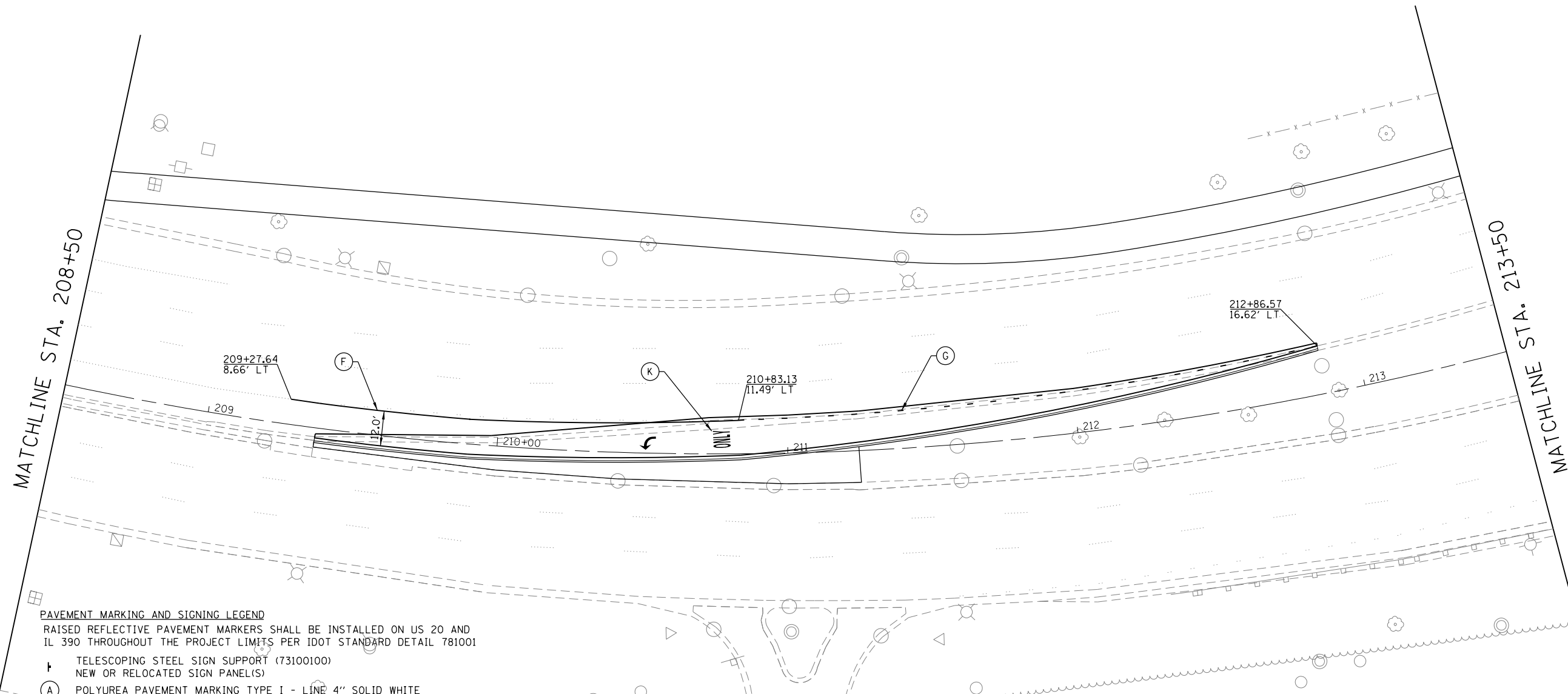
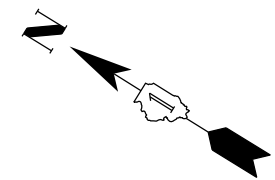
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PLOT SCALE = 1"=20'	DRAWN - JRM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN**

SCALE: 1"=20' SHEET 1 OF 10 SHEETS STA. N/A TO STA. 208+50

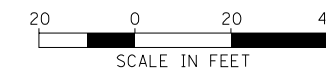
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	113
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING AND SIGNING LEGEND

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001

- † TELESCOPING STEEL SIGN SUPPORT (73100100)
NEW OR RELOCATED SIGN PANEL(S)
- (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
- (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
- (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
- (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
- (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
- (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
- (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
- (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
- (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
- (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



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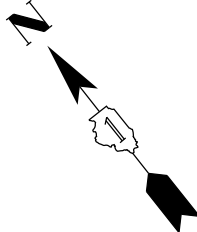
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PLOT SCALE = 1"=20'	DRAWN - JRM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN**

SCALE: 1"=20' SHEET 2 OF 10 SHEETS STA. 208+50 TO STA. 213+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	114
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



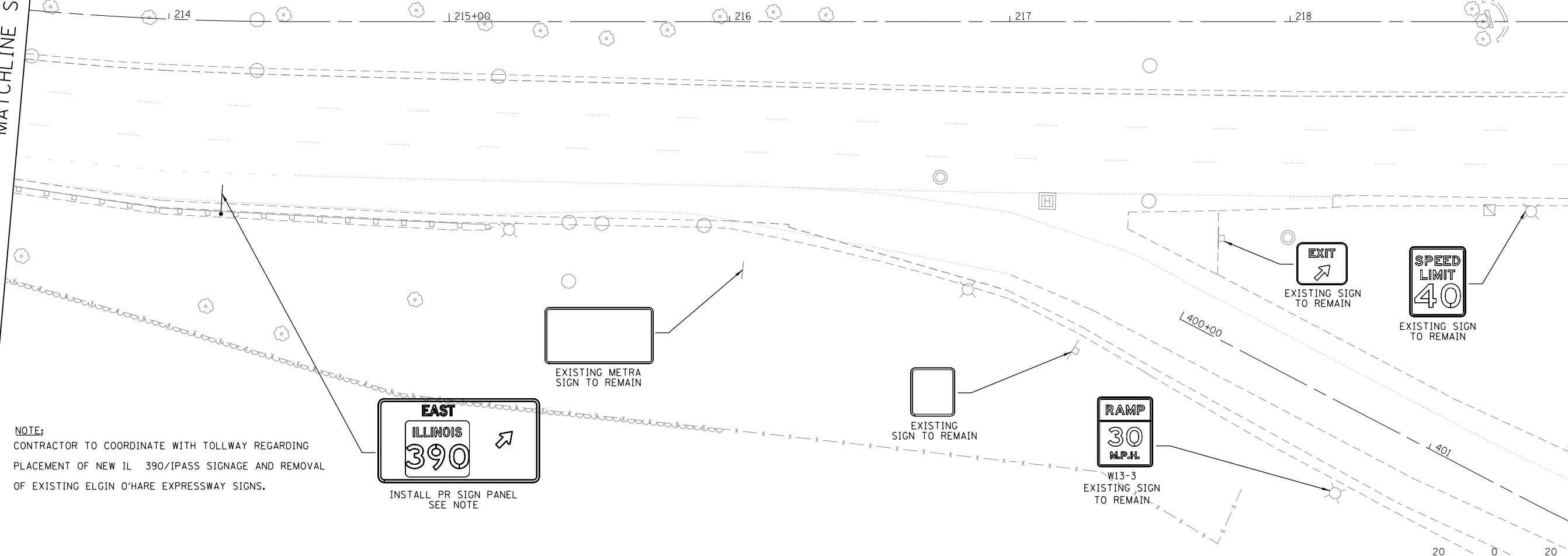
PAVEMENT MARKING AND SIGNING LEGEND

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001

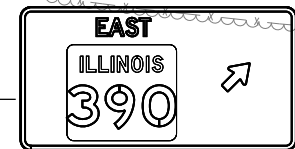
- † TELESCOPING STEEL SIGN SUPPORT (73100100)
NEW OR RELOCATED SIGN PANEL(S)
- (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
- (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
- (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
- (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
- (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
- (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
- (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
- (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
- (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
- (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE

MATCHLINE STA. 213+50

MATCHLINE STA. 219+00



NOTE:
CONTRACTOR TO COORDINATE WITH TOLLWAY REGARDING
PLACEMENT OF NEW IL 390/IPASS SIGNAGE AND REMOVAL
OF EXISTING ELGIN O'HARE EXPRESSWAY SIGNS.



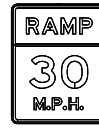
INSTALL PR SIGN PANEL
SEE NOTE



EXISTING METRA
SIGN TO REMAIN



EXISTING
SIGN TO REMAIN



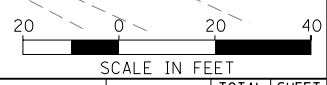
W13-3
EXISTING SIGN
TO REMAIN



EXISTING SIGN
TO REMAIN



EXISTING SIGN
TO REMAIN



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USER NAME = JasonM	DESIGNED - JRM	REVISED -
	DRAWN - JRM	REVISED -
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN**

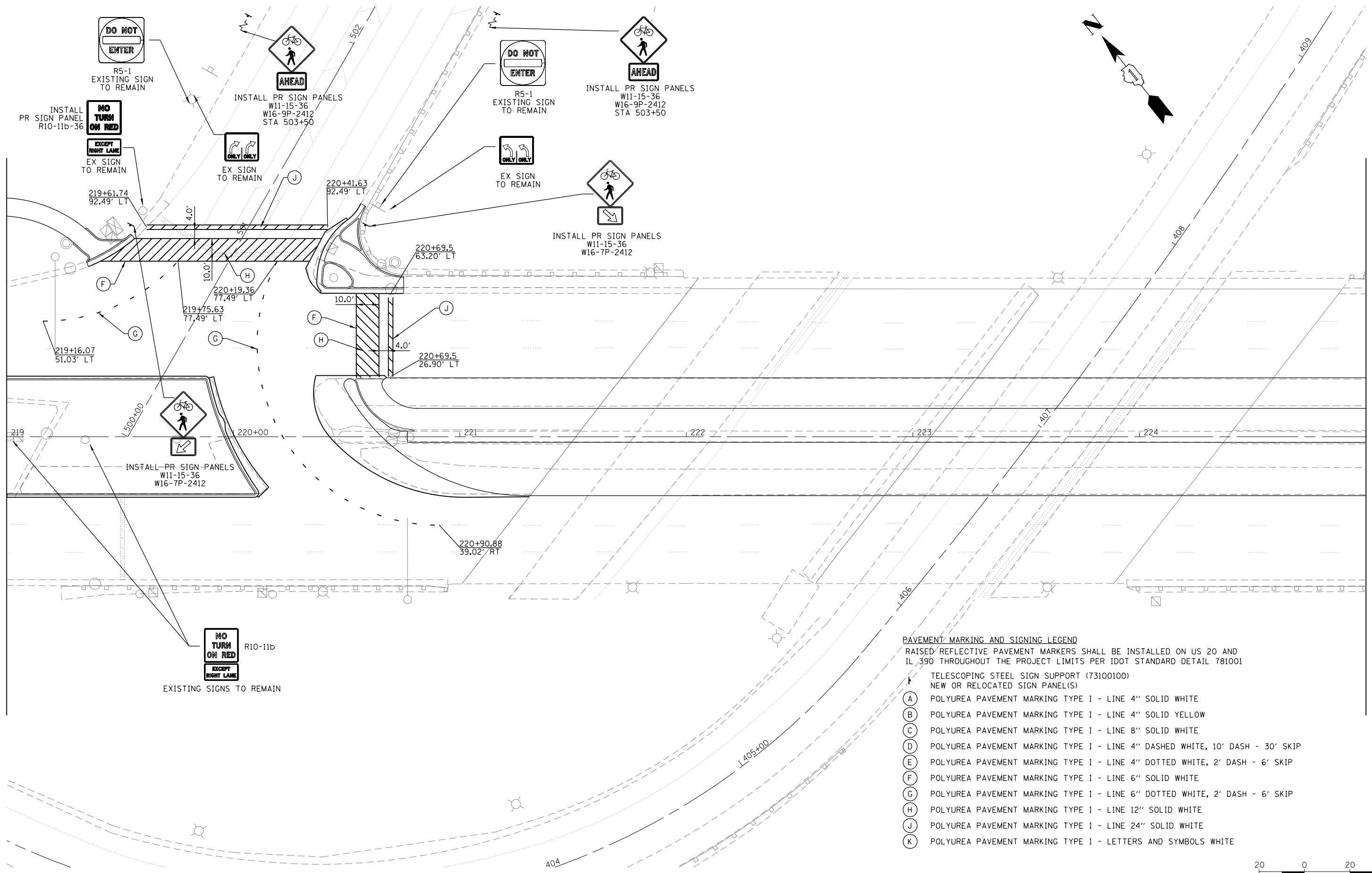
SCALE: 1"=20' SHEET 3 OF 10 SHEETS STA. 213+50 TO STA. 219+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	115
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

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 Date: 5/8/2015

MATCHLINE STA. 219+00

MATCHLINE STA. 225+00



- PAVEMENT MARKING AND SIGNING LEGEND**
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001
- ↑ TELESCOPING STEEL SIGN SUPPORT (73100100)
 - NEW OR RELOCATED SIGN PANEL(S)
 - (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
 - (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
 - (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
 - (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
 - (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
 - (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
 - (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
 - (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
 - (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
 - (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



USER NAME = JasonM	DESIGNED - JRM	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JRM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

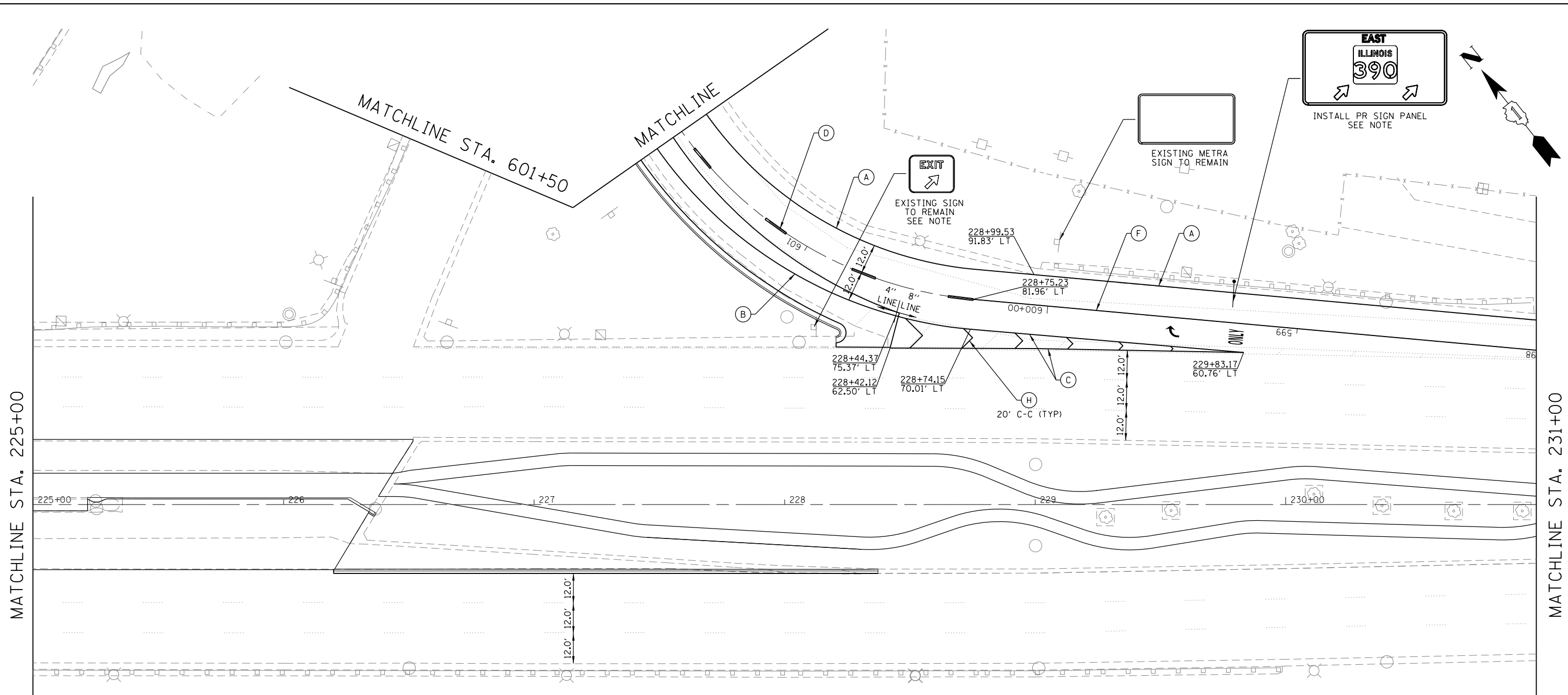
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' SHEET 4 OF 10 SHEETS STA. 219+00 TO STA. 225+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	116
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

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NOTE:
 CONTRACTOR TO COORDINATE WITH TOLLWAY REGARDING
 PLACEMENT OF NEW IL 390/IPASS SIGNAGE AND REMOVAL
 OF EXISTING ELGIN O'HARE EXPRESSWAY SIGNS.

- PAVEMENT MARKING AND SIGNING LEGEND**
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND
 IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001
- † TELESCOPING STEEL SIGN SUPPORT (73100100)
 - NEW OR RELOCATED SIGN PANEL(S)
 - (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
 - (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
 - (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
 - (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
 - (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
 - (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
 - (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
 - (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
 - (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
 - (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE

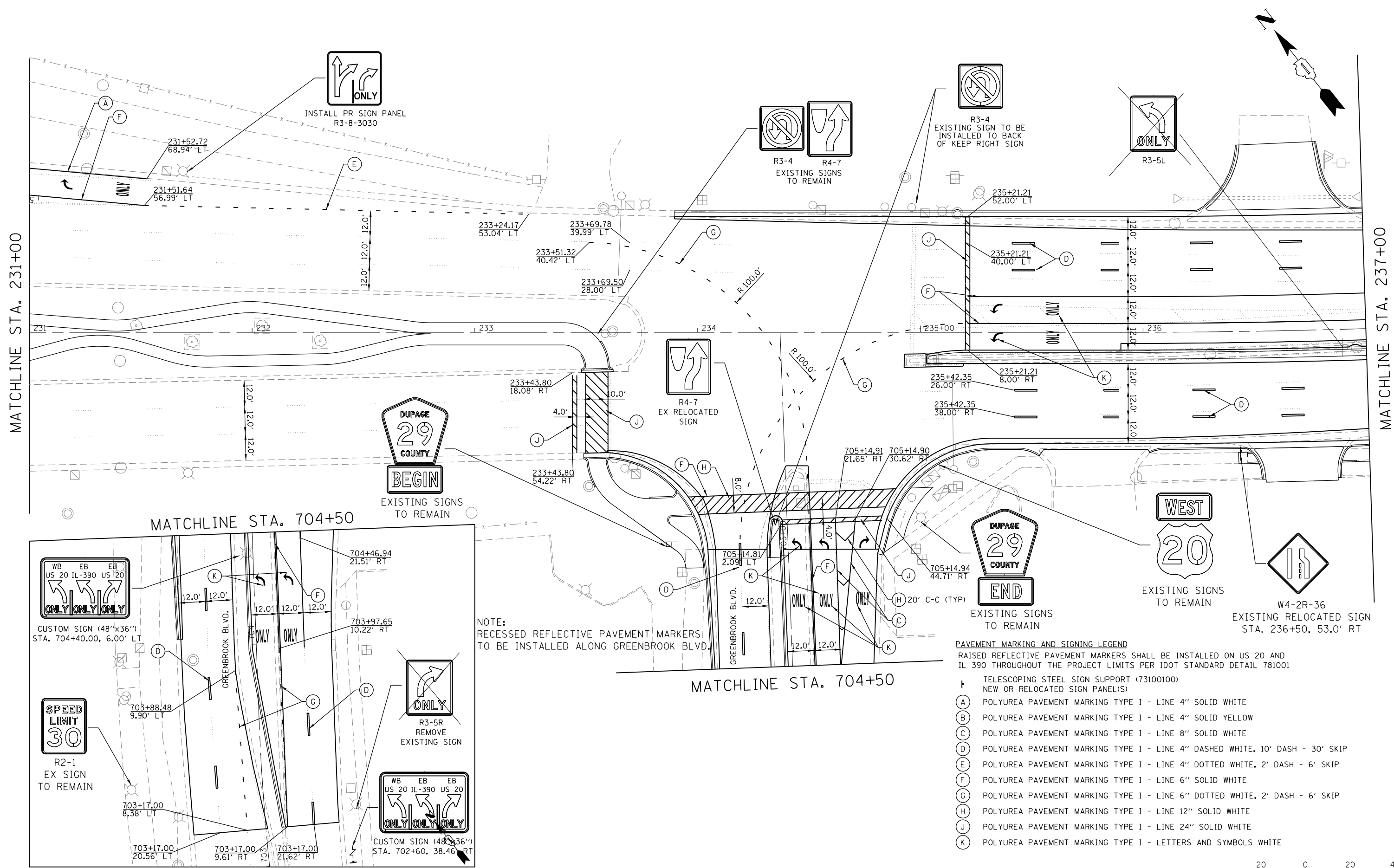
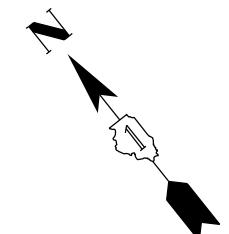


USER NAME = JasonM	DESIGNED - JRM	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JRM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN
 SCALE: 1"=20' SHEET 5 OF 10 SHEETS STA. 225+00 TO STA. 231+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	117
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



NOTE:
RECESSED REFLECTIVE PAVEMENT MARKERS
TO BE INSTALLED ALONG GREENBROOK BLVD.

PAVEMENT MARKING AND SIGNING LEGEND
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND
IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001

- † TELESCOPING STEEL SIGN SUPPORT (73100100)
- NEW OR RELOCATED SIGN PANEL(S)
- (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
- (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
- (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
- (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
- (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
- (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
- (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
- (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
- (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
- (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



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Date: 5/8/2015

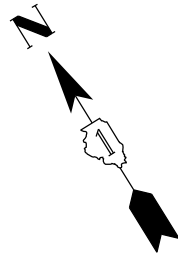


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PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
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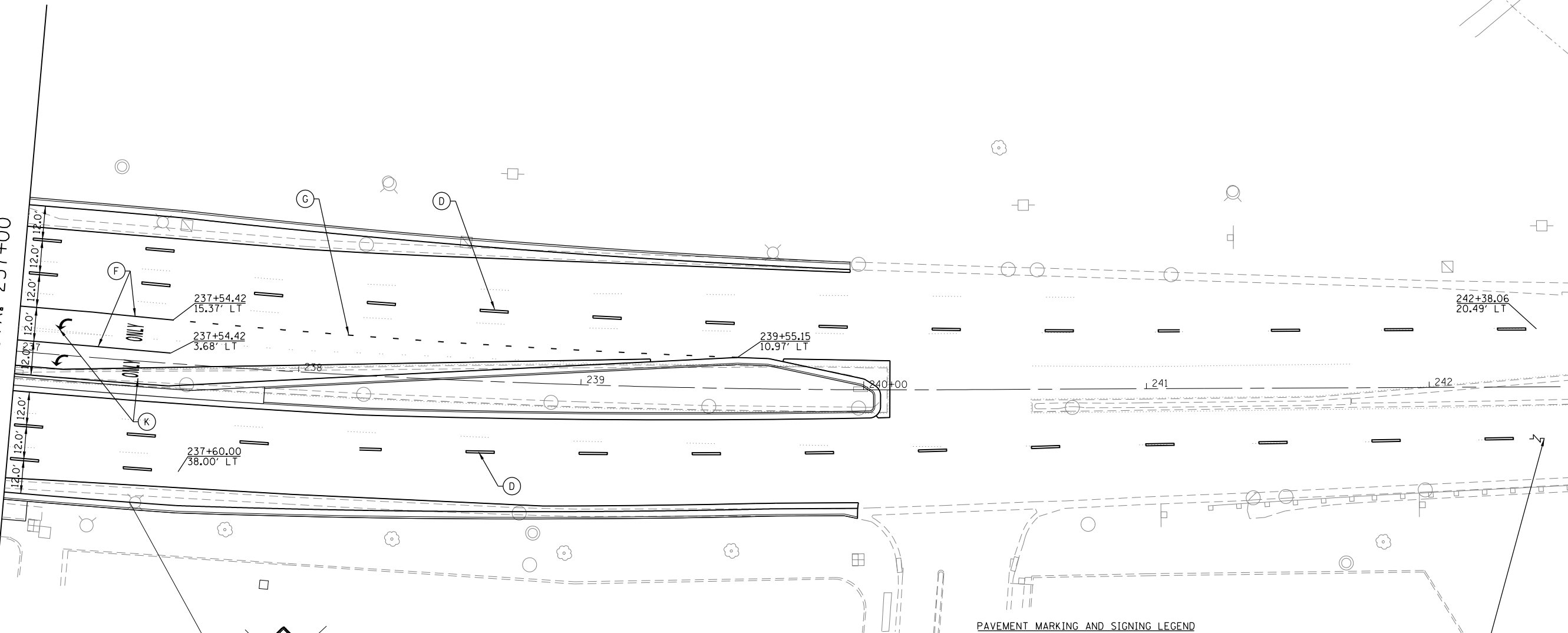
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN
SCALE: 1"=20' SHEET 6 OF 10 SHEETS STA. 231+00 TO STA. 237+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	118
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 237+00




 W4-2R-36
 RELOCATE TO
 STA. 236+50, 53.0' RT

- PAVEMENT MARKING AND SIGNING LEGEND**
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD PAVEMENT MARKING STA 243+51.91, 16.67' LT
- f** TELESCOPING STEEL SIGN SUPPORT (73100100)
NEW OR RELOCATED SIGN PANEL(S)
 - (A)** POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
 - (B)** POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
 - (C)** POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
 - (D)** POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
 - (E)** POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
 - (F)** POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
 - (G)** POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
 - (H)** POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
 - (J)** POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
 - (K)** POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



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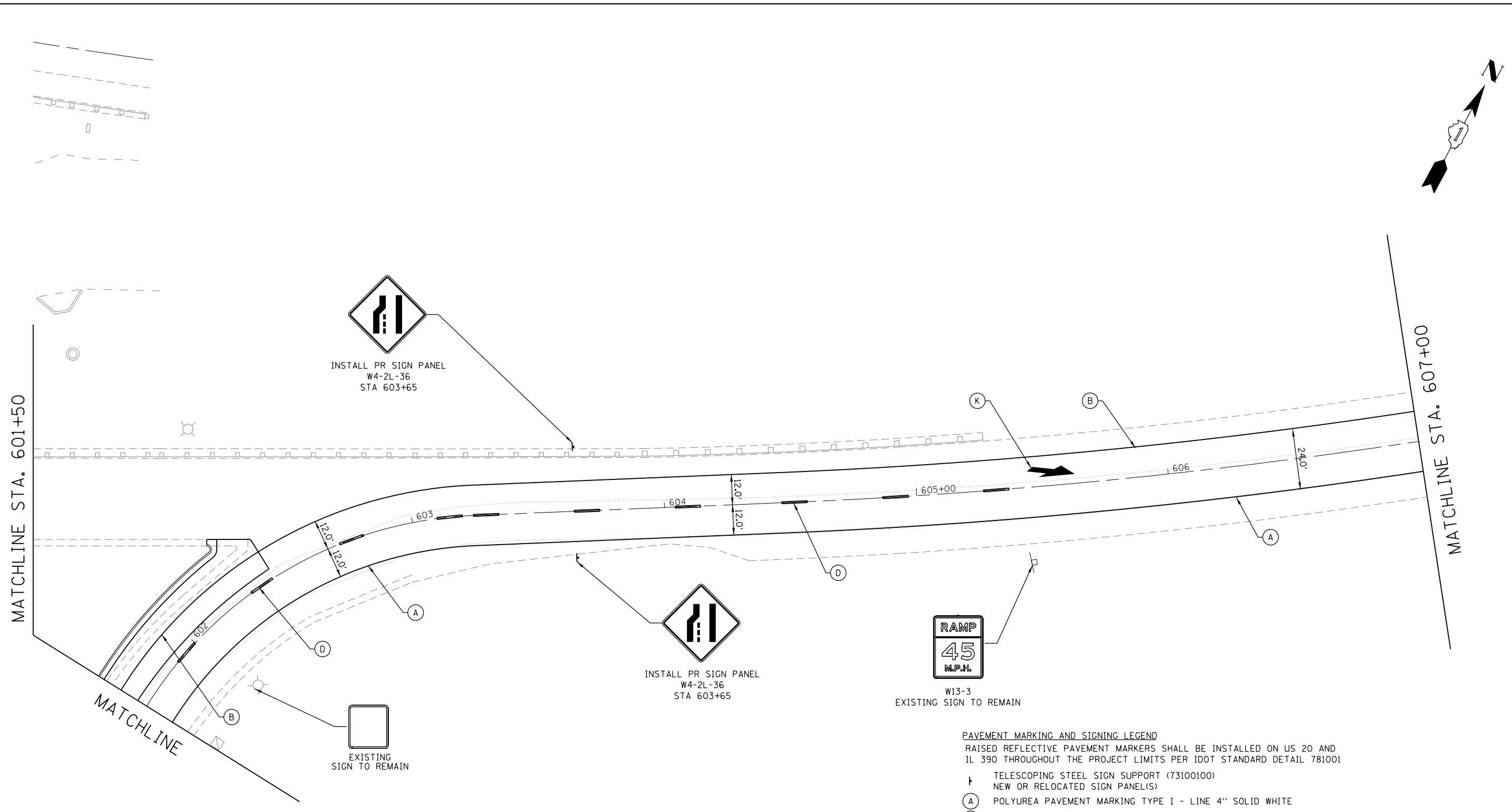
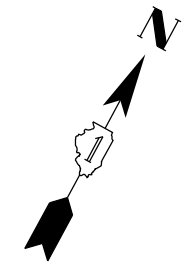
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DRAWN - JRM	REVISIONS -	
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' SHEET 7 OF 10 SHEETS STA. 237+00 TO STA. 242+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	119
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	



INSTALL PR SIGN PANEL
W4-2L-36
STA 603+65

W13-3
EXISTING SIGN TO REMAIN

- PAVEMENT MARKING AND SIGNING LEGEND**
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001
- f TELESCOPING STEEL SIGN SUPPORT (73100100)
 - NEW OR RELOCATED SIGN PANEL(S)
 - (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
 - (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
 - (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
 - (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
 - (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
 - (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
 - (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
 - (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
 - (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
 - (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



MAINS 20 OVER WEST BRANCH DUPAGE 112:154:903\DESIGN\CIVIL\CADD Sheets\US20_MarkSign-11.dgn
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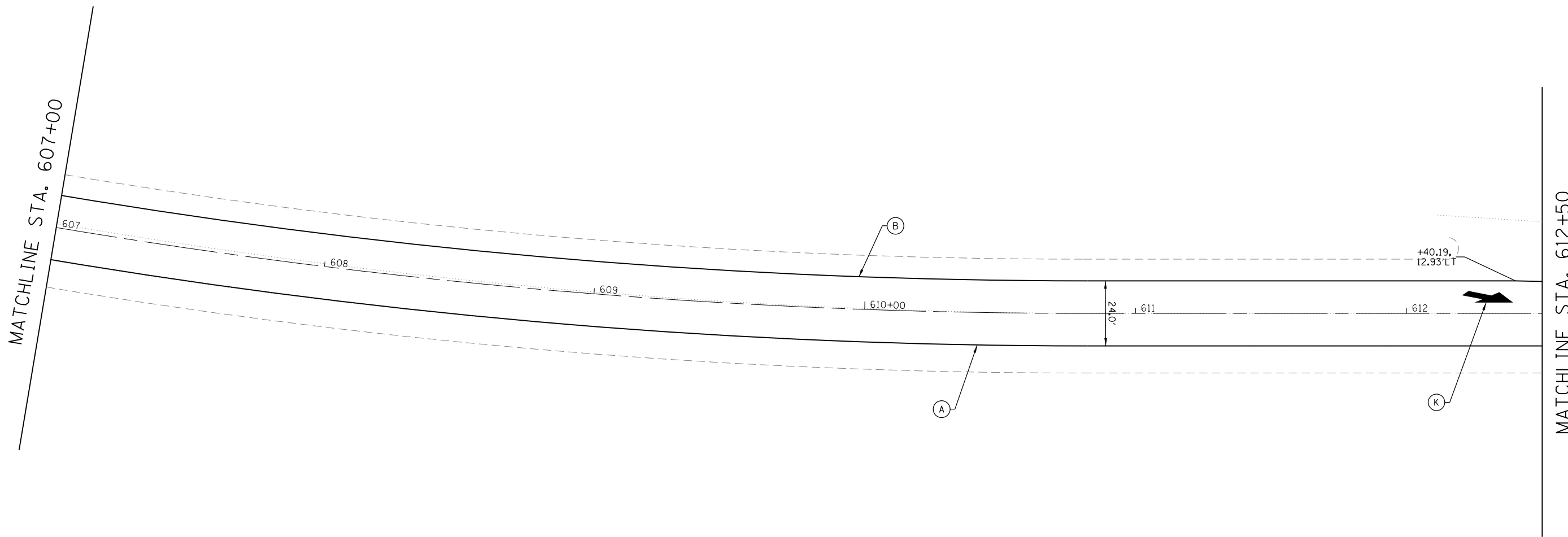
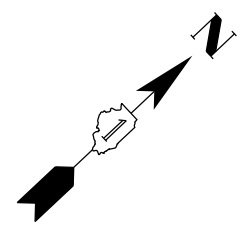
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PLOT SCALE = 1"=20'	DRAWN - JRM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN**

SCALE: 1"=20' SHEET 8 OF 10 SHEETS STA. 601+50 TO STA. 607+00

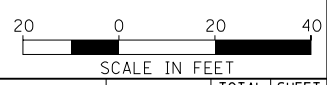
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	120
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING AND SIGNING LEGEND

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001

- † TELESCOPING STEEL SIGN SUPPORT (73100100)
NEW OR RELOCATED SIGN PANEL(S)
- (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
- (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
- (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
- (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
- (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
- (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
- (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
- (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
- (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
- (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



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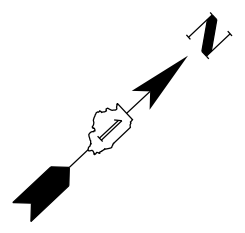
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	DRAWN - JRM	REVISED -
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PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

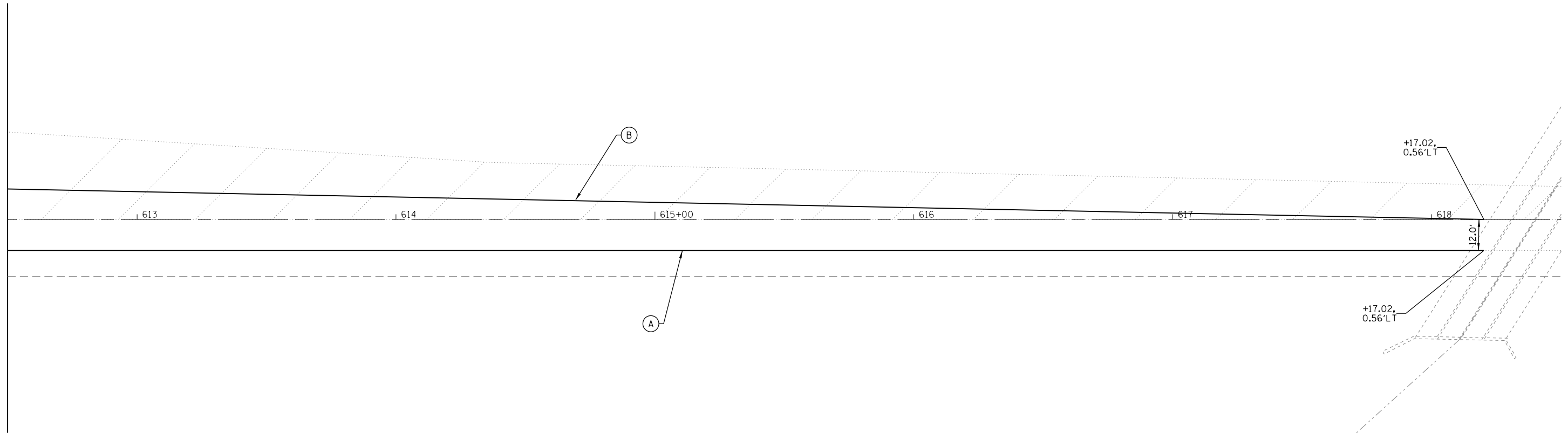
**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN**

SCALE: 1"=20' SHEET 9 OF 10 SHEETS STA. 607+00 TO STA. 612+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	121
				CONTRACT NO. 60W54
ILLINOIS FED. AID PROJECT				



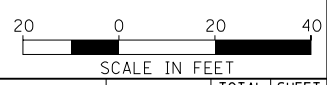
MATCHLINE STA. 612+50



PAVEMENT MARKING AND SIGNING LEGEND

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ON US 20 AND IL 390 THROUGHOUT THE PROJECT LIMITS PER IDOT STANDARD DETAIL 781001

- † TELESCOPING STEEL SIGN SUPPORT (73100100)
NEW OR RELOCATED SIGN PANEL(S)
- (A) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID WHITE
- (B) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" SOLID YELLOW
- (C) POLYUREA PAVEMENT MARKING TYPE I - LINE 8" SOLID WHITE
- (D) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DASHED WHITE, 10' DASH - 30' SKIP
- (E) POLYUREA PAVEMENT MARKING TYPE I - LINE 4" DOTTED WHITE, 2' DASH - 6' SKIP
- (F) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" SOLID WHITE
- (G) POLYUREA PAVEMENT MARKING TYPE I - LINE 6" DOTTED WHITE, 2' DASH - 6' SKIP
- (H) POLYUREA PAVEMENT MARKING TYPE I - LINE 12" SOLID WHITE
- (J) POLYUREA PAVEMENT MARKING TYPE I - LINE 24" SOLID WHITE
- (K) POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS WHITE



M:\US 20 OVER WEST BRANCH DUPAGE 112-154-903\DESIGN\CIVIL\CADD Sheets\US20_MarkSign\13.dgn
D:\paul



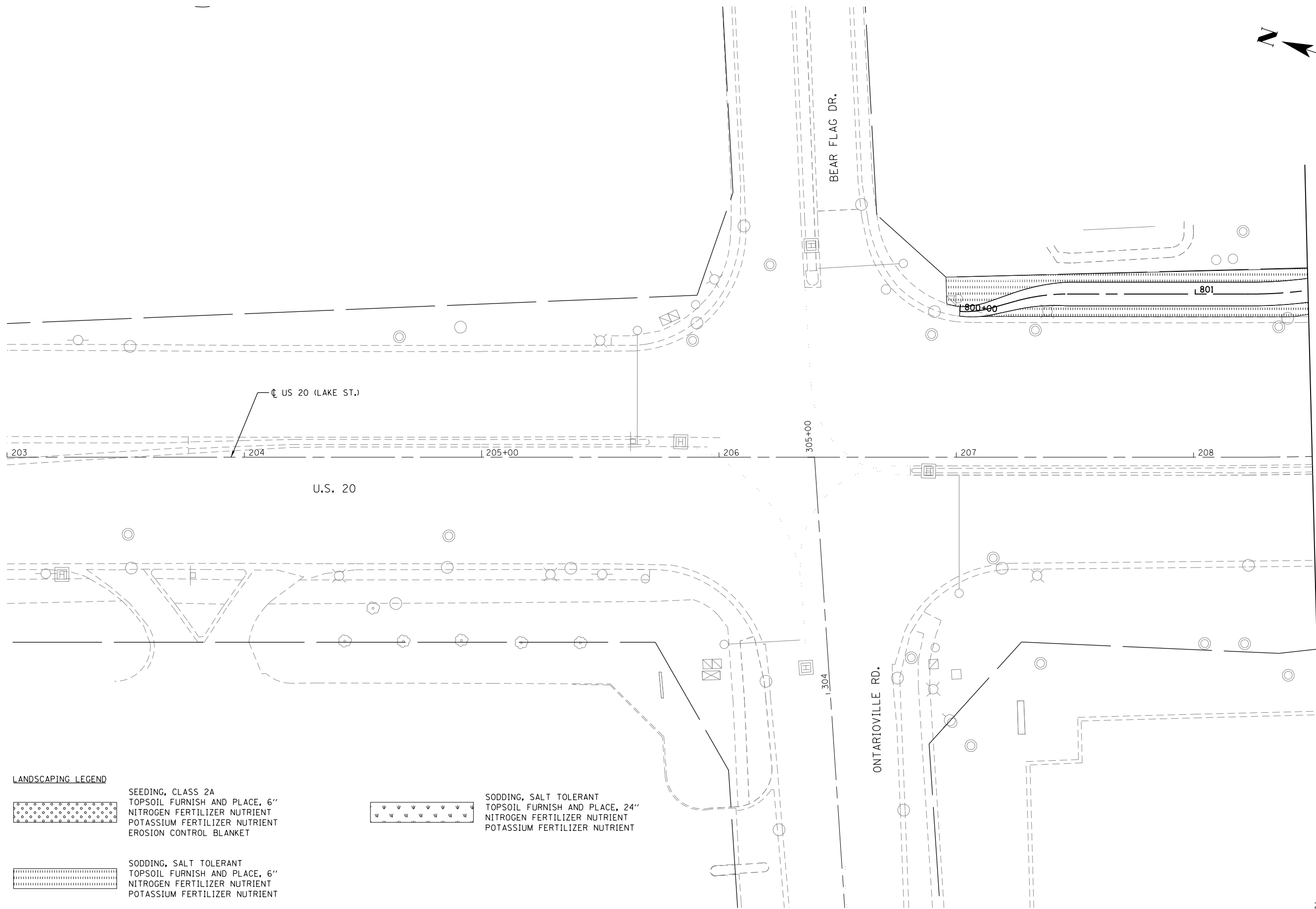
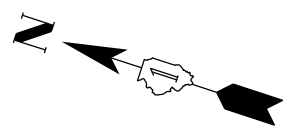
USER NAME = JasonM	DESIGNED - JRM	REVISED -
	DRAWN - JRM	REVISED -
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
PAVEMENT MARKING & SIGNING PLAN**

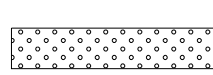
SCALE: 1"=20' SHEET 10 OF 10 SHEETS STA. 612+50 TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	122
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

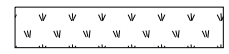


MATCHLINE STA. 208+50

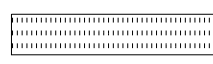
LANDSCAPING LEGEND



SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET



SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 24"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



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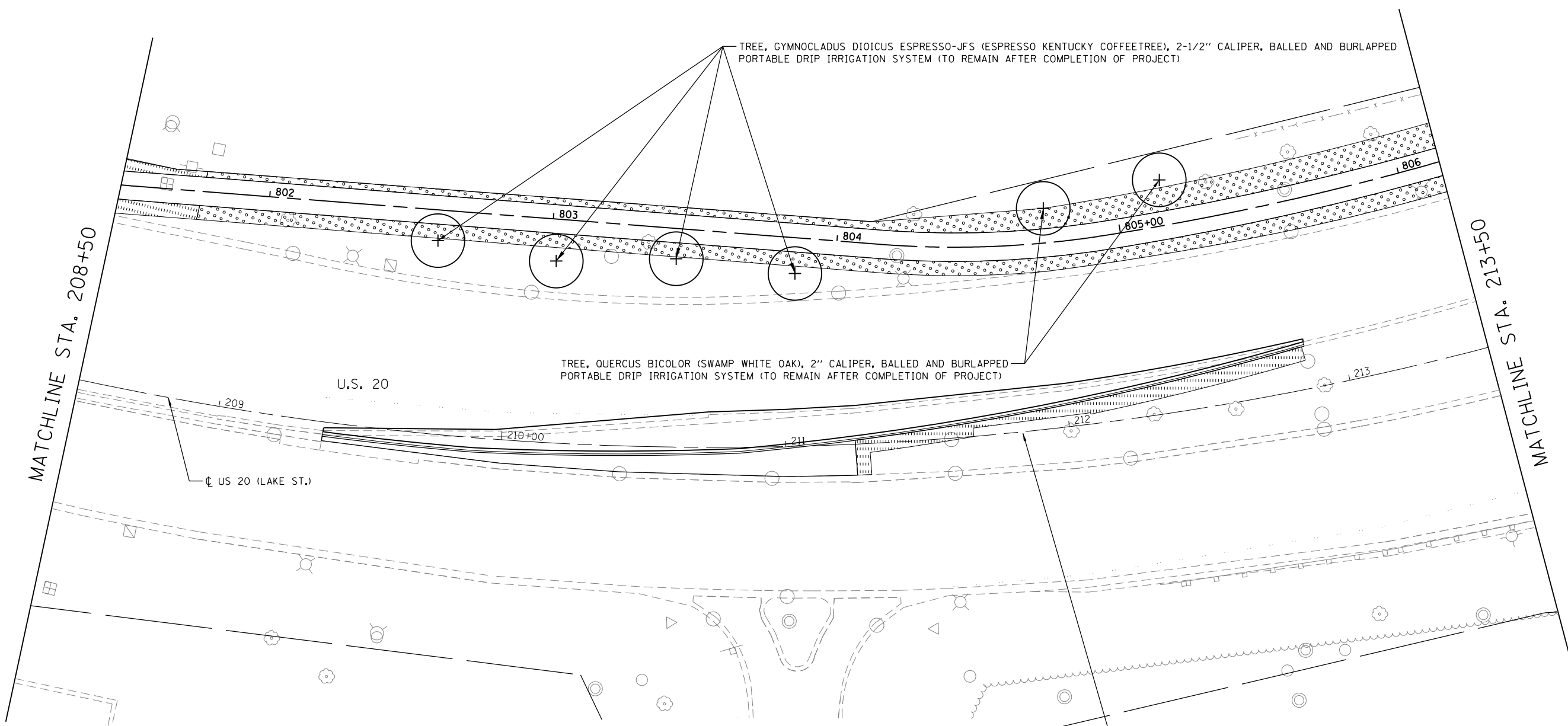
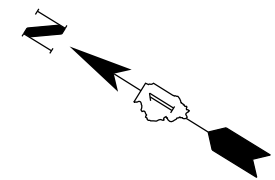
USER NAME = JasonM	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN**

SCALE: 1"=20' SHEET 1 OF 8 SHEETS STA. N/A TO STA. 208+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	123
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	



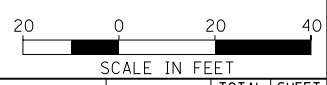
TREE, GYMNOCLADUS DIOICUS ESPRESSO-JFS (ESPRESSO KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED
PORTABLE DRIP IRRIGATION SYSTEM (TO REMAIN AFTER COMPLETION OF PROJECT)

TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
PORTABLE DRIP IRRIGATION SYSTEM (TO REMAIN AFTER COMPLETION OF PROJECT)

LANDSCAPING LEGEND

- SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 24"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
- SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT

PERENNIAL PLANT CARE AND SUPPLEMENTAL WATERING OF THE EXISTING LANDSCAPE BED IS TO BE IMPLEMENTED DURING THE CONSTRUCTION PERIOD WHEN ACCESS SHALL BE LIMITED. ONCE THE VILLAGE HAS ACCESS TO THE AREA, THEY SHALL CONTINUE TO MAINTAIN THE PLANTING BED.



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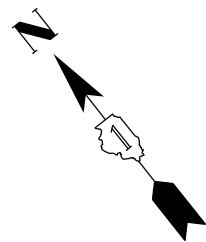
USER NAME = JasonM	DESIGNED - SJM	REVISED -
DRAWN - SJM	REVISIONS -	
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN**

SCALE: 1"=20' SHEET 2 OF 8 SHEETS STA. 208+50 TO STA. 213+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	124
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
PORTABLE DRIP IRRIGATION SYSTEM (TO REMAIN AFTER COMPLETION OF PROJECT)

PERENNIAL PLANT CARE AND SUPPLEMENTAL WATERING OF THE "WELCOME TO HANOVER PARK" LANDSCAPE BED IS TO BE IMPLEMENTED DURING THE CONSTRUCTION PERIOD WHEN ACCESS SHALL BE LIMITED. ONCE THE VILLAGE HAS ACCESS TO THE AREA, THEY SHALL CONTINUE TO MAINTAIN THE PLANTING BED.

MATCHLINE STA. 213+50

MATCHLINE STA. 219+00

U.S. 20

US 20 (LAKE ST.)

TREE, GYMNOCLADUS DIOICUS ESPRESSO-JFS (ESPRESSO KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED
PORTABLE DRIP IRRIGATION SYSTEM (TO REMAIN AFTER COMPLETION OF PROJECT)

WETLAND

ELGIN-O'HARE ENTRANCE RAMP

LANDSCAPING LEGEND

SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET

SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT

SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 24"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



SCALE IN FEET

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USER NAME = JasonM	DESIGNED - SJM	REVISED -
DRAWN - SJM	REVISIONS -	
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN**

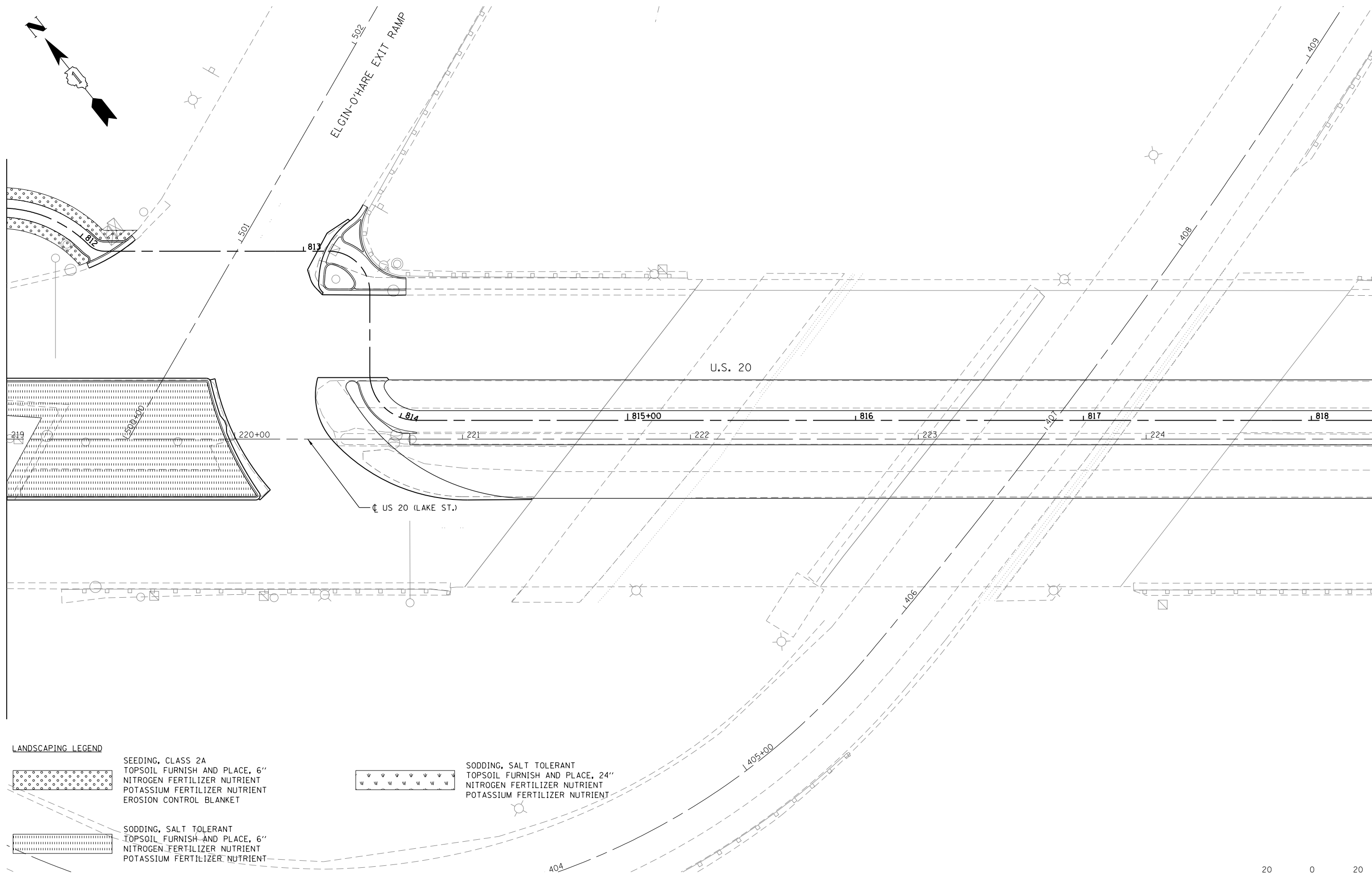
SCALE: 1"=20' SHEET 3 OF 8 SHEETS STA. 213+50 TO STA. 219+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	125
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

MAJUS 20 OVER WEST BRANCH DUPAGE 112:154:803\DESIGN\CIVIL\CADD Sheets\US20.Landscape-04.dgn
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MATCHLINE STA. 219+00

MATCHLINE STA. 225+00

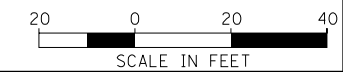


LANDSCAPING LEGEND

- SEEDING, CLASS 2A
 TOPSOIL FURNISH AND PLACE, 6"
 NITROGEN FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT
 EROSION CONTROL BLANKET

- SODDING, SALT TOLERANT
 TOPSOIL FURNISH AND PLACE, 6"
 NITROGEN FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT

- SODDING, SALT TOLERANT
 TOPSOIL FURNISH AND PLACE, 24"
 NITROGEN FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT



USER NAME = JasonM	DESIGNED - SJM	REVISED -	
	DRAWN - SJM	REVISED -	
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -	
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -	

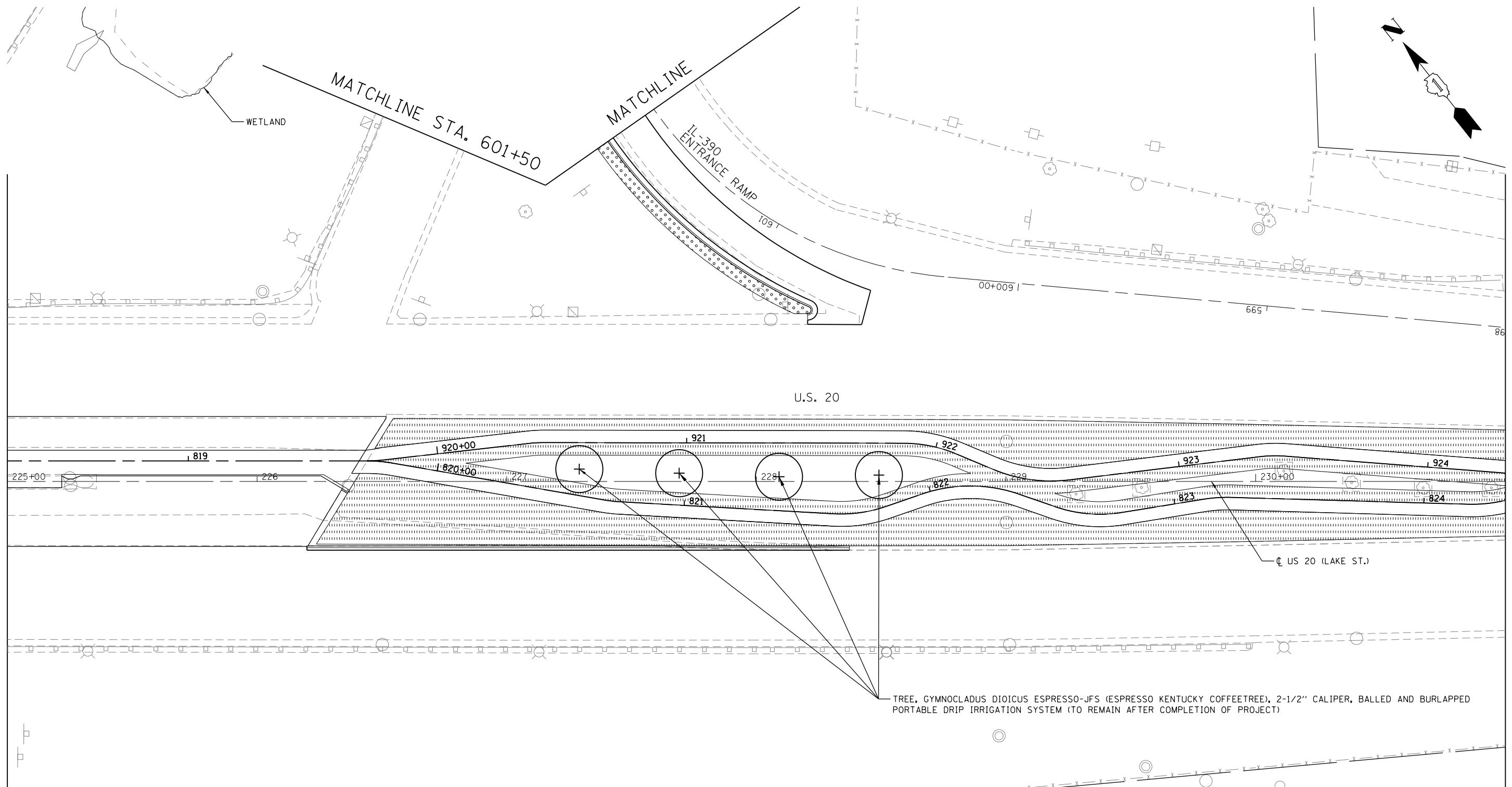
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN

SCALE: 1"=20' SHEET 4 OF 8 SHEETS STA. 219+00 TO STA. 225+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	126
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

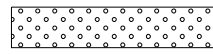
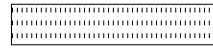
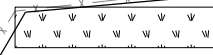
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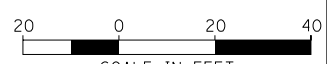
MATCHLINE STA. 225+00

MATCHLINE STA. 231+00

LANDSCAPING LEGEND

-  SEEDING, CLASS 2A
 TOPSOIL FURNISH AND PLACE, 6"
 NITROGEN FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT
 EROSION CONTROL BLANKET
-  SODDING, SALT TOLERANT
 TOPSOIL FURNISH AND PLACE, 6"
 NITROGEN FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT
-  SODDING, SALT TOLERANT
 TOPSOIL FURNISH AND PLACE, 24"
 NITROGEN FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT

TREE, GYMNOCLADUS DIOICUS ESPRESSO-JFS (ESPRESSO KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED
 PORTABLE DRIP IRRIGATION SYSTEM (TO REMAIN AFTER COMPLETION OF PROJECT)



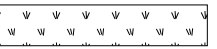
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DRAWN - SJM	REVISIONS -	
PLOT SCALE = 1"=20'	CHECKED - LVA	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN
 SCALE: 1"=20' SHEET 5 OF 8 SHEETS STA. 225+00 TO STA. 231+00

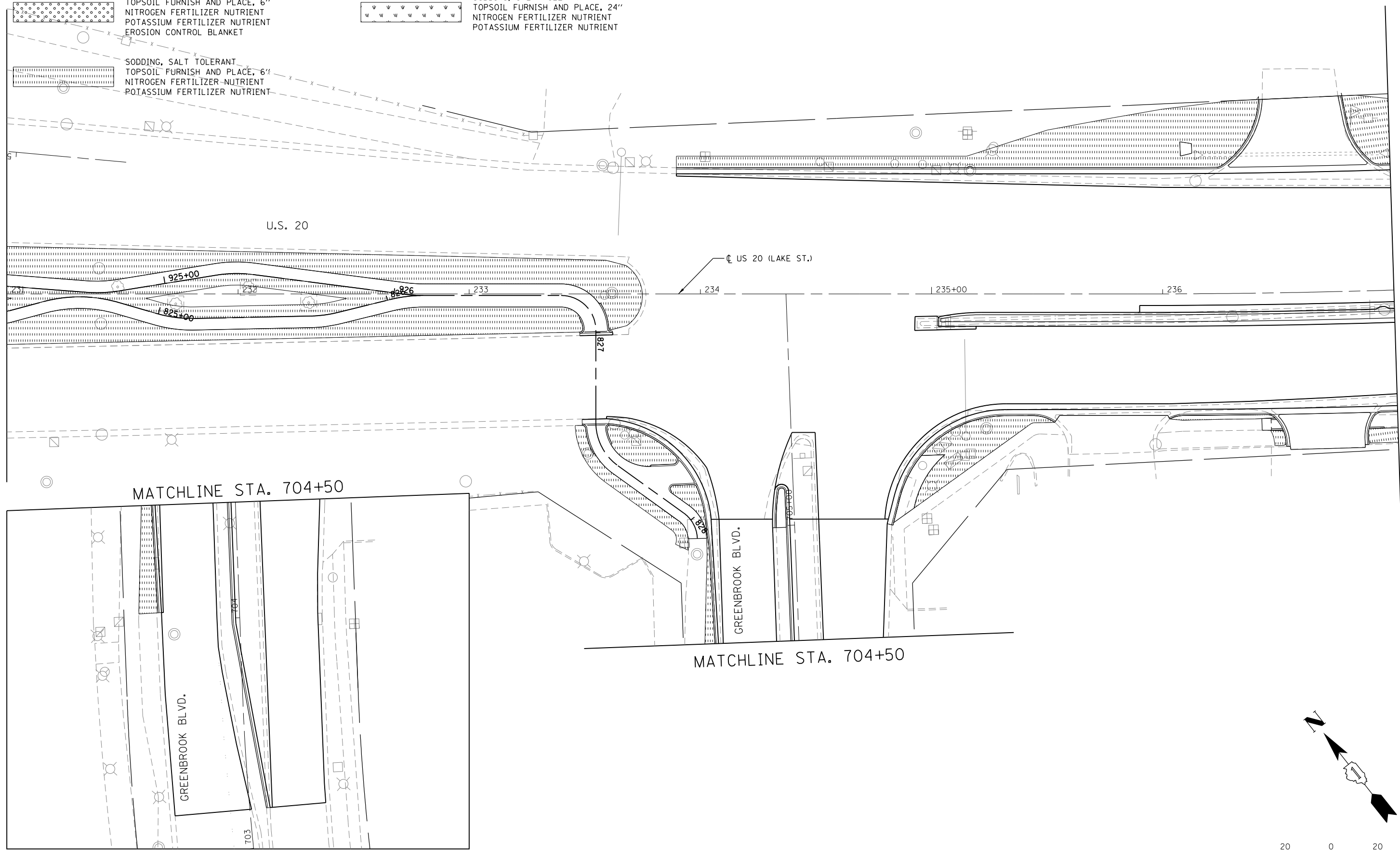
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	127
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

LANDSCAPING LEGEND

- 
SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- 
SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT

MATCHLINE STA. 231+00

MATCHLINE STA. 237+00



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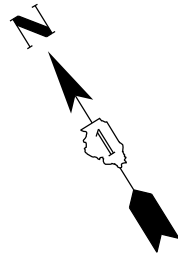
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PLOT SCALE = 1"=20'	DRAWN - SJM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

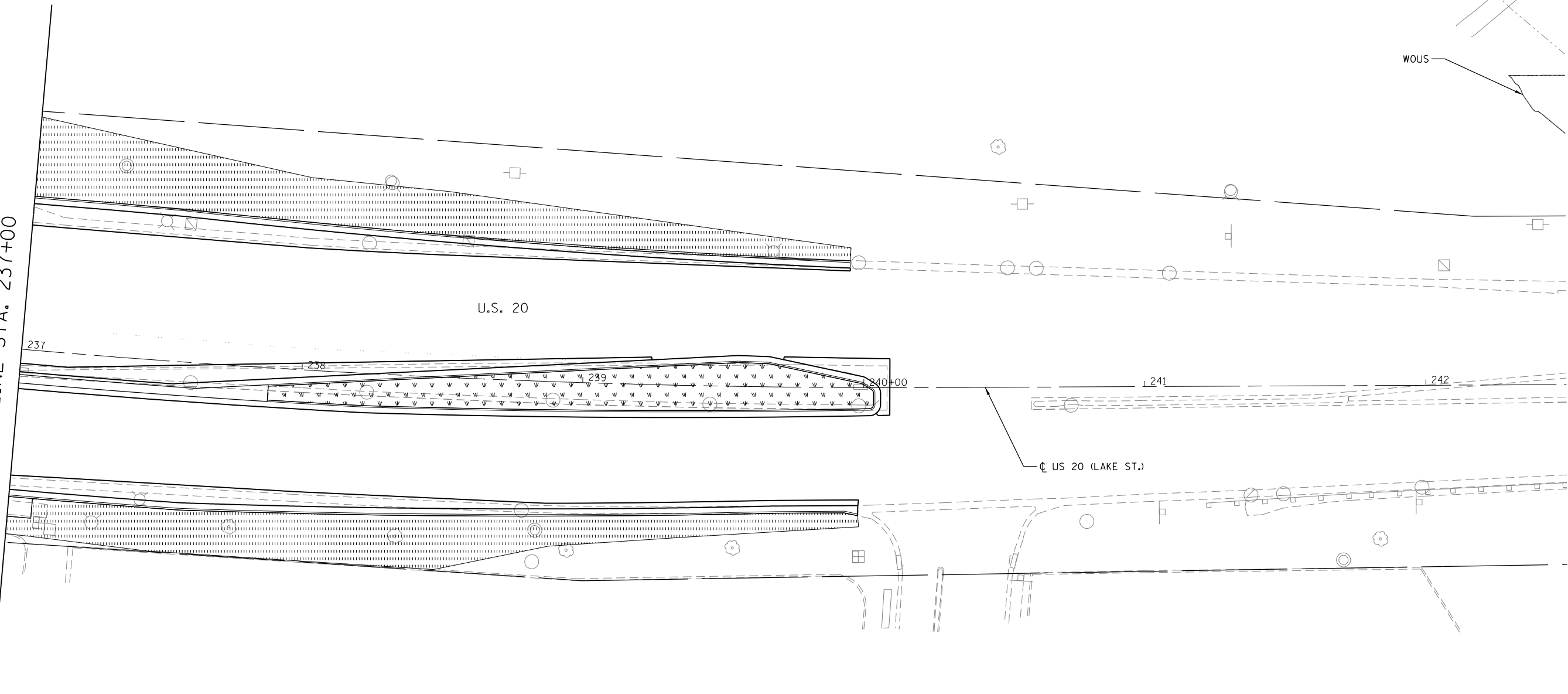
**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN**

SCALE: 1"=20' SHEET 6 OF 8 SHEETS STA. 231+00 TO STA. 237+00


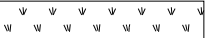
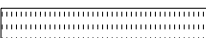
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	128
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 237+00



LANDSCAPING LEGEND

- | | |
|---|--|
| 
SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET | 
SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 24"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT |
| 
SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT | |



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USER NAME = JasonM	DESIGNED - SJM	REVISED -
PLOT SCALE = 1"=20'	DRAWN - SJM	REVISED -
PLOT DATE = 5/8/2015	CHECKED - LVA	REVISED -
	DATE - 5/8/2015	REVISED -

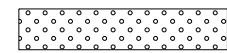
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN**

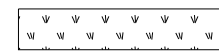
SCALE: 1"=20' SHEET 7 OF 8 SHEETS STA. 237+00 TO STA. 242+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	129
				CONTRACT NO. 60W54
ILLINOIS FED. AID PROJECT				

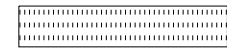
LANDSCAPING LEGEND



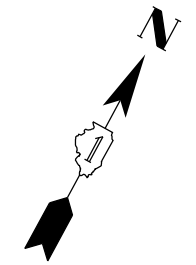
SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET



SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 24"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



SODDING, SALT TOLERANT
TOPSOIL FURNISH AND PLACE, 6"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



MATCHLINE STA. 601+50

WETLAND

IL-390 ENTRANCE RAMP

MATCHLINE

603

604

605+00

606



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USER NAME = JasonM	DESIGNED - SJM	REVISED -
	DRAWN - SJM	REVISED -
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PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

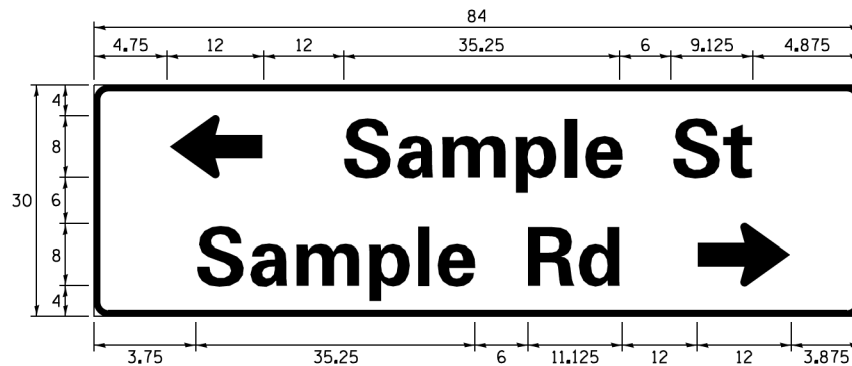
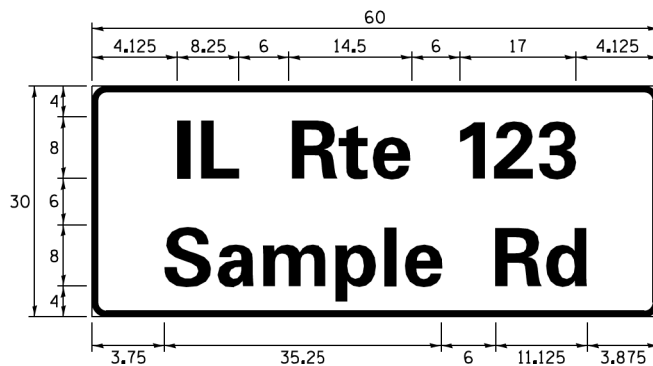
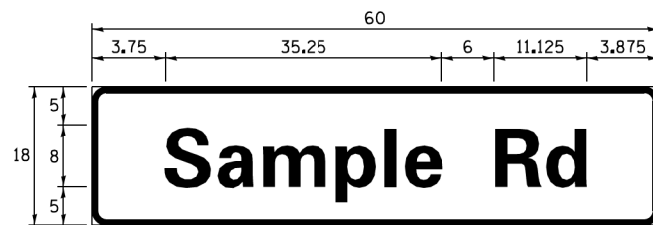
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
LANDSCAPE PLAN**

SCALE: 1"=20' SHEET 8 OF 8 SHEETS STA. 601+50 TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	130
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

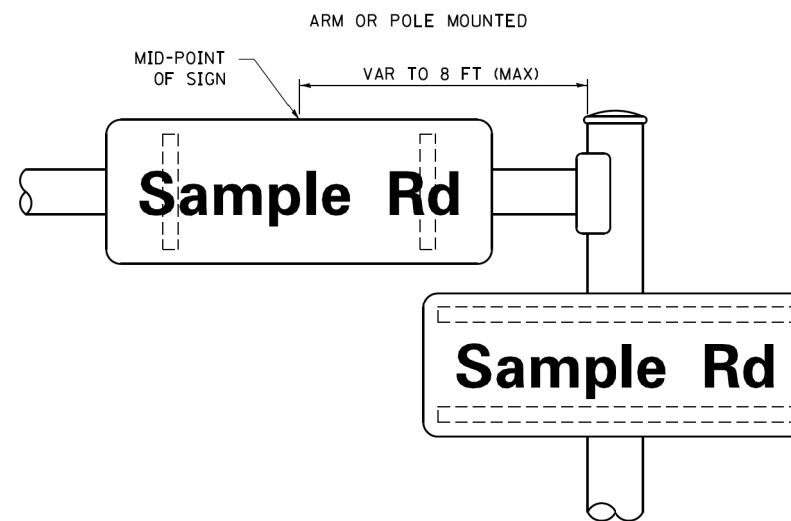
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

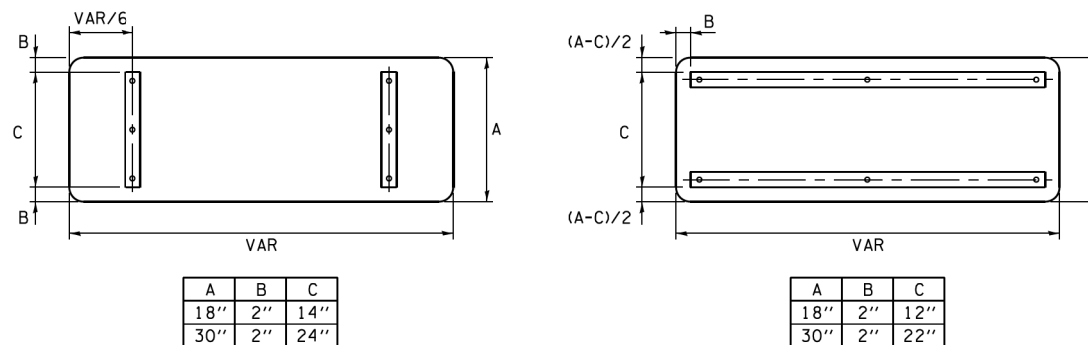
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

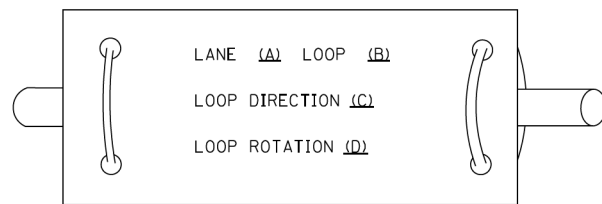
RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

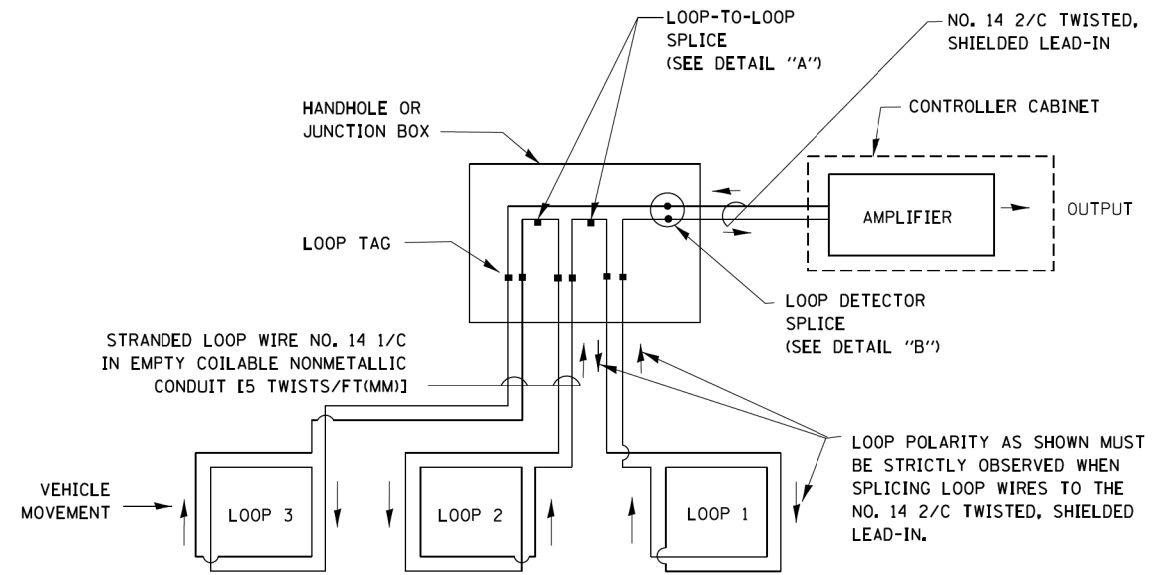
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

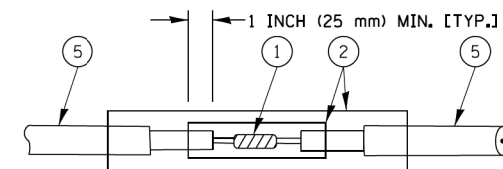


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

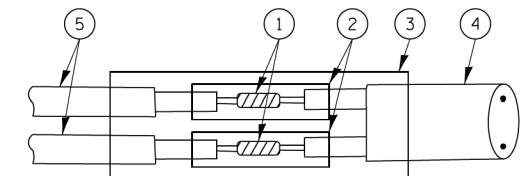


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

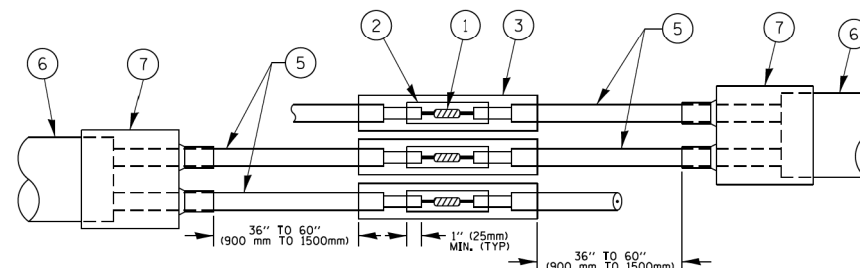


DETAIL "A"
LOOP-TO-LOOP SPLICE

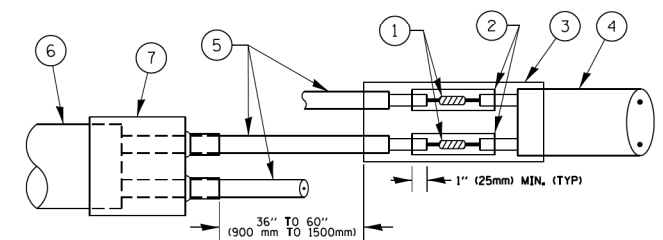


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

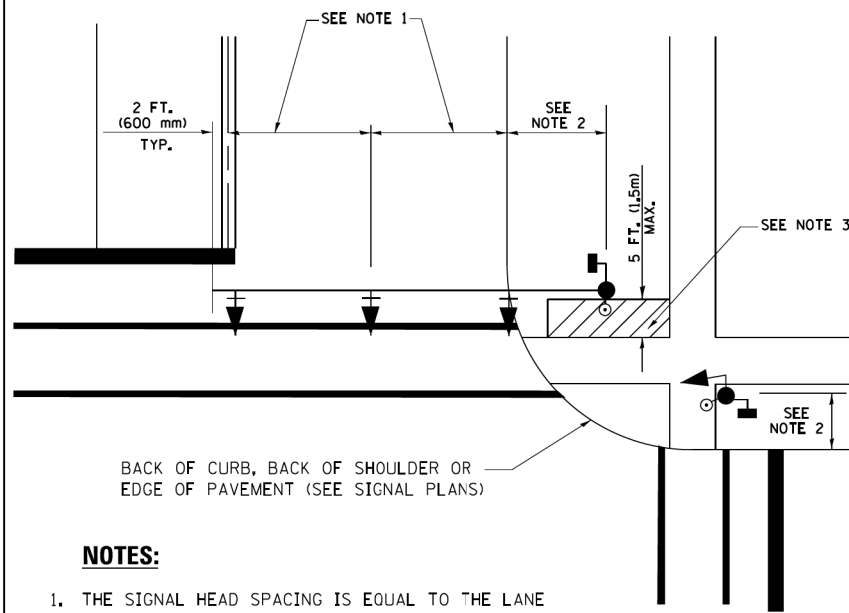
PREFORMED LOOP

LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 133
ca:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 60W54		
		CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									

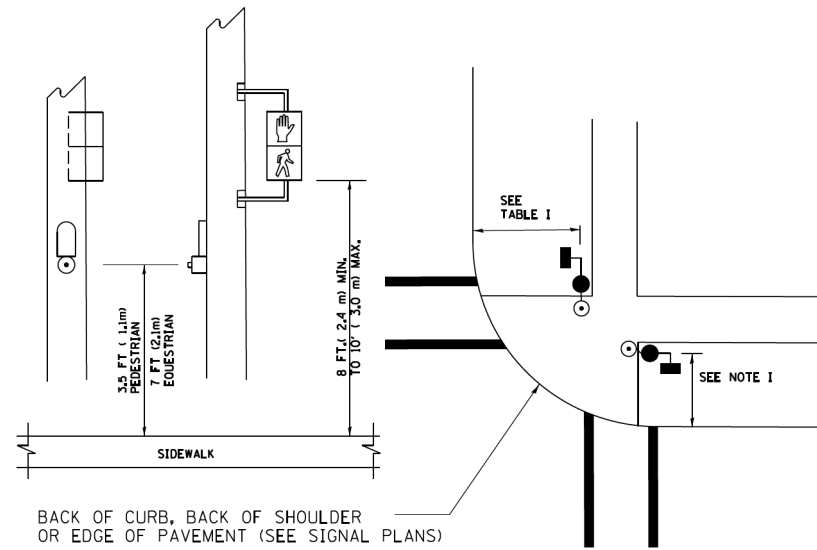
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

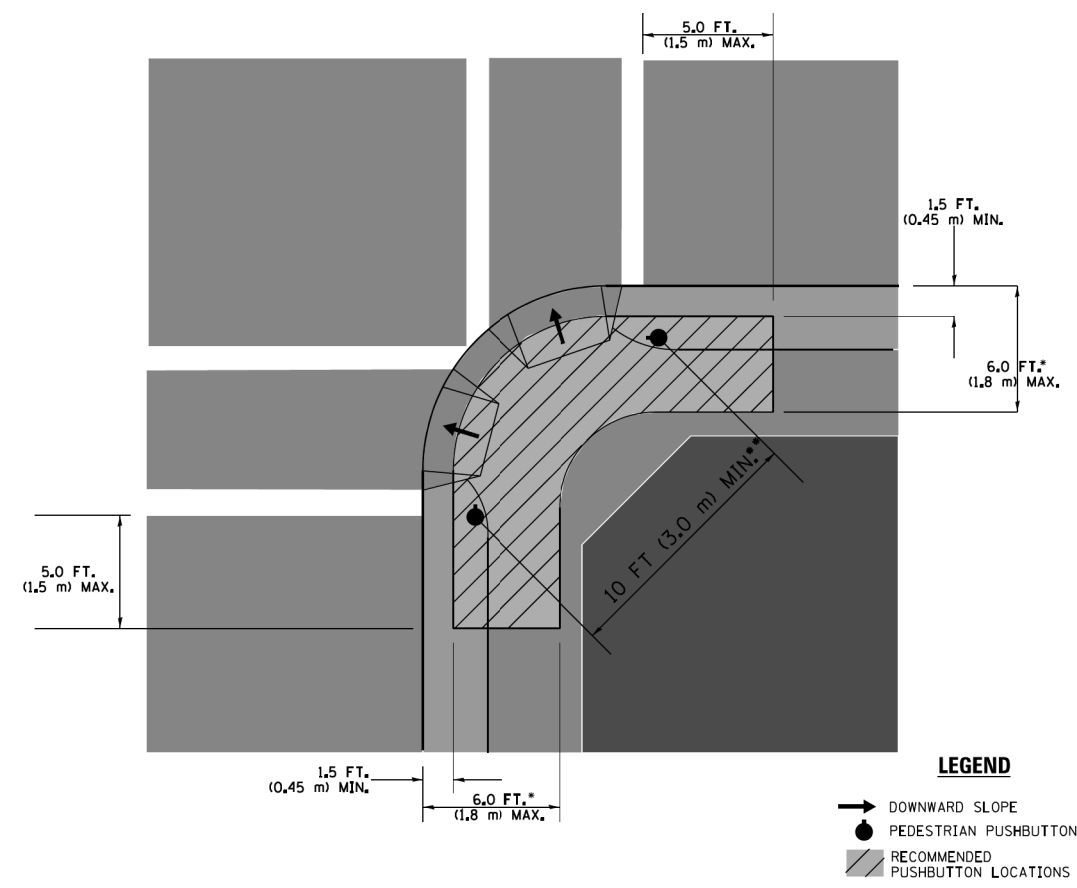
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

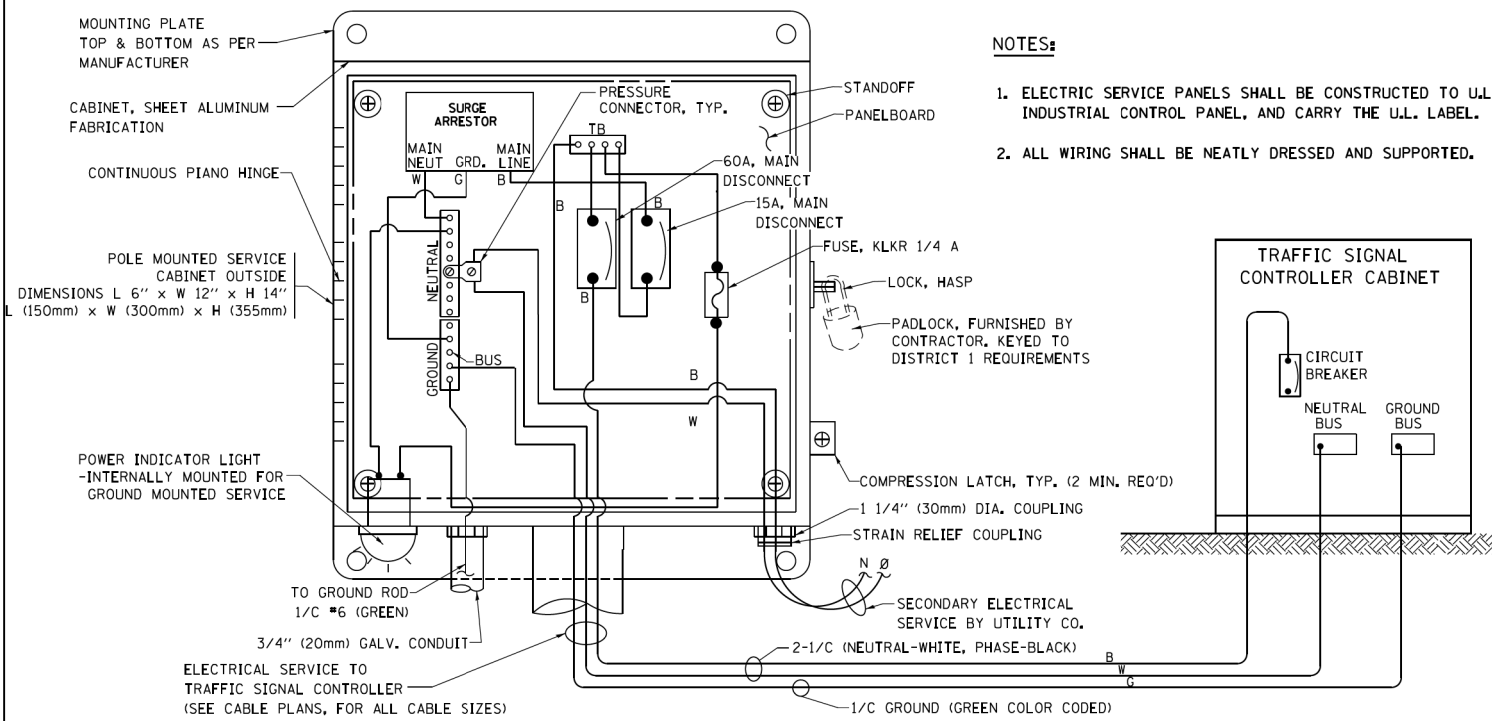
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

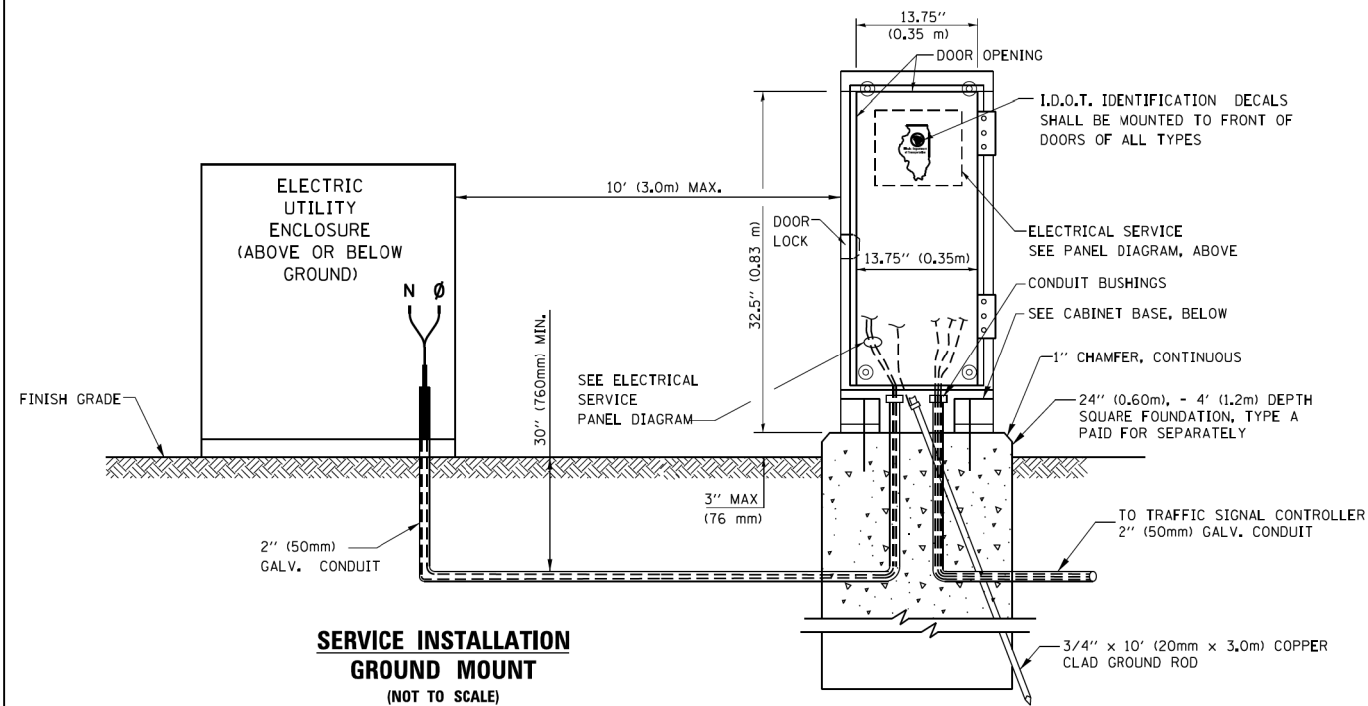
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

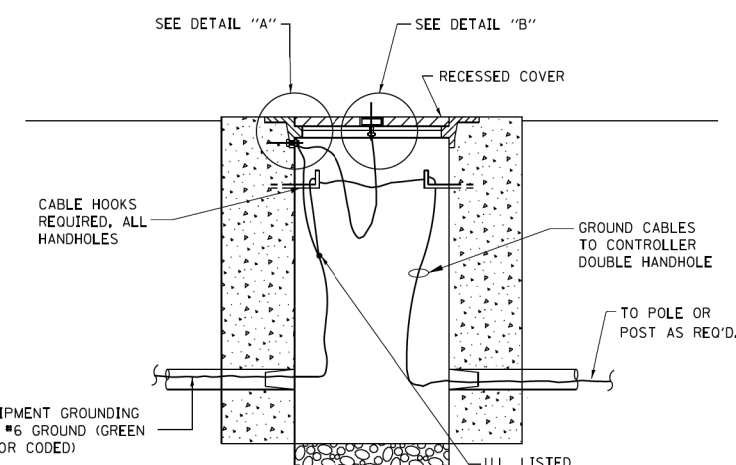
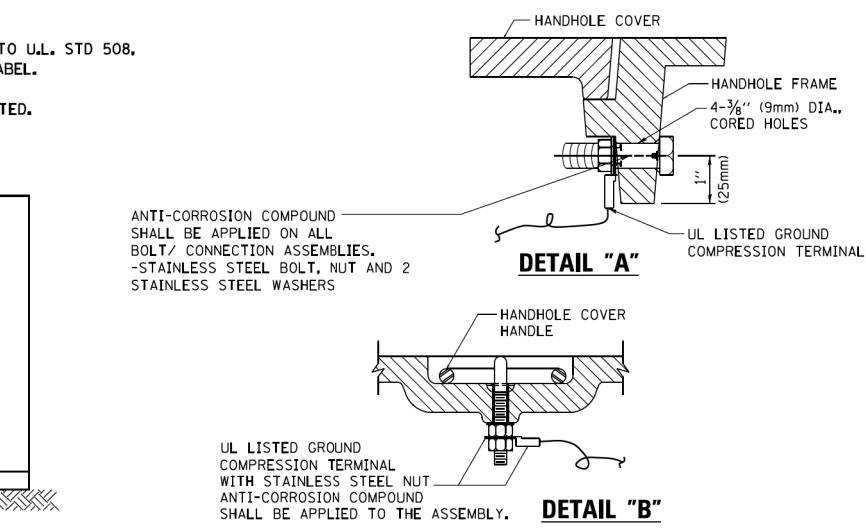
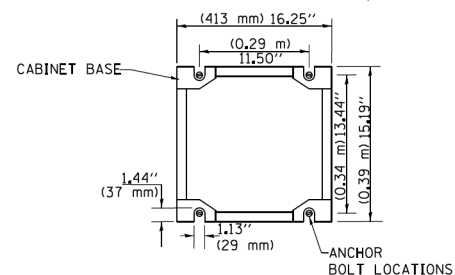
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.



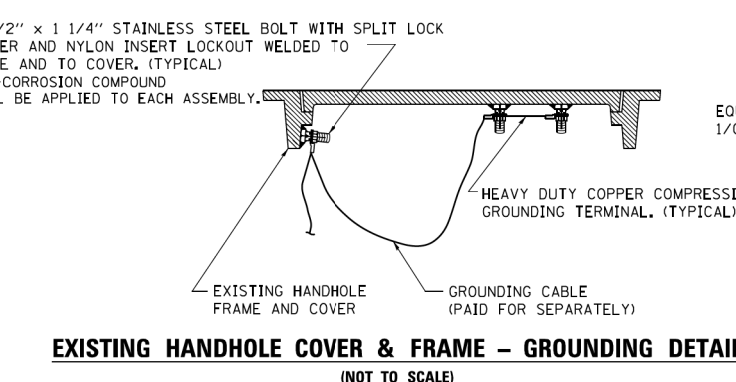
**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



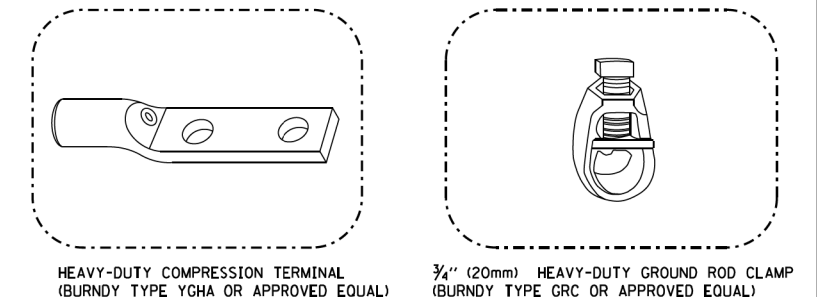
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



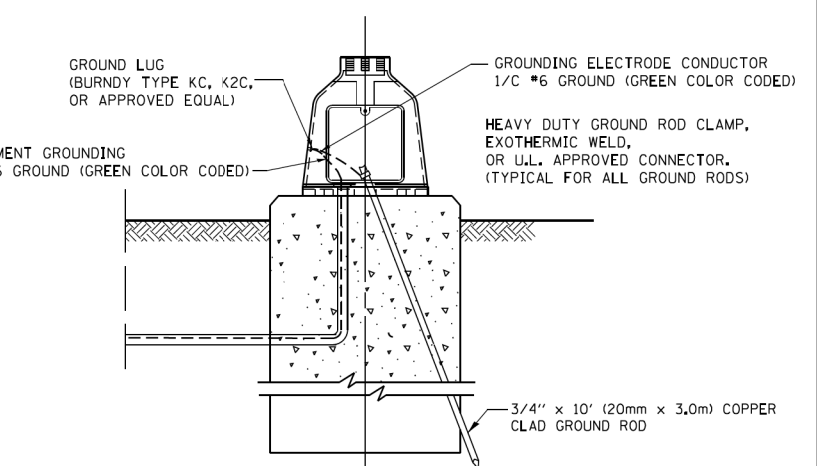
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

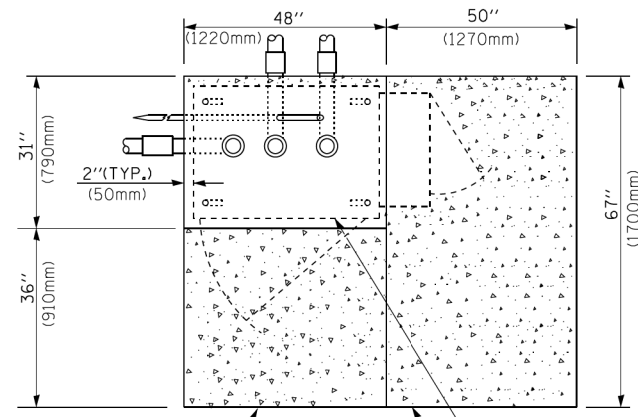


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

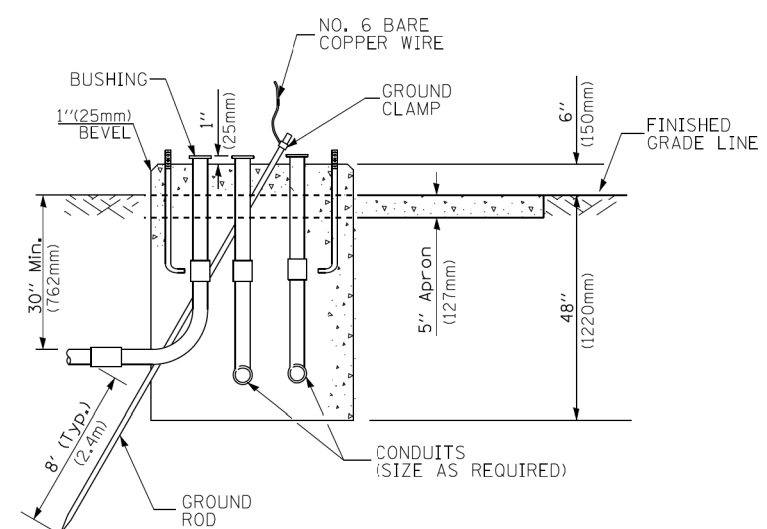


MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

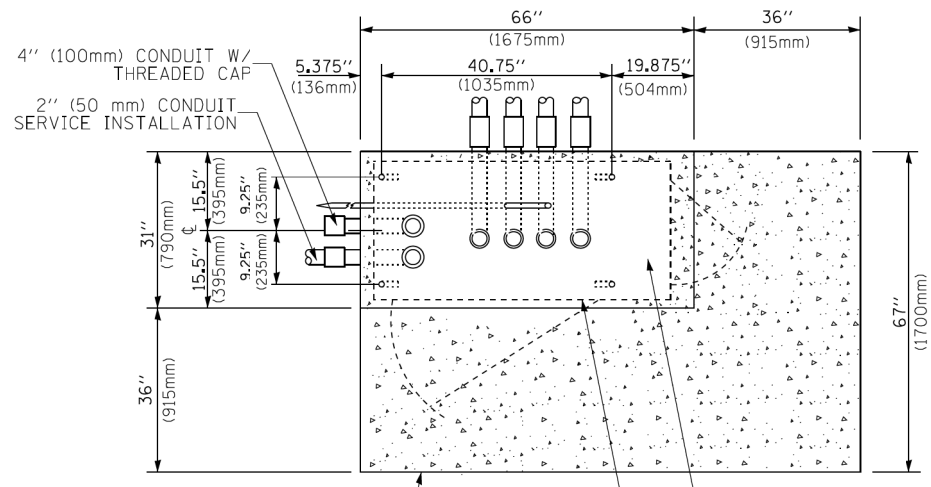
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	PLOT DATE = 1/13/2014	CHECKED - DAD	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
		DATE - 10-28-09	REVISED -						ILLINOIS				



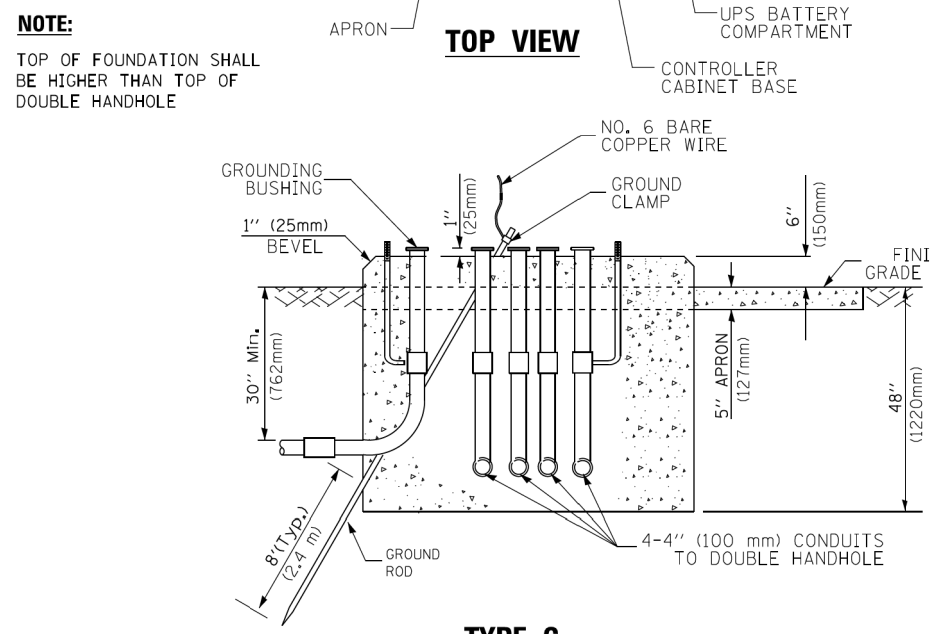
TOP VIEW



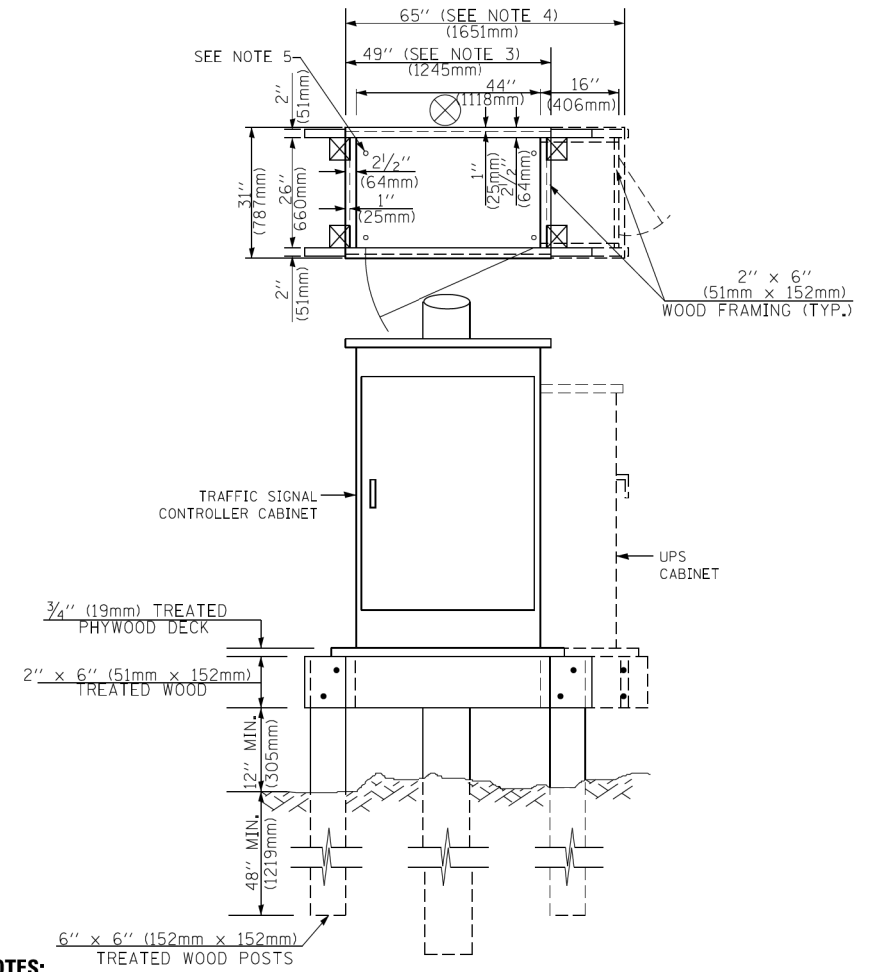
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

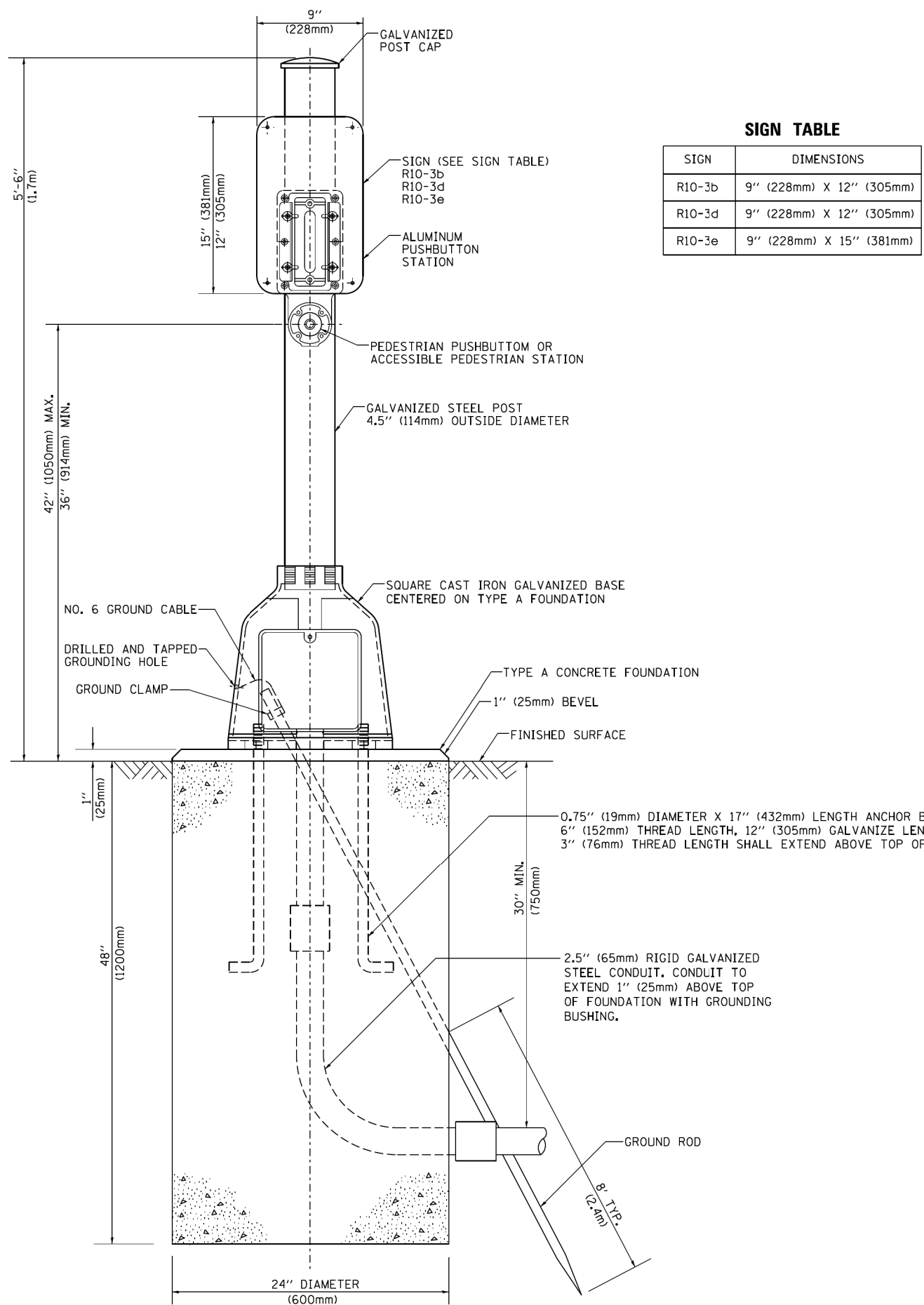
DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

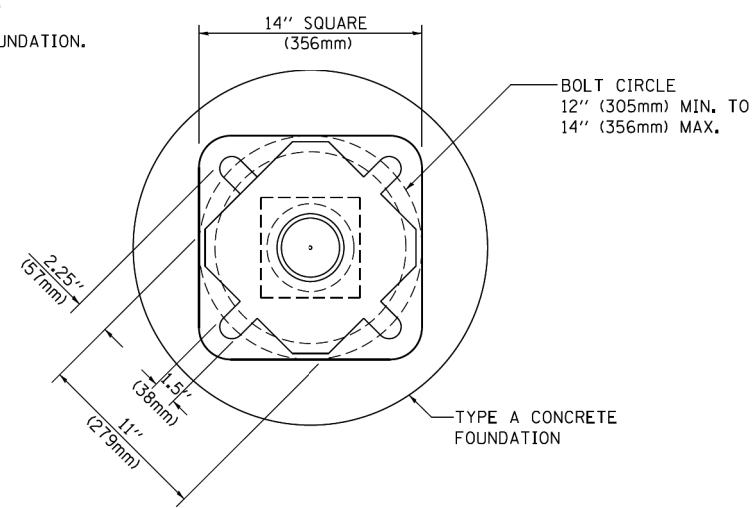
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

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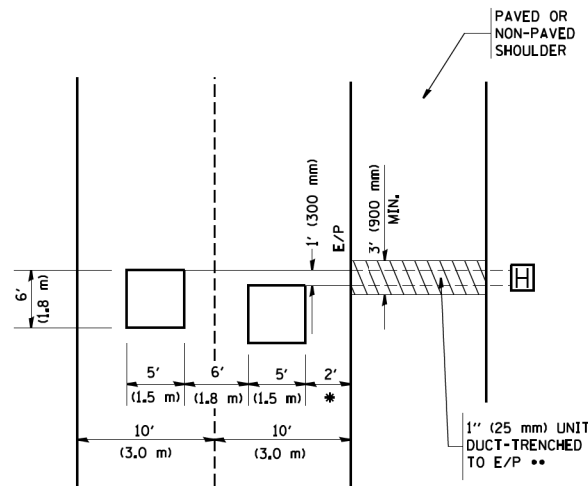
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	138
TS-05		CONTRACT NO. 60W54		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

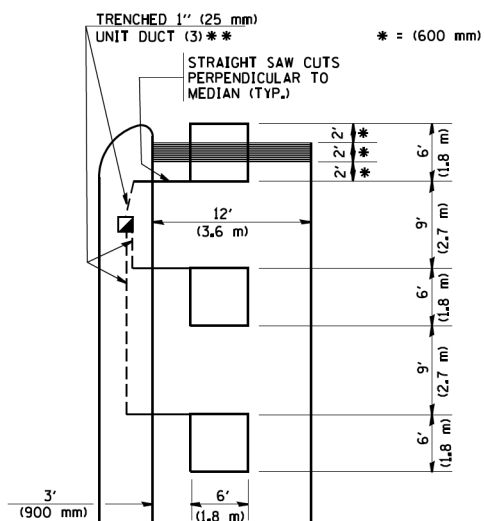


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

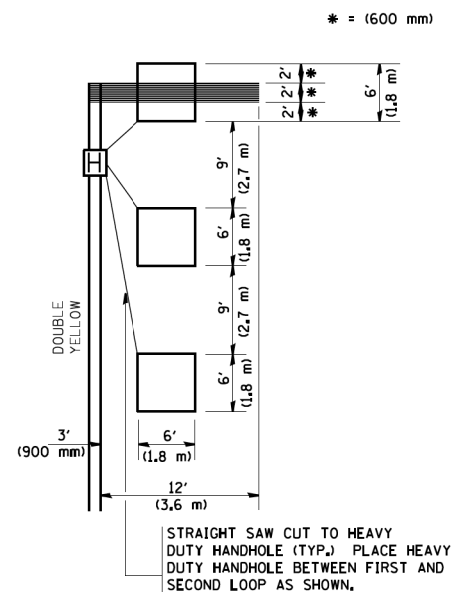


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



* = (600 mm)

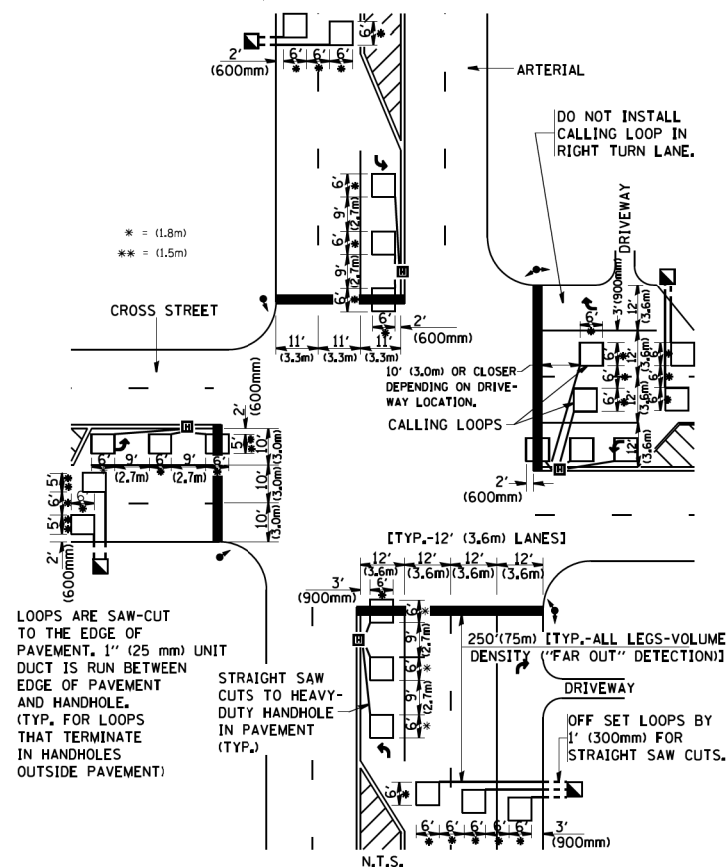
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

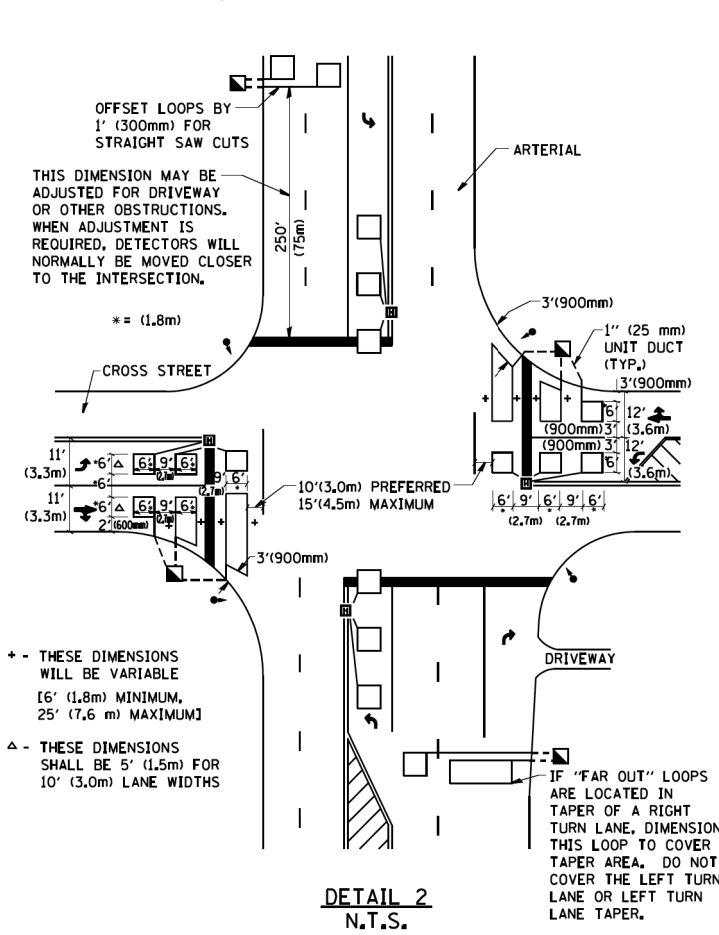
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED - R.K.F.
DATE -

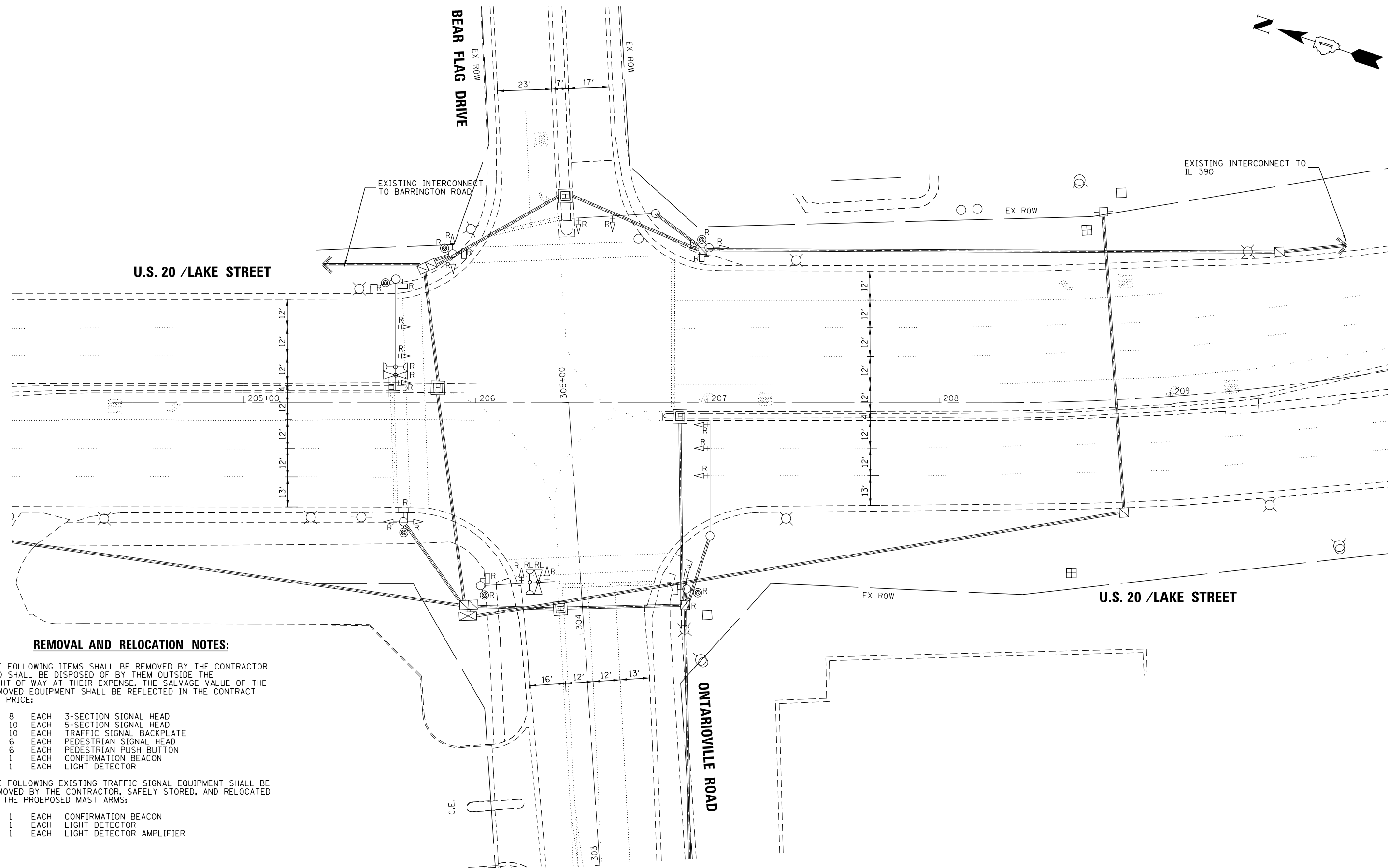
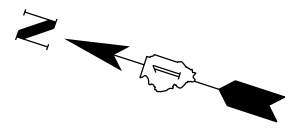
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	139
TS-07		CONTRACT NO. 60W54		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:

- 8 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH BUTTON
- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS:

- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

M:\US 20 OVER WEST BRANCH DUPAGE 112-154-800\DESIGN\CIVIL\CADD Sheets\US20_Signal\1P-09.dgn
 Date: 5/8/2015



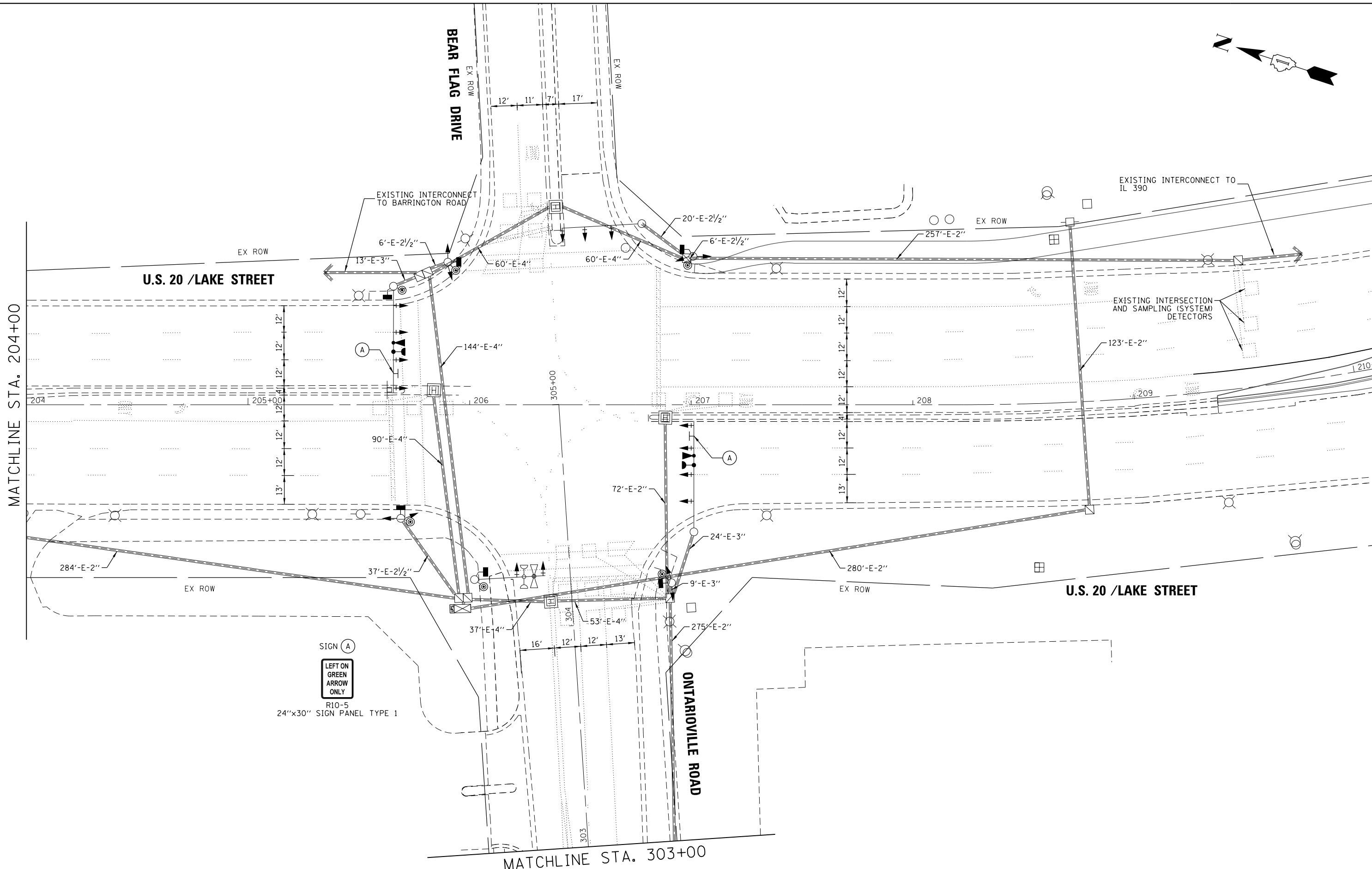
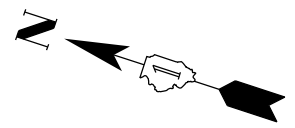
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PLOT DATE = 5/8/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
U.S. RTE 20 (LAKE ST.) AT ONTARIOVILLE ROAD/BEAR FLAG DRIVE
 SCALE: 1"=20' SHEET 1 OF 21 SHEETS STA. 203+00 TO STA. 208+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	140
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

TS 7695



SIGN (A)
 LEFT ON GREEN
 ARROW ONLY
 R10-5
 24"x30" SIGN PANEL TYPE 1

M:\US 20 OVER WEST BRANCH DUPAGE 12:154-903\DESIGN\CIVIL\CADD Sheets\US20_Signal\SP-11.dgn
 Date: 5/8/2015



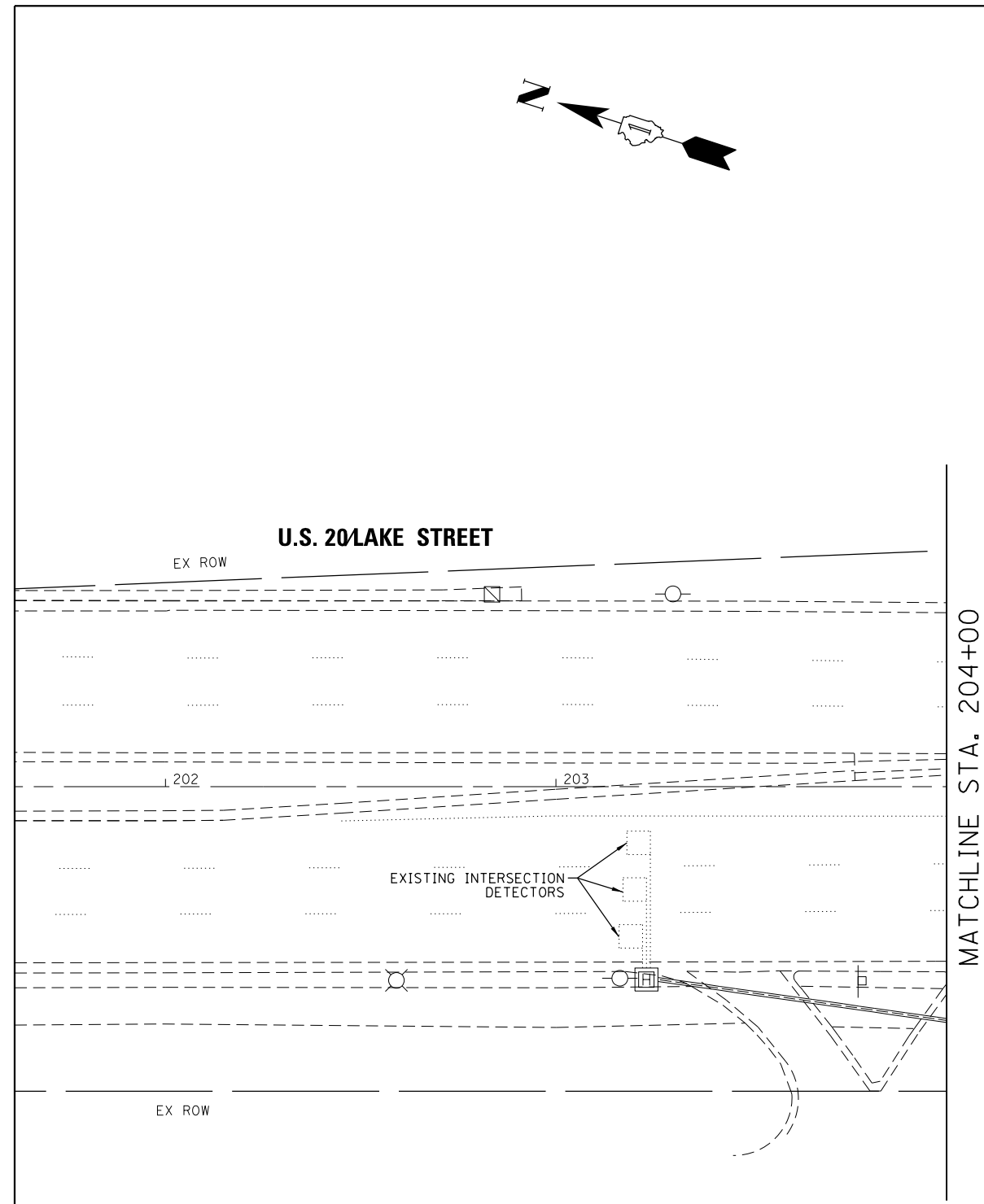
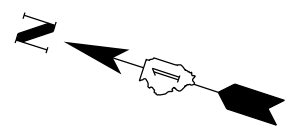
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	DRAWN - JKO	REVISED -
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PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

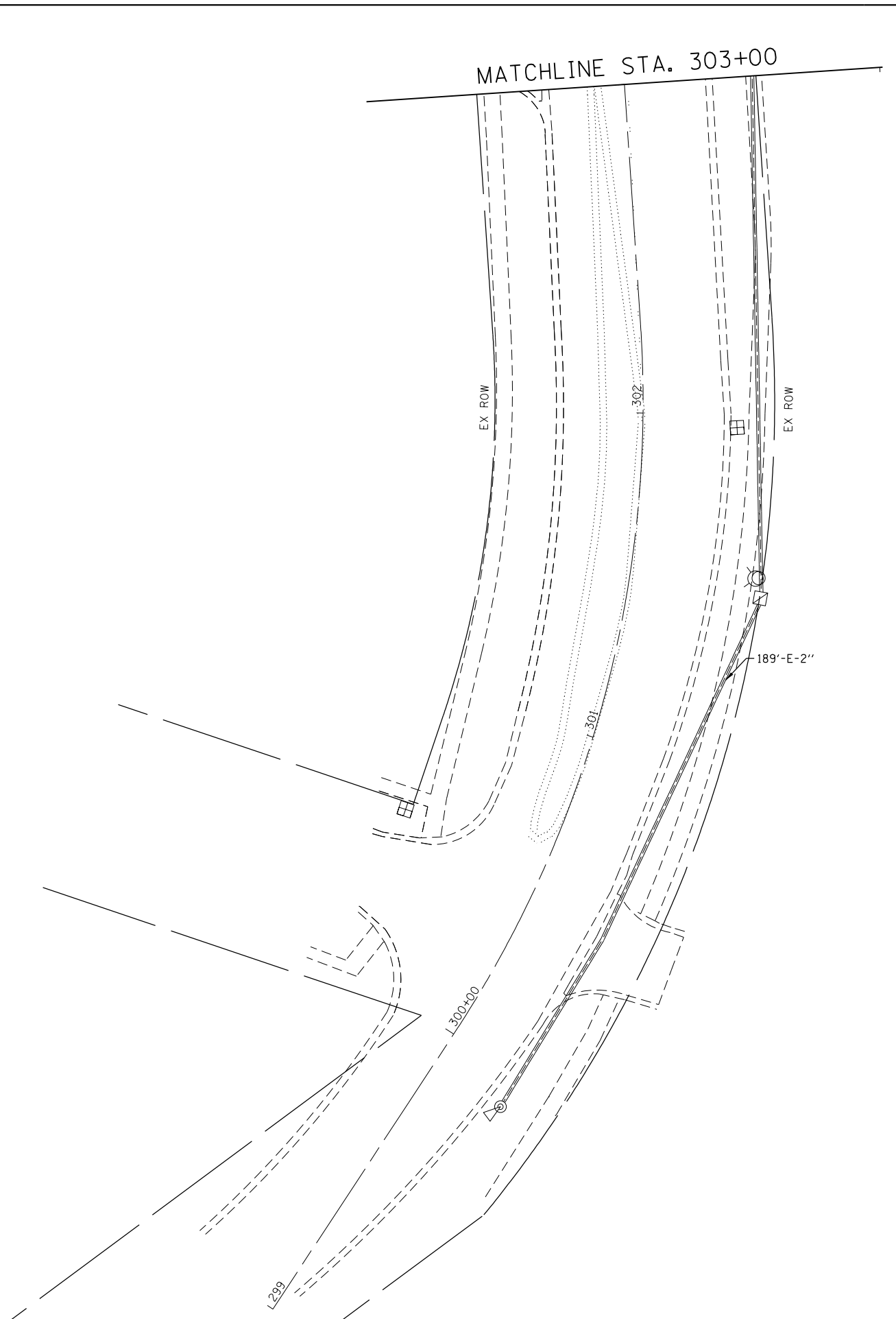
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
 U.S. RTE 20 (LAKE ST.) AT ONTARIOVILLE ROAD/BEAR FLAG DRIVE
 SCALE: 1"=20' SHEET 2 OF 21 SHEETS STA. 203+00 TO STA. 208+50

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 141
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

TS 7695



MATCHLINE STA. 204+00



MATCHLINE STA. 303+00

M:\US_20 OVER WEST BRANCH DUPAGE (12:154-903)\DESIGN\CIVIL\CADD_Sheets\US20_Signal\p1-1B.dgn
D:\p1-1B.dgn



USER NAME = JasonM	DESIGNED - JKO	REVISED -
DRAWN - JKO	REVISIONS -	
PLOT SCALE = 1"=20'	CHECKED - CH	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

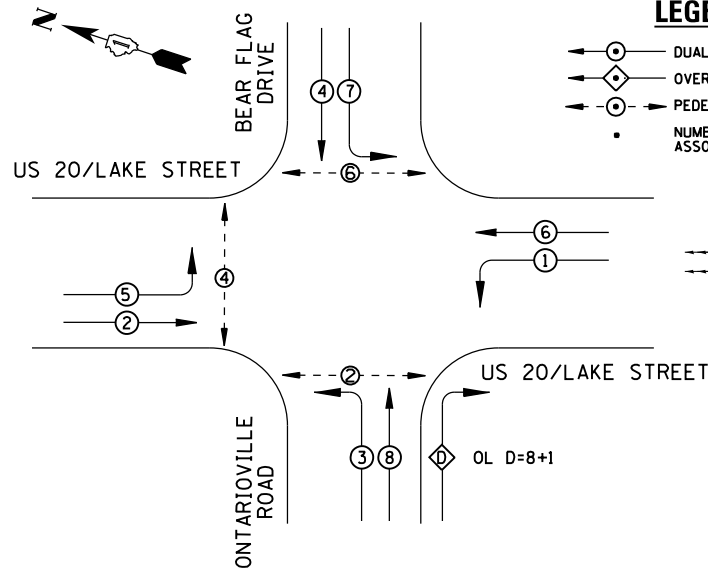
TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
U.S. RTE 20 (LAKE ST.) AT ONTARIOVILLE ROAD/BEAR FLAG DRIVE

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY	TOTAL SHEETS 209	SHEET NO. 142
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W54	

TS 7695

SCALE: 1"=20' SHEET 3 OF 21 SHEETS STA. 203+00 TO STA. 208+50

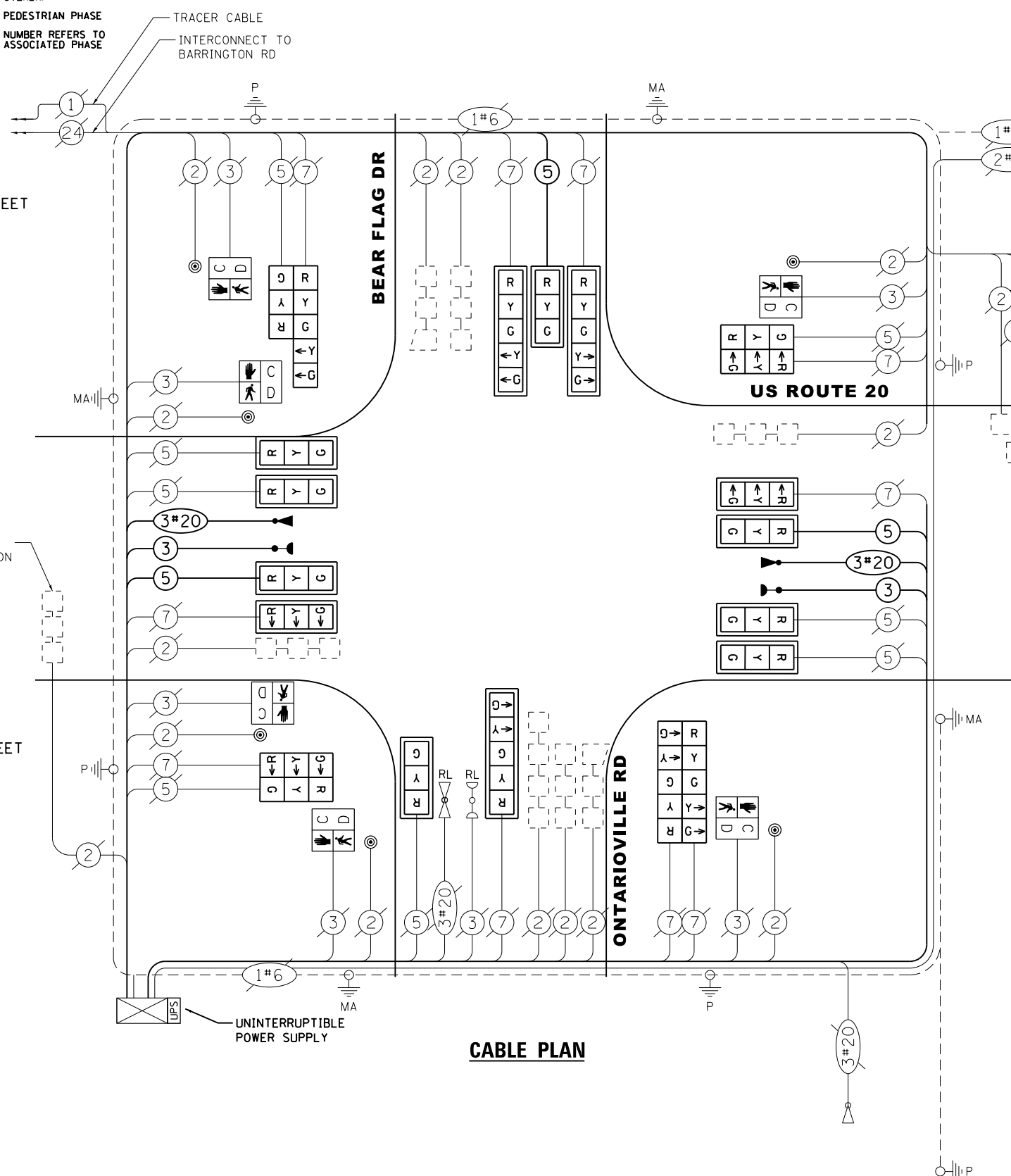
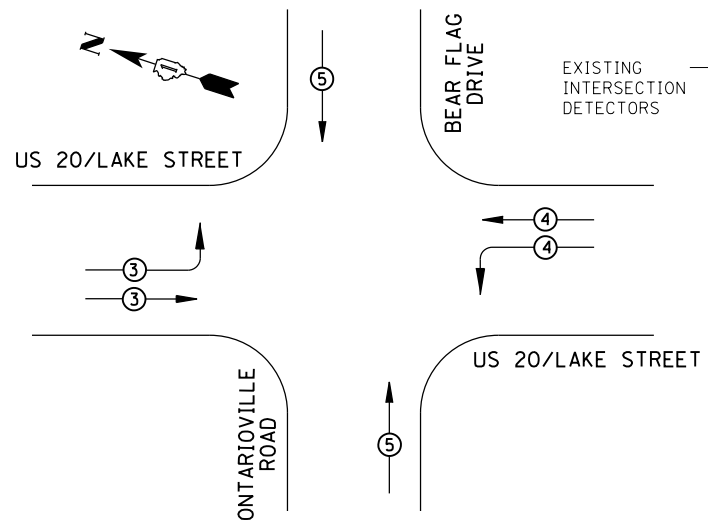
PROPOSED CONTROLLER SEQUENCE



LEGEND

- ◉ DUAL ENTRY PHASE
- ◊ OVERLAP
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	10
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	450
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	790
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE	EACH	13
CONFIRMATION BEACON	EACH	2
LIGHT DETECTOR	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	6
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	450
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE INCAND. LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	17	0.50	144.50
(YELLOW)	17	25	0.25	106.25
(GREEN)	17	15	0.25	63.75
ARROW	24	12	0.33	95.04
PED. SIGNAL	6	25	1.00	150.00
CONTROLLER	1	100	1.00	100.00
UPS	1	25	1.00	25.00
ILLUM. SIGN	-	25	0.05	-
FLASHER	-	-	0.50	-
ENERGY COSTS TO: VILLAGE OF HANOVER PARK 2121 W LAKE STREET HANOVER PARK, ILLINOIS 60133				TOTAL = 684.54
ENERGY SUPPLY CONTACT: DAN SCHACHT PHONE: (630) 437-2137 COMPANY: COMMONWEALTH EDISON				



USER NAME = JasonM
DESIGNED - JKO
DRAWN - JKO
CHECKED - CH
DATE - 5/8/2015

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DIAGRAM AND EVP SEQUENCE
U.S. RTE 20 (LAKE ST.) AT ONTARIOVILLE ROAD/BEAR FLAG DRIVE
SCALE: NTS SHEET 4 OF 21 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	143
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

TS 7695

M:\US 20 OVER WEST BRANCH DUPAGE 12-154-903\DESIGN\CIVIL\CADD Sheets\US20_Signal\IP-12.dgn

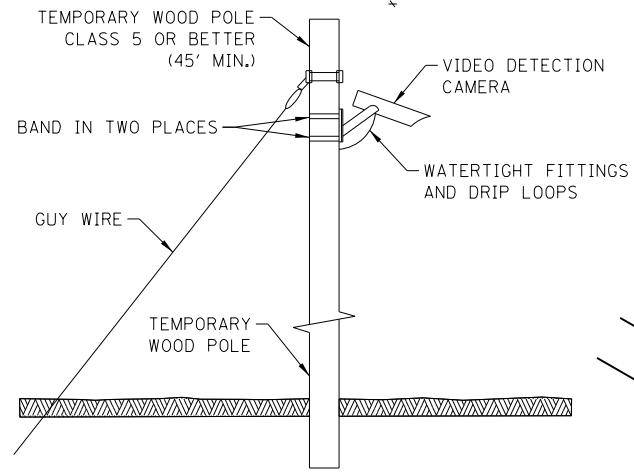
REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:

- 3 EACH TRAFFIC SIGNAL POST
- 14 EACH 3-SECTION SIGNAL HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR

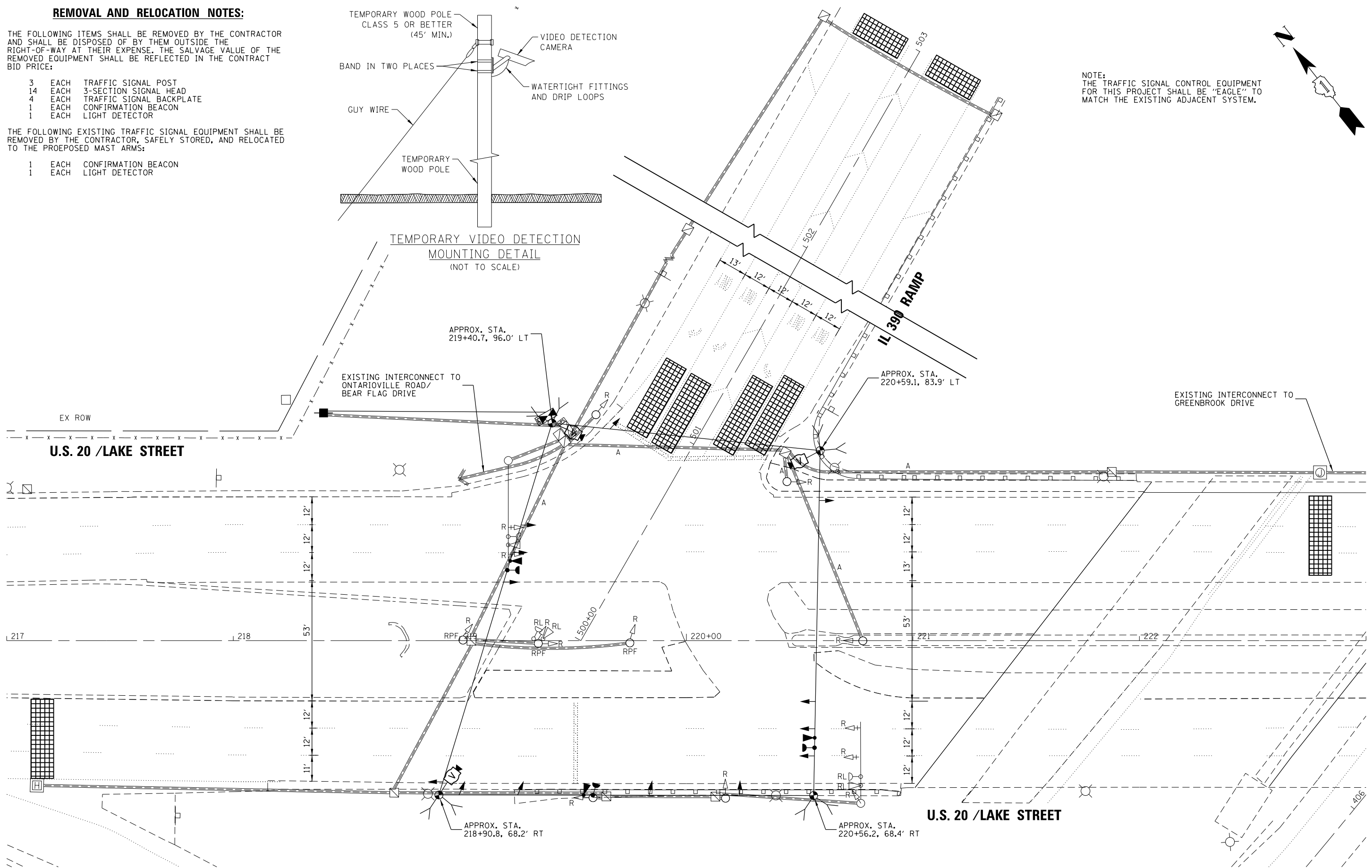
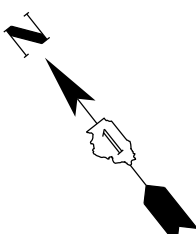
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS:

- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



USER NAME = JasonM	DESIGNED - JKO	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JKO	REVISED -
PLOT DATE = 5/8/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

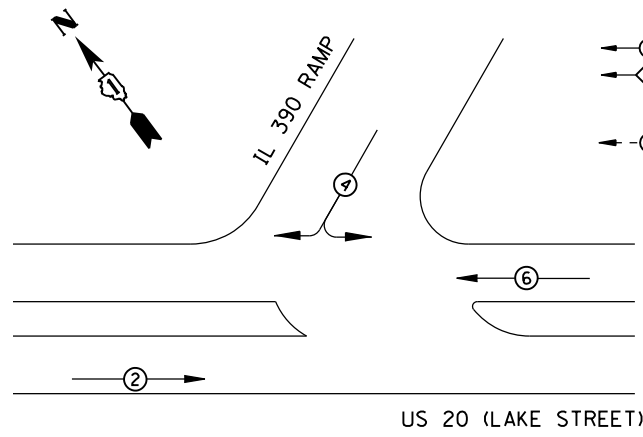
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
U.S. RTE 20 (LAKE ST.) AT ELGIN O'HARE RAMP
SCALE: 1"=20' SHEET 5 OF 21 SHEETS STA. 217+00 TO STA. 223+00

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 144
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

TS 21910

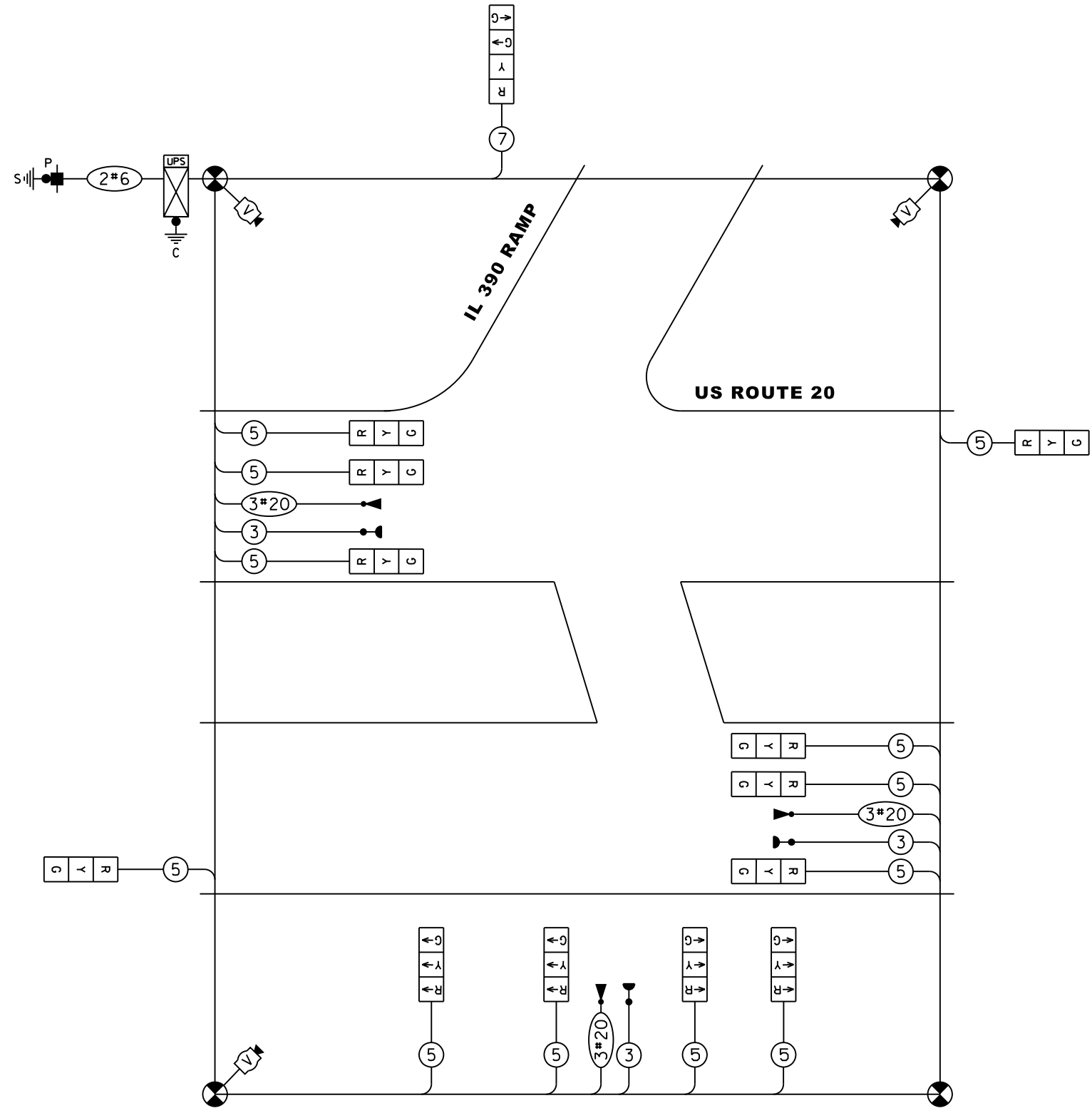
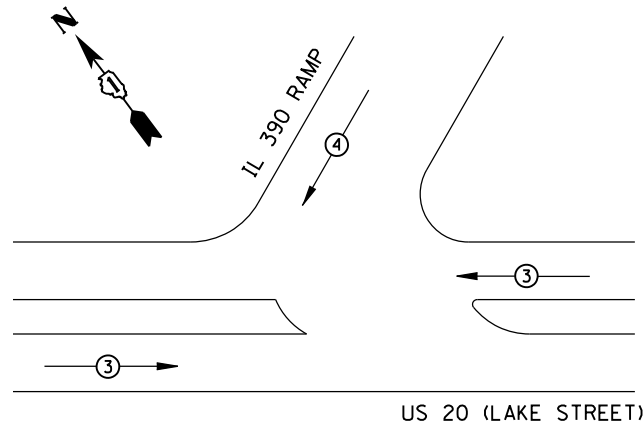
PROPOSED CONTROLLER SEQUENCE



LEGEND

- ⊕ DUAL ENTRY PHASE
- ⊖ OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE
- ⊙ PEDESTRIAN PHASE

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



TEMPORARY CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	9	17		0.50	76.50
(YELLOW)	9	25		0.25	56.25
(GREEN)	8	15		0.25	30.00
ARROW	14	12		0.33	55.44
PED. SIGNAL	-	25		1.00	-
CONTROLLER	1	100		1.00	100.00
UPS	1	25		1.00	25.00
ILLUM. SIGN	-	25		0.05	-
VIDEO SYSTEM	1	150		1.00	150.00
FLASHER	-	-		0.50	-

ENERGY COSTS TO: TOTAL = **493.19**
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY CONTACT: DAN SCHACHT
 PHONE: (630) 437-2137
 COMPANY: COMMONWEALTH EDISON

	USER NAME = JasonM	DESIGNED - JKO	REVISED -
	PLOT SCALE = NTS	DRAWN - JKO	REVISED -
	DATE = 5/8/2015	CHECKED - CH	REVISED -
		DATE = 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE
U.S. RTE 20 (LAKE ST.) AT ELGIN O'HARE RAMP**

SCALE: NTS SHEET 6 OF 21 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	145
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

TS 21910

SIGN (A)

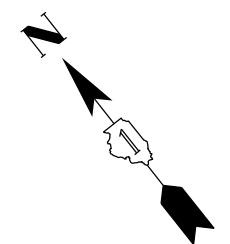
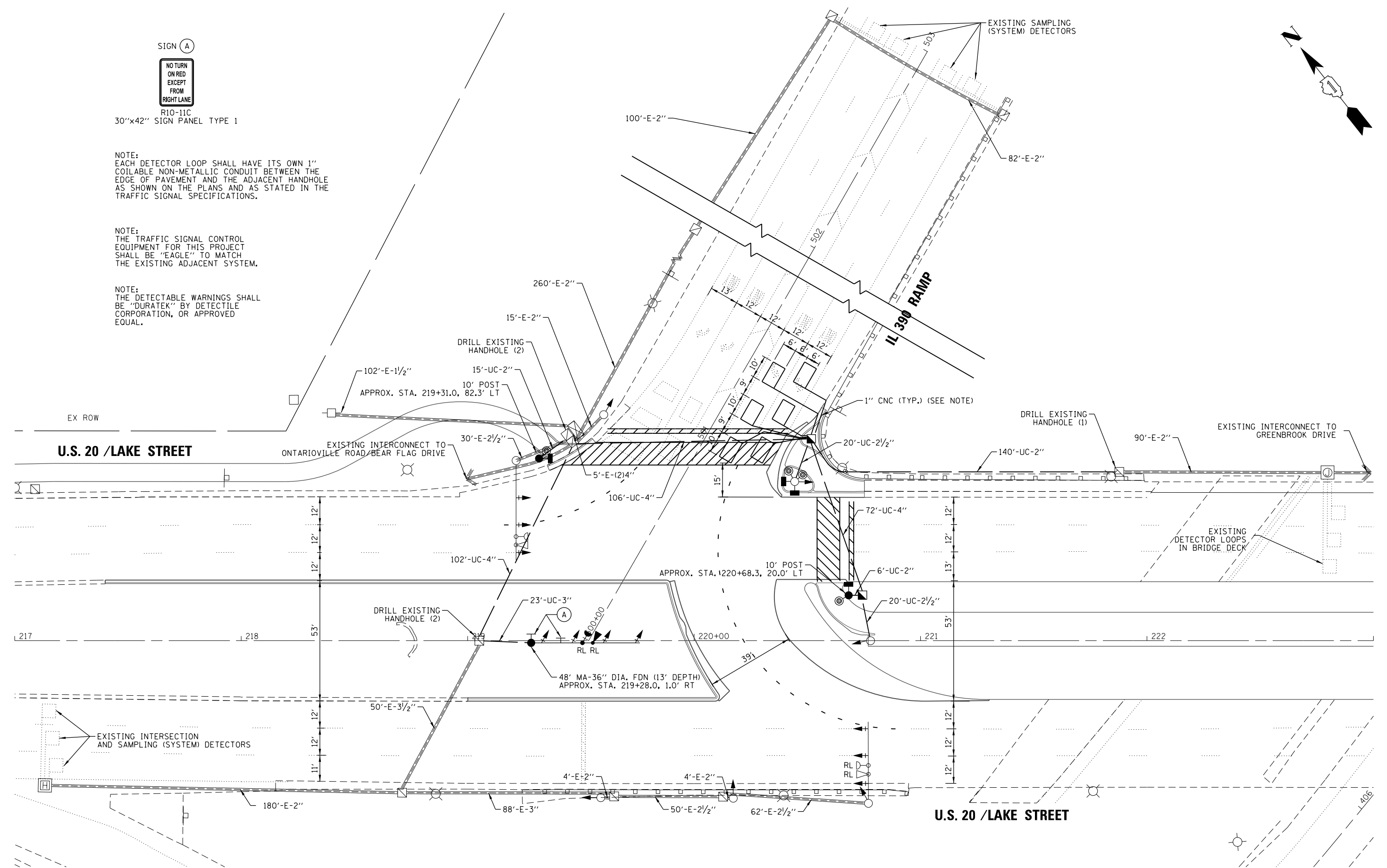


R10-11C
30"x42" SIGN PANEL TYPE 1

NOTE:
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
THE DETECTABLE WARNINGS SHALL BE "DURATEK" BY DETECTILE CORPORATION, OR APPROVED EQUAL.



M:\US 20 OVER WEST BRANCH DUPAGE (12-154-803)\DESIGN\CIVIL\CAD\ Sheets\US20_Signal\p-15.dgn



USER NAME = JasonM	DESIGNED - JKO	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JKO	REVISED -
PLOT DATE = 5/8/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

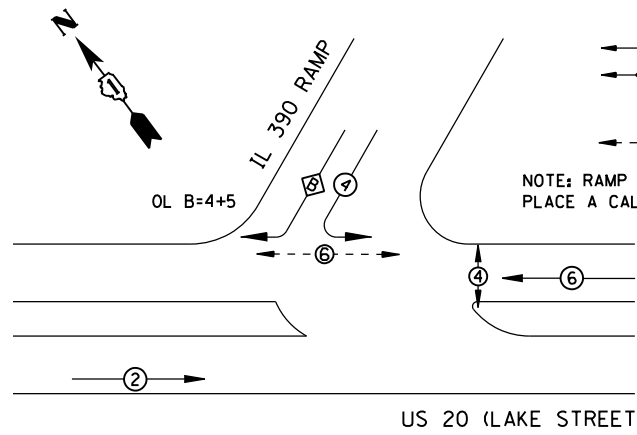
TRAFFIC SIGNAL MODERNIZATION PLAN
U.S. RTE 20 (LAKE ST.) AT ELGIN O'HARE RAMP

SCALE: 1"=20' SHEET 7 OF 21 SHEETS STA. 217+00 TO STA. 223+00

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 146
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

TS 21910

PROPOSED CONTROLLER SEQUENCE

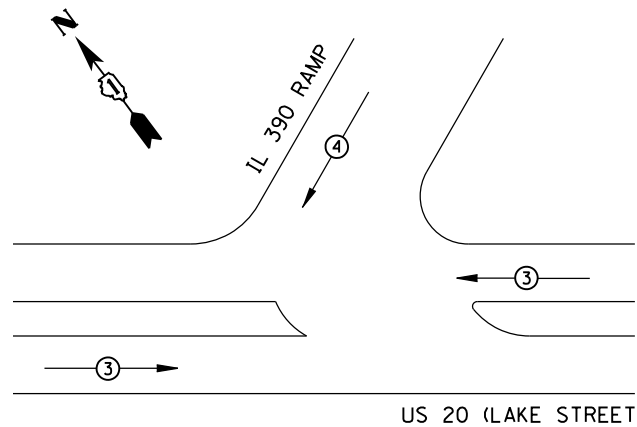


LEGEND

- ⊕ DUAL ENTRY PHASE
- ⊖ OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE
- ⊙ PEDESTRIAN PHASE

NOTE: RAMP RIGHT TURN LANE LOOPS PLACE A CALL TO DUMMY PHASE 5

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

EXISTING SAMPLING (SYSTEM) DETECTORS

TRACER CABLE

INTERCONNECT TO GREENBROOK DR

EXISTING INTERSECTION DETECTORS

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SO FT	17.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	23
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	280
HANDHOLE	EACH	2
ELECTRIC CABLE IN TRENCH, LEAD-IN, NO. 14 1 PAIR	FOOT	240
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	680
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	900
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1870
TRAFFIC SIGNAL POST, 10 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	10
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	230
RELOCATE EXISTING CONFIRMATION BEACON	EACH	2

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	16		17	0.50	136.00
(YELLOW)	10		25	0.25	62.50
(GREEN)	3		15	0.25	11.25
ARROW	19		12	0.33	75.24
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
UPS	1		25	1.00	25.00
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
TOTAL =					509.99

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: DAN SCHACHT
PHONE: (630) 437-2137
COMPANY: COMMONWEALTH EDISON

TERRA ENGINEERING LTD.

USER NAME = JasonM
DESIGNED - JKO
DRAWN - JKO
PLOT SCALE = NTS
PLOT DATE = 5/8/2015

REVISOR -
REVISION -
CHECKED - CH
DATE - 5/8/2015

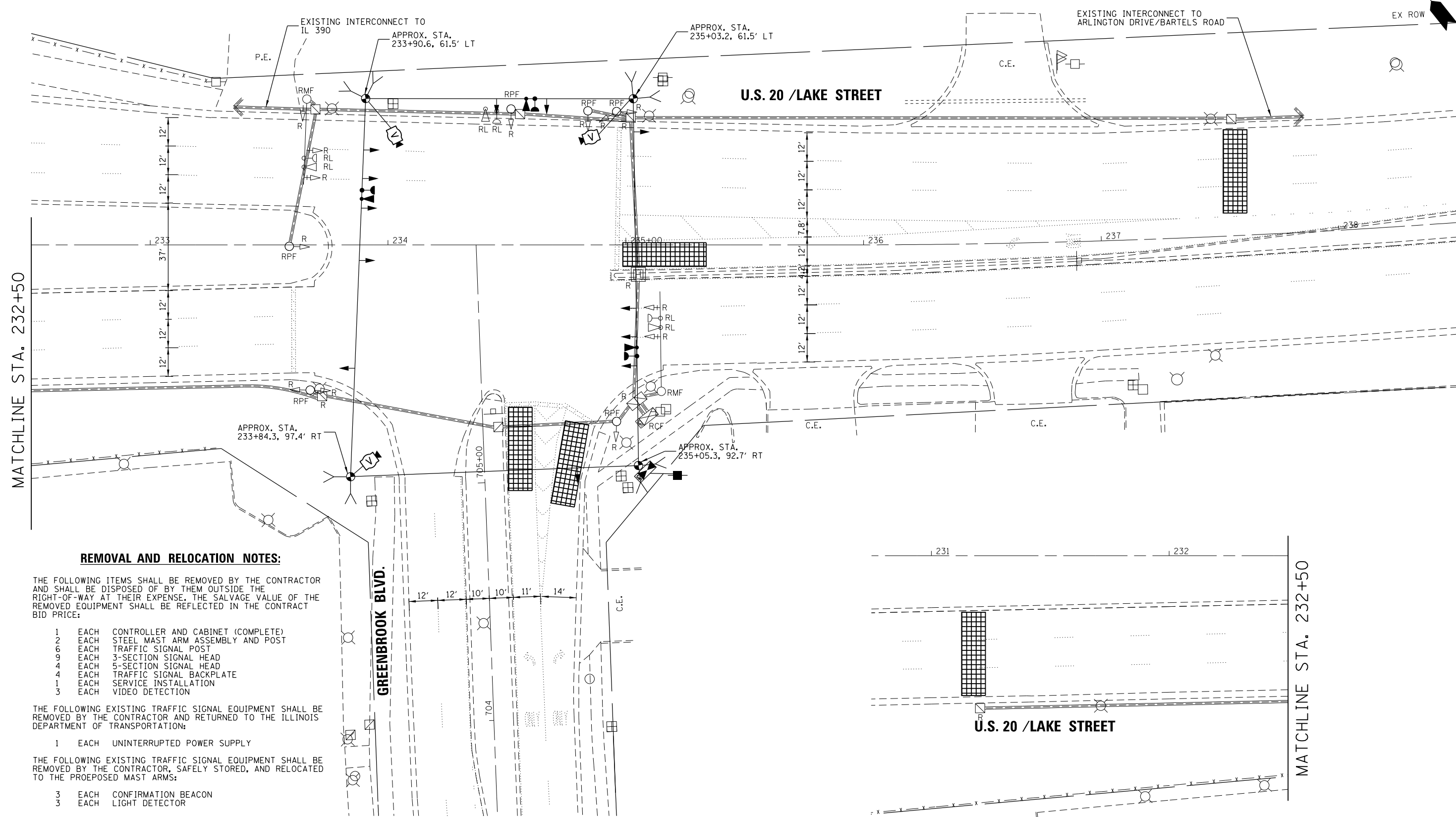
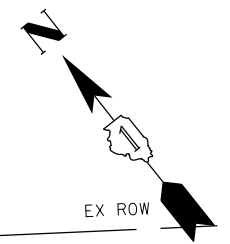
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN AND PHASE DIAGRAM AND EVP SEQUENCE
U.S. RTE 20 (LAKE ST.) AT ELGIN O'HARE RAMP**

SCALE: NTS SHEET 8 OF 21 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 345 SECTION 6Y-TS&N(13) COUNTY DUPAGE TOTAL SHEETS 209 SHEET NO. 147
CONTRACT NO. 60W54
ILLINOIS FED. AID PROJECT

M:\US 20 OVER WEST BRANCH DUPAGE 112-154-803\DESIGN\CIVIL\CAD\ Sheets\US20_Signal\p-16.dgn



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 6 EACH TRAFFIC SIGNAL POST
- 9 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 3 EACH VIDEO DETECTION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RETURNED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION:

- 1 EACH UNINTERRUPTED POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED MAST ARMS:

- 3 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR

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 Date: 5/8/2015



USER NAME = JasonM	DESIGNED - JKO	REVISED -
PLOT SCALE = 1"=20'	DRAWN - JKO	REVISED -
PLOT DATE = 5/8/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.**

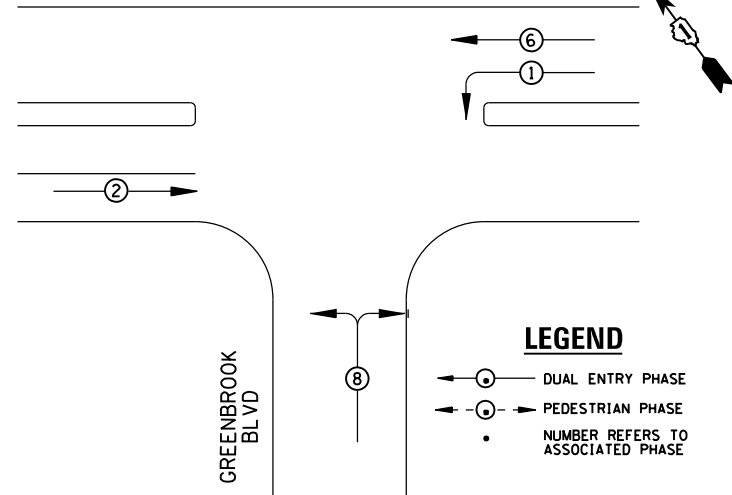
SCALE: 1"=20' SHEET 9 OF 21 SHEETS STA. 231+00 TO STA. 237+00

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 148
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

TS 13770

TEMPORARY CONTROLLER SEQUENCE

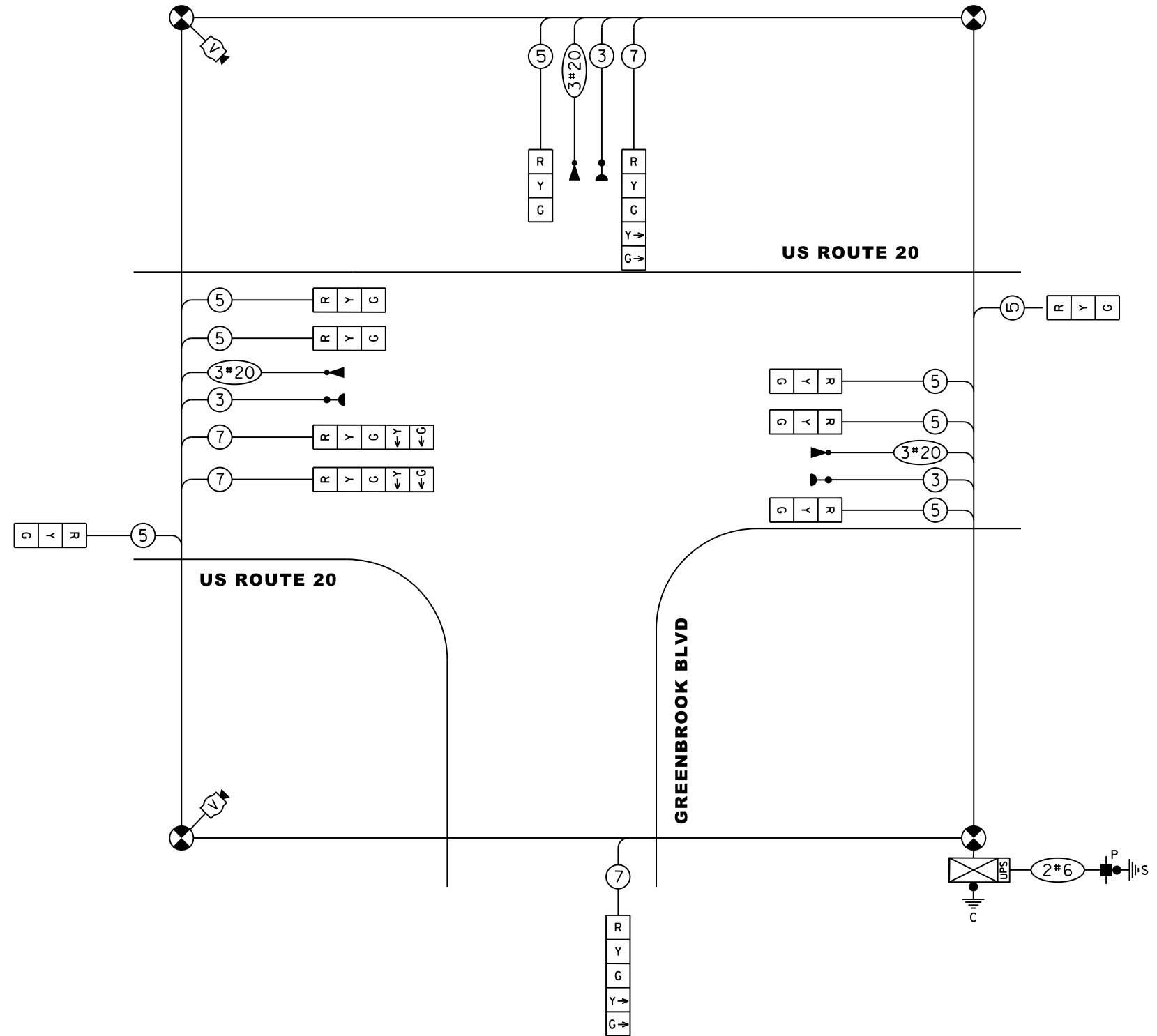
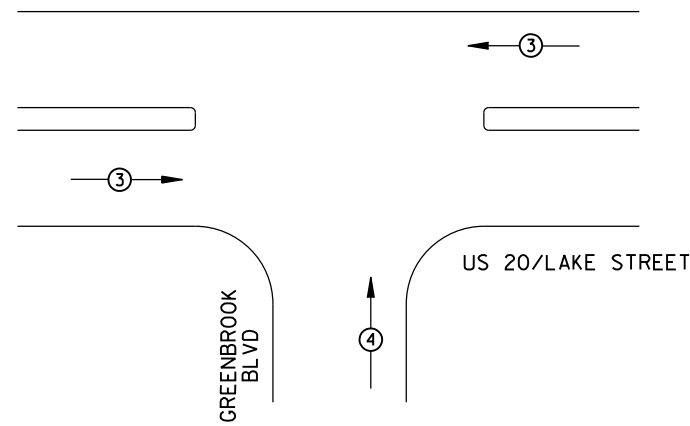
US 20/LAKE STREET



LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



TEMPORARY CABLE PLAN

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	%OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.25	24.00
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
UPS	1		25	1.00	25.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1		150	1.00	150.00
FLASHER	-		-	0.50	-
ENERGY COSTS TO:				TOTAL =	521.00
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096					
ENERGY SUPPLY CONTACT:	DAN SCHACHT				
PHONE:	(630) 437-2137				
COMPANY:	COMMONWEALTH EDISON				

	USER NAME = JasonM	DESIGNED - JKO	REVISED -
	PLOT SCALE = NTS	DRAWN - JKO	REVISED -
	PLOT DATE = 5/8/2015	CHECKED - CH	REVISED -
		DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE
U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.

SCALE: NTS SHEET 10 OF 21 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	149
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W54	

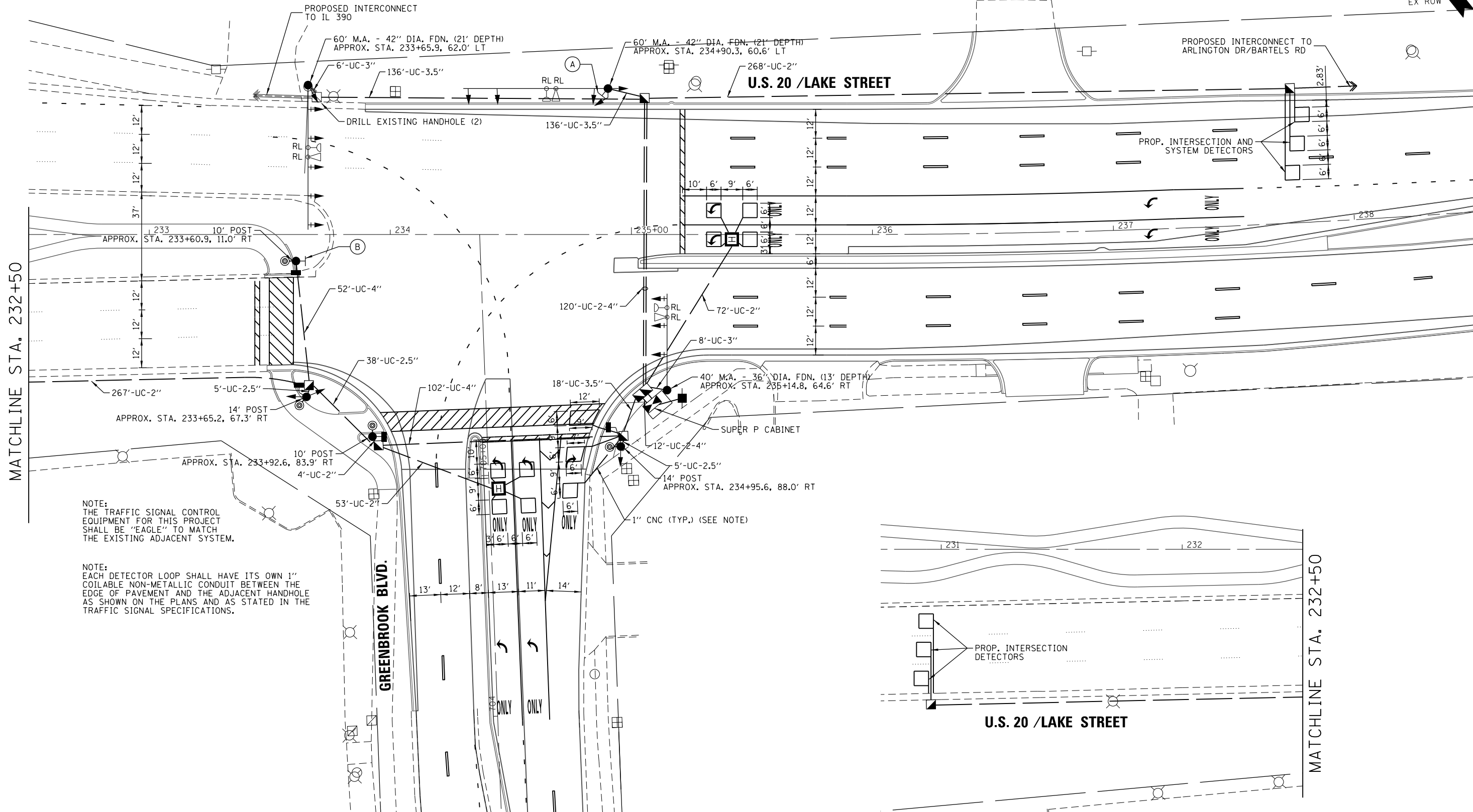
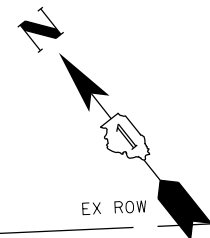
TS 13770



R3-4
36"x36" SIGN PANEL TYPE 1



R4-7
24"x30" SIGN PANEL TYPE 1



NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

MATCHLINE STA. 232+50

MATCHLINE STA. 232+50

MAJUS 20 OVER WEST BRANCH DUPAGE 112:154-903\DESIGN\CIVIL\CADD Sheets\US20_Signal\IP-19.dgn
Dr:faul1



USER NAME = JasonM	DESIGNED - JKO	REVISED -
	DRAWN - JKO	REVISED -
PLOT SCALE = 1"=20'	CHECKED - CH	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

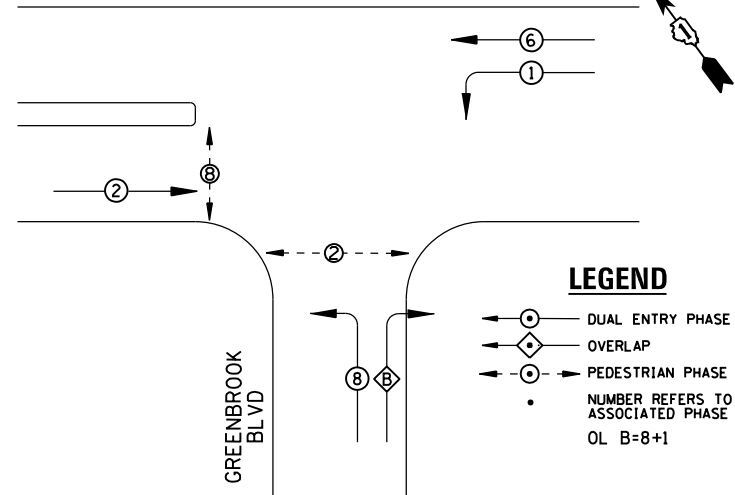
TRAFFIC SIGNAL MODERNIZATION PLAN
U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.
SCALE: 1"=20' SHEET 11 OF 21 SHEETS STA. 231+00 TO STA. 237+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	150
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

TS 13770

PROPOSED CONTROLLER SEQUENCE

US 20/LAKE STREET

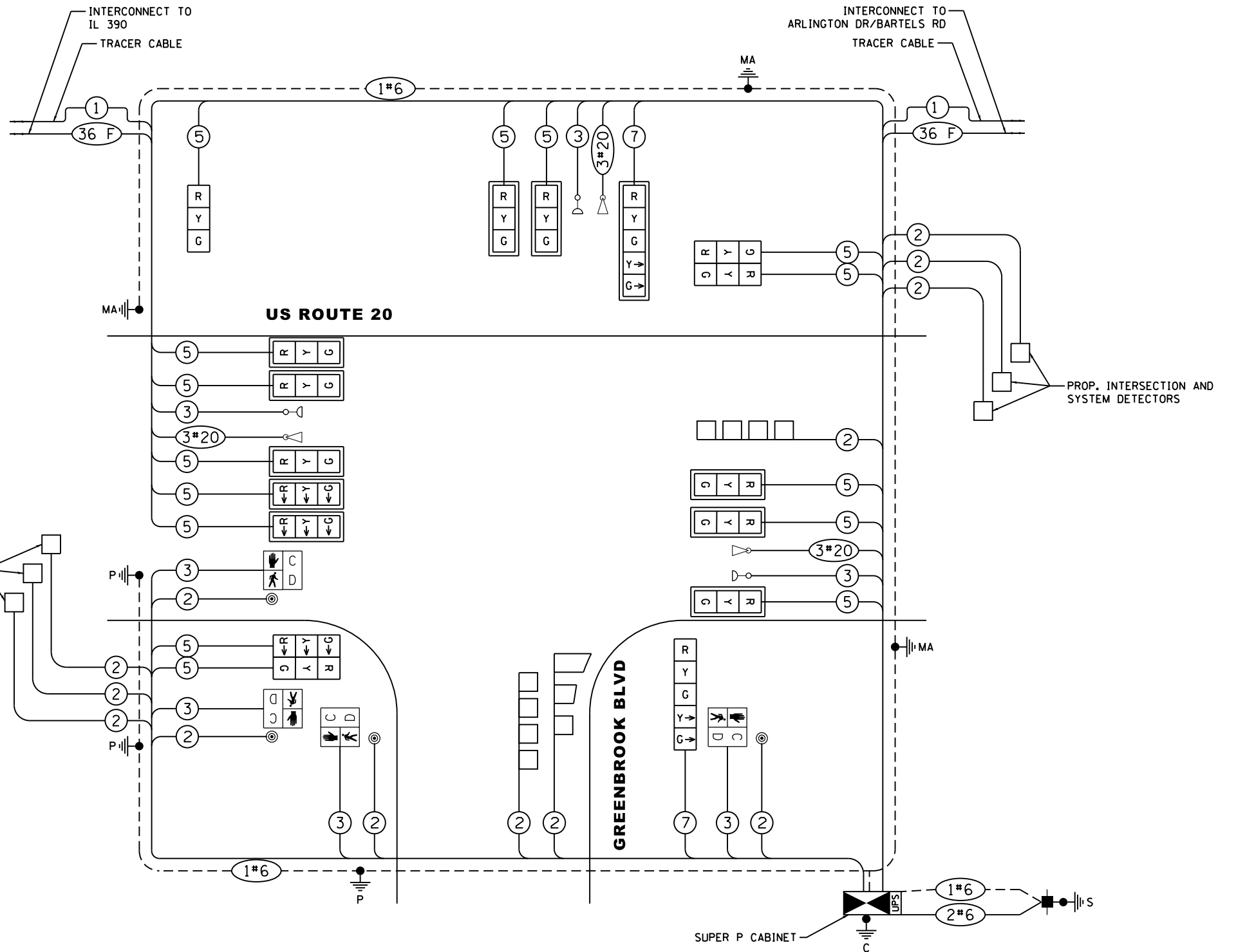
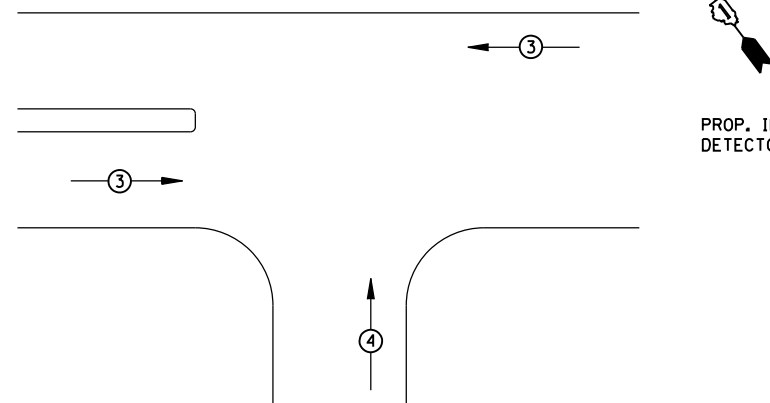


LEGEND

- → ○ DUAL ENTRY PHASE
- ◇ → ◇ OVERLAP
- → ○ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- OL B=8+1

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**

US 20/LAKE STREET



CABLE PLAN
(NOT TO SCALE)

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	14		17	0.50	119.00
(YELLOW)	14		25	0.25	87.50
(GREEN)	14		15	0.25	52.50
ARROW	13		12	0.25	39.00
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
UPS	1		25	1.00	25.00
ILLUM. SIGN	-		25	0.05	
FLASHER	-			0.50	

ENERGY COSTS TO: TOTAL = 523.00
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY CONTACT: DAN SCHACHT
PHONE: (630) 437-2137
COMPANY: COMMONWEALTH EDISON

TERRA ENGINEERING LTD.	USER NAME = JasonM	DESIGNED - JKO	REVISED -
	PLOT SCALE = NTS	DRAWN - JKO	REVISED -
	PLOT DATE = 5/8/2015	CHECKED - CH	REVISED -
		DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DIAGRAM AND EVP SEQUENCE
U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.

SCALE: NTS SHEET 12 OF 21 SHEETS STA. N/A TO STA. N/A

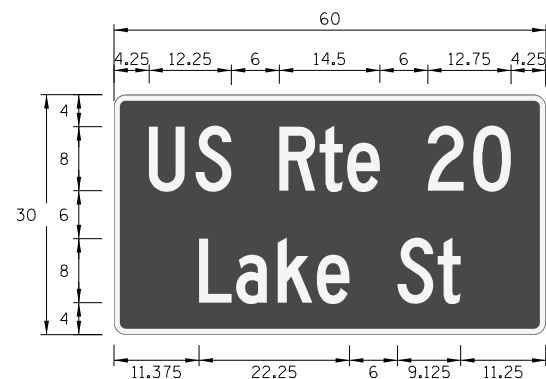
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	151
CONTRACT NO. 60W54				

TS 13770

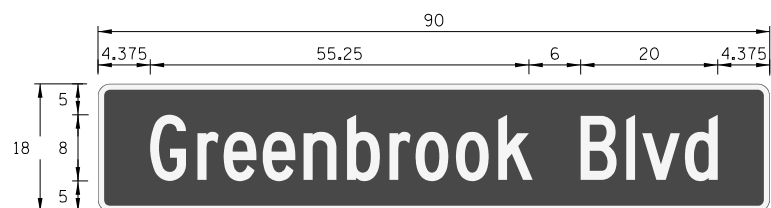
ILLINOIS FED. AID PROJECT

M:\US 20 OVER WEST BRANCH DUPAGE 12-154-903\DESIGN\CIVIL\CADD Sheets\US20_Signal\Pr-20.dgn

STREET NAME SIGN DETAILS



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	12.5	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QUANTITY REQUIRED
D	11.25	2	ZZ	2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	35
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	716
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	104
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	43
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	595
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2285
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	660
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1460
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3835
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	770
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	565
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
• RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
+• RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
• EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	785
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

- 100% COST TO HANOVER PARK
- + EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT IS TO BE RELOCATED TO THE CABINET AT THE ONTARIOVILLE / BEAR FLAG INTERSECTION.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 13770

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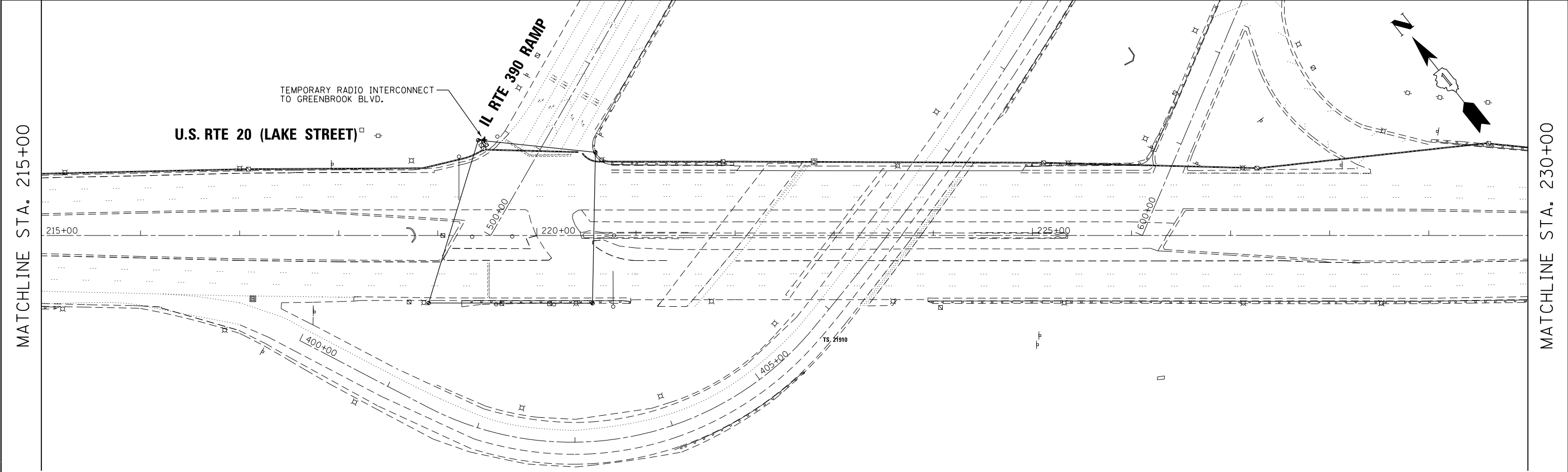
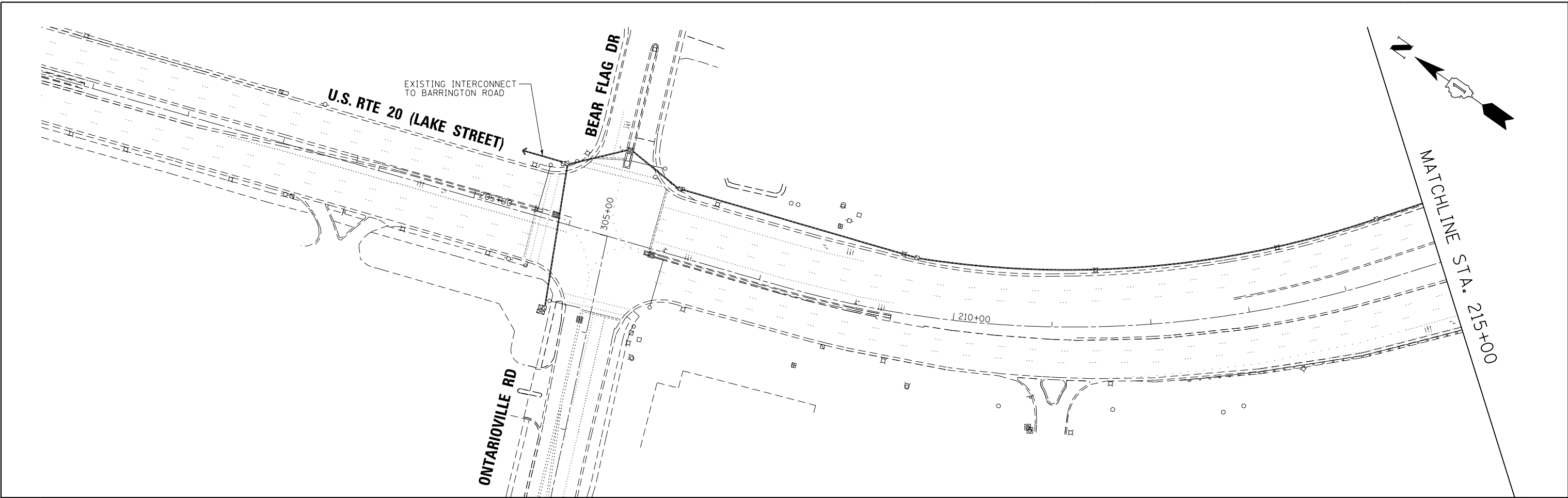
USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
	DRAWN - JKO	REVISED -
PLOT SCALE =	CHECKED - CH	REVISED -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.**

SCALE: SHEET 13 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	152
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W54	



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USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
PLOT SCALE = 1"=50'	DRAWN - JKO	REVISED -
PLOT DATE = 6/19/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

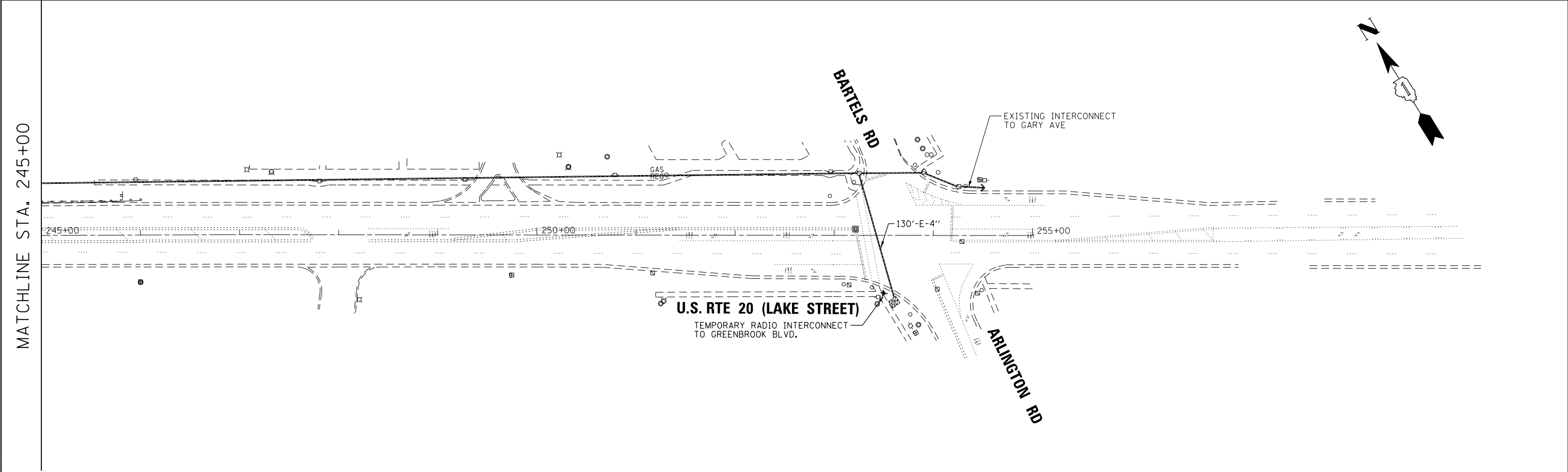
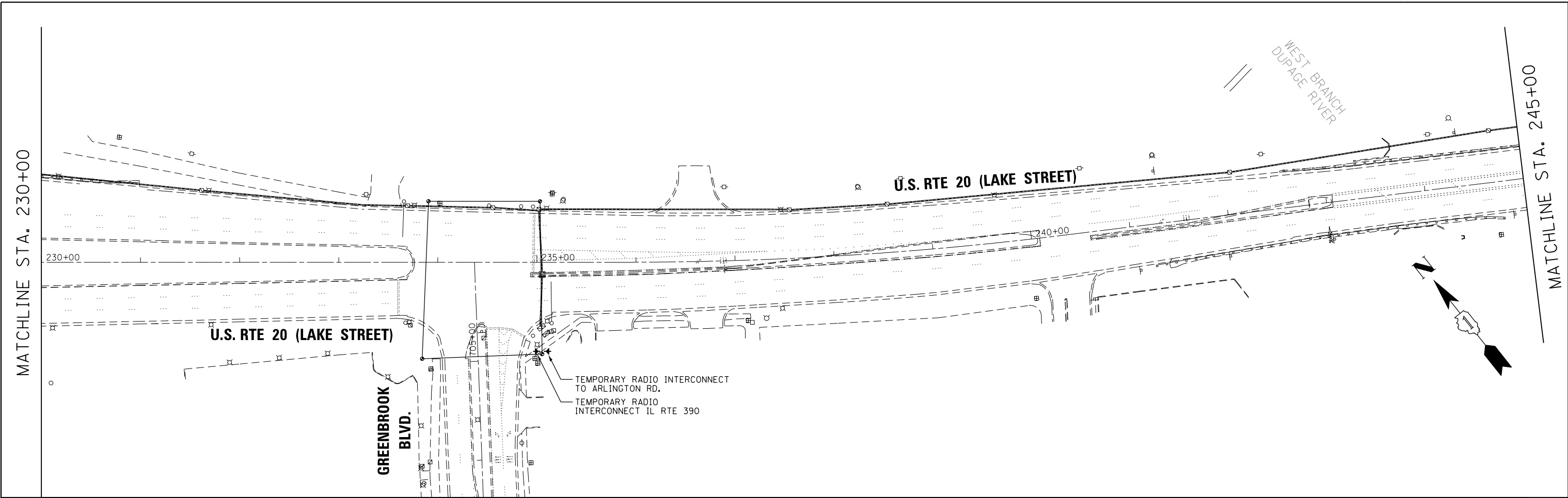
**TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: 1"=50' SHEET 14 OF 21 SHEETS STA. 203+00 TO STA. 230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	153
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

EAGLE 5F

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Dr Paul



USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
DRAWN - JKO	REVISOR -	
PLOT SCALE = 1"=50'	CHECKED - CH	REVISOR -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

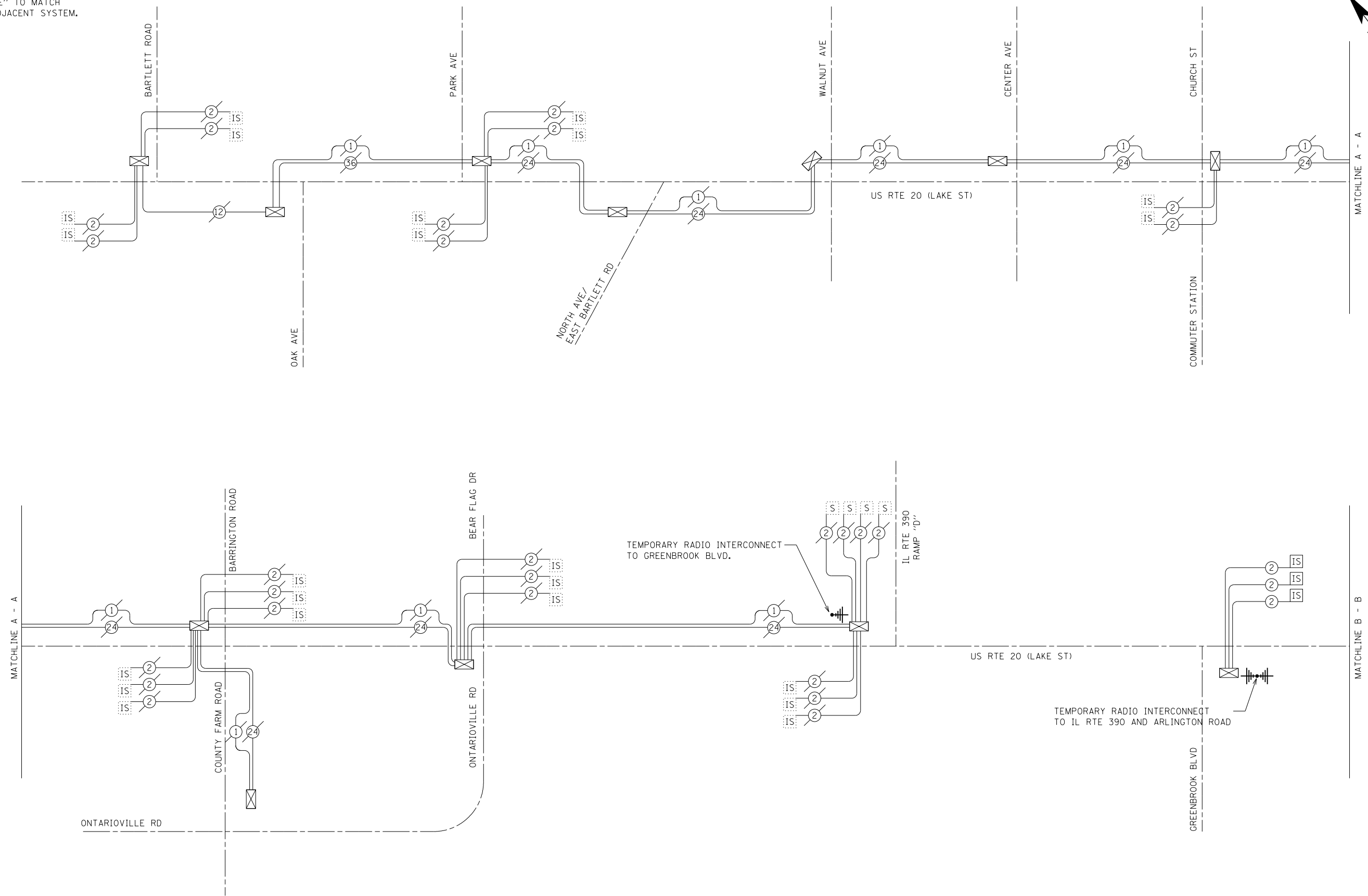
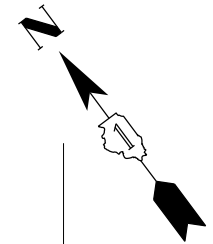
**TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: 1"=50' SHEET 15 OF 21 SHEETS STA. 230+00 TO STA. 254+00

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 154
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

EAGLE 5F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
DRAWN - JKO	REVISIONS -	
PLOT SCALE = NTS	CHECKED - CH	REVISED -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

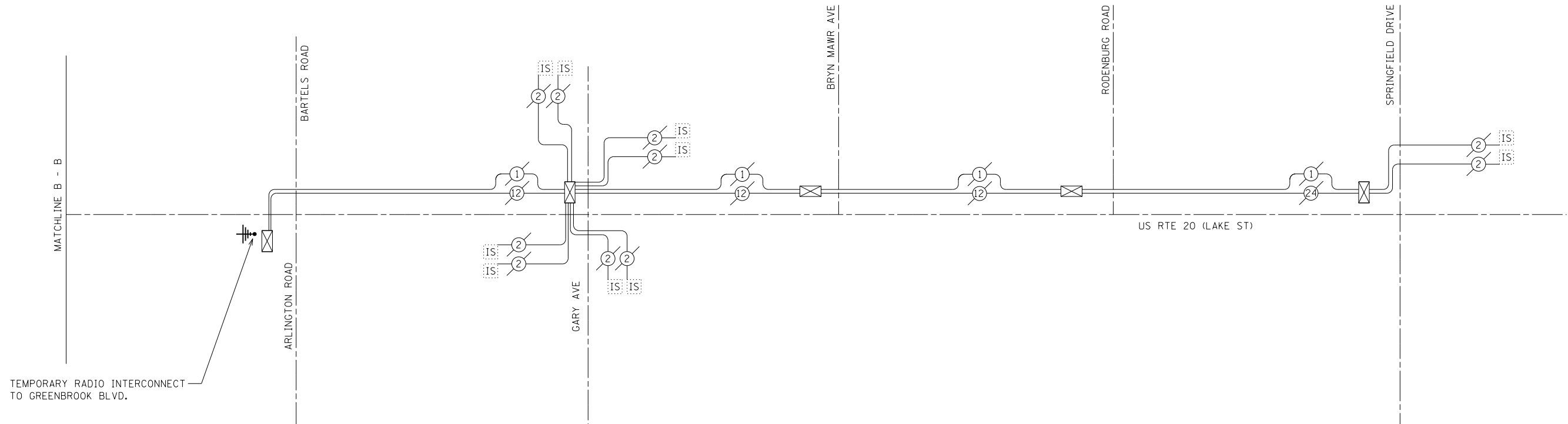
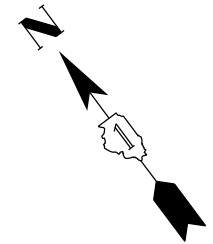
**TEMPORARY INTERCONNECT SCHEMATIC (SHEET 1 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: NTS SHEET 16 OF 21 SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 155
CONTRACT NO. 60W54			ILLINOIS FED. AID PROJECT	

EAGLE 5F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
DRAWN - JKO	CHECKED - CH	REVISED -
PLOT SCALE = NTS	DATE - 5/8/2015	REVISED -
PLOT DATE = 6/19/2015		

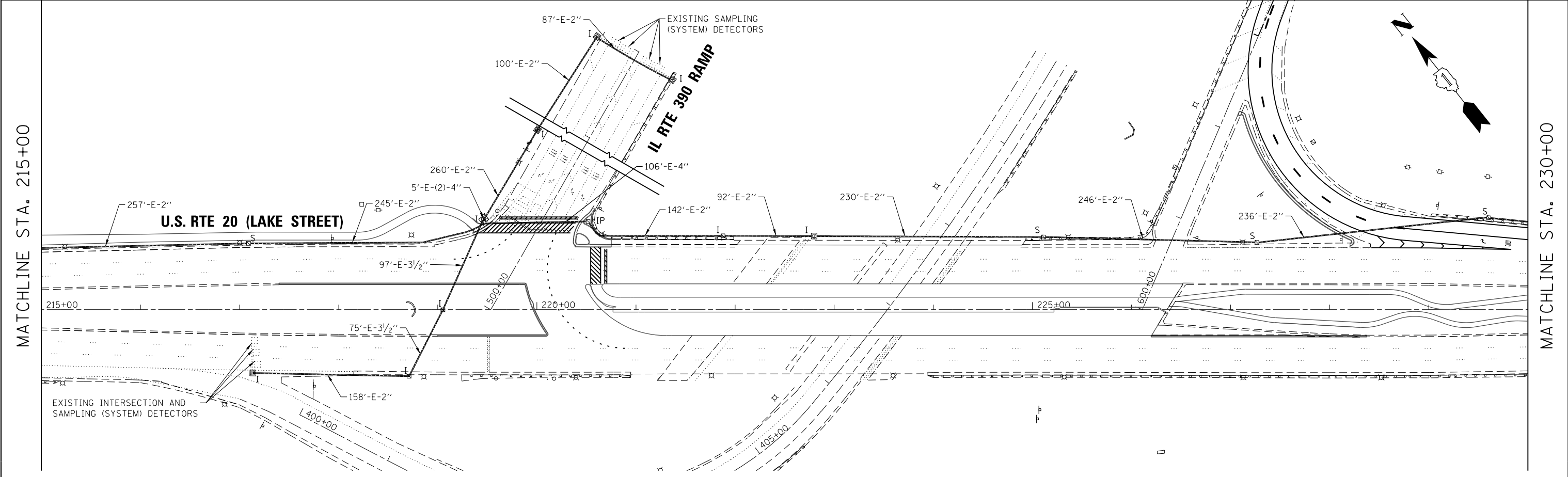
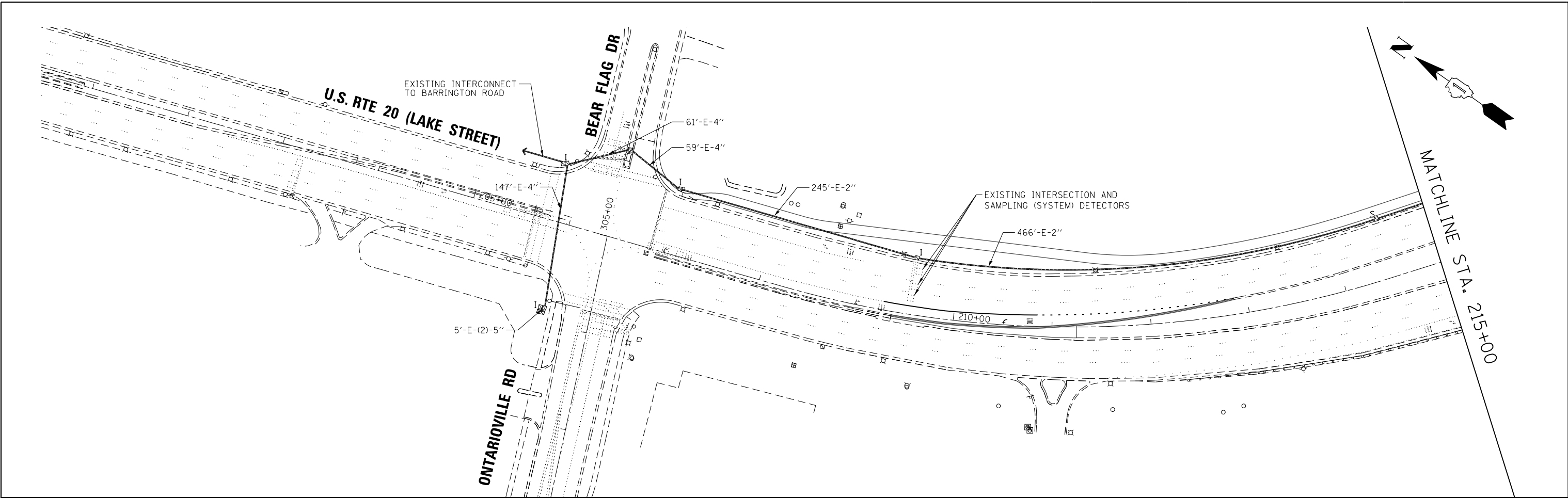
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC (SHEET 2 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: NTS SHEET 17 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	156
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W54	

EAGLE 5F



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 26.dgn
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MATCHLINE STA. 215+00

MATCHLINE STA. 230+00



USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
PLOT SCALE = 1"=50'	DRAWN - JKO	REVISED -
PLOT DATE = 6/19/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

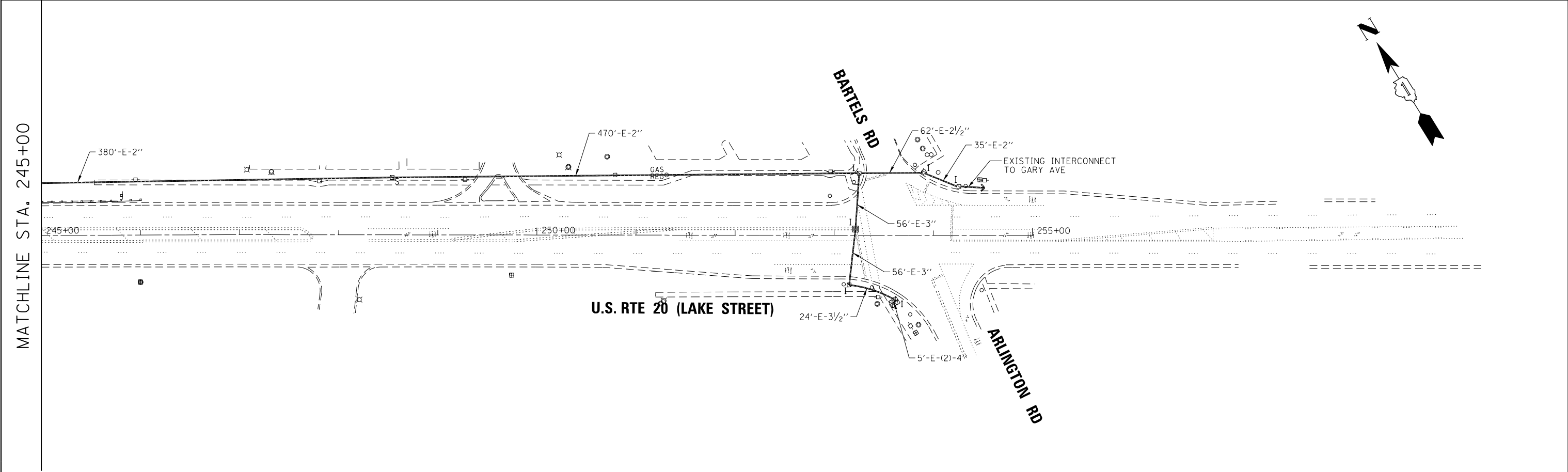
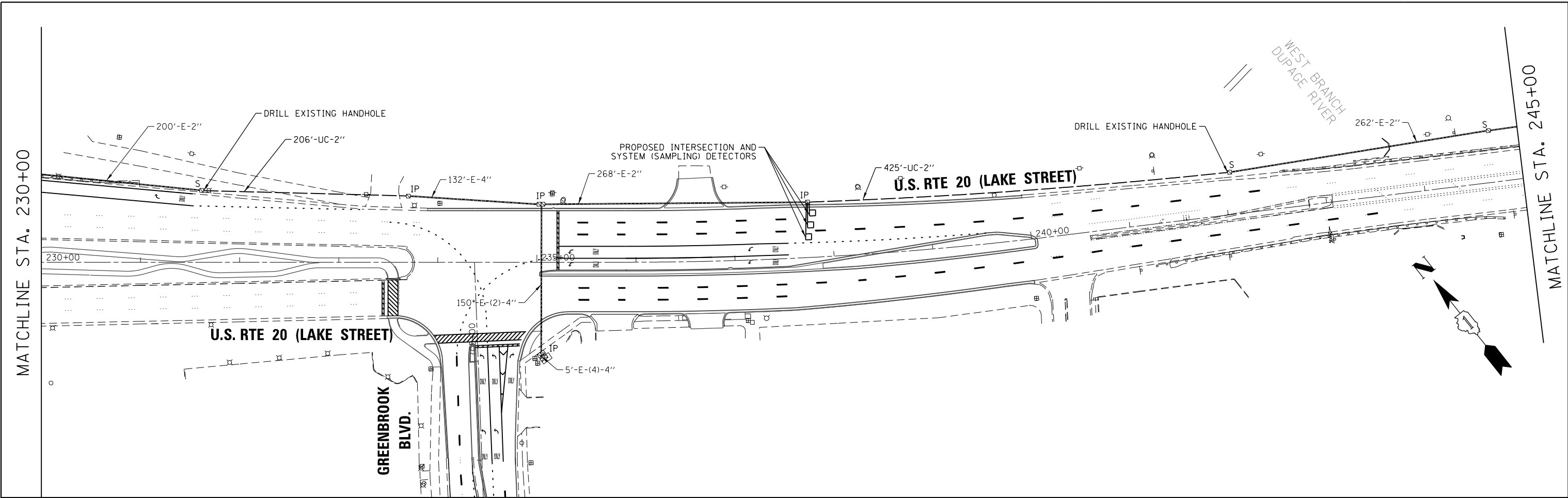
PROPOSED INTERCONNECT PLAN (SHEET 1 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD

SCALE: 1"=50' SHEET 18 OF 21 SHEETS STA. 203+00 TO STA. 230+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	157
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

EAGLE 5F

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USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
	DRAWN - JKO	REVISED -
PLOT SCALE = 1"=50'	CHECKED - CH	REVISED -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

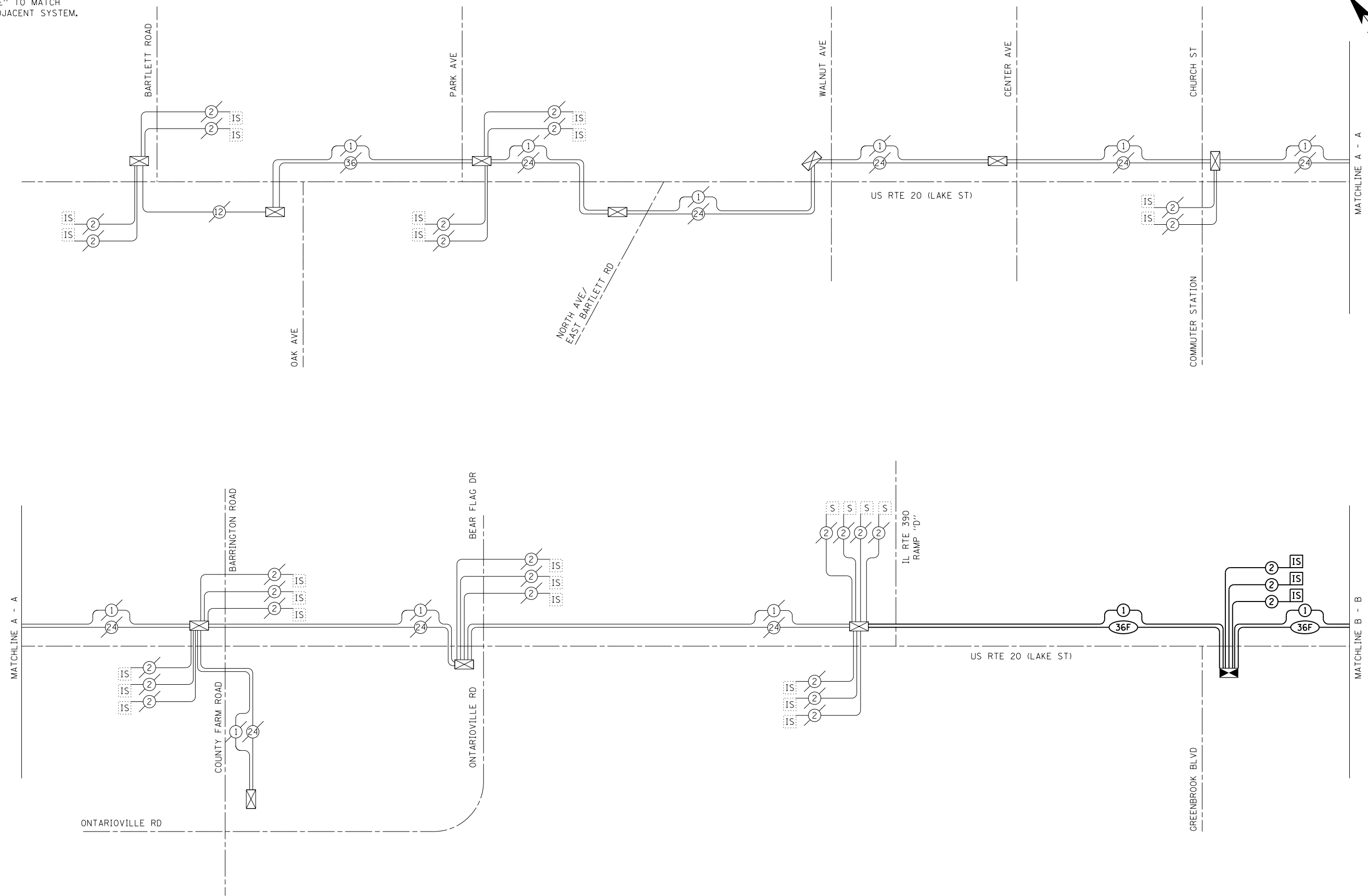
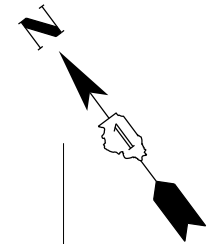
**PROPOSED INTERCONNECT PLAN (SHEET 2 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: 1"=50' SHEET 19 OF 21 SHEETS STA. 230+00 TO STA. 254+00

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 158
				CONTRACT NO. 60W54
ILLINOIS FED. AID PROJECT				

EAGLE 5F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



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USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
DRAWN - JKO	REVISIONS -	
PLOT SCALE = NTS	CHECKED - CH	REVISED -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

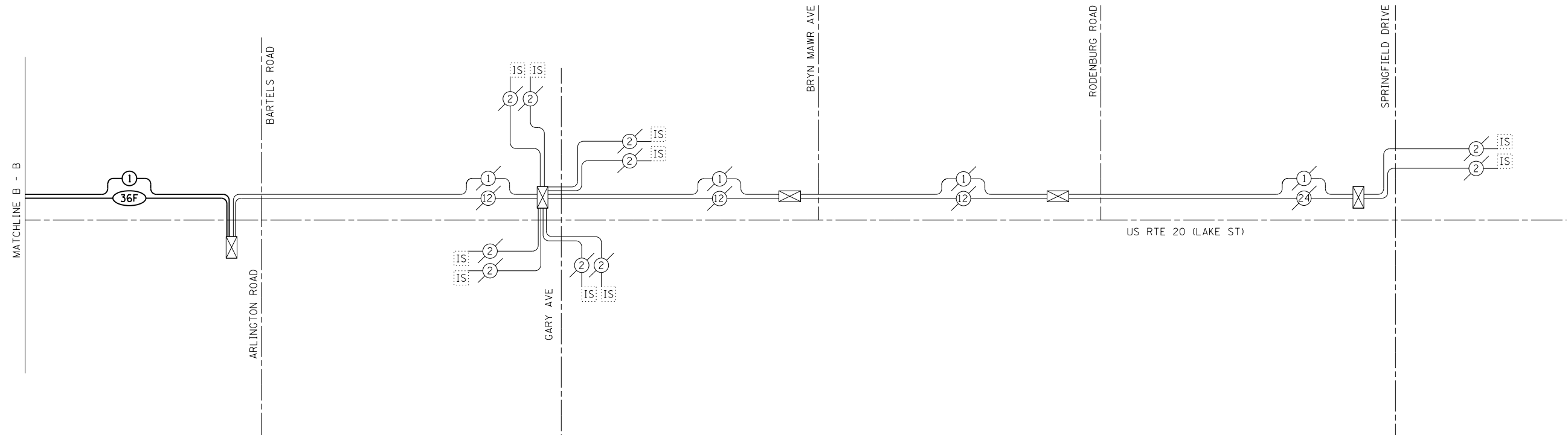
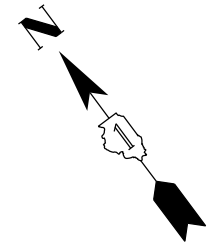
**PROPOSED INTERCONNECT SCHEMATIC (SHEET 1 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: NTS SHEET 20 OF 21 SHEETS STA. TO STA.

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 159
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

EAGLE 5F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	631
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4050
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5000
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4050
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

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USER NAME = JasonM	DESIGNED - JKO	REVISED - 6/19/2015
PLOT SCALE = NTS	DRAWN - JKO	REVISED -
PLOT DATE = 6/19/2015	CHECKED - CH	REVISED -
	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC (SHEET 2 OF 2)
US RTE 20 (LAKE ST)
ONTARIOVILLE ROAD TO ARLINGTON ROAD**

SCALE: NTS SHEET 21 OF 21 SHEETS STA. TO STA.

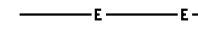



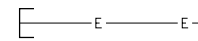
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	160
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W54	

EAGLE 5F

LIGHTING GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL WORK WITH OTHER TRADES.
- THE RELOCATED LIGHT POLES SHALL BE LOCATED AS NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. LIGHT POLE FOUNDATIONS SHALL BE INSTALLED PLUMB AND FLUSH WITH THE PROPOSED GRADE AND SHALL MEET THE HEIGHT REQUIREMENTS OF ARTICLE 836.03 OF THE STANDARD SPECIFICATIONS. WASHERS USED TO INSTALL THE POLE SHALL BE LARGE ENOUGH TO FULLY COVER THE SLOTTED HOLES IN THE POLE BASE PLATE.
- CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCE FROM UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION, ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNDERGROUND CONDUIT AND UNIT DUCT PAY ITEMS.
- NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH.
- RIGID GALVANIZED STEEL CONDUIT SHALL BE USED WHEN GOING UNDER ROADWAYS AND DRIVEWAYS.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER.
- ALL LIGHTING CIRCUITS SHOWN ON THE PLANS SHALL BE INSTALLED AND MADE OPERATIONAL PRIOR TO COMMENCEMENT OF ROADWAY CONSTRUCTION.
- ALL LIGHTING CIRCUITS FED FROM THE EXISTING CONTROLLER SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- LOCATIONS OF EXISTING LIGHTING FACILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS.
- THE CONTRACTOR SHALL PLACE A REVISED COPY OF THE AS-BUILT PLANS INSIDE THE EXISTING LIGHTING CONTROLLER.
- LUMINAIRES SHALL BE ORIENTED WITH OPTICS PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY AS REQUIRED BY ARTICLE 821.04 OF THE STANDARD SPECIFICATIONS.
- ANY DAMAGE TO DUCT AND CABLE TO REMAIN IN PLACE SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
- ANY APPURTENANCES ATTACHED TO LIGHT POLES TO BE RELOCATED SHALL REMAIN ON THE LIGHT POLE AND ANY CONNECTIONS SHALL BE REESTABLISHED. THIS INCLUDES BUT IS NOT LIMITED TO EMERGENCY VEHICLE PREEMPTION EQUIPMENT, CAMERAS, TRAFFIC SIGNAL ACTUATION EQUIPMENT, AND ITS EQUIPMENT.
- CONTRACTOR IS TO PREPARE UNIT DUCT AND FOUNDATIONS PRIOR TO REMOVAL OF EXISTING LIGHT POLES IN ORDER TO MINIMIZE TIME WITHOUT LIGHTING.
- CONTRACTOR TO PROVIDE NEW UNIT DUCT FOR RELOCATED POLES AS SHOWN FROM EXISTING POLES. CONNECT RELOCATED POLES/FIXTURES TO NEW UNIT DUCT.

LEGEND

-  PROPOSED UNIT DUCT, SIZE AS NOTED
-  EXISTING LIGHT UNIT TO REMAIN
-  EXISTING LIGHT UNIT TO BE REMOVED AND RELOCATED
-  REINSTALLED EXISTING LIGHTING UNIT
-  EXISTING CONDUIT SLEEVE BELOW PAVEMENT

ELECTRICAL BILL OF MATERIALS

PAY ITEM	UNIT	TOTAL QUANTITY	US 20 QUANTITY	GREENBROOK QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	138	138	
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	906	906	
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	24	18	6
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	4	3	1
REMOVAL OF POLE FOUNDATION	EACH	4	3	1
RELOCATE EXISTING LIGHTING UNIT	EACH	4	3	1
REMOVE AND REPLACE FUSE KIT	EACH	7	6	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	3	3

LIGHTING SCOPE OF WORK

THREE EXISTING LIGHT POLES ALONG US 20 ARE TO BE RELOCATED AS SHOWN ON PLANS DUE TO PROPOSED ROADWAY WIDENING. NEW UNIT DUCT IS TO BE PROVIDED FROM ADJACENT EXISTING POLES TO THE RELOCATED POLES.

ONE EXISTING DUAL-MAST LIGHT POLE IN THE MEDIAN OF GREENBROOK BOULEVARD IS TO BE RELOCATED AS SHOWN ON PLANS DUE TO THE PROPOSED ADDITION OF A TURN LANE. EXISTING UNIT DUCT IS TO BE RECONNECTED AS THE NEW LOCATION OF THE POLE WILL EFFECTIVELY SHORTEN THE EXISTING RUN OF UNIT DUCT.

ALL RELOCATED POLES WILL BE INSTALLED ON NEW CONCRETE FOUNDATIONS WITH BREAKAWAY TRANSFORMER BASES.



EHAB ELAOQ
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 062-058301 EXPIRES 11-30-15

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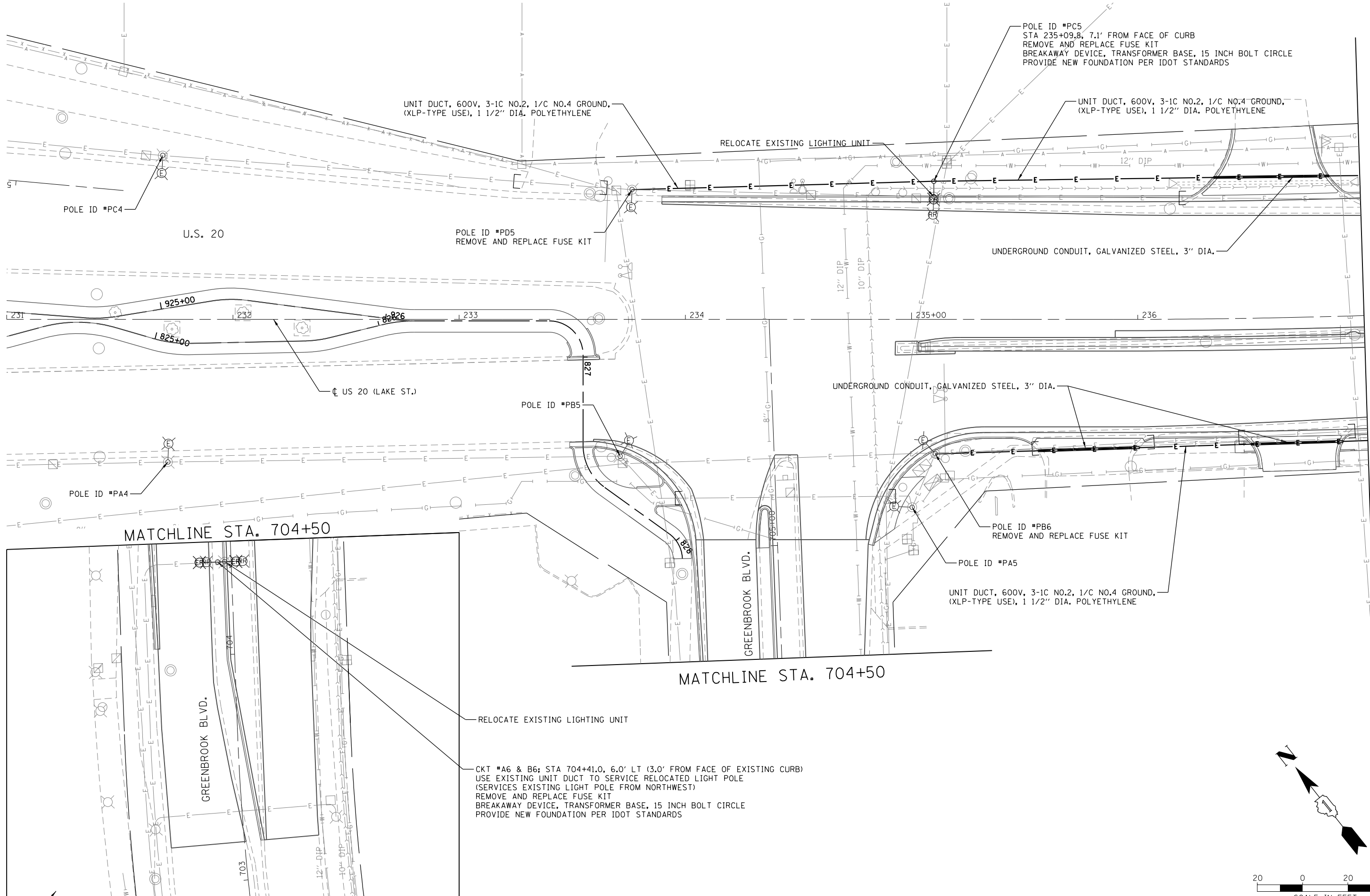
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.
LIGHTING GENERAL NOTES

SCALE: NTS SHEET 1 OF 3 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	161
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				



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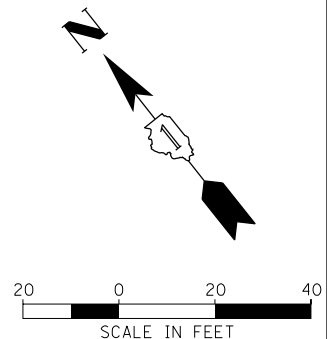


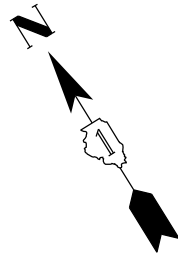
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	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

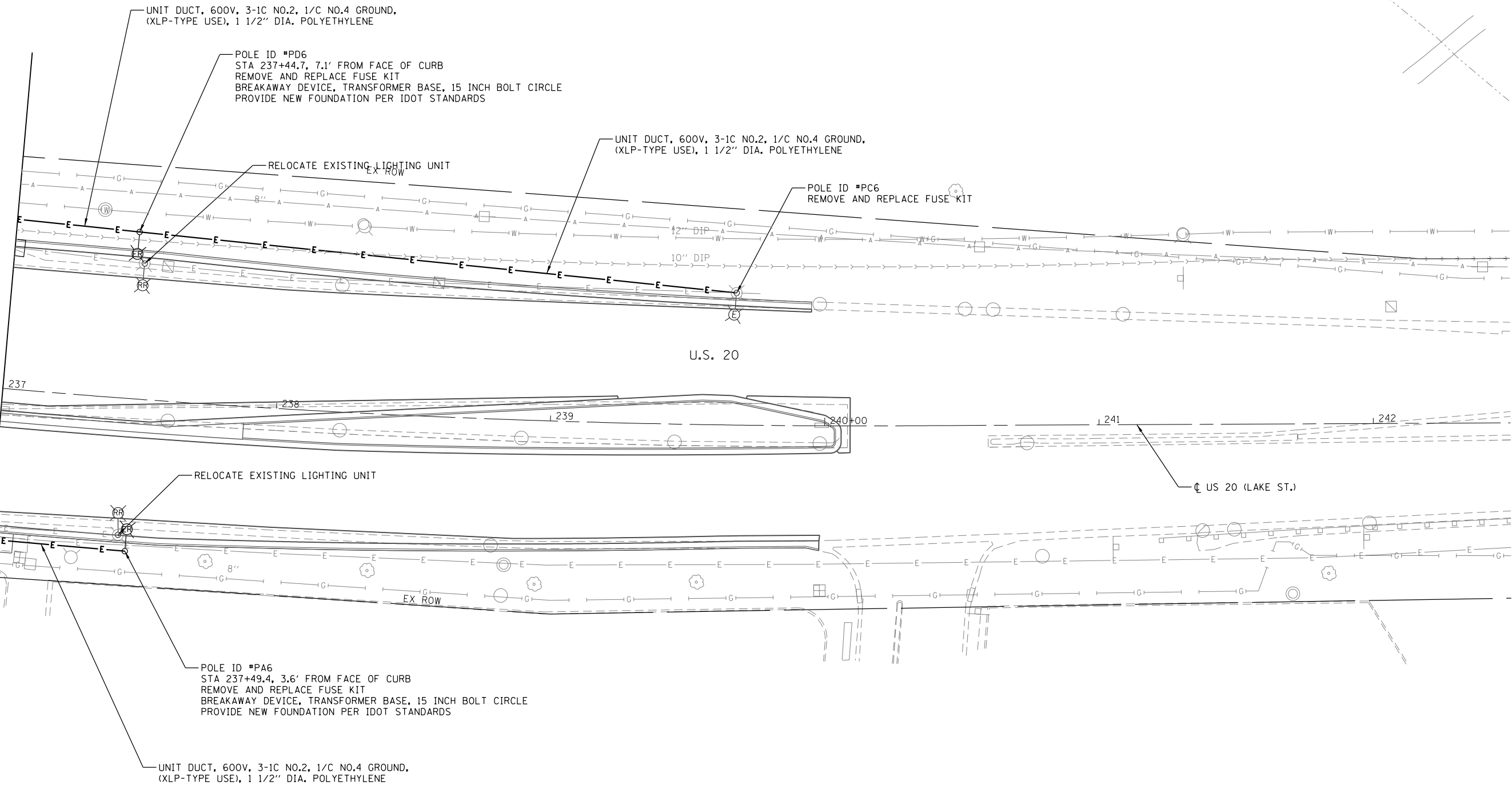
U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.			
PROPOSED LIGHTING PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	162
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				





MATCHLINE STA. 237+00



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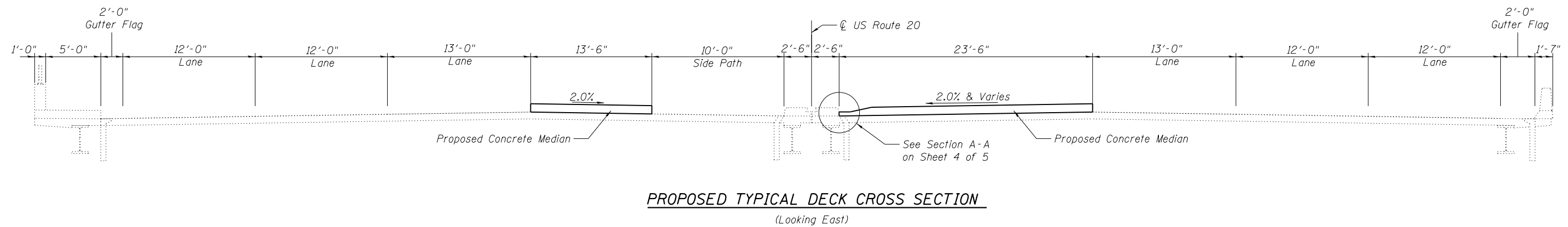
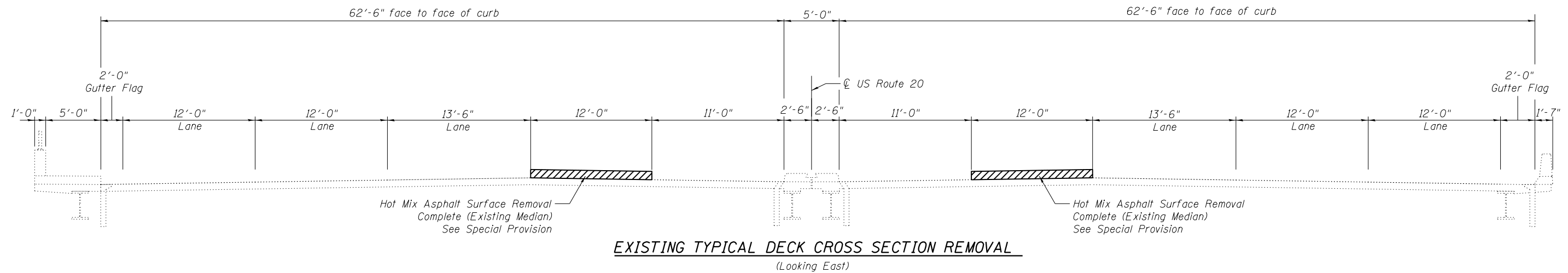
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PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**U.S. RTE 20 (LAKE ST.) AT GREENBROOK BLVD.
PROPOSED LIGHTING PLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	163
CONTRACT NO. 60W54				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



Hot Mix Asphalt Surface Removal Complete (Median)

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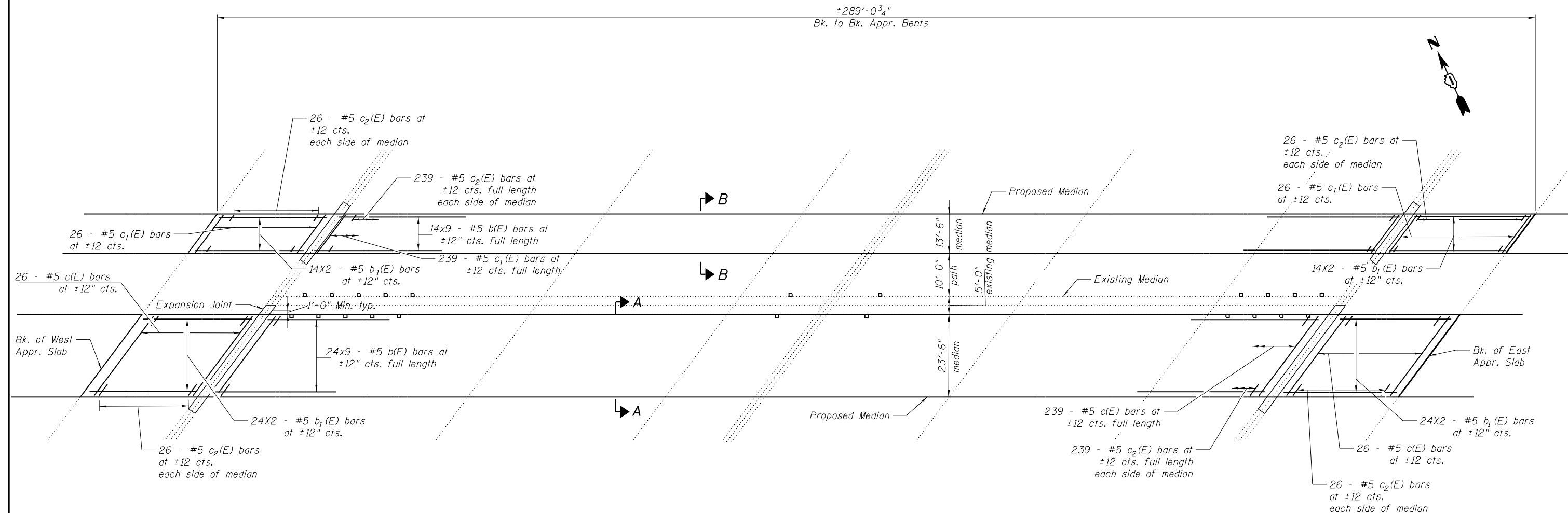
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION
STRUCTURE NUMBER 022-0208**

SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DuPage	209	165
CONTRACT NO. 60W54				

ILLINOIS FED. AID PROJECT



PLAN

See Sheet 4 of 5 for Sections A-A & B-B

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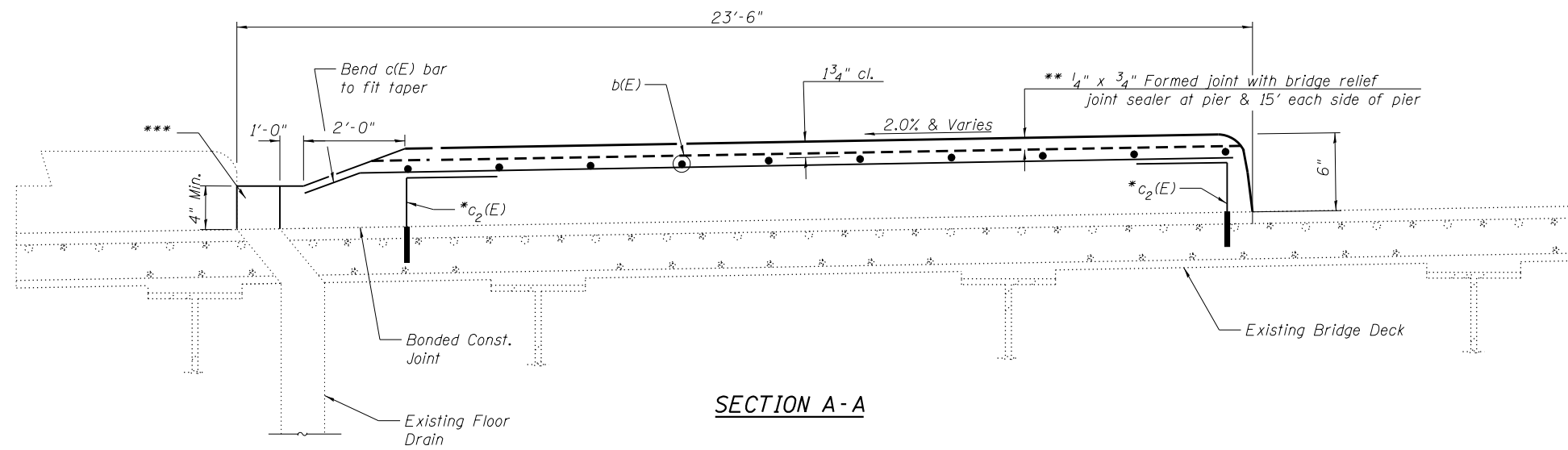
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED MEDIAN
STRUCTURE NUMBER 022-0208**

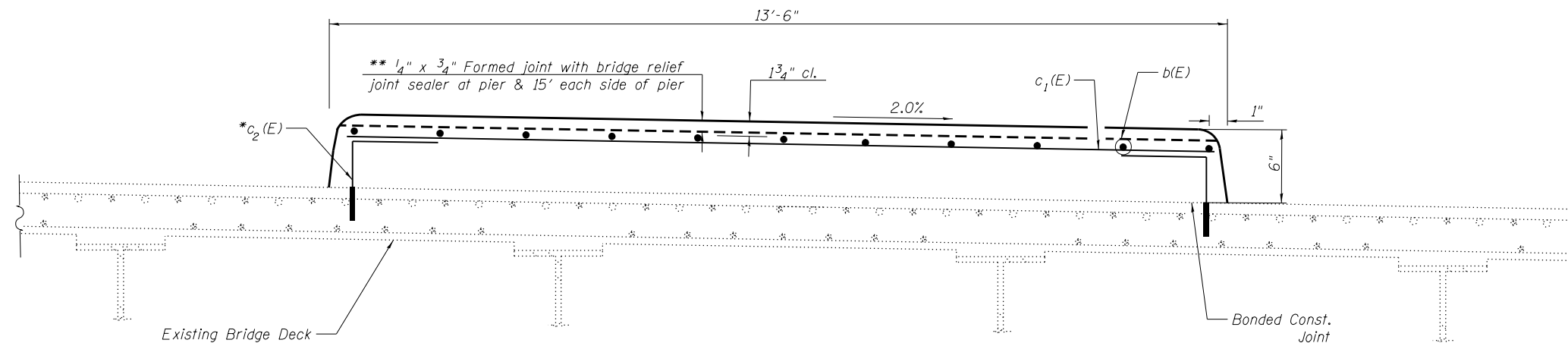
SHEET NO. 3 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	Dupage	209	166
CONTRACT NO. 60W54				

ILLINOIS FED. AID PROJECT



SECTION A-A



SECTION B-B

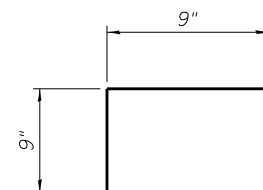
* Epoxy grout $c_2(E)$ bars into 6" min. drilled holes according to section 584 of the Standard Specifications. Cost included in Reinforcement Bars, Epoxy Coated.

** Full width along joint - backer rod not required.

*** Extend drain with same material as existing drain. Seal joint with silicone sealant.

MINIMUM BAR LAP

#5 BAR = 3'-3"



BAR $c_2(E)$

BILL OF MATERIAL - TWO MEDIANS

Bar	No.	Size	Length	Shape	
b(E)	342	#5	29'-5"	—	
b ₁ (E)	152	#5	14'-3"	—	
c(E)	291	#5	29'-3"	—	
c ₁ (E)	291	#5	16'-9"	—	
c ₂ (E)	1164	#5	1'-6"	┌	
Reinforcement Bars, Epoxy Coated				Pound	28,540
Concrete Superstructure				Cu. Yd.	194.5
Neoprene Expansion Joint, 2"				Foot	110

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MEDIAN DETAIL
 STRUCTURE NUMBER 022-0208

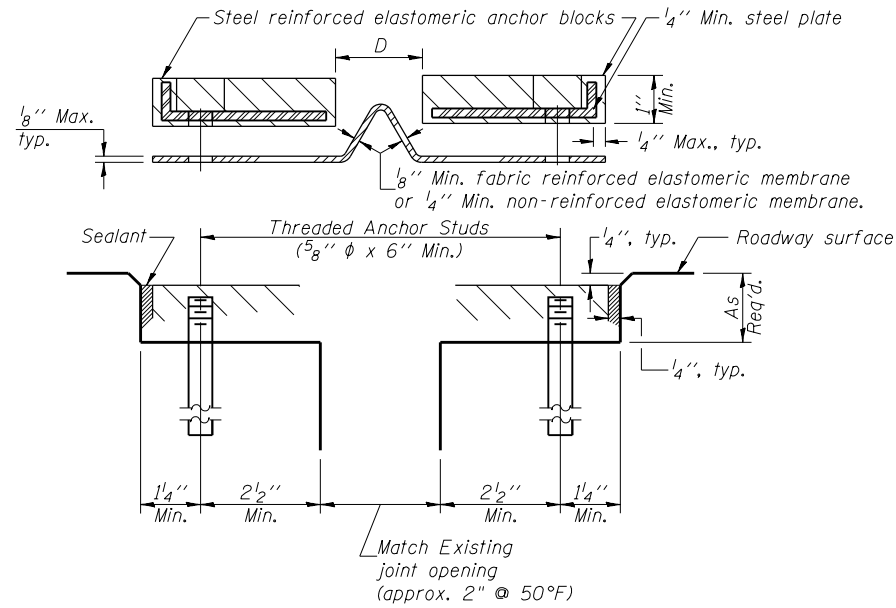
SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W54				

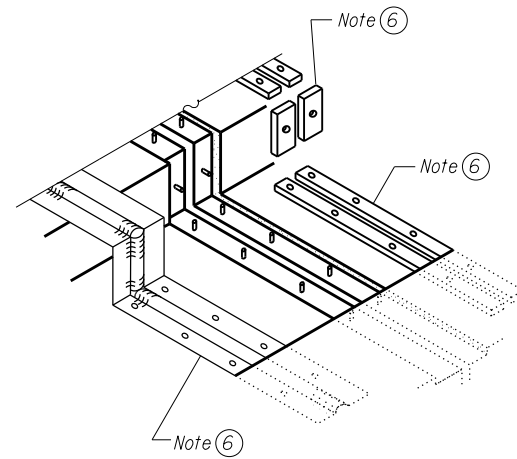
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INSTALLATION NOTES:

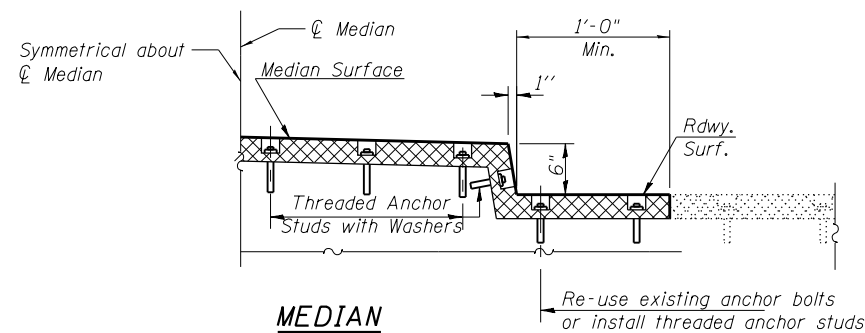
1. Joints shall be installed in accordance with Section 520.07 of the Standard Specifications, except as modified on this sheet.
2. Where proposed median is adjacent to roadway surface, cut existing neoprene expansion joint anchor blocks 1'-0" min. away from face of proposed median. Remove blocks between the two cuts (north median) or between the cut and the longitudinal joint (south median)
3. Cut existing neoprene expansion joint elastomeric membrane halfway between faces of proposed medians and move membrane away from medians.
4. Pour proposed medians with blockouts for new neoprene expansion joints.
5. Install new threaded anchor studs with washers as required. Maximum spacing of studs shall be 12" centers.
6. Splice new elastomeric membrane with the existing to provide a continuous membrane the required length up and over the medians. Use an approved splicing compound.
7. Install the membrane and new anchor blocks in the 1'-0" of existing deck, the sides and the top of the proposed median.
8. Cutting of existing anchor blocks and membrane, removal of existing anchor blocks, the materials and installation of new anchor blocks, threaded studs and membrane, and splicing of membranes are all included in the cost of Neoprene Expansion Joint 2".



CROSS SECTION



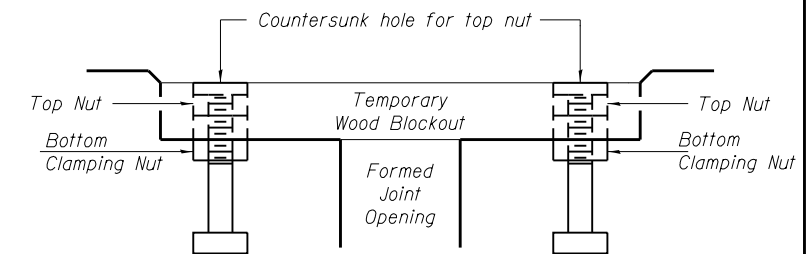
AT MEDIAN



MEDIAN TYPICAL TREATMENTS

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.
 The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.
 The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.



Note:
 Stud needs to be threaded lower to allow for use of clamping nut.

Anchor studs should be stainless

RECOMMENDED BLOCKOUT DETAIL

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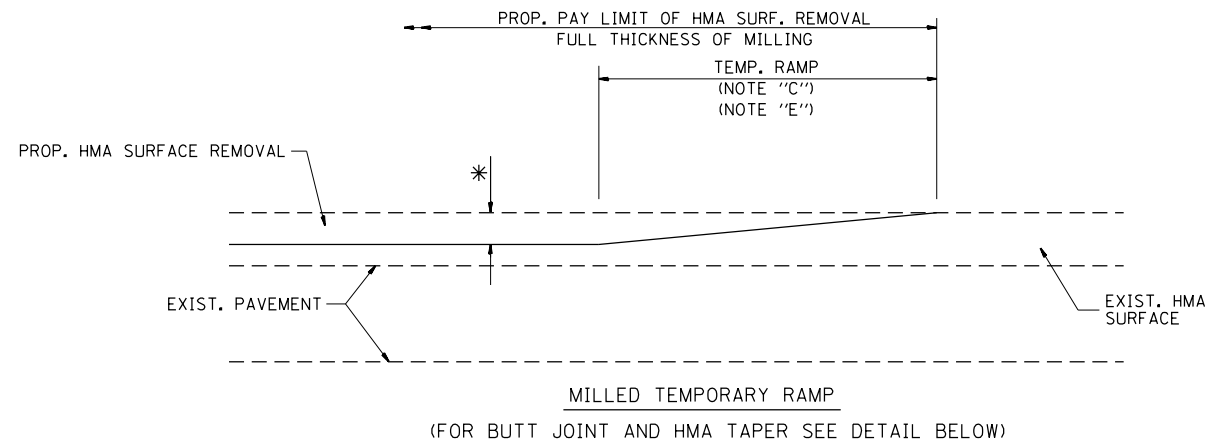
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT DETAIL
 STRUCTURE NUMBER 022-0208**

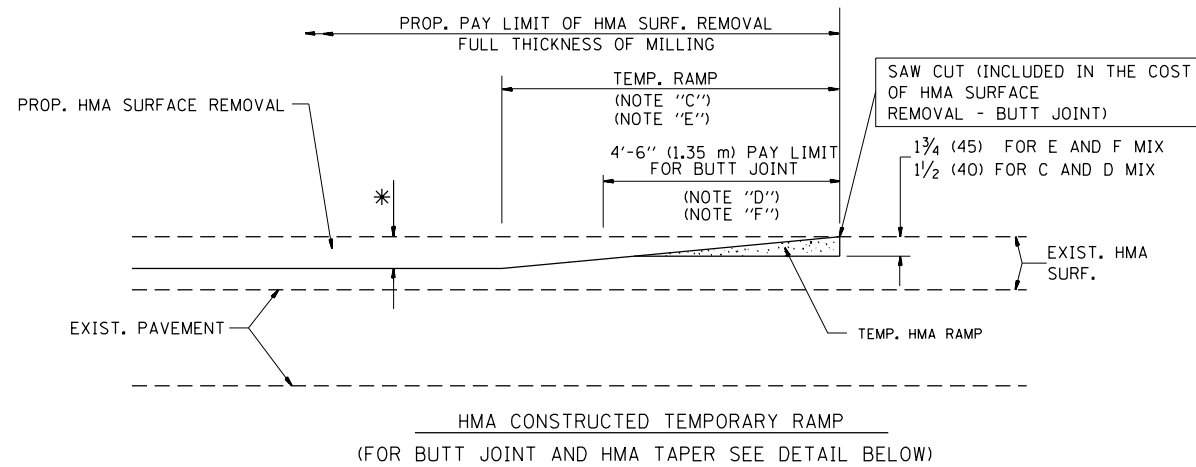
SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	Dupage	209	168
			CONTRACT NO. 60W54	

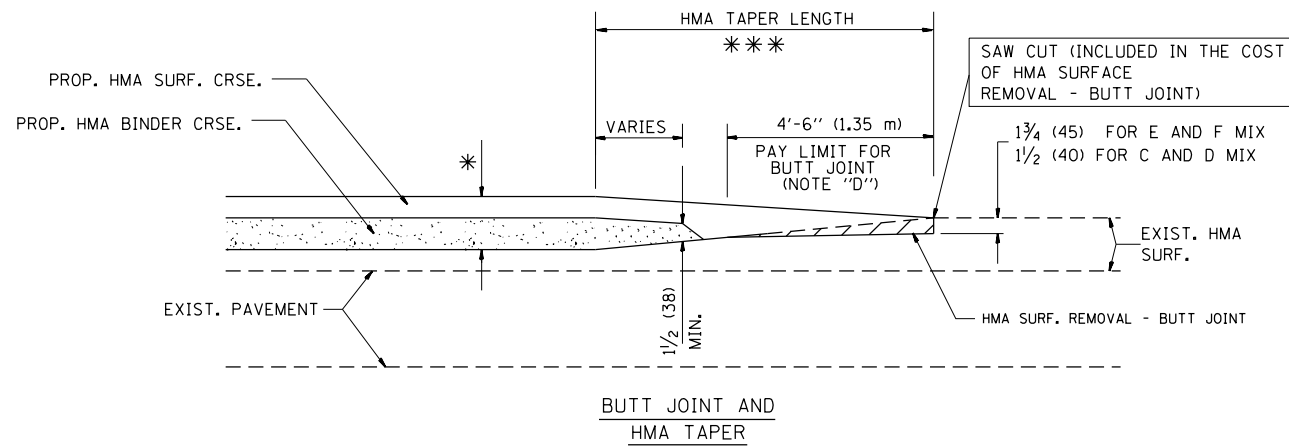
ILLINOIS FED. AID PROJECT



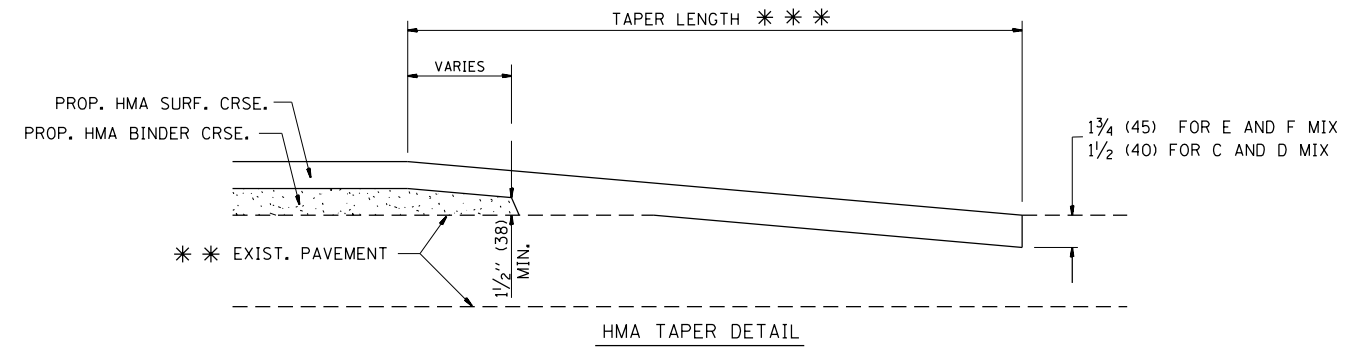
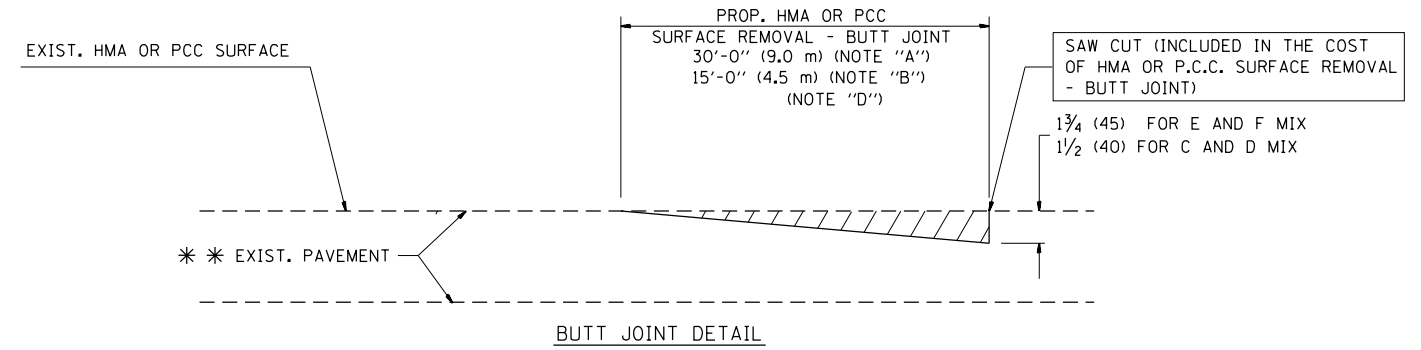
OPTION 1



**OPTION 2
TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

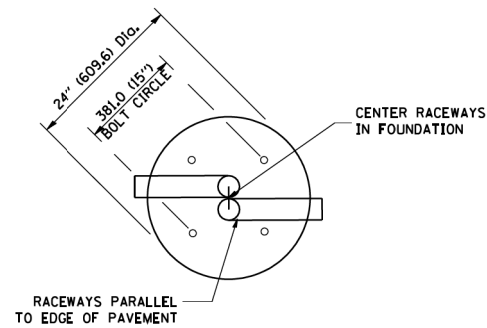
**BUTT JOINTS AND
HMA TAPER**

SCALE: NTS SHEET 2 OF 1 SHEETS STA. N/A TO STA. N/A

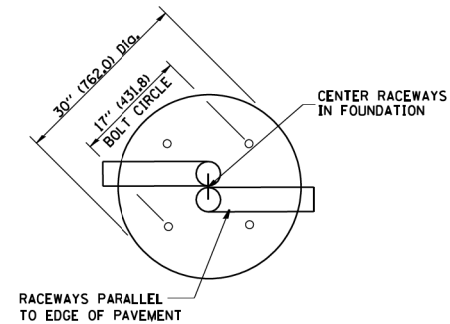
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345	6Y-TS&N(13)	DUPAGE	209	169
BD400-05 BD32		CONTRACT NO. 60W54		
ILLINOIS FED. AID PROJECT				

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	(2.74 m)



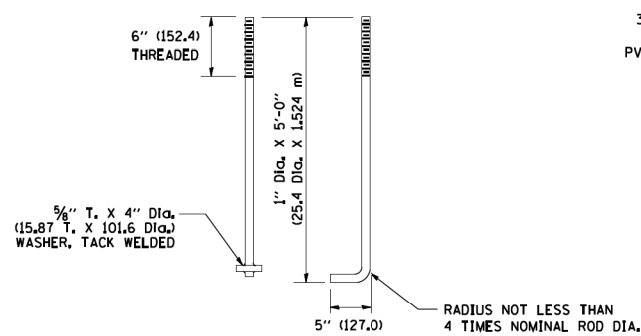
TOP VIEW



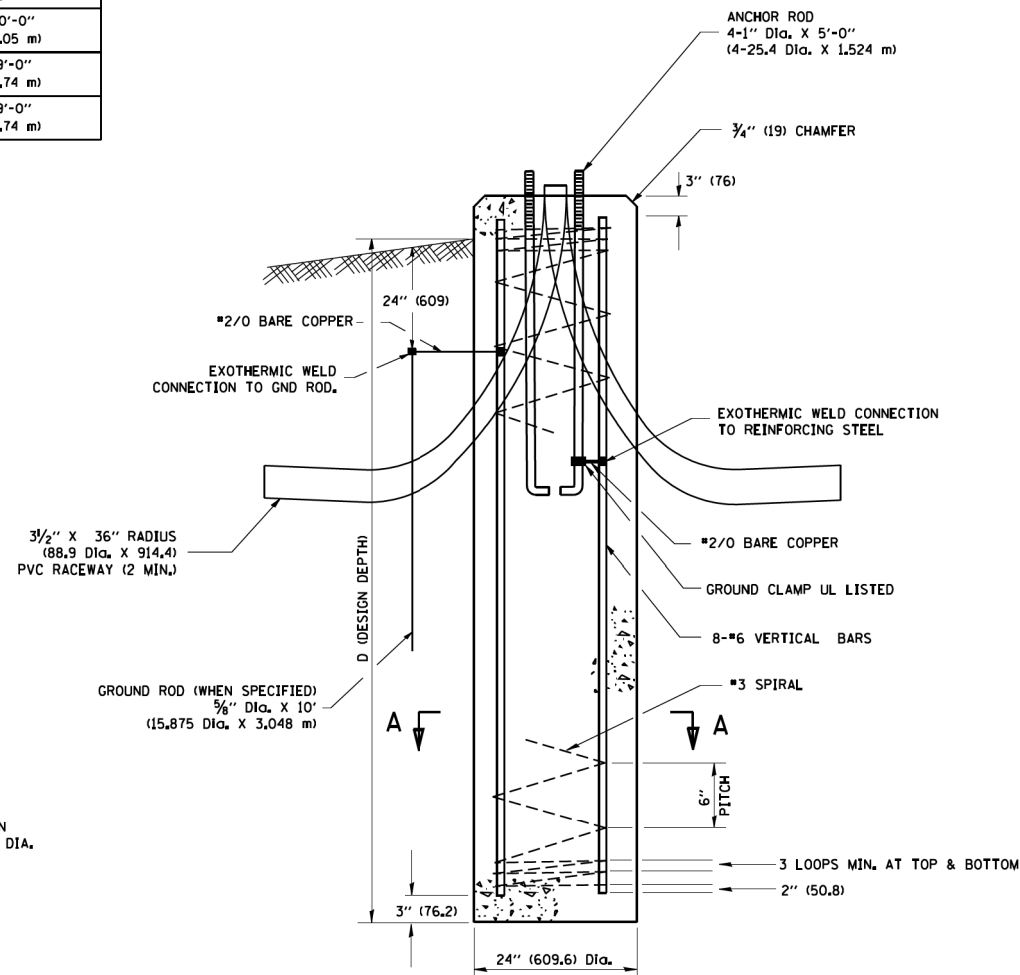
TOP VIEW

NOTES

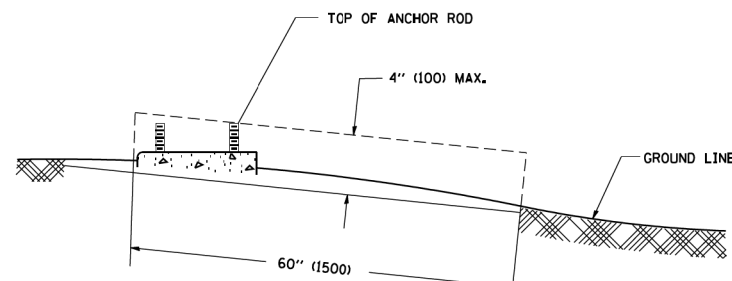
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD, A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



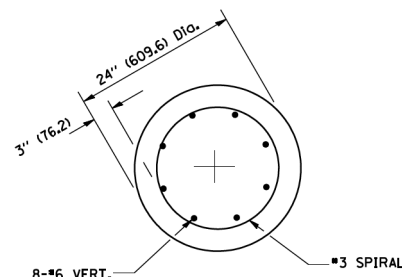
ANCHOR ROD DETAIL



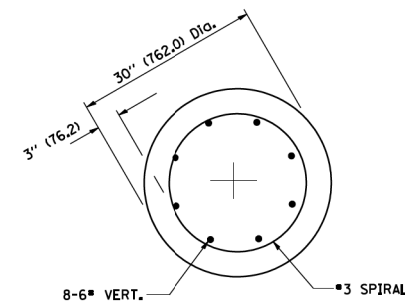
FOUNDATION DETAIL



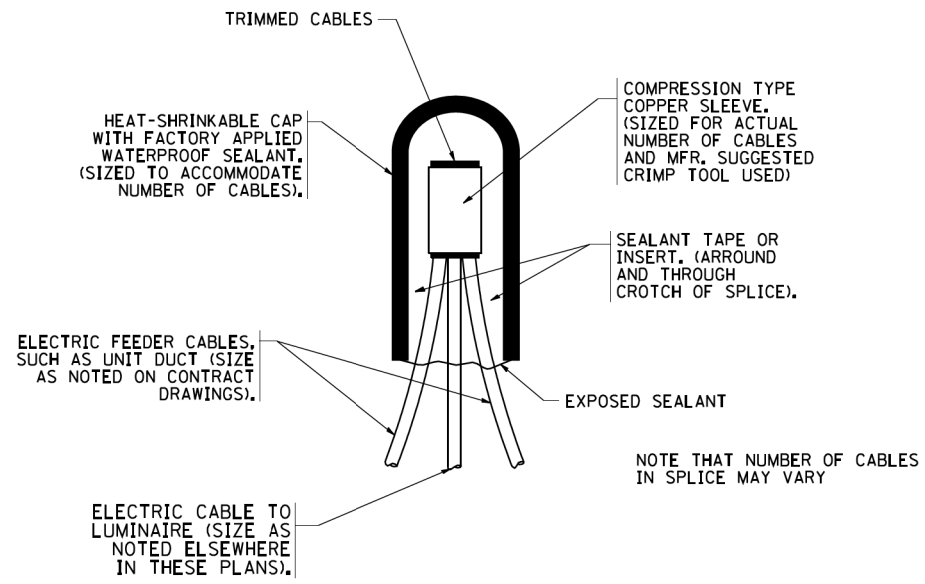
FOUNDATION EXTENSION DETAIL



SECTION A-A

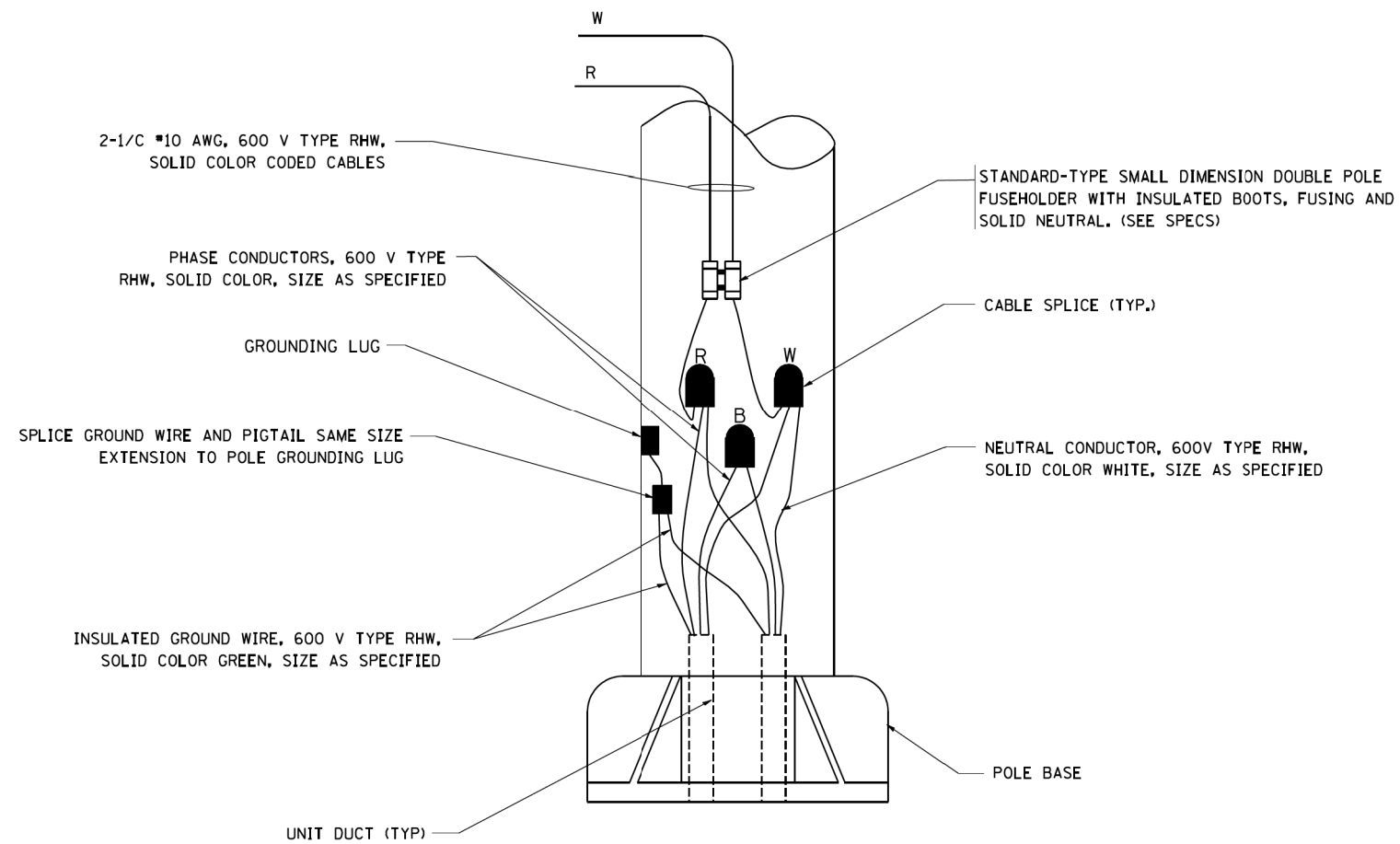


SECTION A-A



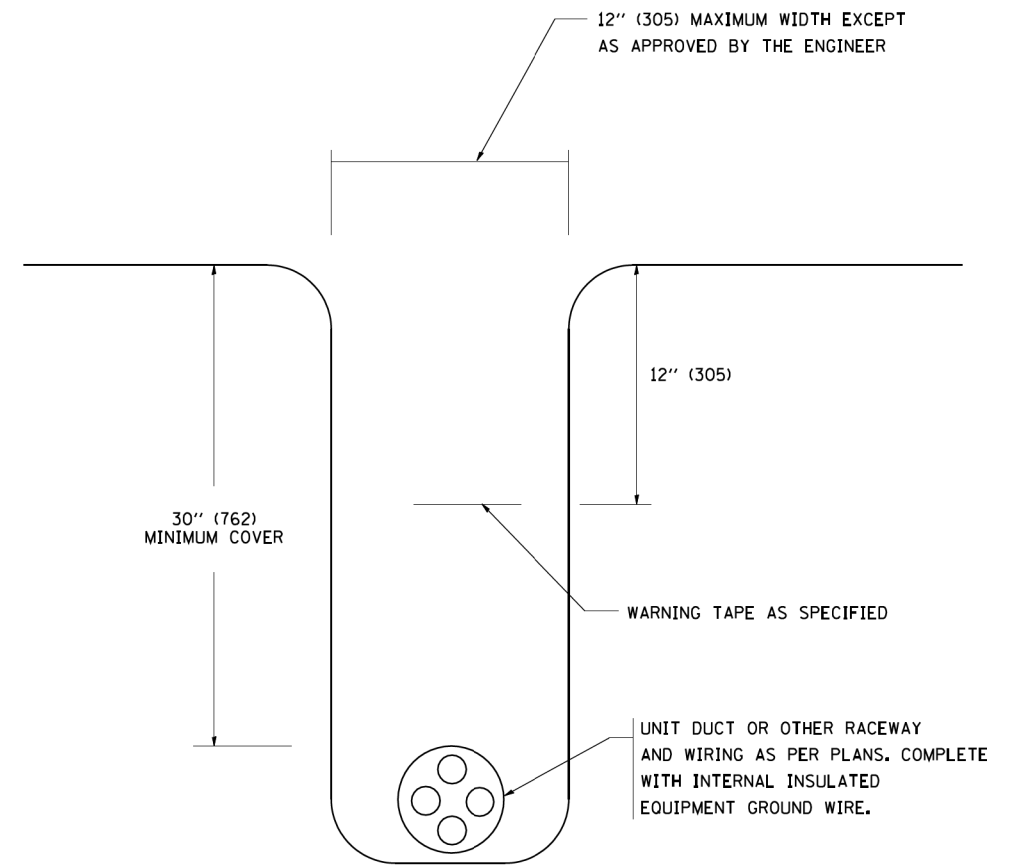
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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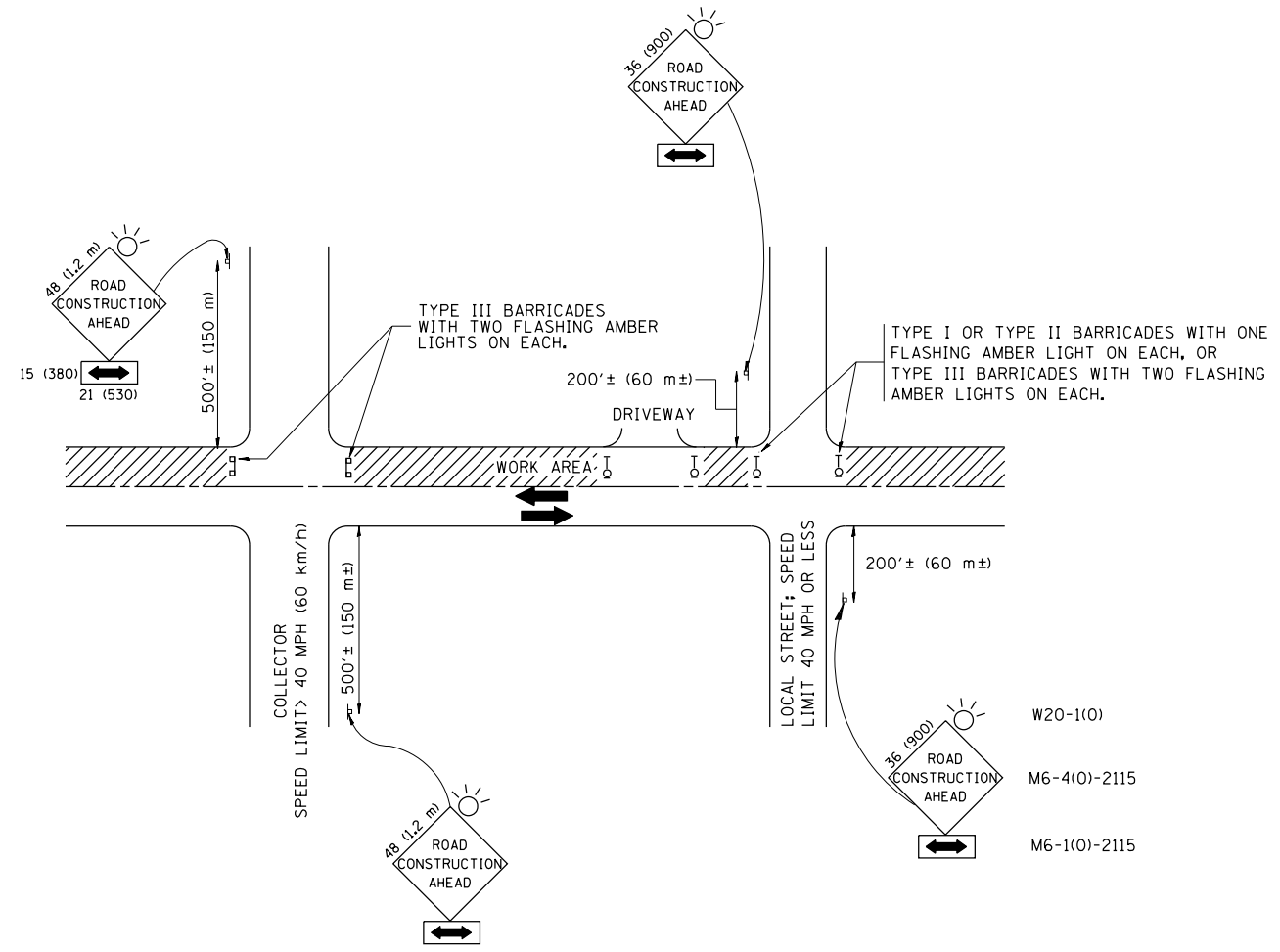
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	169b
BE-702			CONTRACT NO. 60W54	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

M:\JLS_20 OVER WEST BRANCH DUPAGE (12-154-903)\DESIGN\CIVIL\CADD_Sheets\US20_Deat1-ct10.dgn
 Default



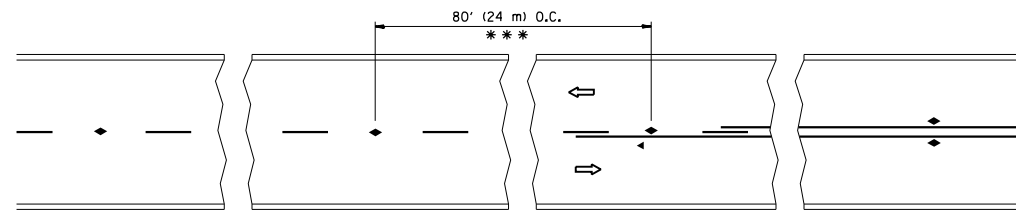
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

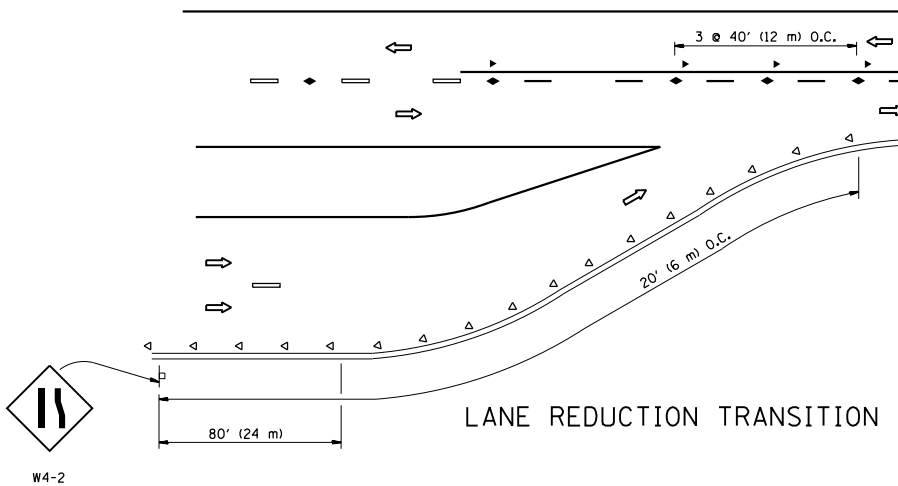
All dimensions are in millimeters (inches) unless otherwise shown.

USER NAME = JasonM PLOT SCALE = NTS PLOT DATE = 5/8/2015	DESIGNED - IDOT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - IDOT	REVISED -		345	6Y-TS&N(13)	DUPAGE	209	170				
	CHECKED - IDOT	REVISED -		TC-10		CONTRACT NO. 60W54						
	DATE - 5/8/2015	REVISED -		ILLINOIS	FED. AID	PROJECT						
			SCALE: NTS	SHEET 3	OF 1	SHEETS	STA. N/A	TO STA. N/A				

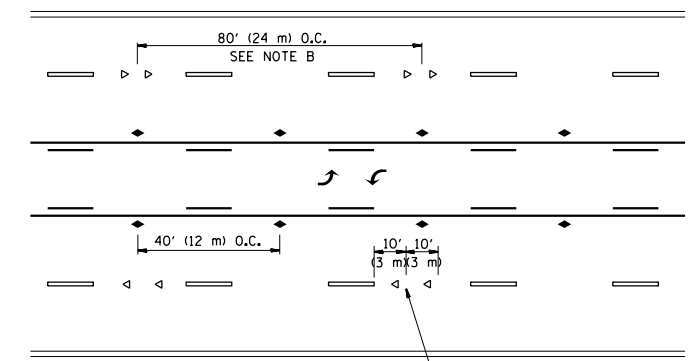


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

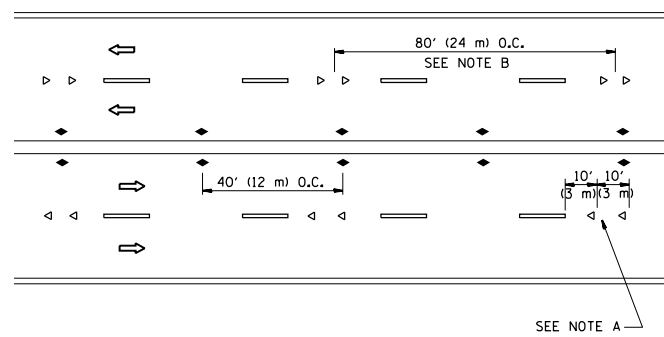
TWO-LANE/TWO-WAY



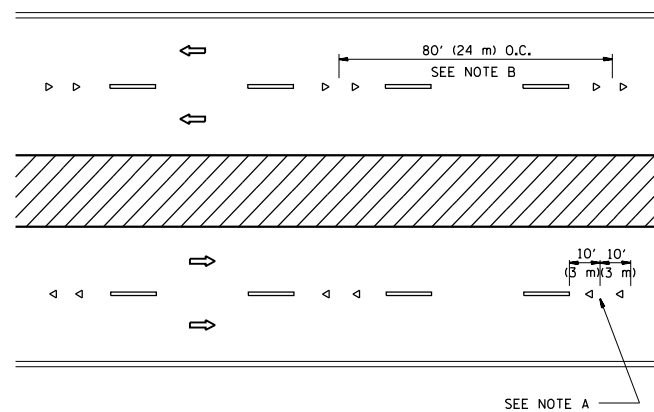
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

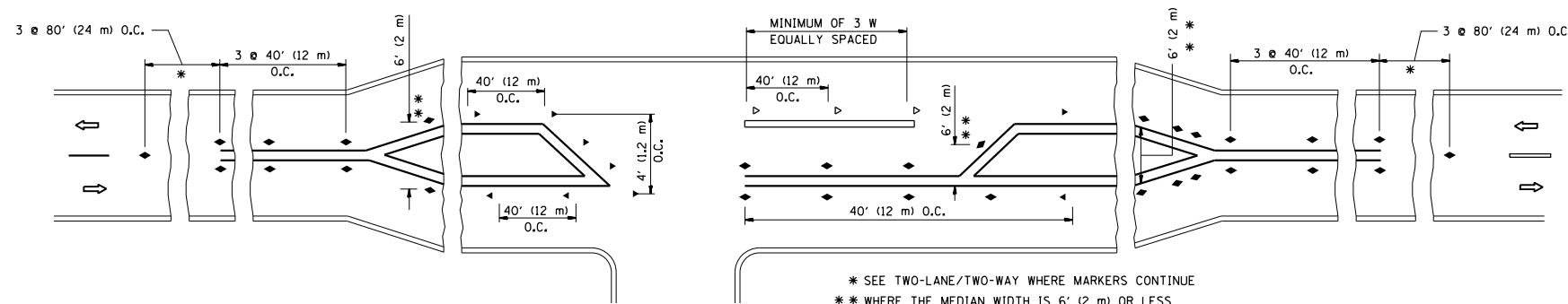
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

M:\JIS_20_OVER_WEST_BRANCH_DUPAGE_12-154-903\DESIGN\CIVIL\CADD_Sheets\US20_Design1.tbl.dgn

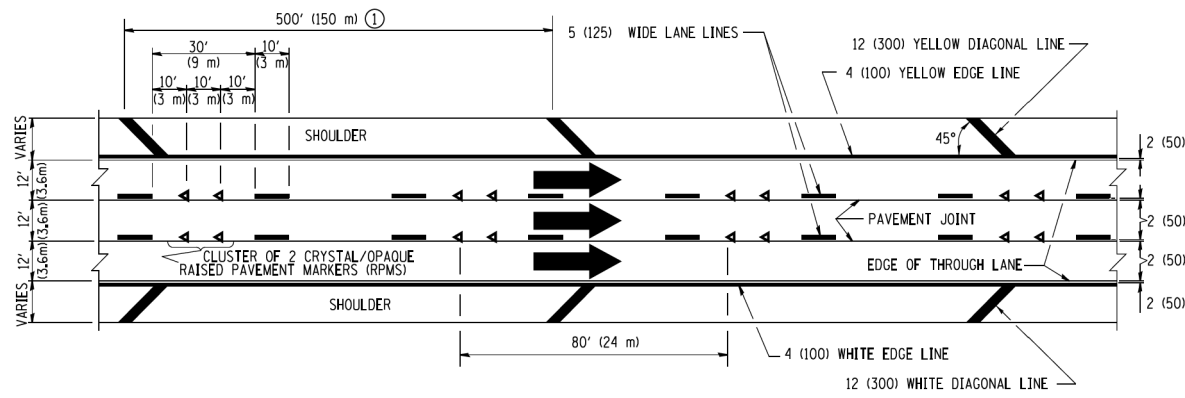
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PLOT SCALE = NTS	DRAWN - IDOT	REVISED -
PLOT DATE = 5/8/2015	CHECKED - IDOT	REVISED -
	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAISED REFLECTIVE PAVEMENT MARKERS
 (SNOW PLOW RESISTANT)

SCALE: NTS SHEET 4 OF 1 SHEETS STA. N/A TO STA. N/A

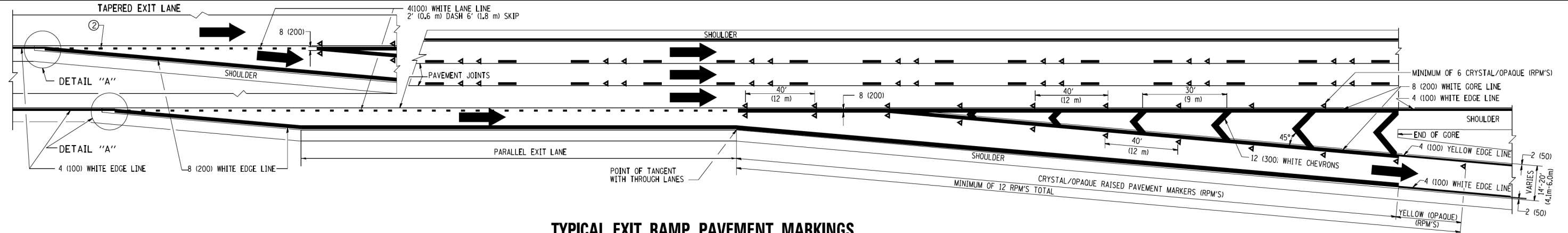
F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 171
TC-11			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				



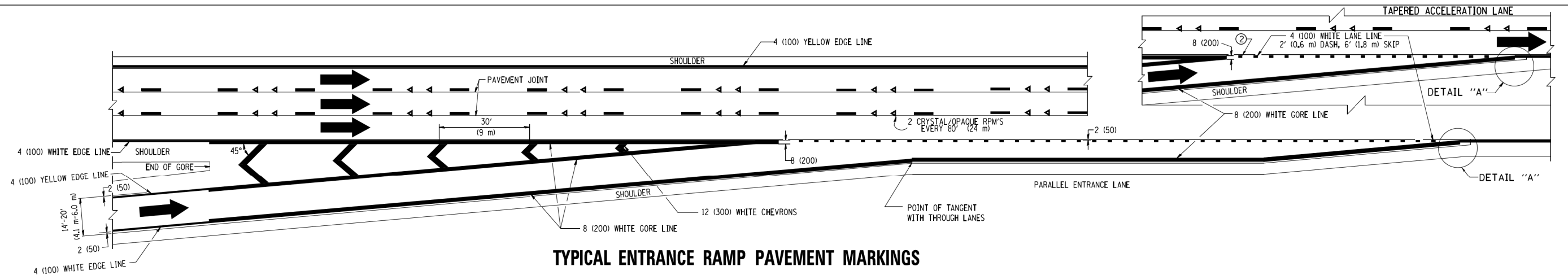
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

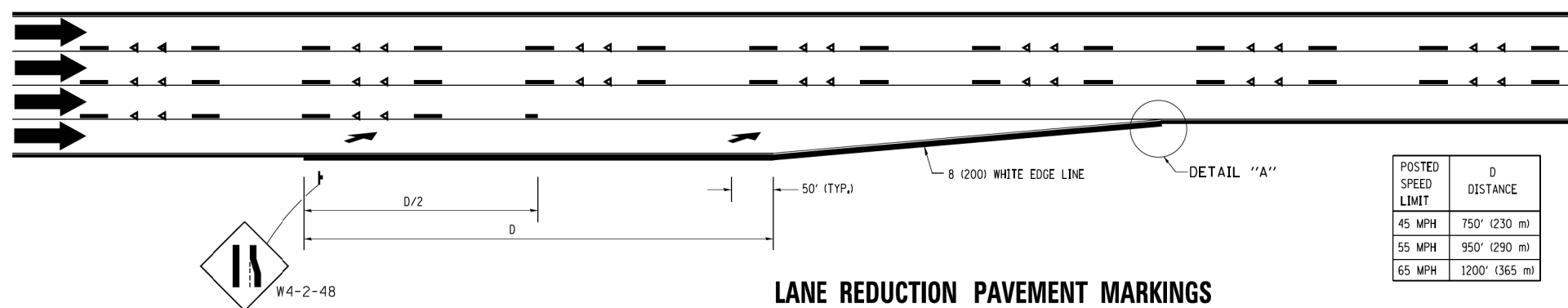
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

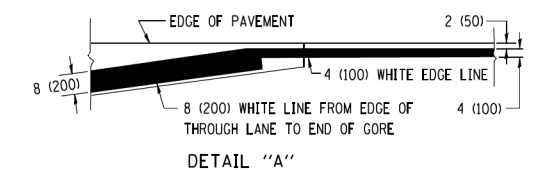


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



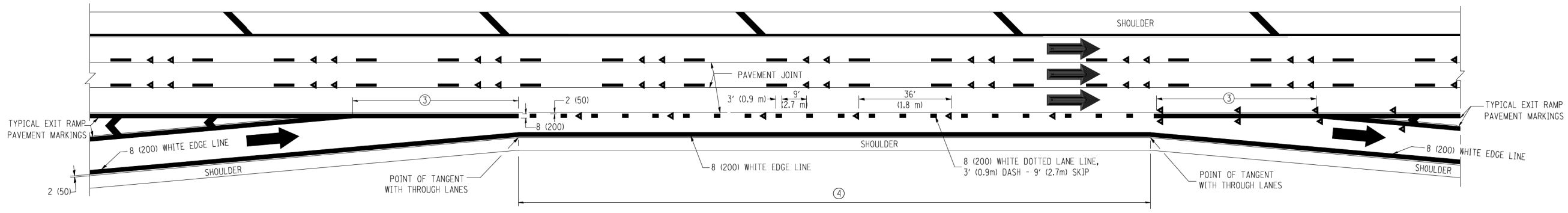
LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

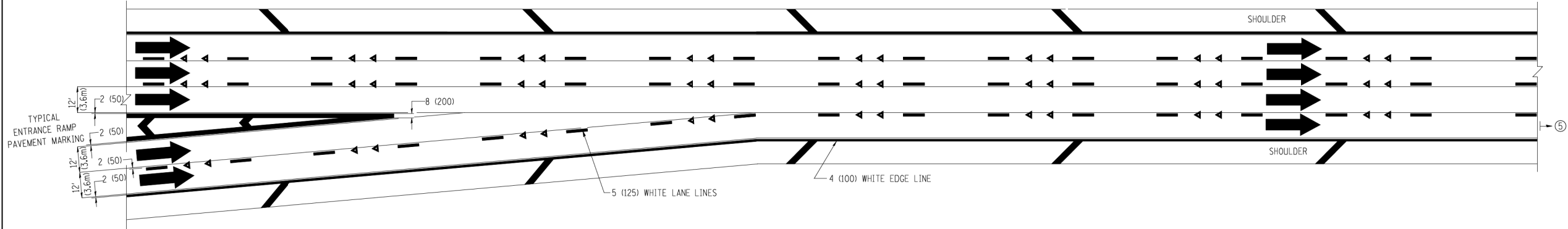


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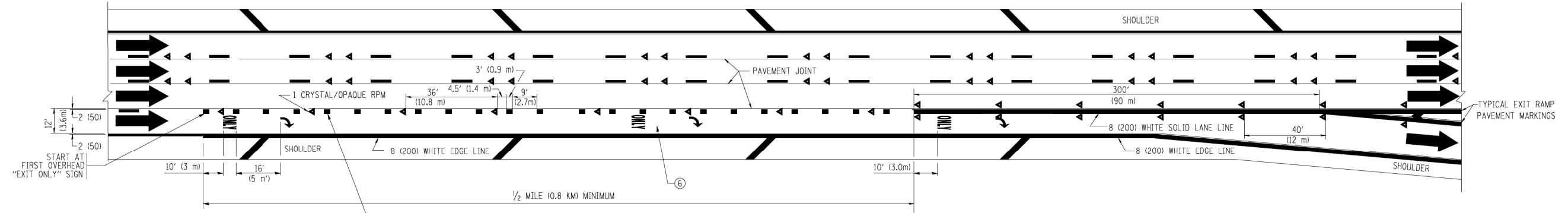
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



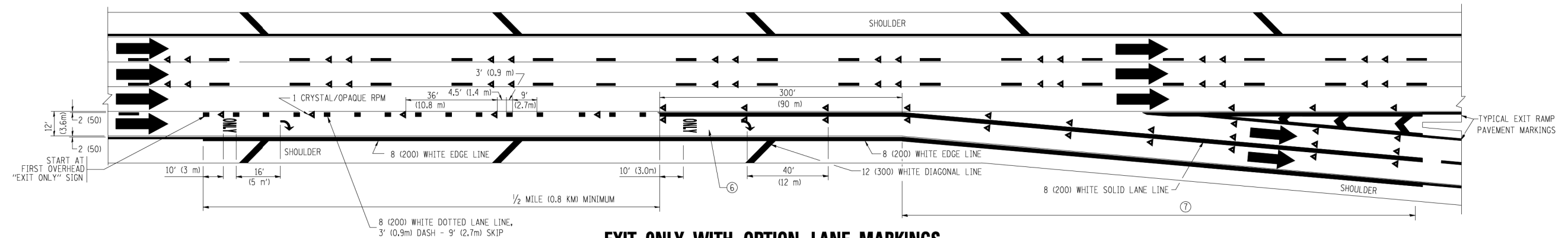
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



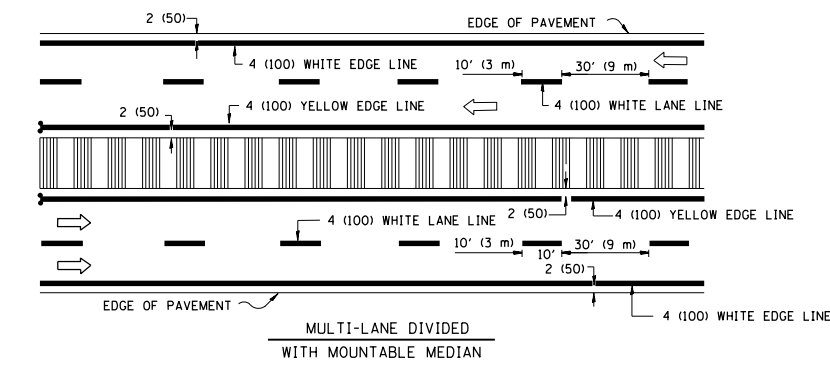
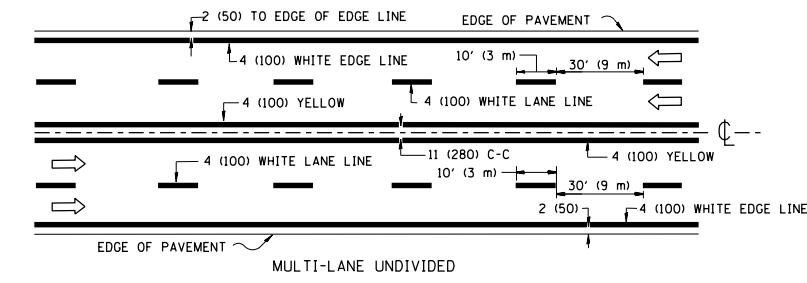
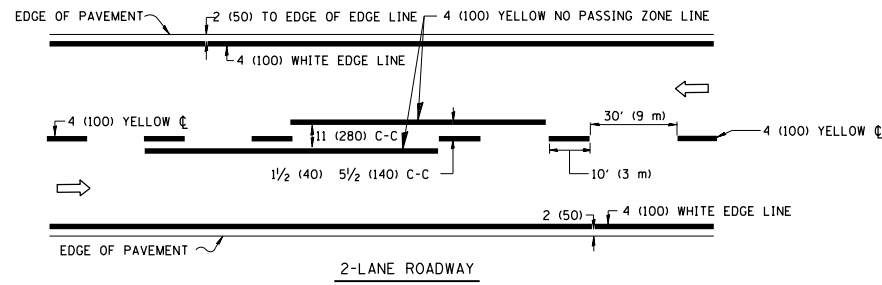
EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

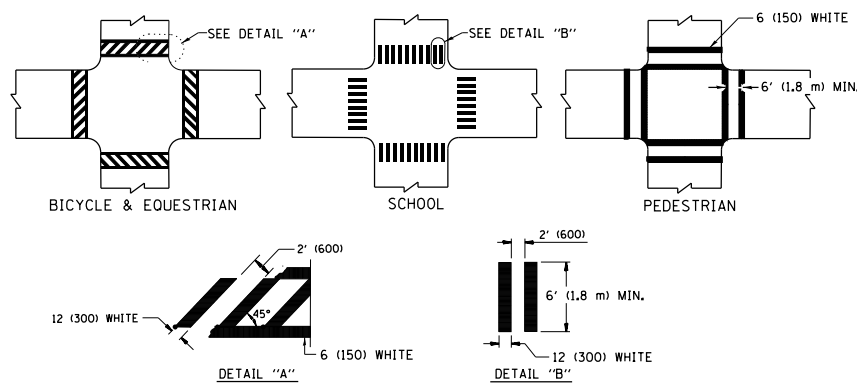
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = luyaa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 173
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	PLOT DATE = 1/22/2010	CHECKED -	REVISED - S.P.B. 01-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 01-90	REVISED - S.P.B. 01-10									

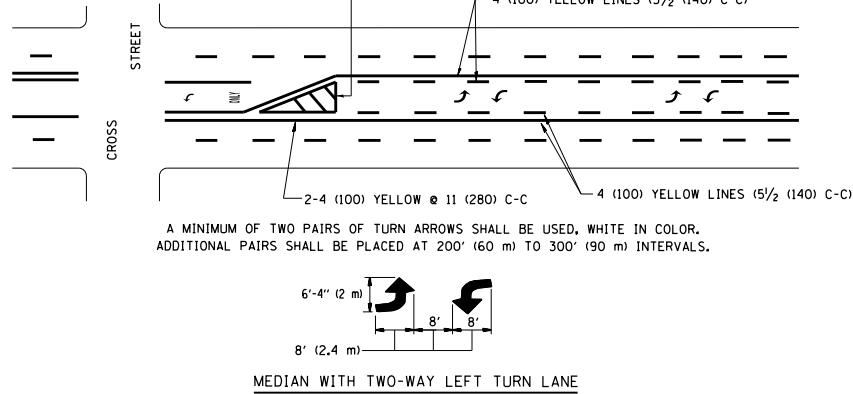
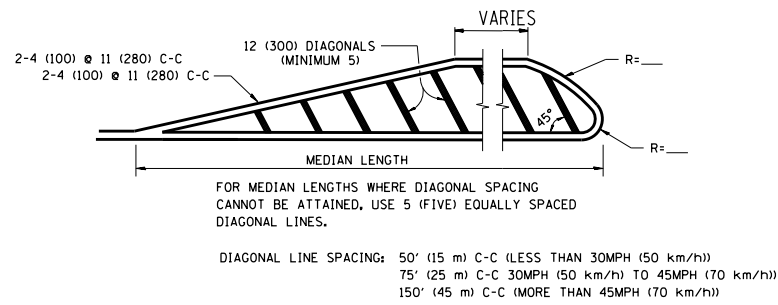
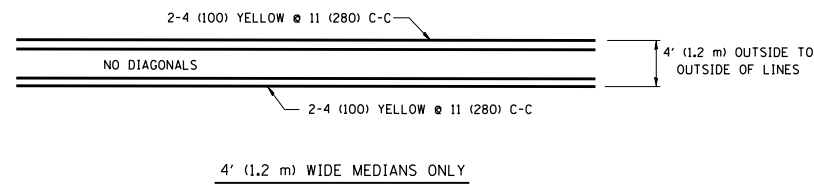


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

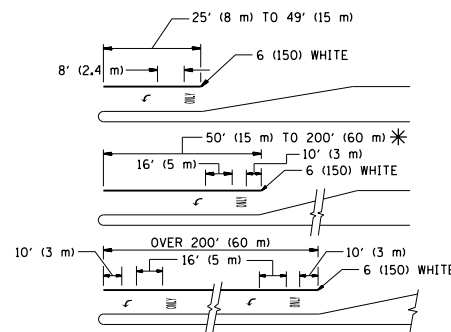
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



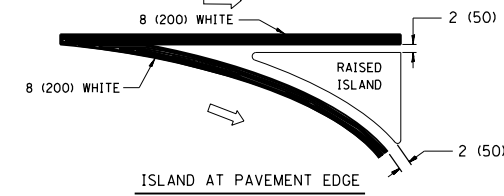
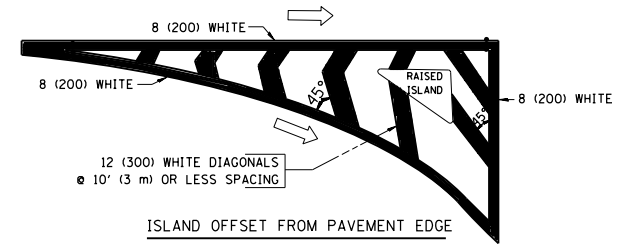
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' 6" (4.7 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R": 3.6 SQ. FT. (0.33 m ²) EACH "X": 54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

M:\US 20 OVER WEST BRANCH DUPAGE (12-154-903)\DESIGN\CIVIL\CADD Sheets\US20_De.dwg - col3.dwg

USER NAME = JasonM	DESIGNED - IDOT	REVISED -
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PLOT DATE = 5/8/2015	CHECKED - IDOT	REVISED -
	DATE - 5/8/2015	REVISED -

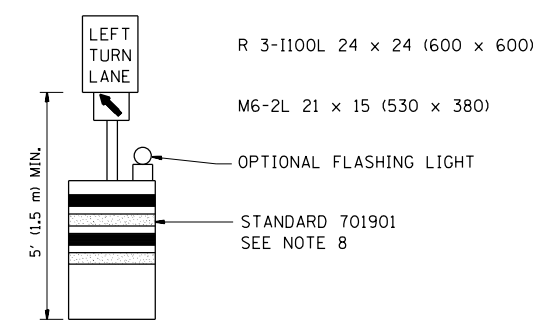
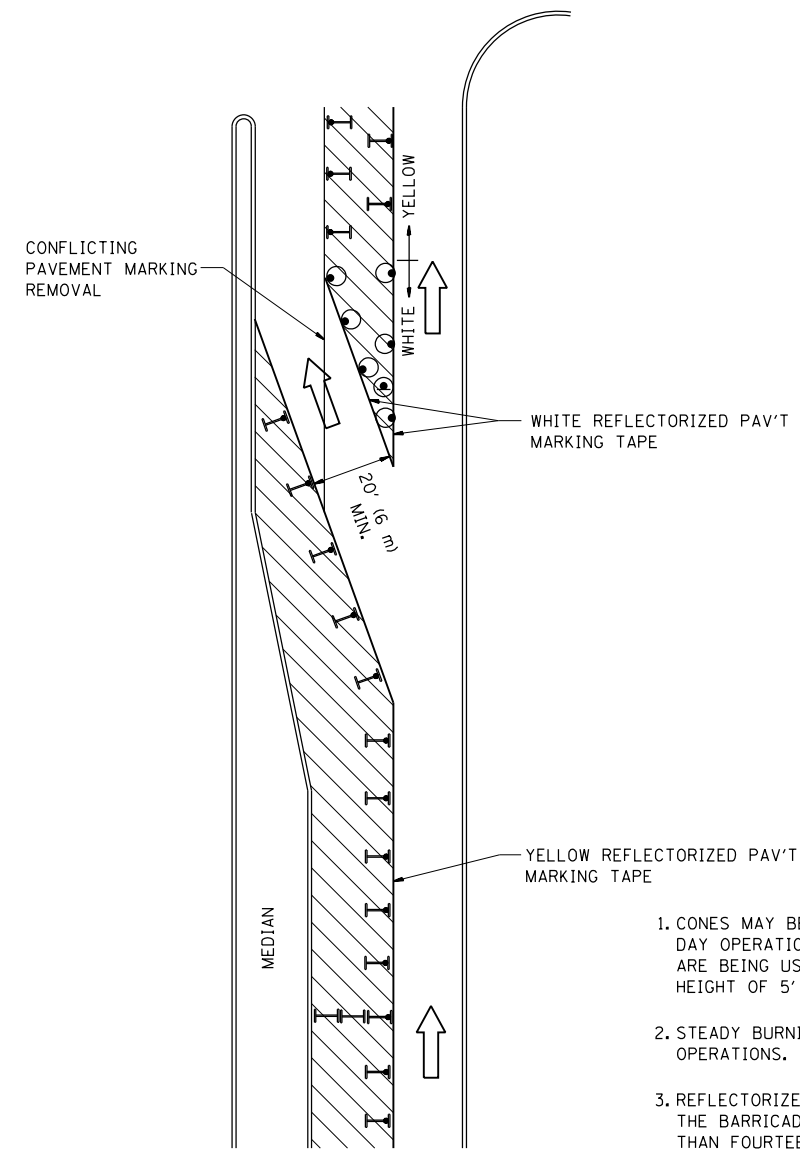
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NTS SHEET 5 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY DUPAGE	TOTAL SHEETS 209	SHEET NO. 174
TC-13		CONTRACT NO. 60W54		
ILLINOIS FED. AID PROJECT				

MAIN: 20 OVER WEST BRANCH DUPAGE (12:154-903) \DESIGN\CIVIL\CADD_Sheets\US20.Detail-ct14.dgn
 Date: 5/8/2015


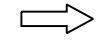






GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

LEGEND

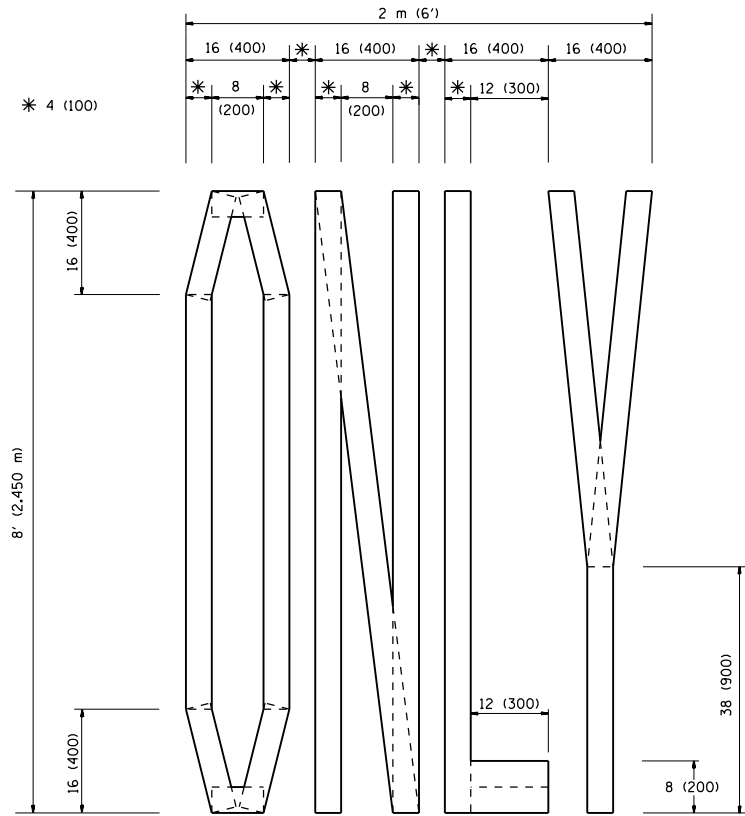
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

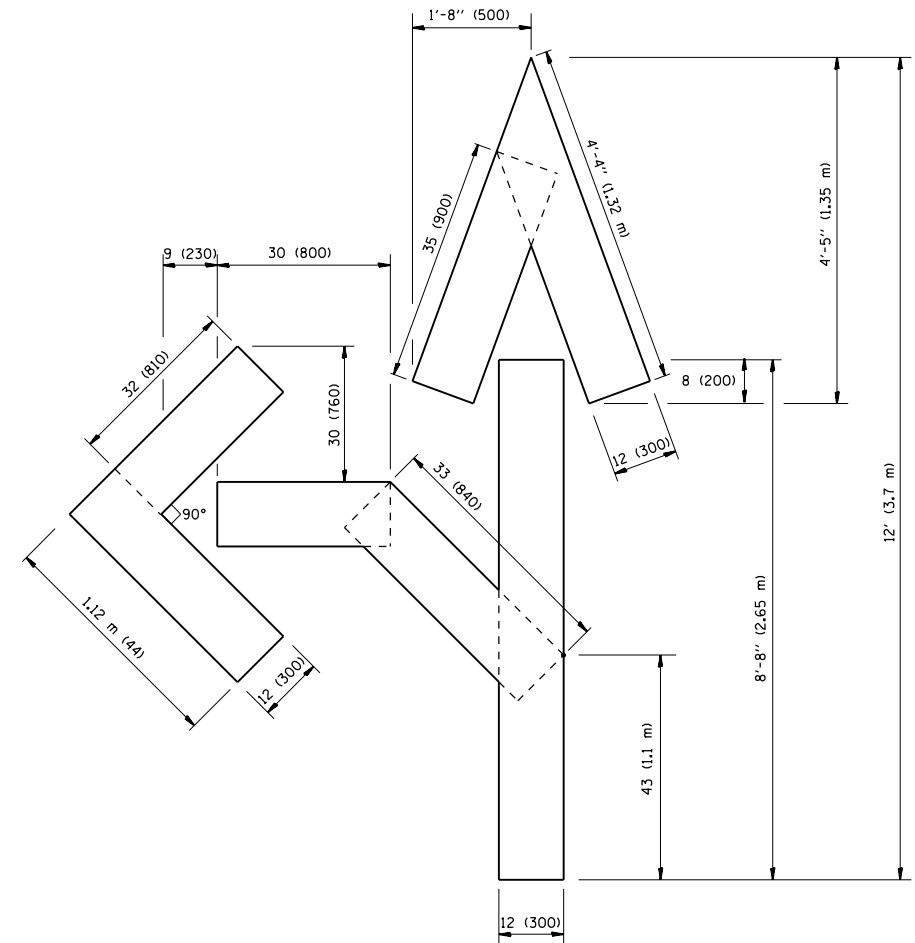
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

USER NAME = JasonM	DESIGNED - IDOT	REVISED -
	DRAWN - IDOT	REVISED -
PLOT SCALE = NTS	CHECKED - IDOT	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

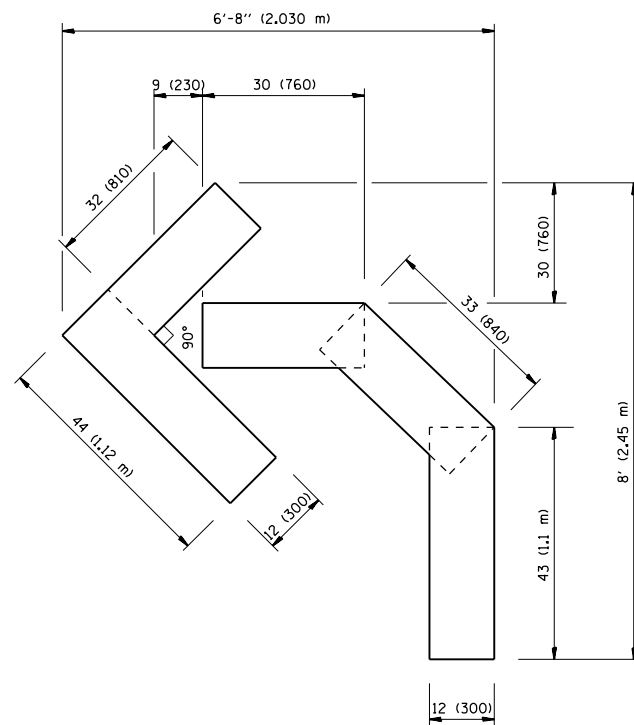
SCALE: NTS		SHEET 6	OF 1	SHEETS	STA. N/A	TO STA. N/A
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
345	6Y-TS&N(13)	DUPAGE	209	175		
TC-14			CONTRACT NO. 60W54			
ILLINOIS FED. AID PROJECT						



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

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USER NAME = JasonM	DESIGNED - IDOT	REVISED -
PLOT SCALE = NTS	DRAWN - IDOT	REVISED -
PLOT DATE = 5/8/2015	CHECKED - IDOT	REVISED -
	DATE - 5/8/2015	REVISED -

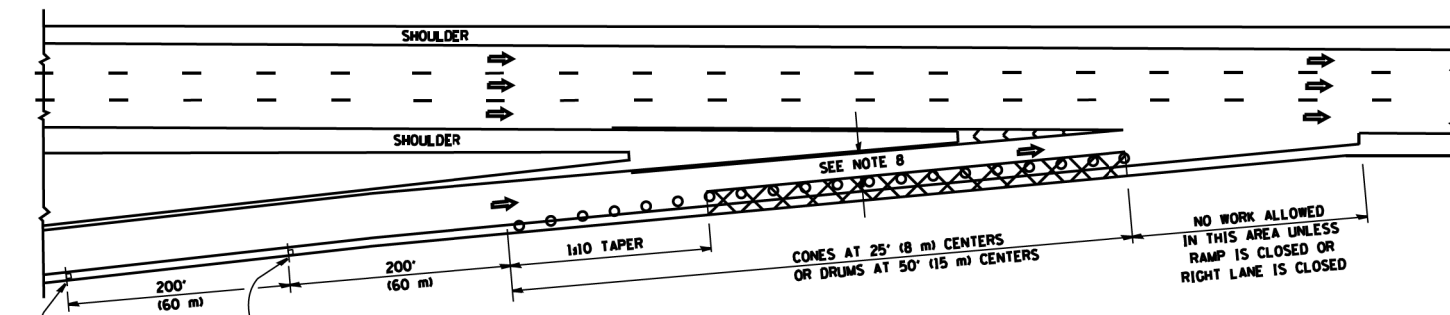
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

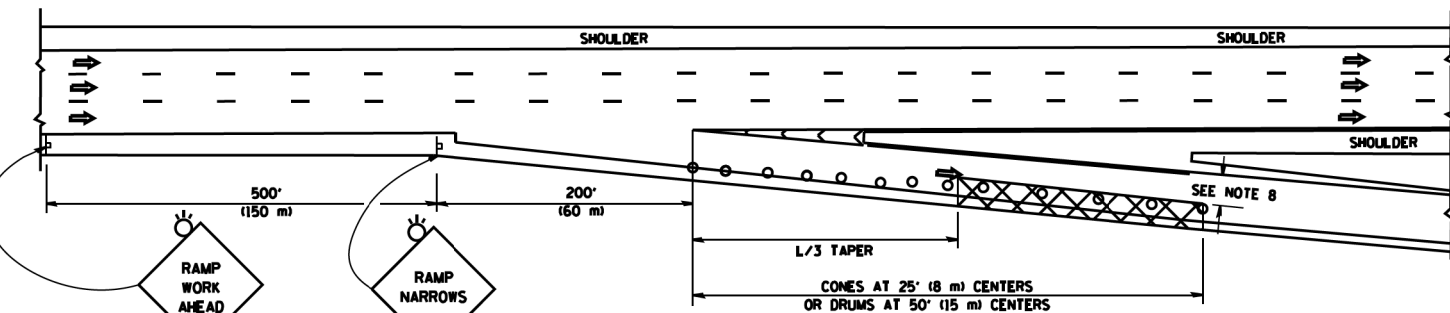
SCALE: NTS SHEET 7 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	176
TC-16			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

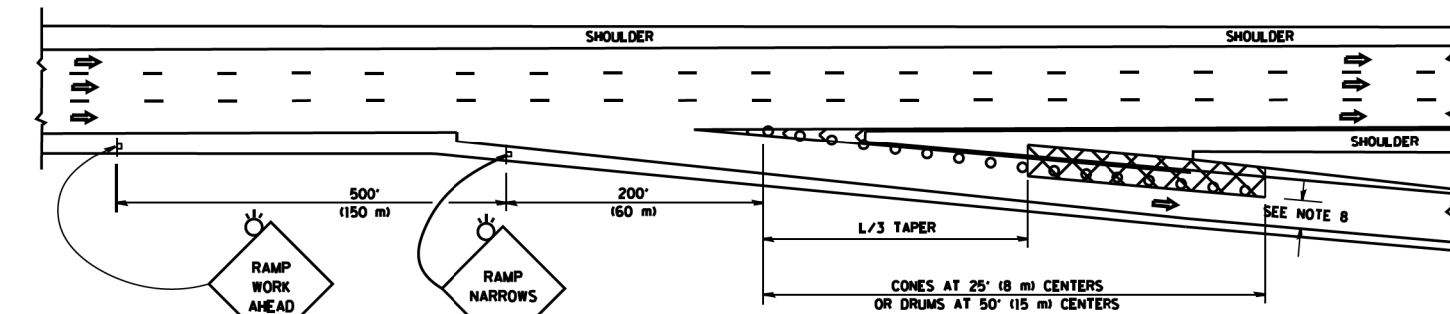
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

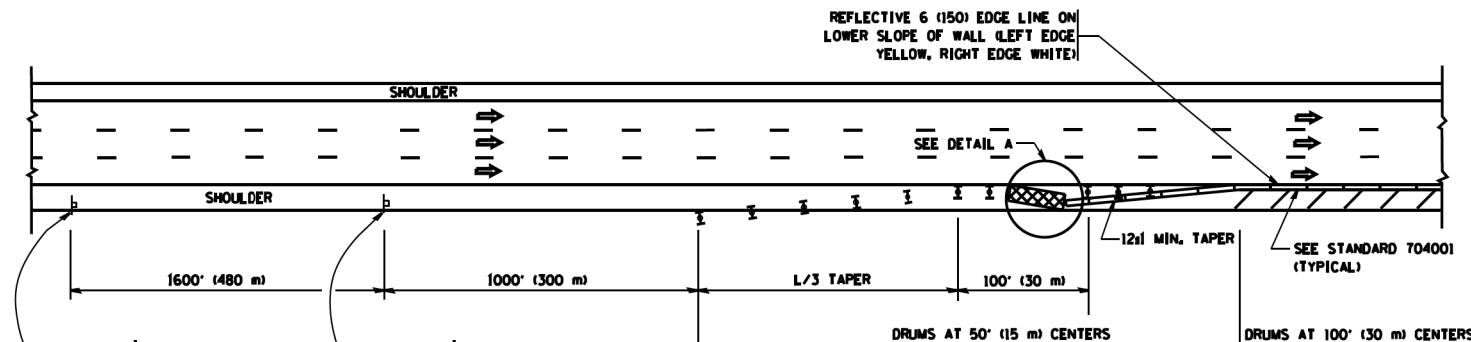
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

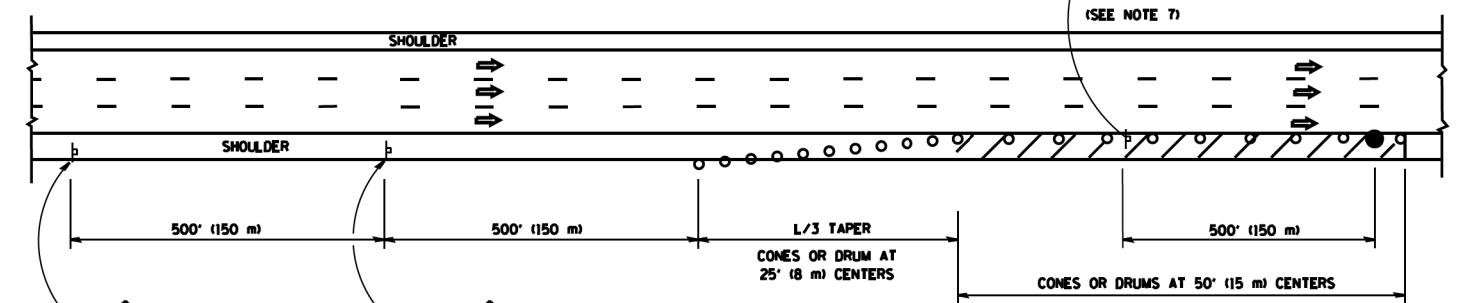
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC: $L = 0.65(WNS)$ ENGLISH: $L = (WNS)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

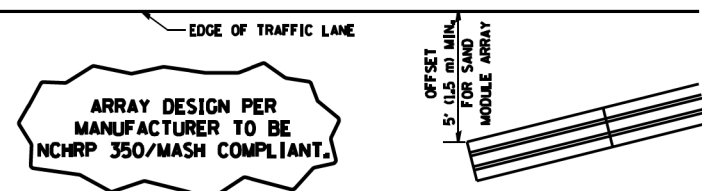
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

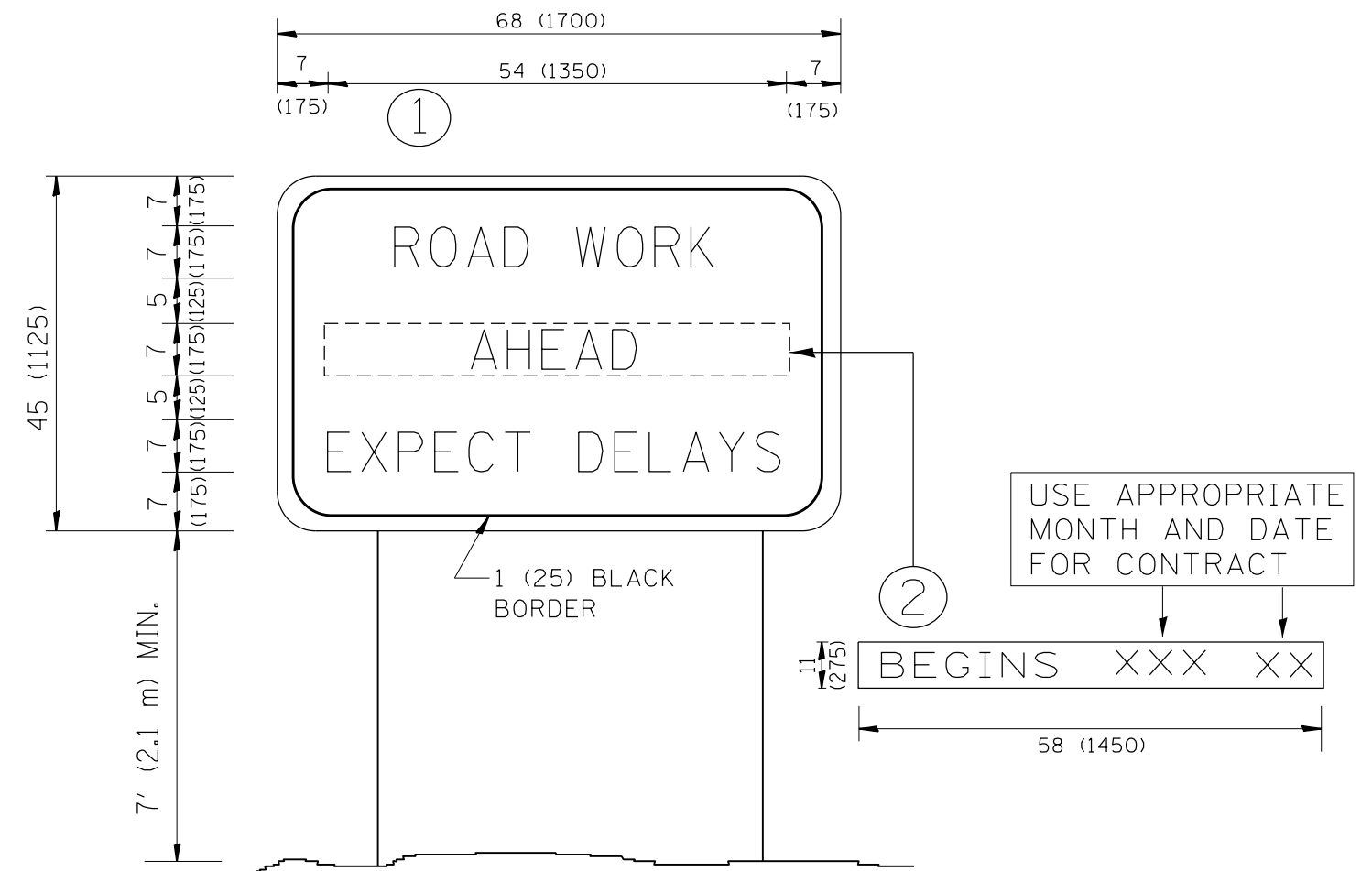


**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = lveysa	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\lveysa\0108315\tcl7.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		345	6Y-TS&N(13)	DUPAGE	209	177			
PLOT SCALE = 100.0000' / 1" =		CHECKED -	REVISED - S.P.B. 12-09		TC-17		CONTRACT NO. 60W54					
PLOT DATE = 4/17/2014		DATE - 11-96	REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 Defaul1



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

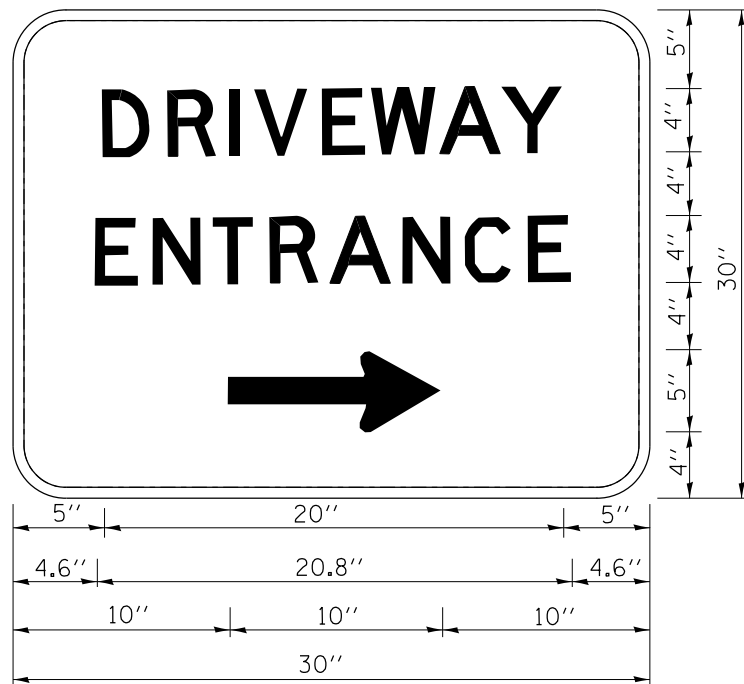
USER NAME = JasonM	DESIGNED - IDOT	REVISED -
	DRAWN - IDOT	REVISED -
PLOT SCALE = NTS	CHECKED - IDOT	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

SCALE: NTS SHEET 8 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	178
TC-22			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

M:\JIS 20 OVER WEST BRANCH DUPAGE 112-154-903\DESIGN\CIVIL\CADD Sheets\US20.Detail-cc26.dgn
 Date: 5/8/2015

USER NAME = JasonM	DESIGNED - IDOT	REVISED -
	DRAWN - IDOT	REVISED -
PLOT SCALE = NTS	CHECKED - IDOT	REVISED -
PLOT DATE = 5/8/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INFORMATION SIGNING
DRIVEWAY ENTRANCE DETAIL

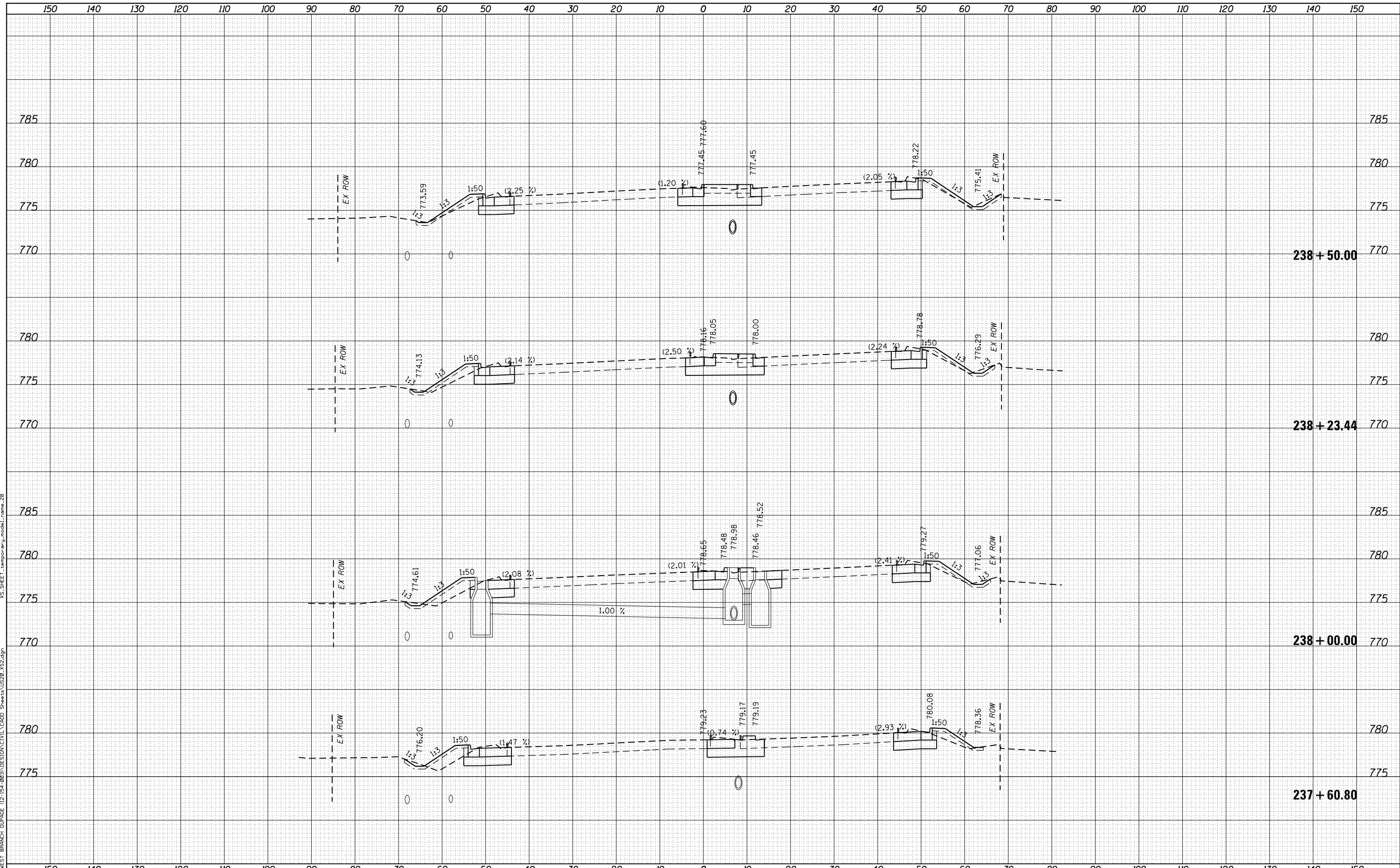
SCALE: NTS SHEET 9 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	6Y-TS&N(13)	DUPAGE	209	179
TC-26			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED AREAS CHECKED	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED AREAS CHECKED	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

MAUS 20 OVER WEST BRANCH DUPAGE 12-154-023\DESIGN\CIVIL\CADD Sheets\US20_XS2.dgn
 XS.SHEET.temporary_model_name_28



USER NAME = JasonM	DESIGNED - BCB	REVISED - 6/19/2015
	DRAWN - BCB	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

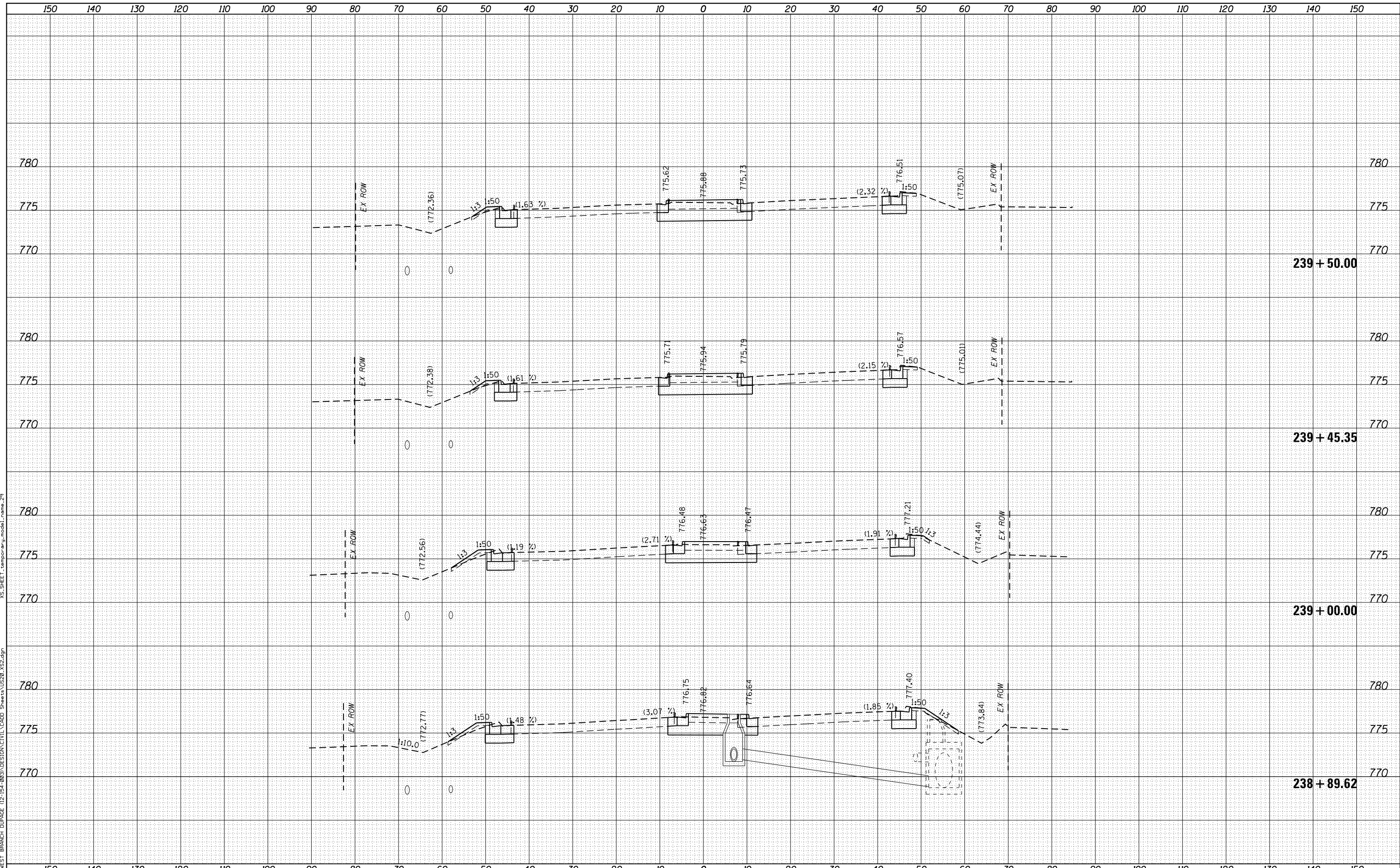
U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
CROSS SECTIONS
 SCALE: 1"=10' SHEET 28 OF 30 SHEETS STA. 237+60.80 TO STA.

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY	TOTAL SHEETS 209	SHEET NO. 207
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED AREAS CHECKED	
PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED AREAS CHECKED	
PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	

MAUS 20 OVER WEST BRANCH DUPAGE 12-154-023 DESIGN\CVIL\CADD Sheets\US20_XS2.dgn XS.SHEET temporary_model_name_29



USER NAME = JasonM	DESIGNED - BCB	REVISED - 6/19/2015
	DRAWN - BCB	REVISED -
PLOT SCALE = 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE = 6/19/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

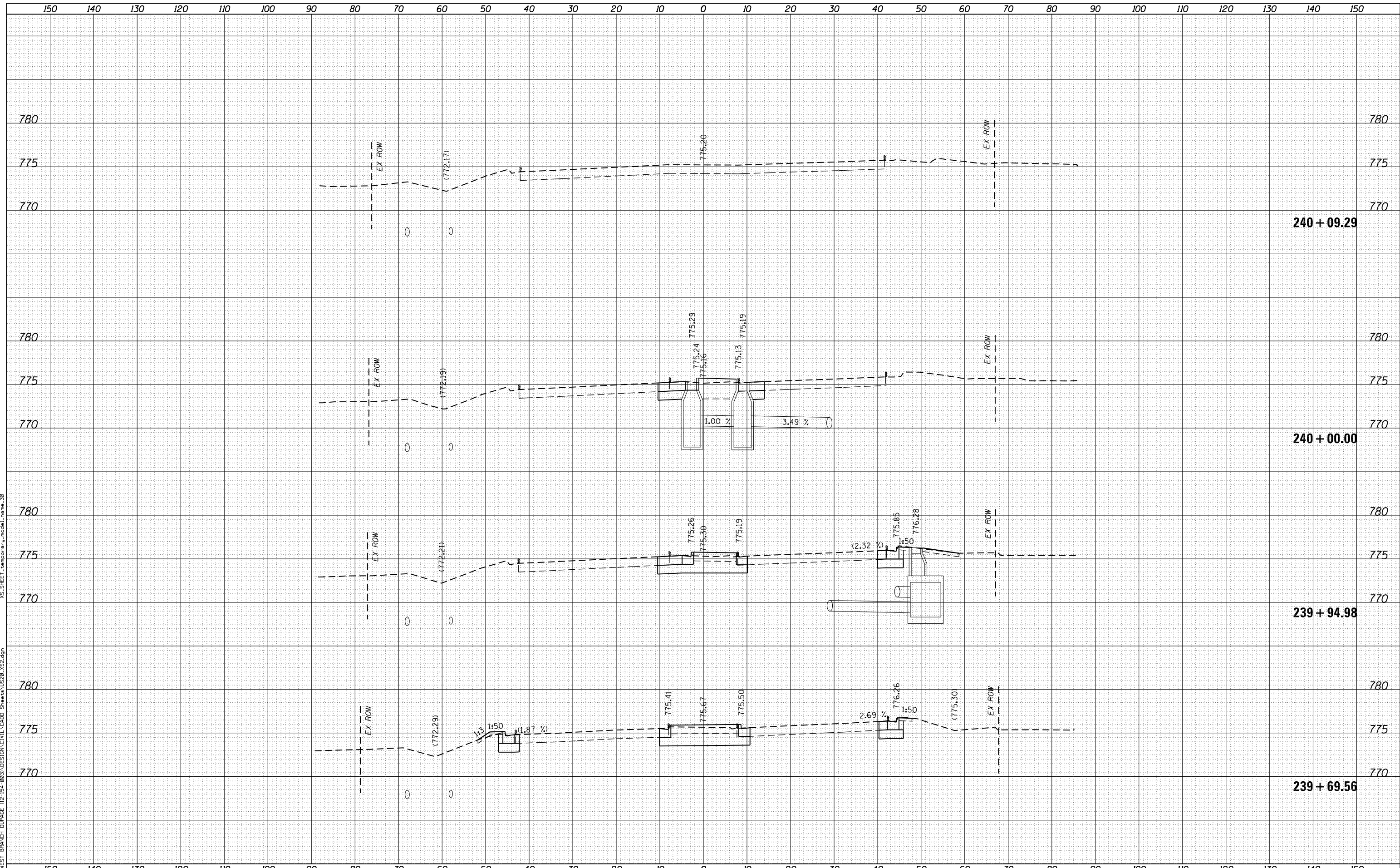
U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
CROSS SECTIONS
 SCALE: 1"=10' SHEET 29 OF 30 SHEETS STA. 238+89.62 TO STA.

F.A.P. RTE. 345	SECTION 6Y-TS&N(13)	COUNTY	TOTAL SHEETS 209	SHEET NO. 208
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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USER NAME - JasonM	DESIGNED - BCB	REVISED - 6/19/2015
	DRAWN - BCB	REVISED -
PLOT SCALE - 1"=10'	CHECKED - LVA	REVISED -
PLOT DATE - 6/19/2015	DATE - 5/8/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. RTE 20 (LAKE ST.) FROM ONTARIOVILLE RD. TO GREENBROOK BLVD.
CROSS SECTIONS
 SCALE: 1"=10' SHEET 30 OF 30 SHEETS STA. 239+69.56 TO STA. 240+09.29

F.A.P. RTE. - 345	SECTION - 6Y-TS&N(13)	COUNTY -	TOTAL SHEETS - 209	SHEET NO. - 209
			CONTRACT NO. 60W54	
ILLINOIS FED. AID PROJECT				