

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	POD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CPAD		

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INTENTIONALLY  
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20'

USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 20'	DRAWN - FPB	REVISED -
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	201
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT 2				

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	BY "A"		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE NOTATIONS CHKD		

**THIS SHEET  
INTENTIONALLY  
LEFT BLANK**

20'

USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
PLT SCALE = 20'	DRAWN - FPB	REVISED -
PLT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	202
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	BY		
	DATE		
	FILE NAME		

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20'

USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO	STA.	F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 203	
PLOT SCALE = 20'	DRAWN - FPB	REVISED -		CONTRACT NO. 63882								ILLINOIS FED. AID PROJECT					
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -															
	DATE -	REVISED -															

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
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	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	BY		
	DATE		
	FILE NAME		

**THIS SHEET  
INTENTIONALLY  
LEFT BLANK**

20'

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>USER NAME = e.jensen</td> <td>DESIGNED - EAJ</td> <td>REVISED -</td> </tr> <tr> <td>PLOT SCALE = 20'</td> <td>DRAWN - FPB</td> <td>REVISED -</td> </tr> <tr> <td>PLOT DATE = 9/22/2015</td> <td>CHECKED - GMZ</td> <td>REVISED -</td> </tr> <tr> <td></td> <td>DATE -</td> <td>REVISED -</td> </tr> </table>	USER NAME = e.jensen	DESIGNED - EAJ	REVISED -	PLOT SCALE = 20'	DRAWN - FPB	REVISED -	PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -		DATE -	REVISED -	<p><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>SHEET NO.</td> <td>OF</td> <td>SHEETS</td> <td>STA.</td> <td>TO STA.</td> </tr> </table>	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>F.A.U. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>1257</td> <td>11-00092-00-PV</td> <td>LAKE</td> <td>424</td> <td>204</td> </tr> <tr> <td colspan="5" style="text-align: right;">CONTRACT NO. 63882</td> </tr> </table>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	1257	11-00092-00-PV	LAKE	424	204	CONTRACT NO. 63882					<small>ILLINOIS FED. AID PROJECT</small>
USER NAME = e.jensen	DESIGNED - EAJ	REVISED -																																			
PLOT SCALE = 20'	DRAWN - FPB	REVISED -																																			
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -																																			
	DATE -	REVISED -																																			
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.																																
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																																	
1257	11-00092-00-PV	LAKE	424	204																																	
CONTRACT NO. 63882																																					

PLAN	SURVEYED	BY	DATE
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PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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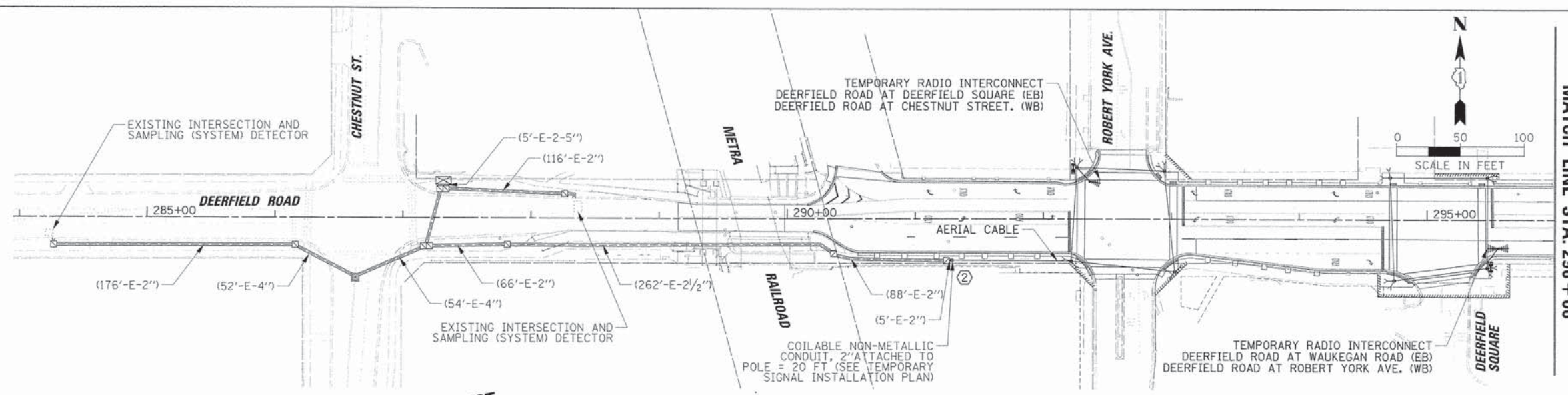
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LEFT BLANK**

20'

USER NAME = ejensen PLOT SCALE = 20' PLOT DATE = 9/22/2015	DESIGNED - EAJ DRAWN - FPB CHECKED - GMZ DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:      SHEET NO.    OF    SHEETS    STA.                    TO STA.	F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 205
CONTRACT NO. 63882								ILLINOIS FED. AID PROJECT	

PLAN	DATE
BY	
REVIEWED	
PLOTTED	
PRINTED	
NOTE BOOK	
NO.	
CADD FILE NAME	

PROFILE	DATE
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REVIEWED	
PLOTTED	
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NOTE BOOK	
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STRUCTURE	
NOTATION	

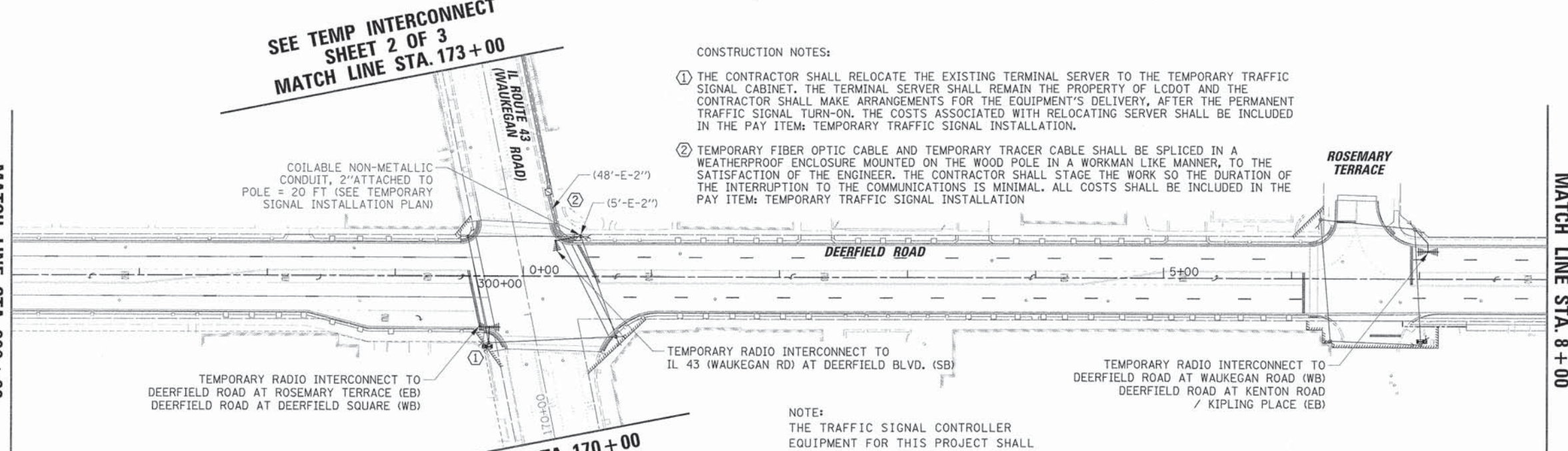


MATCH LINE STA. 296 + 00

SEE TEMP INTERCONNECT SHEET 2 OF 3 MATCH LINE STA. 173 + 00

CONSTRUCTION NOTES:

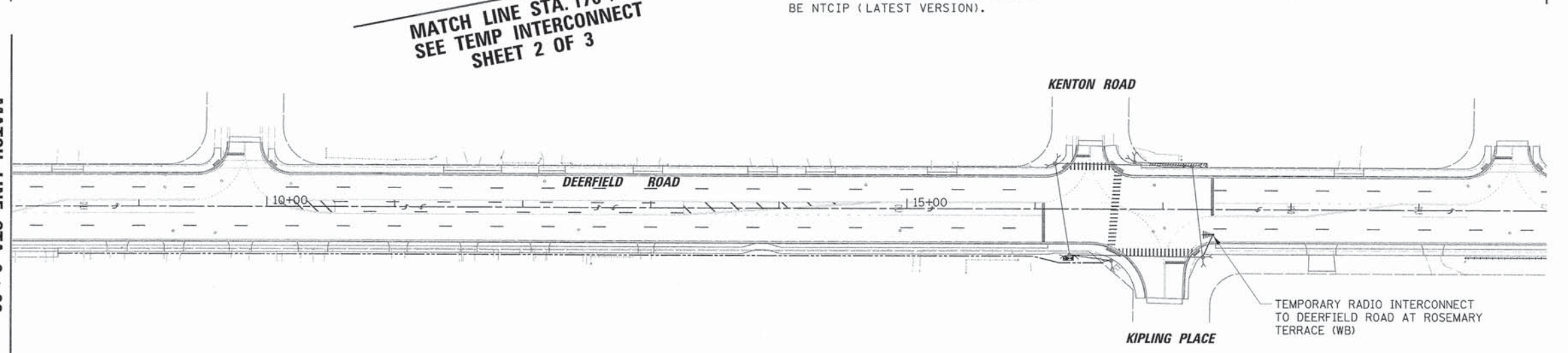
- ① THE CONTRACTOR SHALL RELOCATE THE EXISTING TERMINAL SERVER TO THE TEMPORARY TRAFFIC SIGNAL CABINET. THE TERMINAL SERVER SHALL REMAIN THE PROPERTY OF LCDOT AND THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE EQUIPMENT'S DELIVERY, AFTER THE PERMANENT TRAFFIC SIGNAL TURN-ON. THE COSTS ASSOCIATED WITH RELOCATING SERVER SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- ② TEMPORARY FIBER OPTIC CABLE AND TEMPORARY TRACER CABLE SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMAN LIKE MANNER, TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL STAGE THE WORK SO THE DURATION OF THE INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.



MATCH LINE STA. 8 + 00

SEE TEMP INTERCONNECT SHEET 2 OF 3 MATCH LINE STA. 170 + 00

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).



MATCH LINE STA. 296 + 00

MATCH LINE STA. 8 + 00

50'

USER NAME = a.jensen	DESIGNED - EAJ	REVISED -
PLLOT SCALE = 5/8"	DRAWN - FPB	REVISED -
PLLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

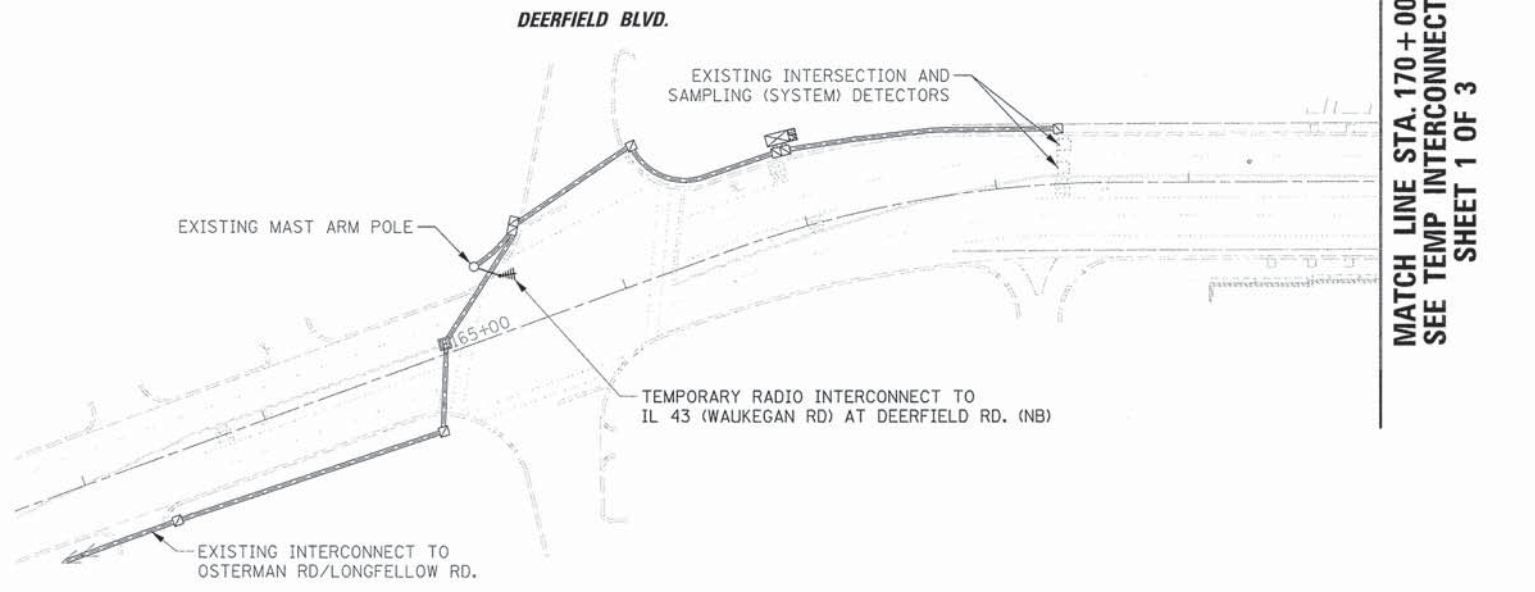
TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 3)  
DEERFIELD ROAD - WAUKEGAN ROAD TO KENTON RD/KIPLING PL  
WAUKEGAN ROAD - DEERFIELD BLVD. TO ELDER LN./HAZEL AVE.  
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 206
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				

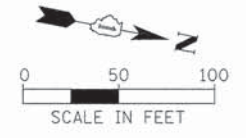
PLAN	REVISIONS	DATE
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PROFILE	REVISIONS	DATE
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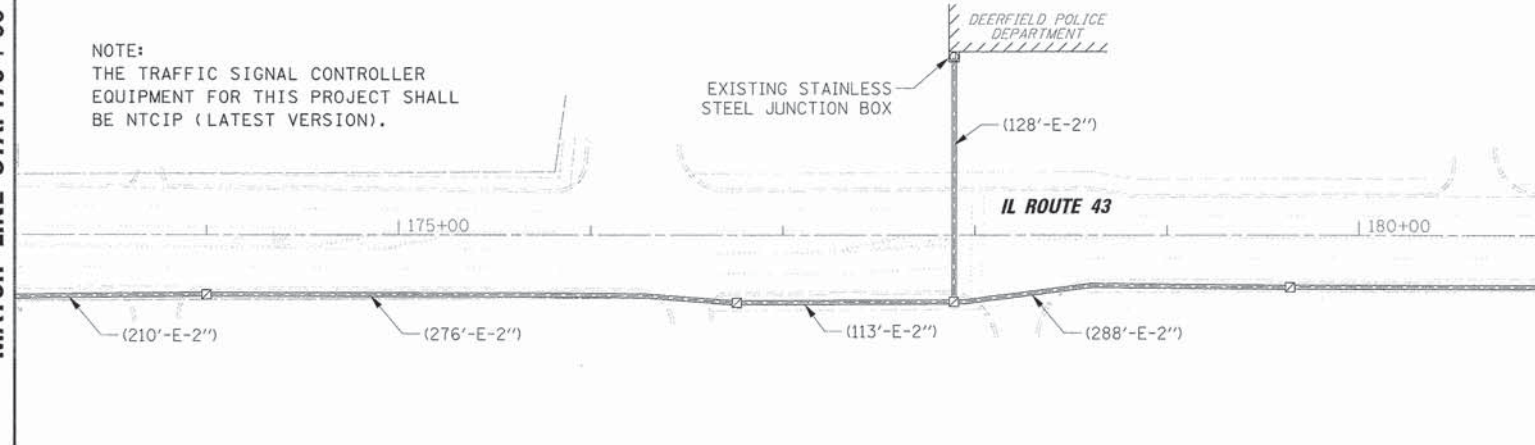
50'



MATCH LINE STA. 170+00  
SEE TEMP INTERCONNECT  
SHEET 1 OF 3

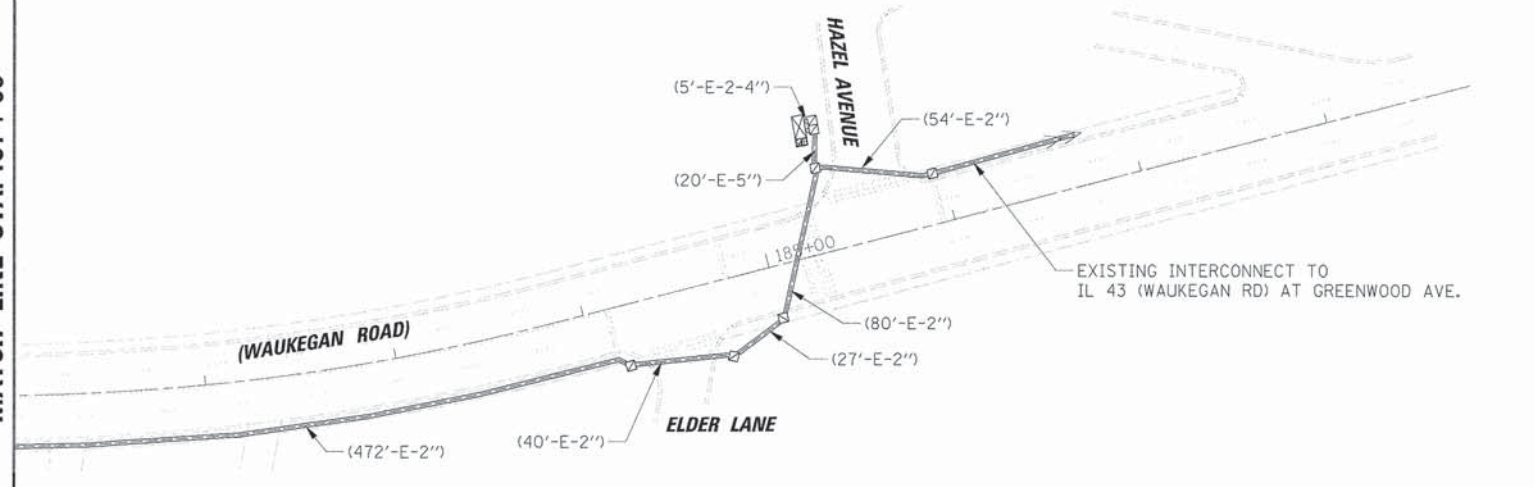


SEE TEMP INTERCONNECT  
SHEET 1 OF 3  
MATCH LINE STA. 173+00



MATCH LINE STA. 181+00

MATCH LINE STA. 181+00



USER NAME = e.jensen
PLOT SCALE = 5/8"
PLOT DATE = 9/22/2015

DESIGNED - EAJ
DRAWN - FPB
CHECKED - GMZ
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 3)  
IL ROUTE 43 (WAUKEGAN ROAD)  
FROM DEERFIELD BLVD. TO ELDER LN. / HAZEL AVE.**

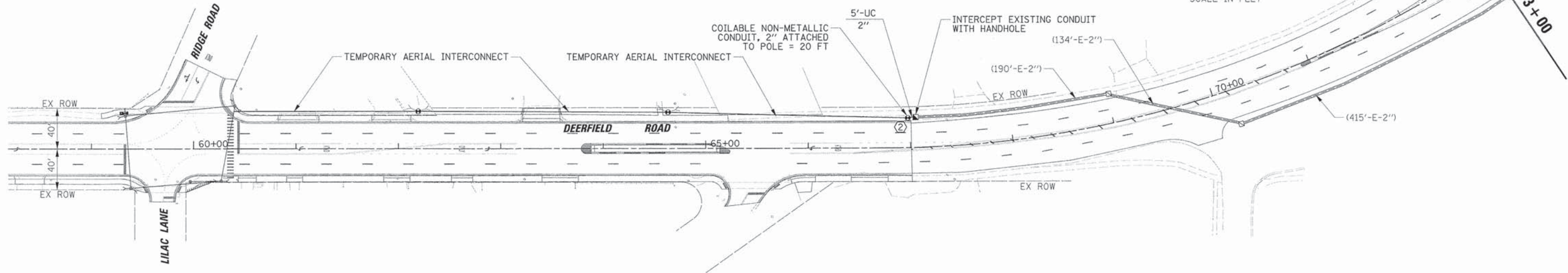
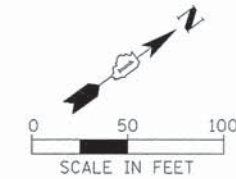
SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 207
			CONTRACT NO. 63882	
ILLINOIS FED. AID PROJECT				

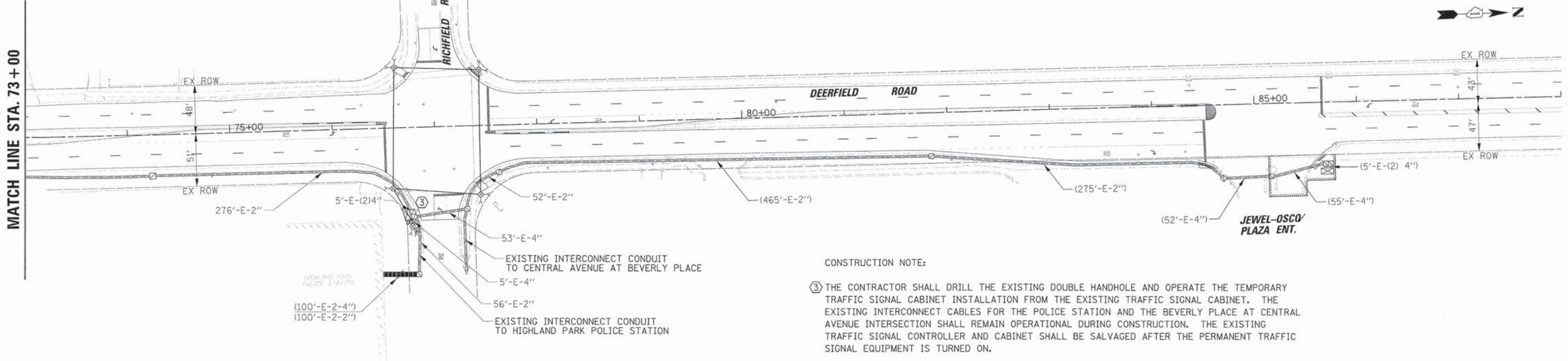
PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
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	NO.	
	FILE NAME	

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER  
EQUIPMENT FOR THIS PROJECT SHALL  
BE NTCIP (LATEST VERSION).



CONSTRUCTION NOTE:  
② TEMPORARY FIBER OPTIC CABLE AND TEMPORARY TRACER CABLE SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMAN LIKE MANNER, TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL STAGE THE WORK SO THE DURATION OF THE INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION



CONSTRUCTION NOTE:  
③ THE CONTRACTOR SHALL DRILL THE EXISTING DOUBLE HANDHOLE AND OPERATE THE TEMPORARY TRAFFIC SIGNAL CABINET INSTALLATION FROM THE EXISTING TRAFFIC SIGNAL CABINET. THE EXISTING INTERCONNECT CABLES FOR THE POLICE STATION AND THE BEVERLY PLACE AT CENTRAL AVENUE INTERSECTION SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE SALVAGED AFTER THE PERMANENT TRAFFIC SIGNAL EQUIPMENT IS TURNED ON.

50'

USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
	DRAWN - FPB	REVISED -
PLOT SCALE = 5/8"	CHECKED - GMZ	REVISED -
PLOT DATE = 9/22/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

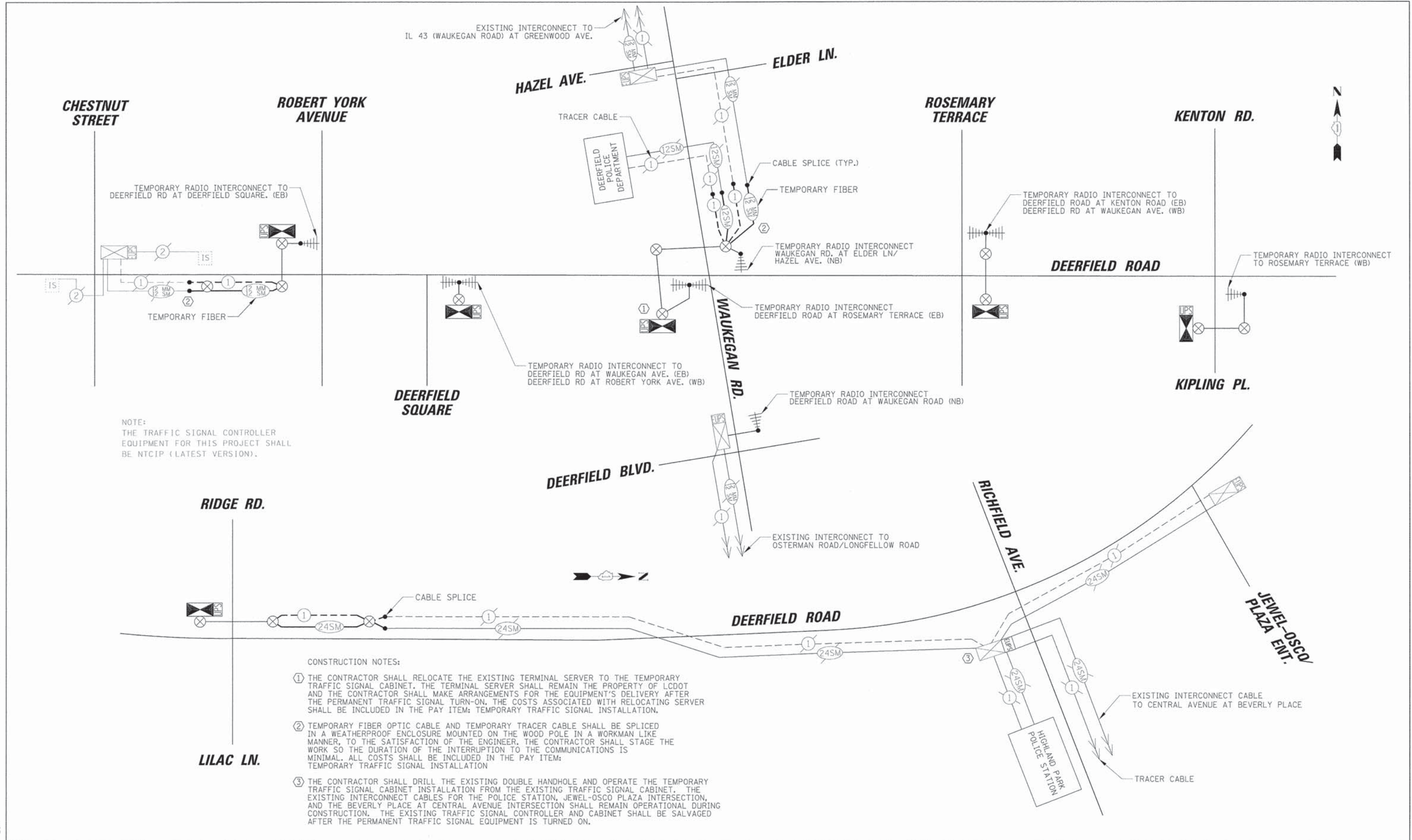
TEMPORARY INTERCONNECT PLAN (SHEET 3 OF 3)			
DEERFIELD ROAD			
LILAC LANE / RIDGE ROAD TO JEWEL-OSCO ENTRANCE			
SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	208
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
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	CHECKED	
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	NO.	
	ADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	STRUCTURE NOTATION CHYD	



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

- CONSTRUCTION NOTES:
- 1 THE CONTRACTOR SHALL RELOCATE THE EXISTING TERMINAL SERVER TO THE TEMPORARY TRAFFIC SIGNAL CABINET. THE TERMINAL SERVER SHALL REMAIN THE PROPERTY OF LCDOT AND THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE EQUIPMENT'S DELIVERY AFTER THE PERMANENT TRAFFIC SIGNAL TURN-ON. THE COSTS ASSOCIATED WITH RELOCATING SERVER SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.
  - 2 TEMPORARY FIBER OPTIC CABLE AND TEMPORARY TRACER CABLE SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMAN LIKE MANNER, TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL STAGE THE WORK SO THE DURATION OF THE INTERRUPTION TO THE COMMUNICATIONS IS MINIMAL. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION
  - 3 THE CONTRACTOR SHALL DRILL THE EXISTING DOUBLE HANDHOLE AND OPERATE THE TEMPORARY TRAFFIC SIGNAL CABINET INSTALLATION FROM THE EXISTING TRAFFIC SIGNAL CABINET. THE EXISTING INTERCONNECT CABLES FOR THE POLICE STATION, JEWEL-OSCO PLAZA INTERSECTION, AND THE BEVERLY PLACE AT CENTRAL AVENUE INTERSECTION SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. THE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE SALVAGED AFTER THE PERMANENT TRAFFIC SIGNAL EQUIPMENT IS TURNED ON.

20

USER NAME = e_jensen	DESIGNED - EAJ	REVISED -
	DRAWN - FPB	REVISED -
PLOT SCALE = 20"	CHECKED - GMZ	REVISED -
PLOT DATE = 9/22/2015	DATE -	REVISED -

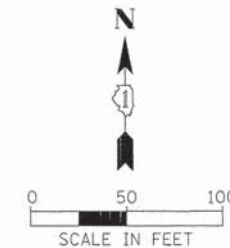
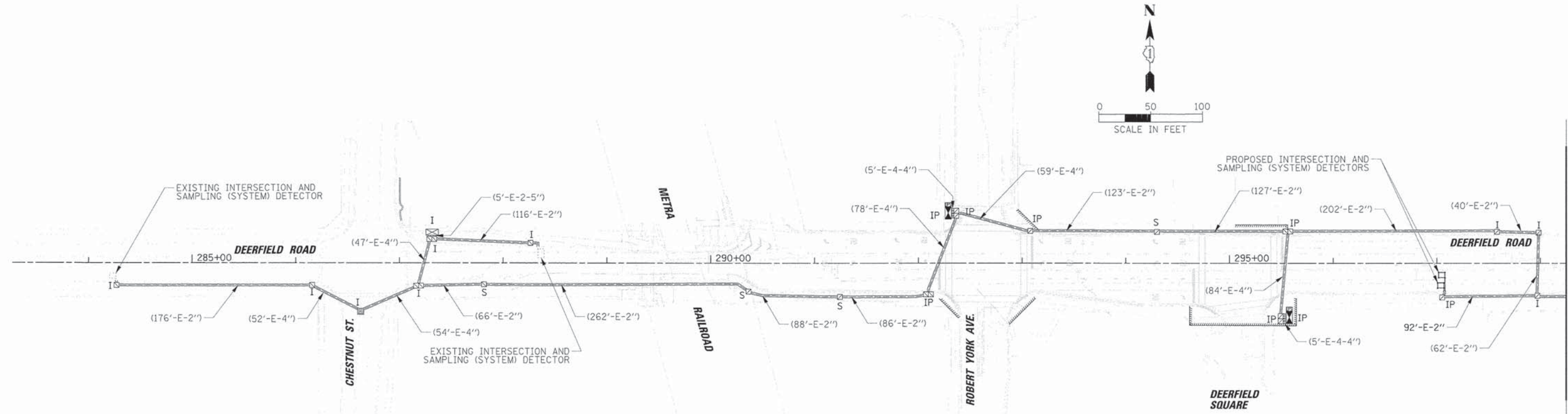
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC				
DEERFIELD RD. FROM WAUKEGAN RD. TO KENTON RD./KIPLING PLACE				
DEERFIELD RD. FROM RIDGE RD./LILAC LN TO JEWEL-OSCO/PLAZA ENT.				
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.

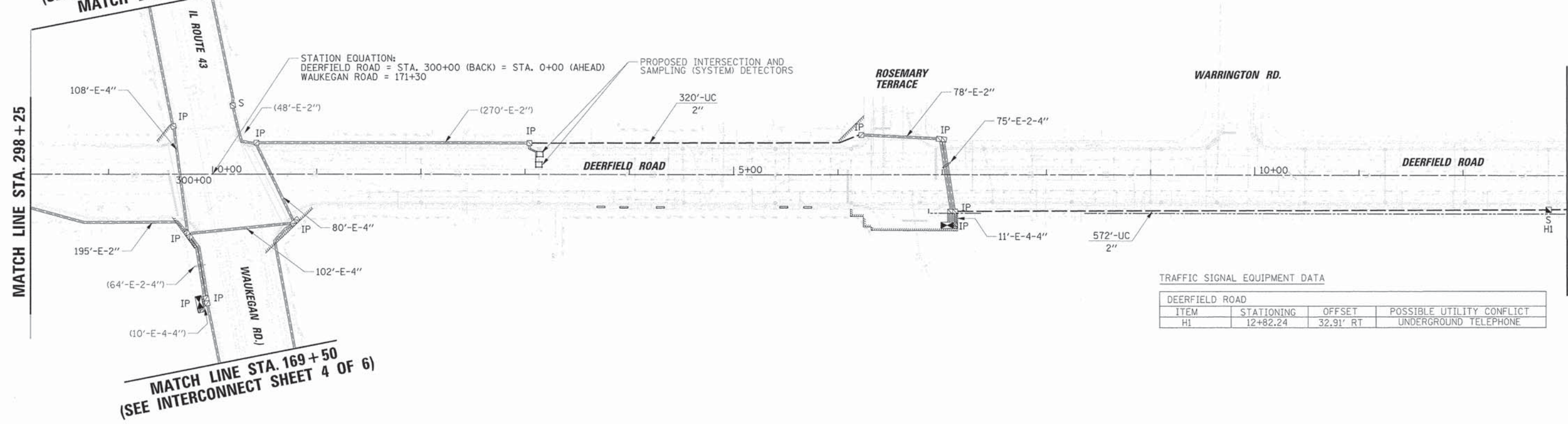
F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 209
CONTRACT NO. 63882			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
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	PAID FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	REVISIONS		
	BY		
	DATE		
	NO. OF RAY CHECKED		
	PAID FILE NAME		



(SEE INTERCONNECT SHEET 4 OF 6)  
MATCH LINE STA. 173+00



TRAFFIC SIGNAL EQUIPMENT DATA

DEERFIELD ROAD			
ITEM	STATIONING	OFFSET	POSSIBLE UTILITY CONFLICT
H1	12+82.24	32.91' RT	UNDERGROUND TELEPHONE

MATCH LINE STA. 169+50  
(SEE INTERCONNECT SHEET 4 OF 6)

MATCH LINE STA. 298+25

MATCH LINE STA. 13+00  
(SEE INTERCONNECT SHEET 2 OF 6)

USER NAME = ejensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 58'	DRAWN - FPB	REVISED -
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

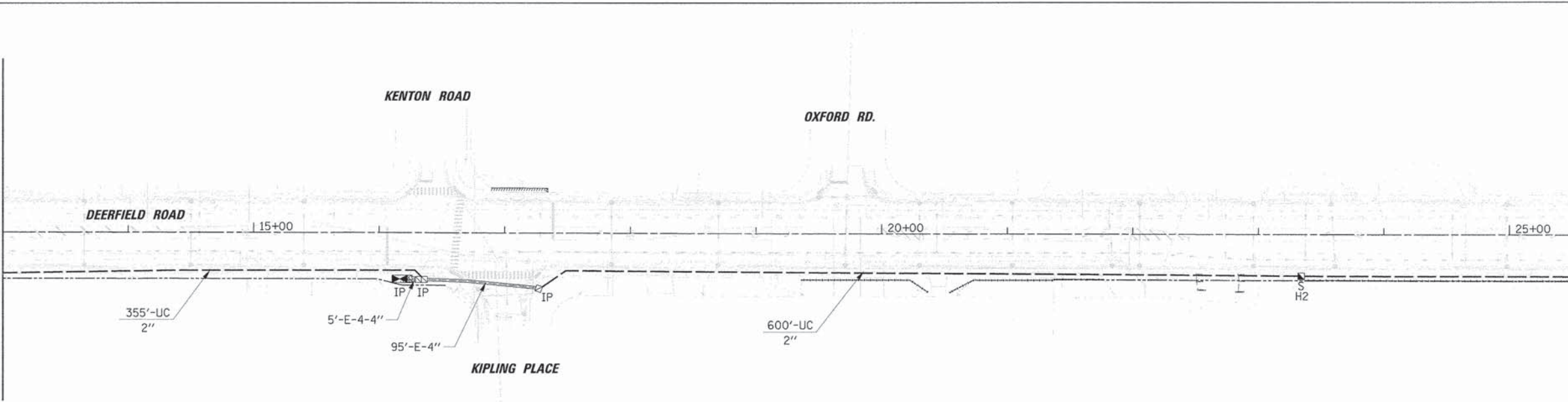
INTERCONNECT PLAN (SHEET 1 OF 6) DEERFIELD ROAD CHESTNUT STREET TO JEWEL-OSCO ENTRANCE			
SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 210
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

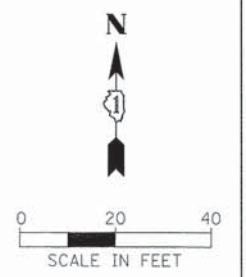
PLAN	DATE
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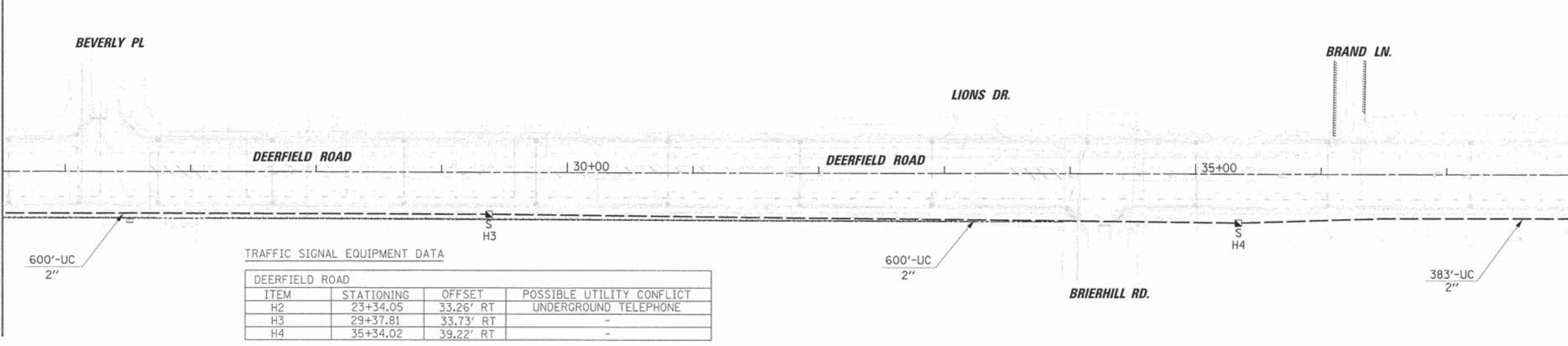
(SEE INTERCONNECT SHEET 1 OF 6)  
MATCH LINE STA. 13+00



MATCH LINE STA. 25+50



MATCH LINE STA. 25+50

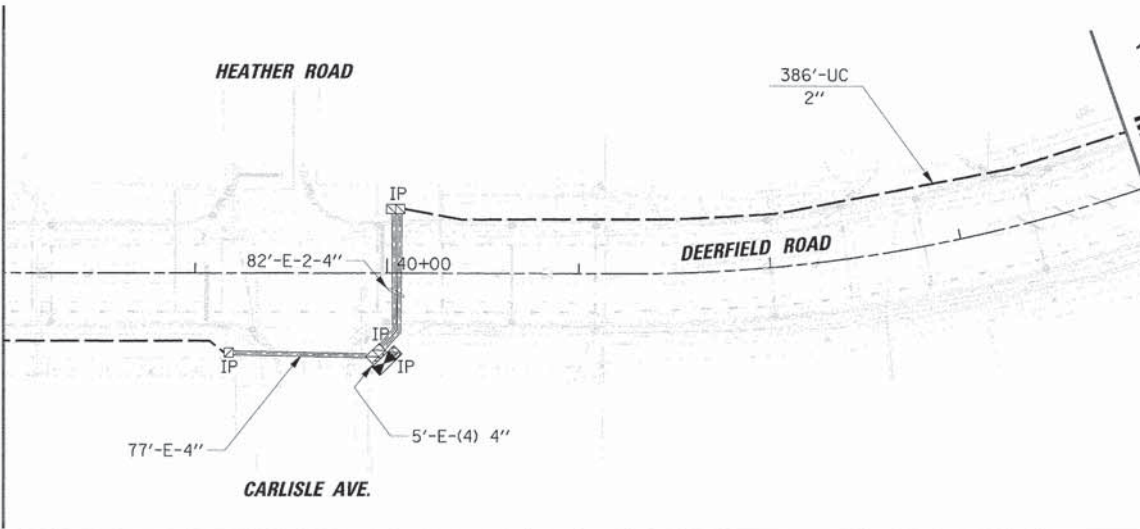


MATCH LINE STA. 38+00

TRAFFIC SIGNAL EQUIPMENT DATA

DEERFIELD ROAD			
ITEM	STATIONING	OFFSET	POSSIBLE UTILITY CONFLICT
H2	23+34.05	33.26' RT	UNDERGROUND TELEPHONE
H3	29+37.81	33.73' RT	-
H4	35+34.02	39.22' RT	-

MATCH LINE STA. 38+00



(SEE INTERCONNECT SHEET 3 OF 6)  
MATCH LINE STA. 44+00

50'

USER NAME = e.jermen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 50'	DRAWN - FPB	REVISED -
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

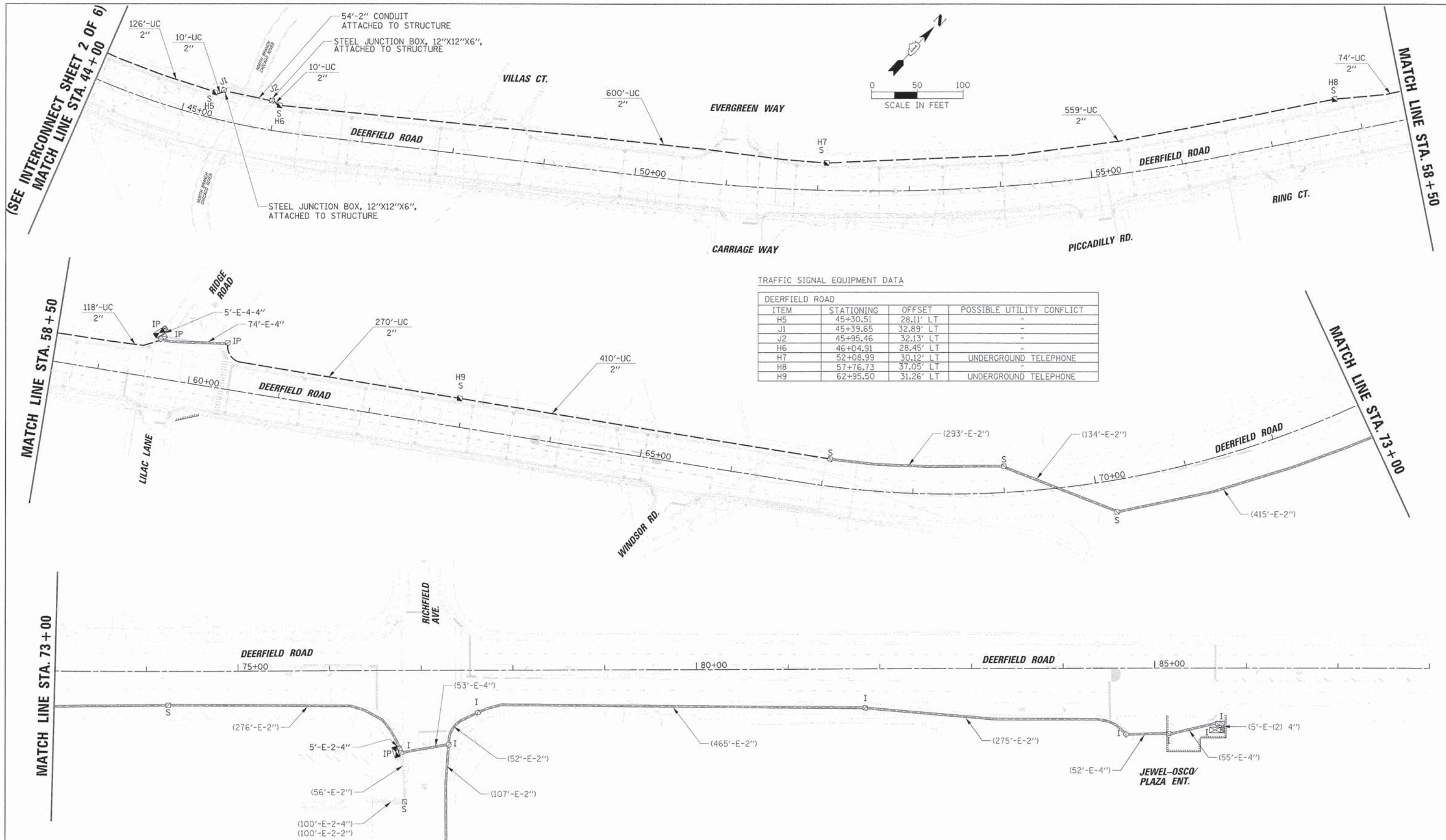
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN (SHEET 2 OF 6)			
DEERFIELD ROAD			
CHESTNUT STREET TO JEWEL-OSCO ENTRANCE			
SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	211
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

PLAN	DESIGNED	DATE
	DRAWN	
	CHECKED	
	NOTED	
	FILE NAME	

PROFILE	DESIGNED	DATE
	DRAWN	
	CHECKED	
	NOTED	
	FILE NAME	



TRAFFIC SIGNAL EQUIPMENT DATA

DEERFIELD ROAD			
ITEM	STATIONING	OFFSET	POSSIBLE UTILITY CONFLICT
H5	45+30.51	28.11' LT	-
J1	45+39.65	32.89' LT	-
J2	45+95.46	32.13' LT	-
H6	46+04.91	28.45' LT	-
H7	52+08.99	30.12' LT	UNDERGROUND TELEPHONE
H8	57+76.73	37.05' LT	-
H9	62+95.50	31.26' LT	UNDERGROUND TELEPHONE

MATCH LINE A - A  
(SEE INTERCONNECT SHEET 5 OF 6)

USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 5/8"	DRAWN - FPB	REVISED -
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

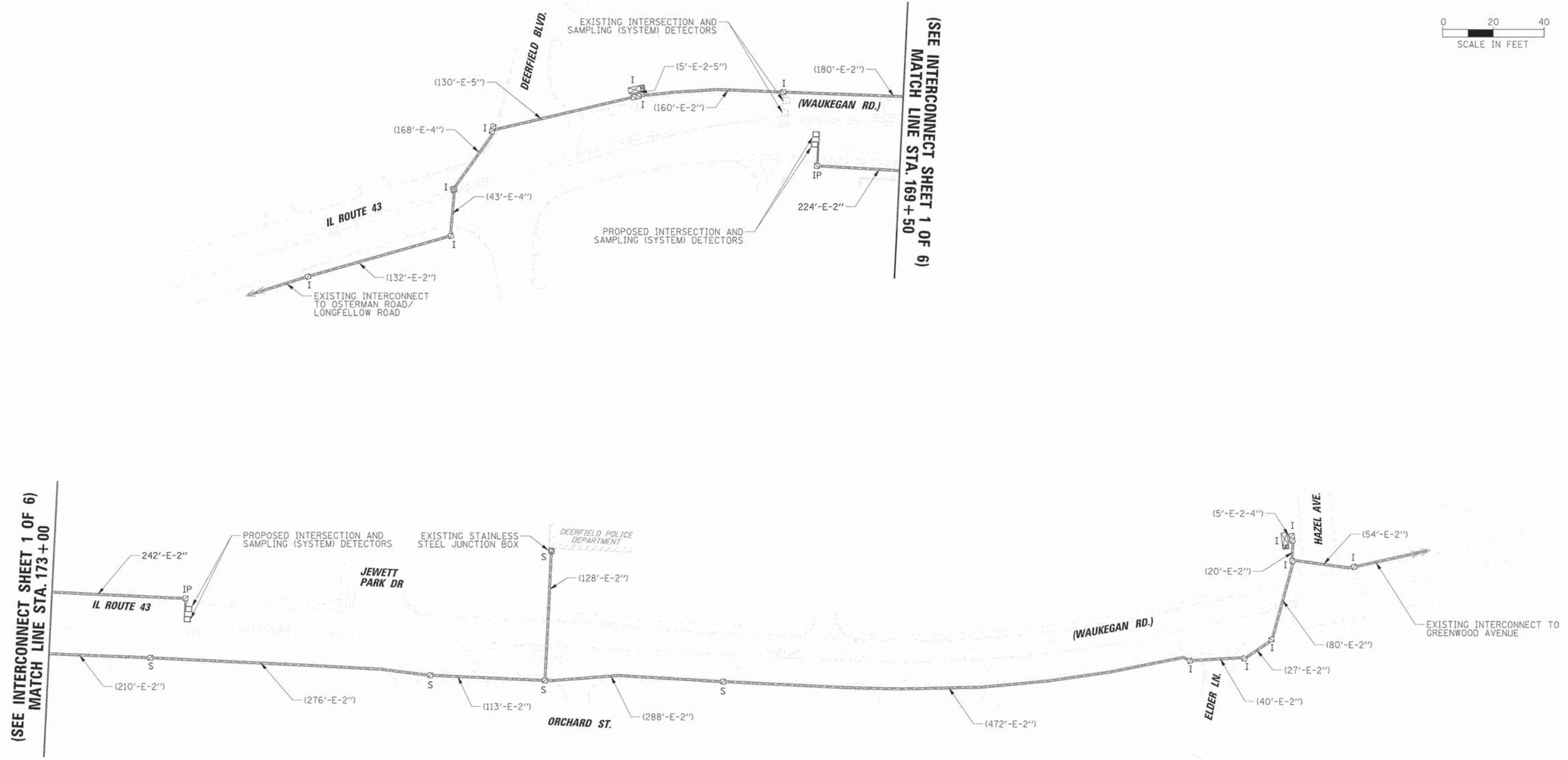
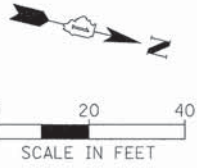
INTERCONNECT PLAN (SHEET 3 OF 6)  
DEERFIELD ROAD  
CHESTNUT STREET TO JEWEL-OSCO ENTRANCE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	212
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

PLAN	DATE
BY	
NO.	
FILE NAME	

PROFILE	DATE
BY	
NO.	
FILE NAME	



50'

USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
PLLOT SCALE = 50'	DRAWN - FPB	REVISED -
PLLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

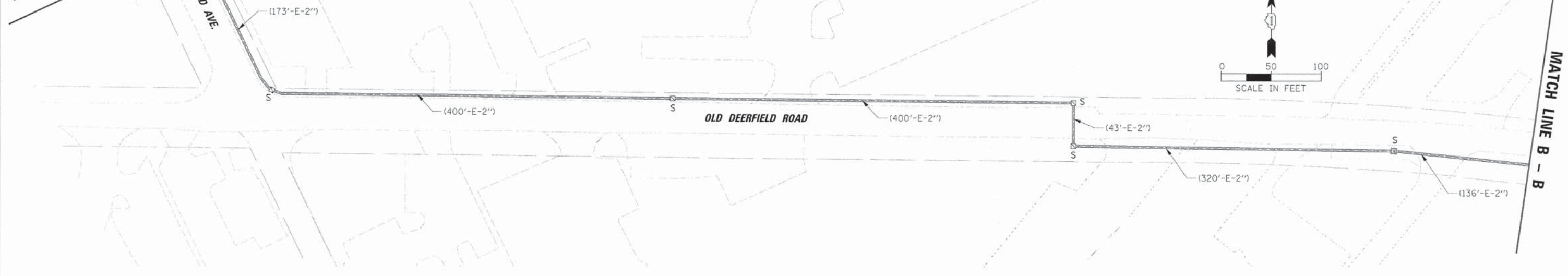
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>INTERCONNECT PLAN (SHEET 4 OF 6) IL ROUTE 43 (WAUKEGAN ROAD) DEERFIELD BOULEVARD TO ELDER LANE / HAZEL AVENUE</b>			
SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 213
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

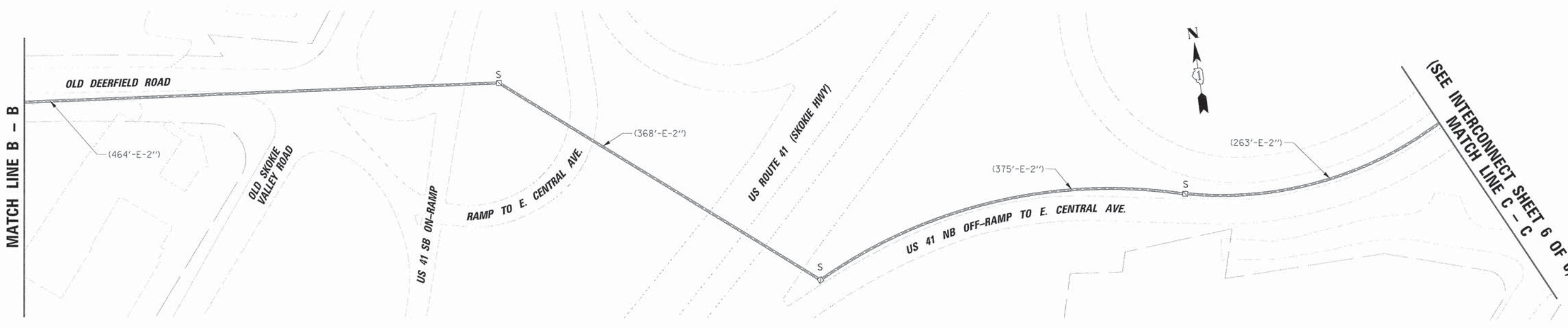
(SEE INTERCONNECT SHEET 3 OF 6)  
MATCH LINE A - A

PLAN	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	NOTE BOOK	
	NO.	
	ADD FILE NAME	



MATCH LINE B - B

PROFILE	SURVEYED	DATE
	PLOTTED	
	REVISIONS	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS	



(SEE INTERCONNECT SHEET 6 OF 6)  
MATCH LINE C - C

50'

USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 50'	DRAWN - FPB	REVISED -
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

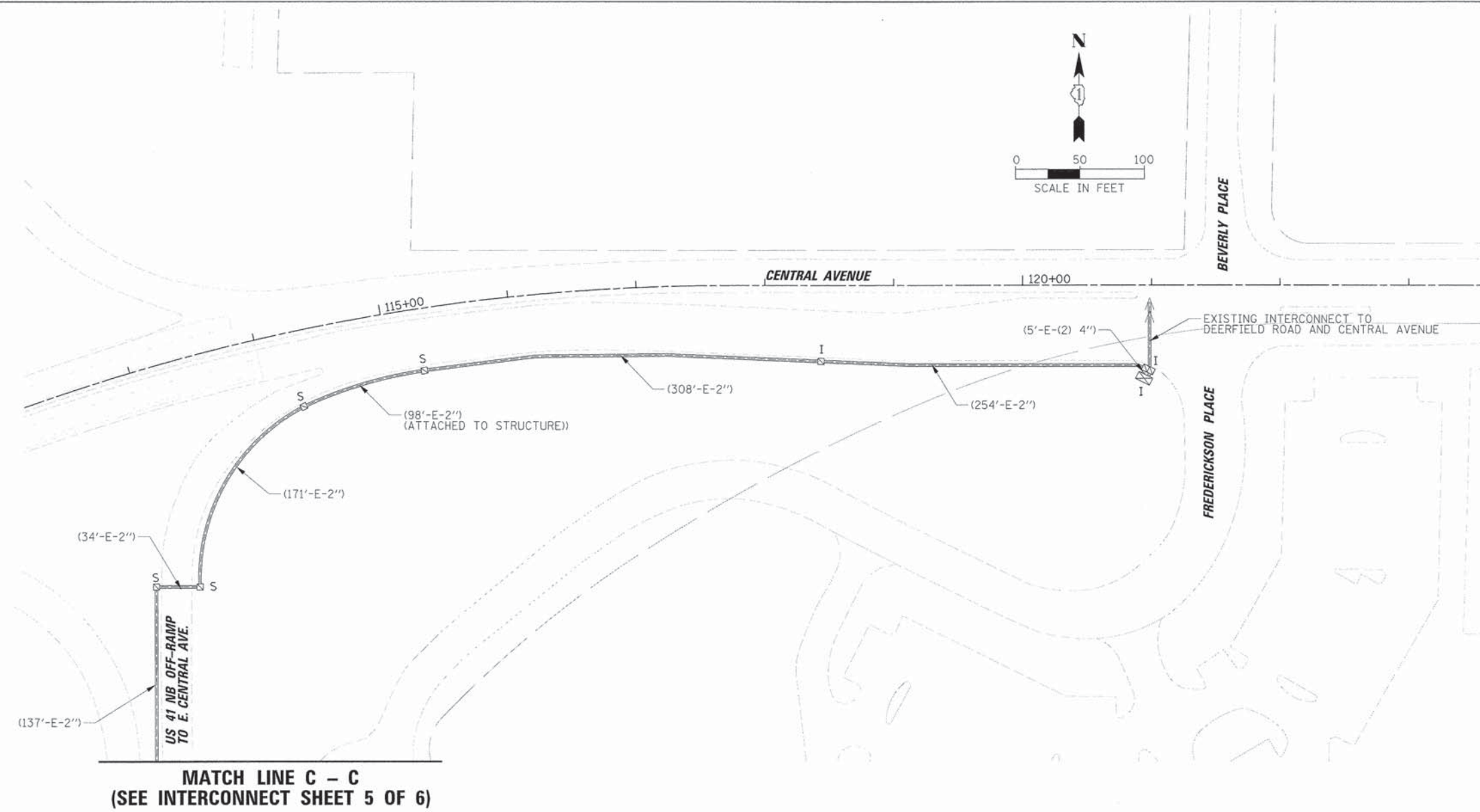
INTERCONNECT PLAN (SHEET 5 OF 6)  
RICHFIELD ROAD FROM DEERFIELD ROAD TO  
CENTRAL AVENUE AT FREDERICKSON PLACE / BEVERLY PLACE

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 214
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				

PL AN	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	FILE NAME		
	NO.		

PROF ILE	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	FILE NAME		
	NO.		



**MATCH LINE C - C**  
(SEE INTERCONNECT SHEET 5 OF 6)

50'

USER NAME = e.jansen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 50'	DRAWN - FPB	REVISED -
PLOT DATE = 9/22/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN (SHEET 6 OF 6)**  
**RICHFIELD ROAD FROM DEERFIELD ROAD TO**  
**CENTRAL AVENUE AT FREDERICKSON PLACE / BEVERLY PLACE**

SCALE: 1 = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	215
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

THE FOLLOWING INTERSECTIONS ARE TO BE INCLUDED IN THE ITEM:  
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

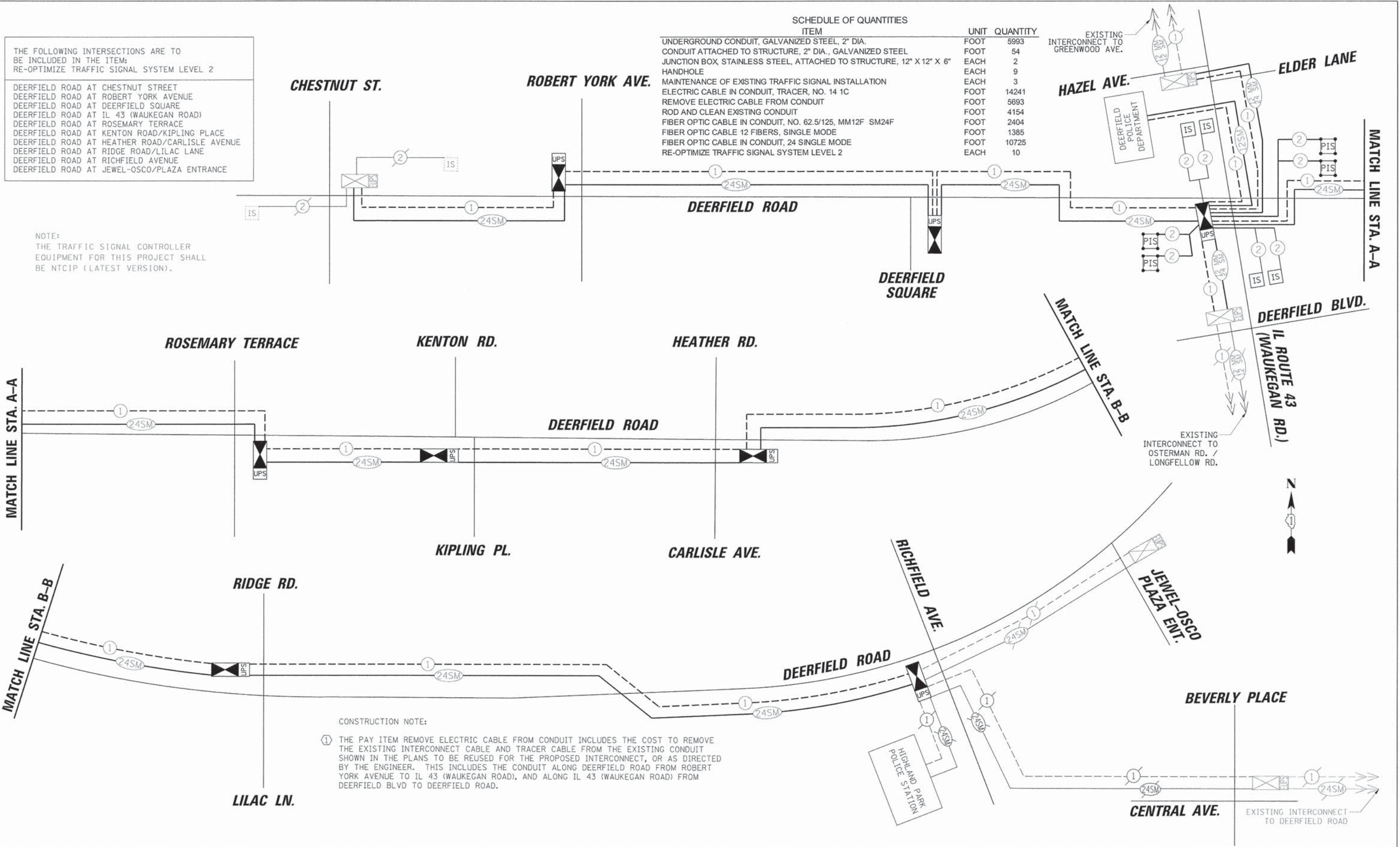
DEERFIELD ROAD AT CHESTNUT STREET  
DEERFIELD ROAD AT ROBERT YORK AVENUE  
DEERFIELD ROAD AT DEERFIELD SQUARE  
DEERFIELD ROAD AT IL 43 (WAUKEGAN ROAD)  
DEERFIELD ROAD AT ROSEMARY TERRACE  
DEERFIELD ROAD AT KENTON ROAD/KIPLING PLACE  
DEERFIELD ROAD AT HEATHER ROAD/CARLISLE AVENUE  
DEERFIELD ROAD AT RIDGE ROAD/LILAC LANE  
DEERFIELD ROAD AT RICHFIELD AVENUE  
DEERFIELD ROAD AT JEWEL-OSCO/PLAZA ENTRANCE

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5993
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	54
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2
HANDHOLE	EACH	9
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	14241
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5693
ROD AND CLEAN EXISTING CONDUIT	FOOT	4154
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2404
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	1385
FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	10725
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	10

DATE	BY	REVIEWED
DATE	BY	NOTED
DATE	BY	CHECKED
DATE	BY	FILE NAME

DATE	BY	REVIEWED
DATE	BY	NOTED
DATE	BY	CHECKED
DATE	BY	FILE NAME



CONSTRUCTION NOTE:  
① THE PAY ITEM REMOVE ELECTRIC CABLE FROM CONDUIT INCLUDES THE COST TO REMOVE THE EXISTING INTERCONNECT CABLE AND TRACER CABLE FROM THE EXISTING CONDUIT SHOWN IN THE PLANS TO BE REUSED FOR THE PROPOSED INTERCONNECT, OR AS DIRECTED BY THE ENGINEER. THIS INCLUDES THE CONDUIT ALONG DEERFIELD ROAD FROM ROBERT YORK AVENUE TO IL 43 (WAUKEGAN ROAD), AND ALONG IL 43 (WAUKEGAN ROAD) FROM DEERFIELD BLVD TO DEERFIELD ROAD.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC  
DEERFIELD ROAD FROM CHESTNUT STREET TO JEWEL-OSCO PLAZA ENT.  
AND FROM RICHFIELD ROAD TO CENTRAL AVENUE AT BEVERLY BLVD.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	216
CONTRACT NO. 63882				

USER NAME = e.jensen	DESIGNED = EAJ	REVISED =
PLOT SCALE = 20'	DRAWN = FPB	REVISED =
PLOT DATE = 9/22/2015	CHECKED = GMZ	REVISED =
	DATE =	REVISED =



## FIBER TERMINATIONS COUNT

INTERSECTIONS	INCLUDED IN COST OF FIBER OPTIC CABLE		BID ITEM	
	SPLICES	TERMINATIONS	SPLICES	TERMINATIONS
DEERFIELD RD AT CHESTNUT RD		6		
DEERFIELD RD AT ROBERT YORK AVE		12		
DEERFIELD RD AT DEERFIELD SQUARE		12		
DEERFIELD RD AT IL 43	8	12		
DEERFIELD RD AT ROSEMARY TERR		12		
DEERFIELD RD AT KENTON/KIPLING		12		
DEERFIELD RD AT HEATHER/CARLISLE	6	6		
DEERFIELD RD AT RIDGE/LILAC	6	12		
DEERFIELD RD AT RICHFIELD	12	12	6	
DEERFIELD RD AT JEWEL PLAZA		12		
DEERFIELD POLICE DEPT	6			
HIGHLAND PARK POLICE DEPT				
IL 43 AT HAZEL/ELDER	6			
IL 43 AT DEERFIELD BLVD	4			
CENTRAL AVE AT BEVERLY PLACE				
CENTRAL AVE AT DEERFIELD RD				
CENTRAL AVE AT SUNSET RD				
CENTRAL AVE AT HICKORY ST				
CENTRAL AVE AT GREEN BAY RD				
LAUREL AVE AT HICKORY ST				
LAUREL AVE AT GREEN BAY RD				
<b>TOTAL</b>	<b>48</b>	<b>108</b>	<b>6</b>	<b>0</b>

### PATCH PANEL COLOR CODING

#### SINGLE MODE FIBER

- BLUE
- ORANGE
- GREEN
- BROWN
- SLATE
- WHITE
- RED
- BLACK
- YELLOW
- VIOLET
- ROSE
- AQUA

- BLUE with BLACK tracer
- ORANGE with BLACK tracer
- GREEN with BLACK tracer
- BROWN with BLACK tracer
- SLATE with BLACK tracer
- WHITE with BLACK tracer
- RED with BLACK tracer
- BLACK with BLACK tracer
- YELLOW with BLACK tracer
- VIOLET with BLACK tracer
- ROSE with BLACK tracer
- AQUA with BLACK tracer

**ALL SINGLE MODE  
PATCH PANEL  
CONNECTORS ARE  
TO BE TYPE SC**

**ALL MULTIMODE  
PATCH PANEL  
CONNECTORS ARE  
TO BE TYPE ST**

### NETWORK SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SPlice FIBER IN CABINET	EACH	6

PLAN  
 DESIGNED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_

PROFILE  
 DESIGNED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_

20'

USER NAME = jstreich	DESIGNED - EAJ	REVISED -
	DRAWN - FPB	REVISED -
PLOT SCALE = 28"	CHECKED - GMZ	REVISED -
PLOT DATE = 8/30/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

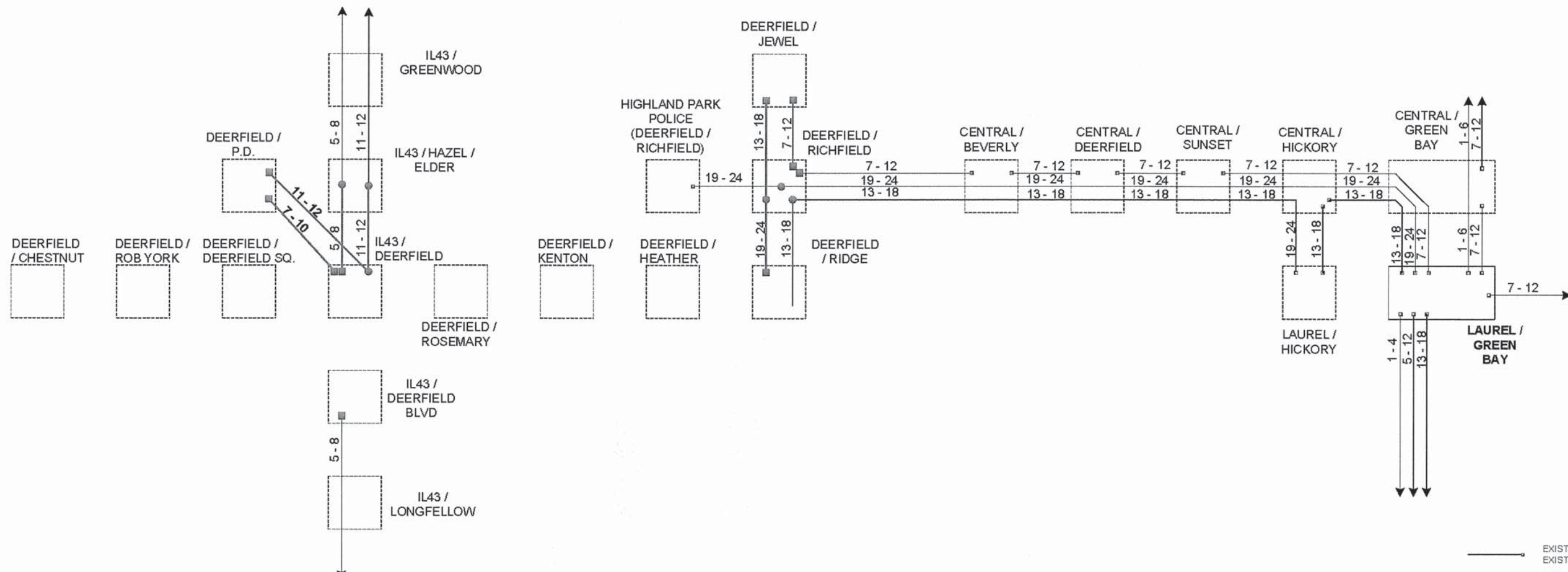
**FIBER TERMINATION / SPLICE COUNT  
AND PATCH PANEL COLOR CODING**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	217
CONTRACT NO. 63882				

SCALE: SHEET NO. OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

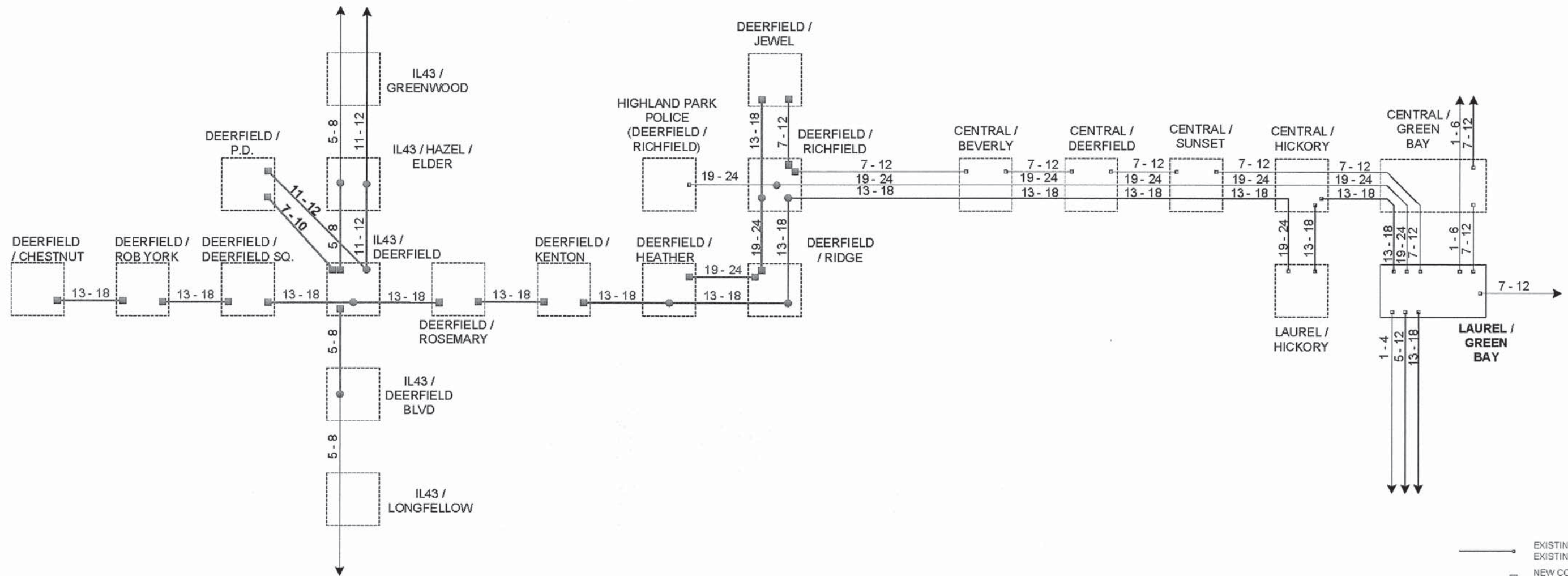
11-00092-00-PV  
 218  
 424



- EXISTING CONNECTOR / EXISTING FIBER
- NEW CONNECTOR / EXISTING FIBER
- EXISTING FUSION SPLICE / EXISTING FIBER
- NEW FUSION SPLICE / EXISTING FIBER
- NEW CONNECTOR / NEW FIBER
- NEW FUSION SPLICE / NEW FIBER

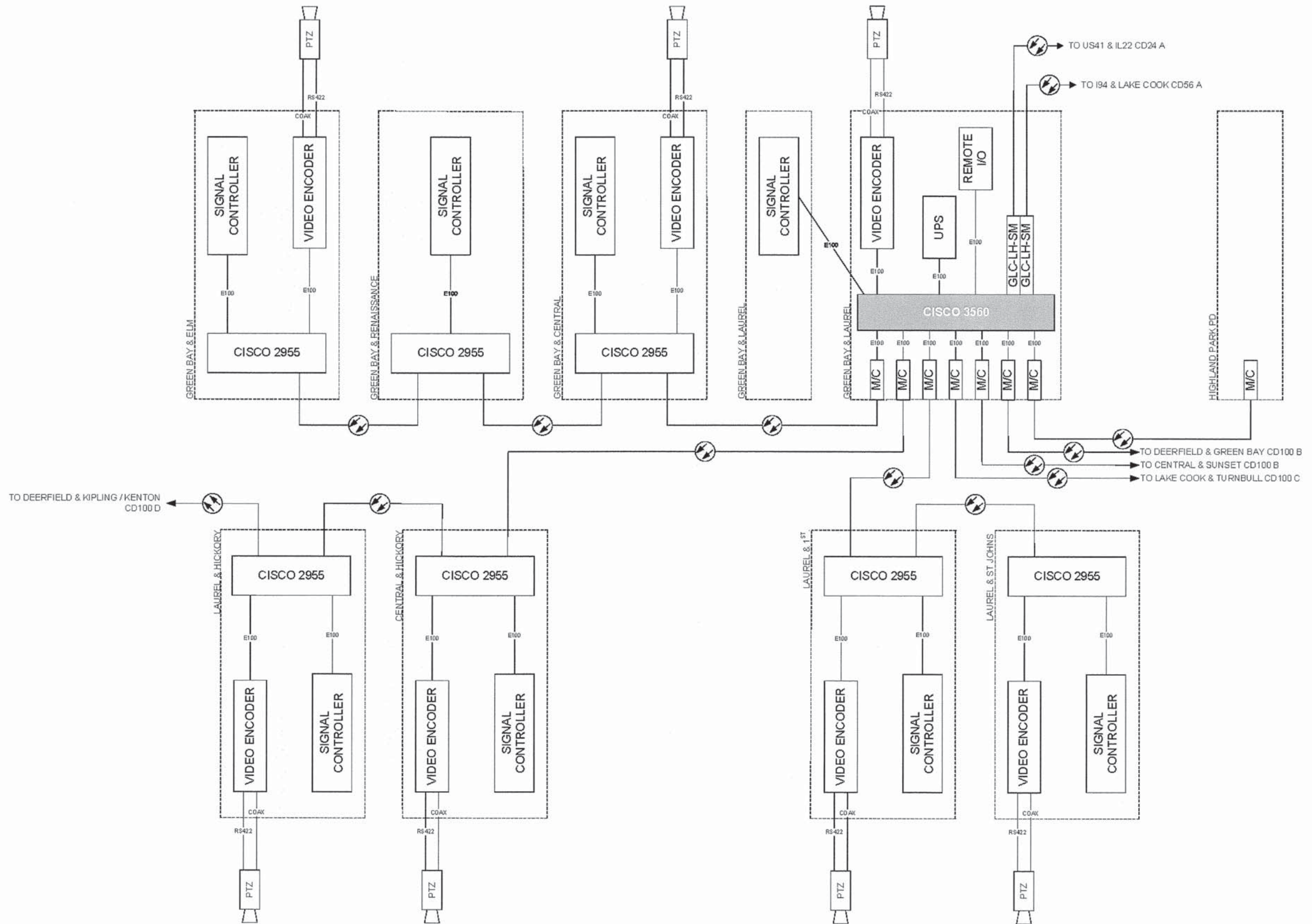
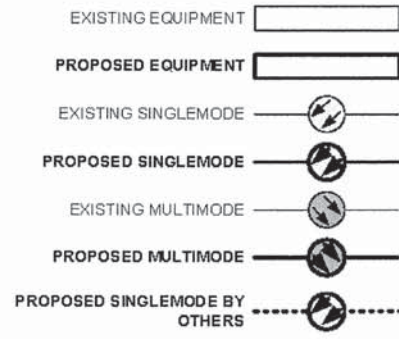
	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	FIBER SPlicing DIAGRAM TEMP DEERFIELD FROM CHESTNUT TO GREEN BAY		ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -		A47		11-00092-00-PV	218	424		
	CHECKED - DG	REVISED -		SCALE N/A						
	DATE 2015/08/18	REVISED -								

contract 63882



- EXISTING CONNECTOR / EXISTING FIBER
- NEW CONNECTOR / EXISTING FIBER
- EXISTING FUSION SPLICE / EXISTING FIBER
- NEW FUSION SPLICE / EXISTING FIBER
- NEW CONNECTOR / NEW FIBER
- NEW FUSION SPLICE / NEW FIBER

	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	FIBER SPlicing DIAGRAM DEERFIELD FROM CHESTNUT TO GREEN BAY		ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -		A47		11-00092-00-PV	219	424		
	CHECKED - DG	REVISED -		SCALE N/A						
	DATE 2015/08/18	REVISED -								



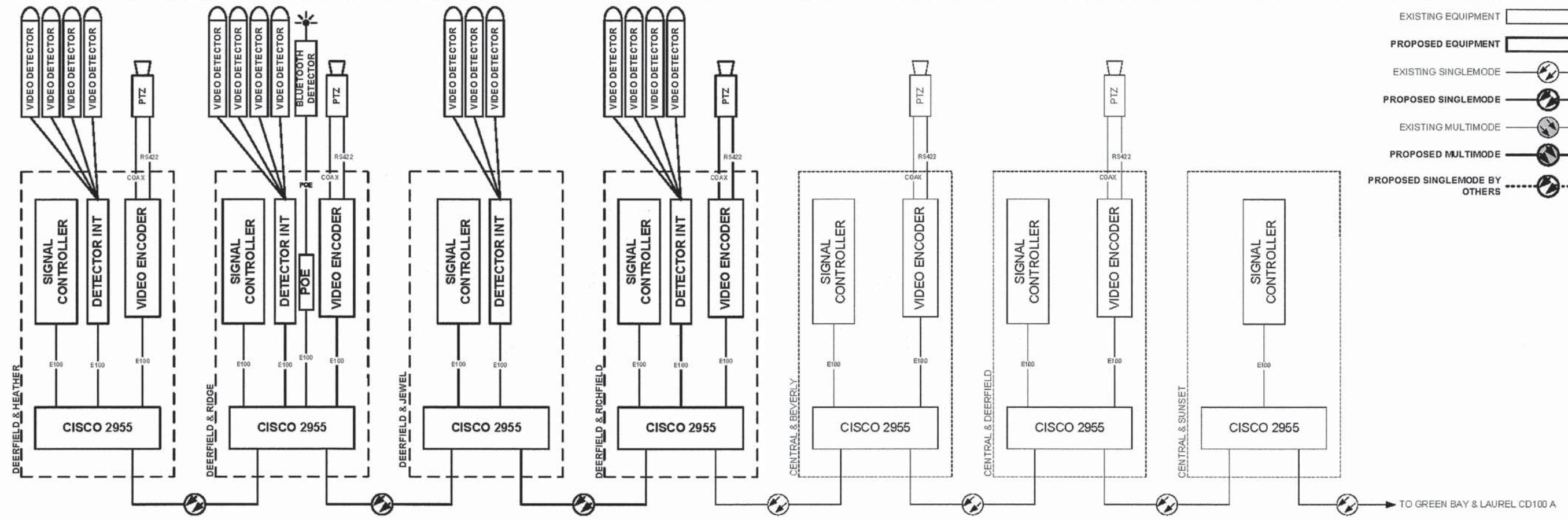
DESIGNED - DG	REVISED -
DRAWN - YM	REVISED -
CHECKED - DG	REVISED -
DATE 2015/08/18	REVISED -

LAKE COUNTY  
DIVISION OF TRANSPORTATION

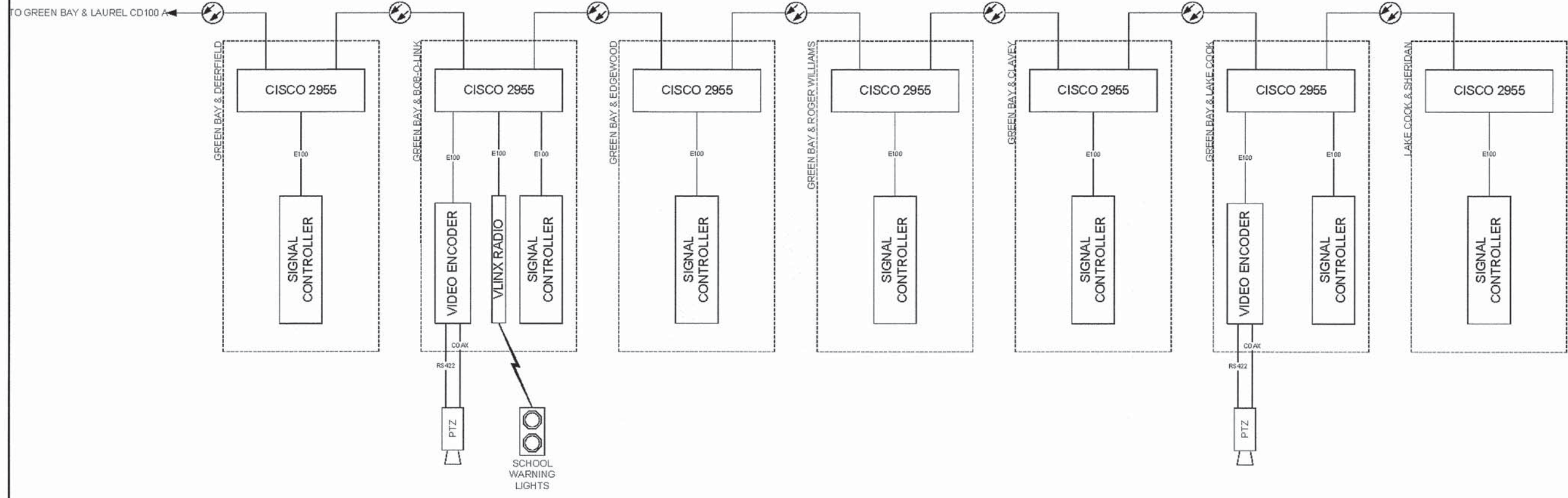
CABINET DETAIL (SHEET 1 OF 3)

SCALE N/A

ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
A47		11-00092-00-PV	220	424

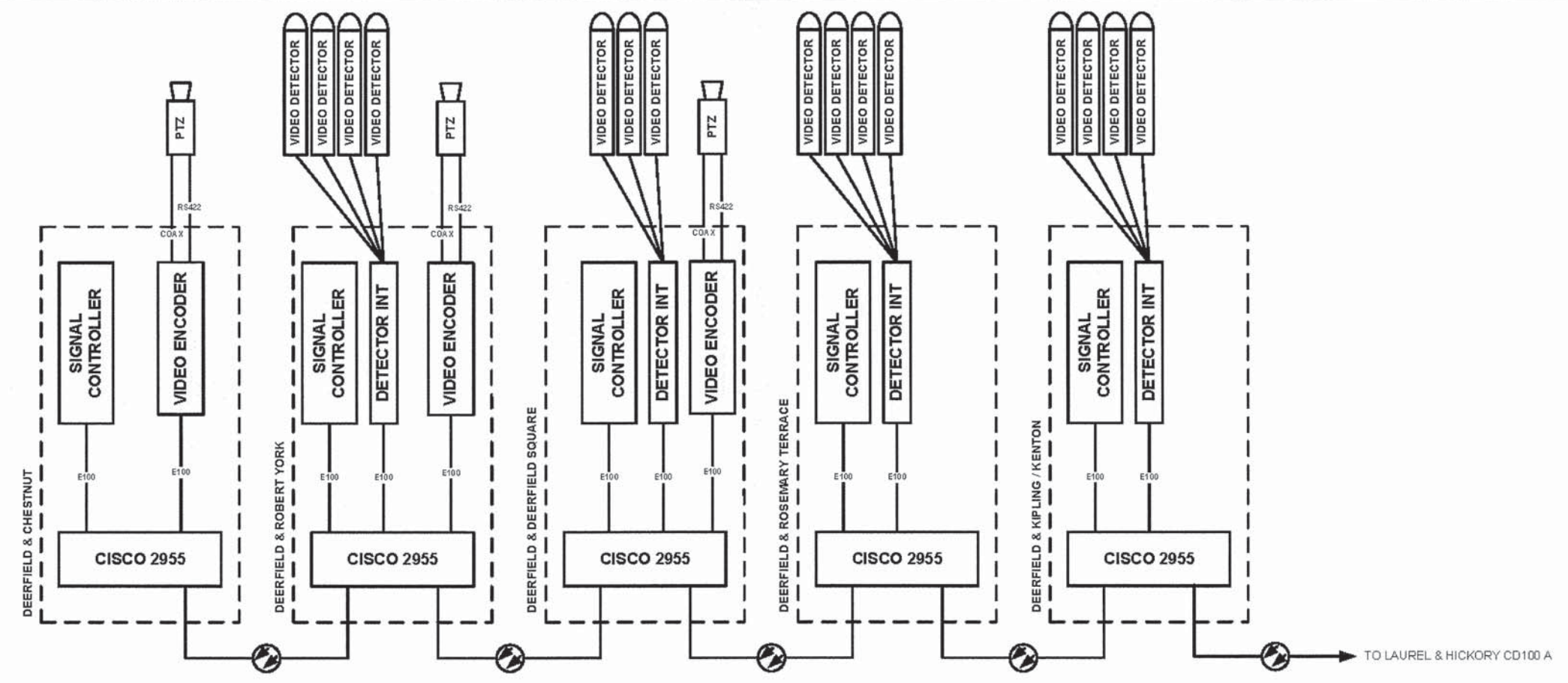
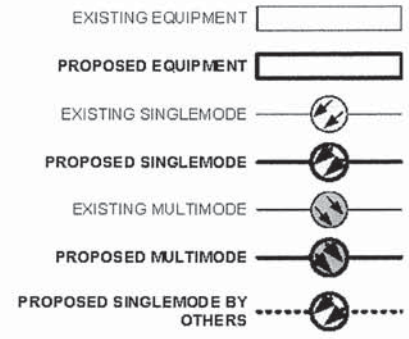


- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT
- EXISTING SINGLEMODE
- PROPOSED SINGLEMODE
- EXISTING MULTIMODE
- PROPOSED MULTIMODE
- PROPOSED SINGLEMODE BY OTHERS



	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	CABINET DETAIL (SHEET 2 OF 3)		ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -				A47		11-00092-00-PV	221	424
	CHECKED - DG	REVISED -								
	DATE 2015/08/18	REVISED -								
						SCALE N/A				

11-00092-00-PV  
 222  
 424

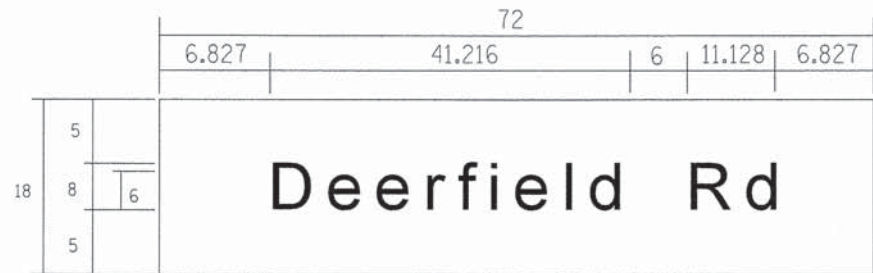


	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	CABINET DETAIL (SHEET 3 OF 3)		ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -				A47		11-00092-00-PV	222	424
	CHECKED - DG	REVISED -		SCALE N/A						
	DATE 2015/08/18	REVISED -								

PLAN	SUBMITTED	DATE
NOTE BOOK NO.	DESIGNED	
	DRAWN	
	CHECKED	
	DATE	

PROFILE	SUBMITTED	DATE
NOTE BOOK NO.	DESIGNED	
	DRAWN	
	CHECKED	
	DATE	

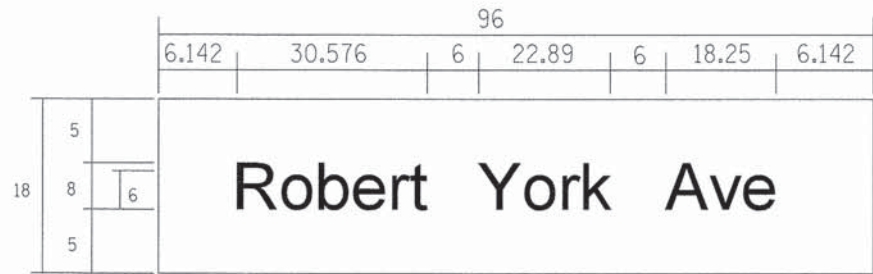
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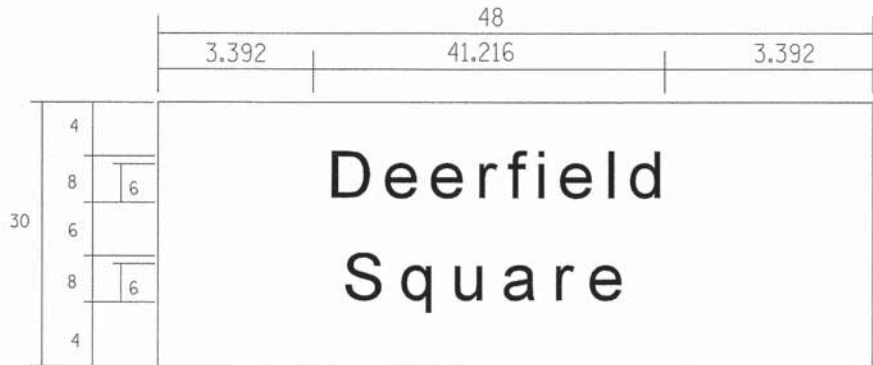
9 SQ. FT. EACH  
12 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D  
 ALL DIMENSIONS SHOWN IN INCHES



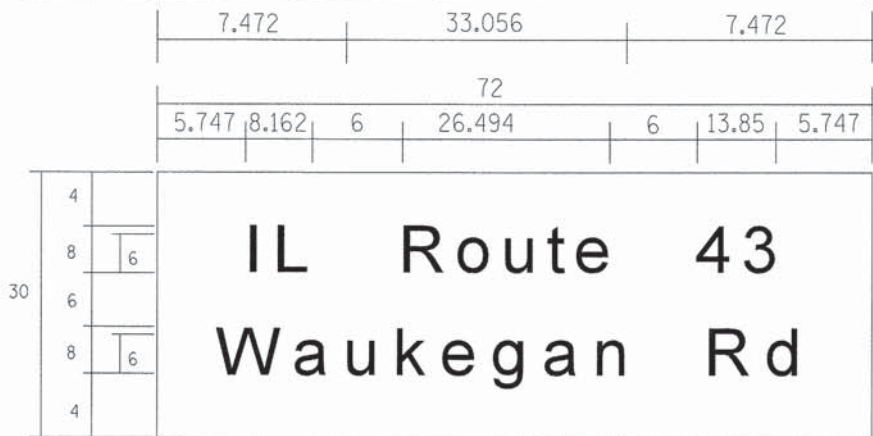
9 SQ. FT. EACH  
3 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 \_\_\_\_\_ DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D  
 ALL DIMENSIONS SHOWN IN INCHES



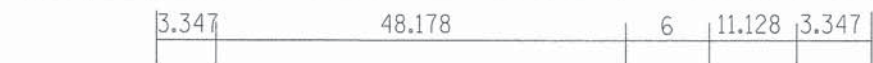
12 SQ. FT. EACH  
2 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D  
 ALL DIMENSIONS SHOWN IN INCHES



10 SQ. FT. EACH  
2 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D  
 ALL DIMENSIONS SHOWN IN INCHES

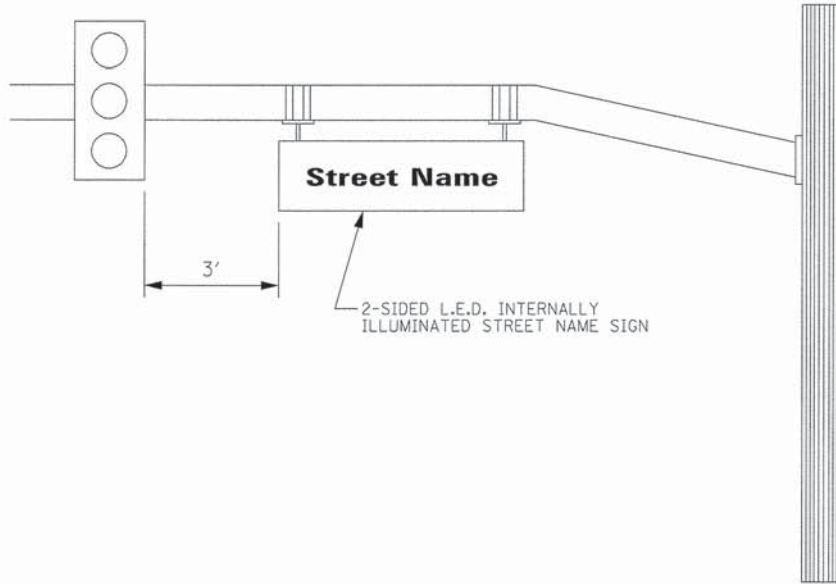


15 SQ. FT. EACH  
2 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D  
 ALL DIMENSIONS SHOWN IN INCHES



ALL DIMENSIONS SHOWN IN INCHES

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS



20'

USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	DRAWN - FPB	REVISED -
PLOT SCALE = 20"	CHECKED - GMZ	REVISED -
PLOT DATE = 9/22/2015	DATE -	REVISED -

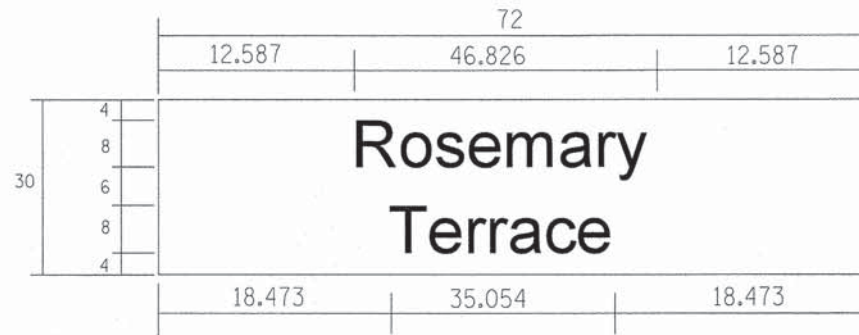
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS  
SHEET 1 of 3

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	223
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				

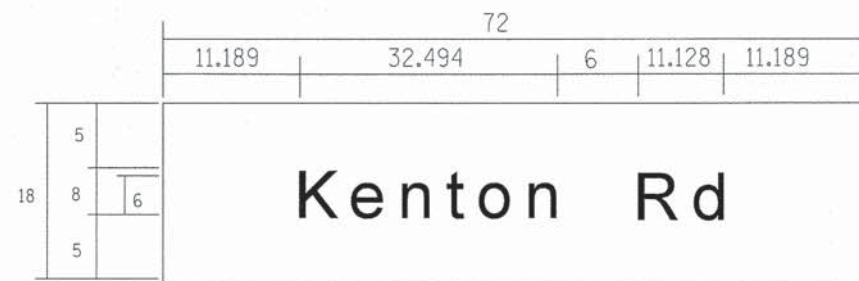
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

PANEL DESIGN TYPE 1



15 SQ. FT. EACH  
2 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D

ALL DIMENSIONS SHOWN IN INCHES



9 SQ. FT. EACH  
1 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D

ALL DIMENSIONS SHOWN IN INCHES



9 SQ. FT. EACH  
1 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D

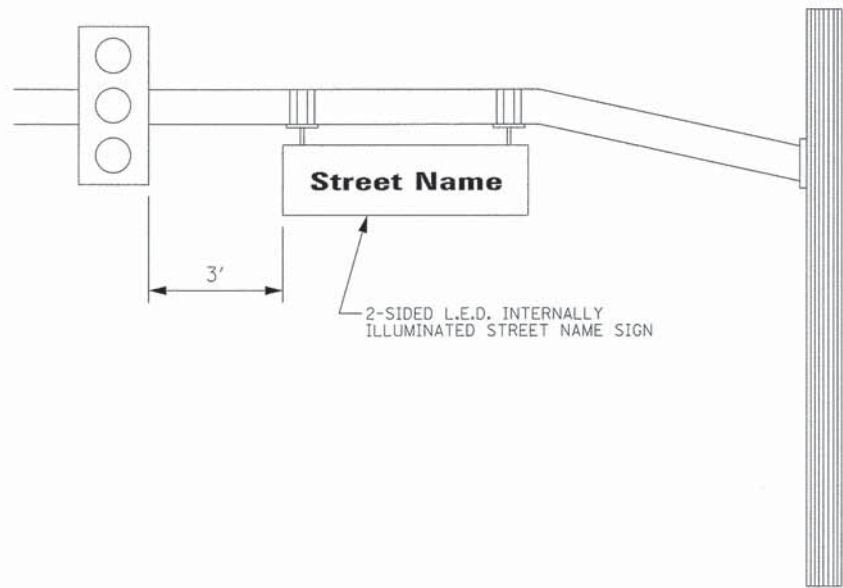
ALL DIMENSIONS SHOWN IN INCHES



9 SQ. FT. EACH  
1 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
 DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D

ALL DIMENSIONS SHOWN IN INCHES

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS



PLAN	DESIGNED	DATE
NO.	PLOTTED	
	ALIGNMENT CHECKED	
	ADD FILE NAME	

PROFILE	DESIGNED	DATE
NO.	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION CHKD	

20'

USER NAME = jstrack	DESIGNED - EAJ	REVISED -
PLDT SCALE = 20'	DRAWN - FPB	REVISED -
PLDT DATE = 8/30/2015	CHECKED - GMZ	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**MAST ARM MOUNTED STREET NAME SIGNS**  
**SHEET 2 OF 3**  
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

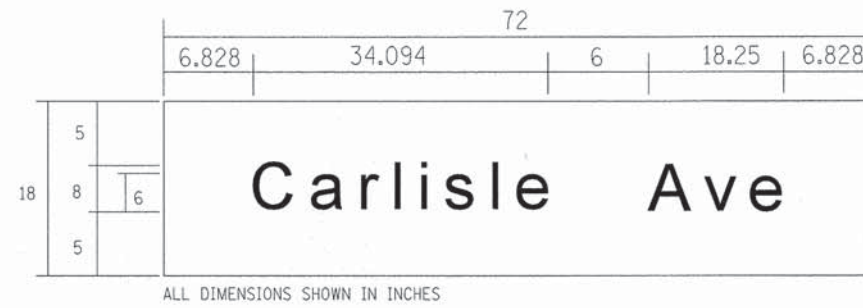
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	224
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				



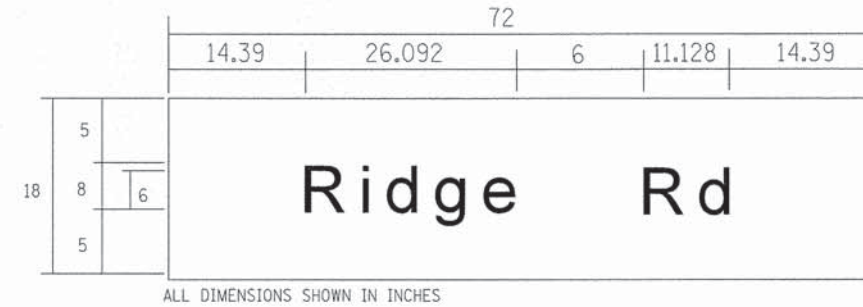
PLAN	DESIGNED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	ADD FILE NAME	

PROFILE	DESIGNED	DATE
NOTE BOOK NO.	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	ADD FILE NAME	

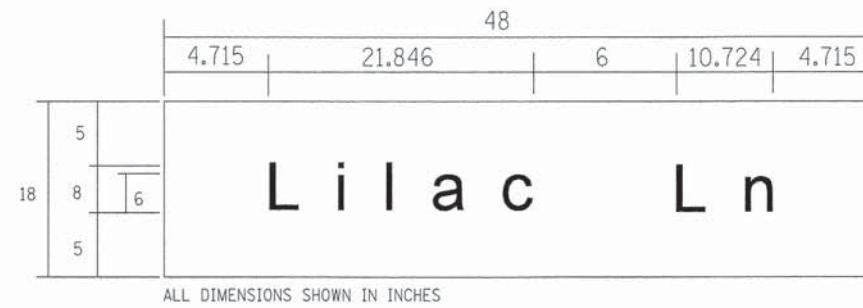
PANEL DESIGN TYPE 1



9 SO. FT. EACH  
1 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
X DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D



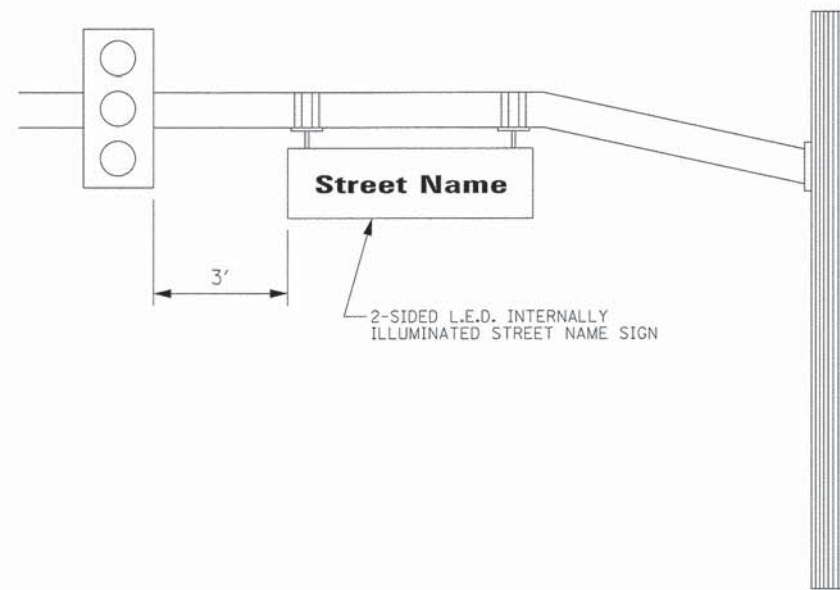
9 SO. FT. EACH  
1 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
X DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D



6 SO. FT. EACH  
1 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
X DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D



9 SO. FT. EACH  
2 REQUIRED  
 \_\_\_\_\_ SINGLE SIDED REQUIRED  
X DOUBLE SIDED REQUIRED  
 DESIGN SERIES 2k Highway Gothic Series D



NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS AVAILABLE ONLY IN 2 FOOT INCREMENTS

20'

USER NAME = jstrick	DESIGNED - EAJ	REVISED -
	DRAWN - FPB	REVISED -
PLOT SCALE = 20'	CHECKED - GMZ	REVISED -
PLOT DATE = 8/30/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS  
SHEET 3 OF 3

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	225
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

# 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			
UNINTERRUPTABLE 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							
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CT			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CNC			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S		S			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I		IP			
SIGNAL POST				REMOVE ITEM	R						
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL						
GUY WIRE				ABANDON ITEM	A						
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION							
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE							
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE							
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD							
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE							
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							
PERFORMED 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											

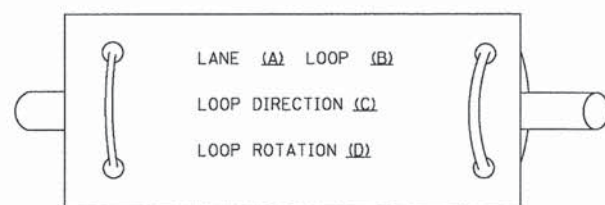
## RAILROAD SYMBOLS

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

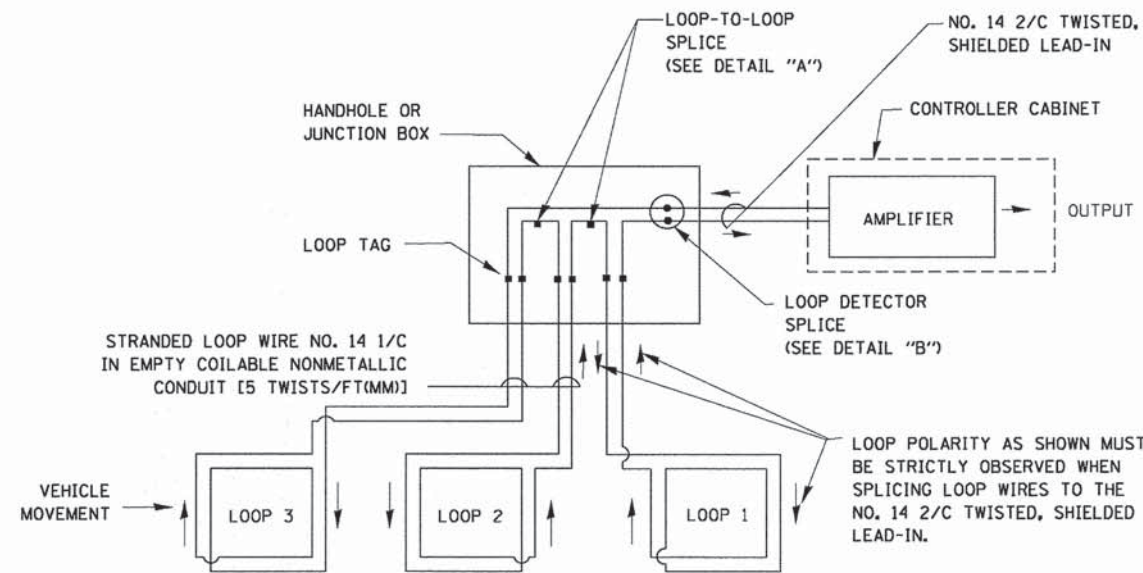
**LOOP DETECTOR NOTES**

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 DIVESHOLES 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**

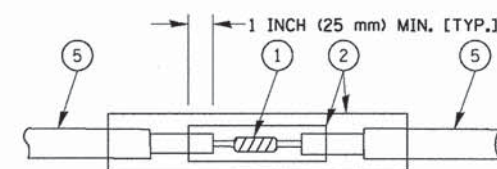


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

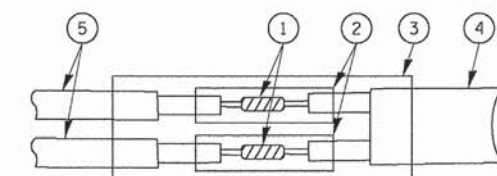


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

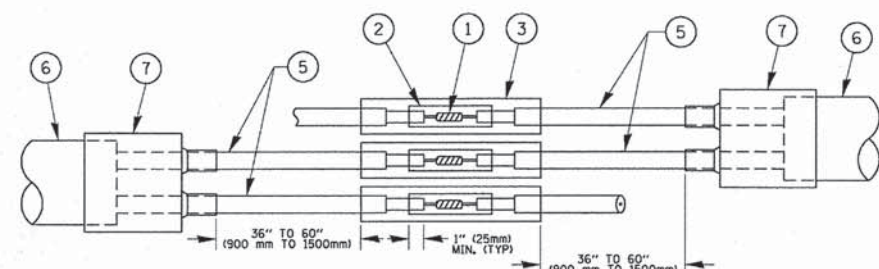


DETAIL "A"  
LOOP-TO-LOOP SPLICE

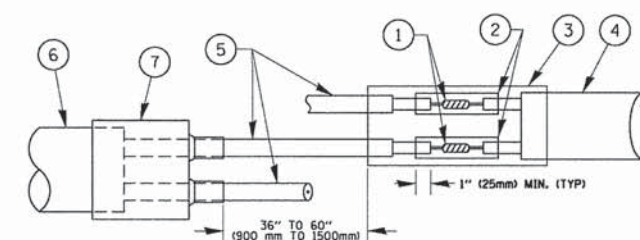


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

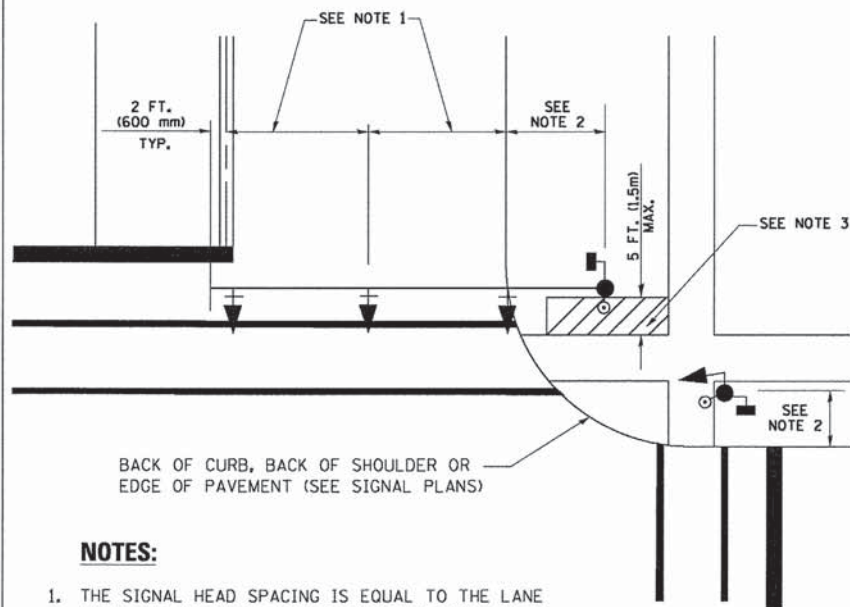
**PRE-FORMED LOOP**

**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 PRE-FORMED 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	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02\pw\work\p\dot\Footemj\08106315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	1257	11-00092-00-PV	LAKE	424	227
		CHECKED - DAD	REVISED -						<b>TS-05</b>			CONTRACT NO. 63882	
		DATE - 10-28-09	REVISED -						FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

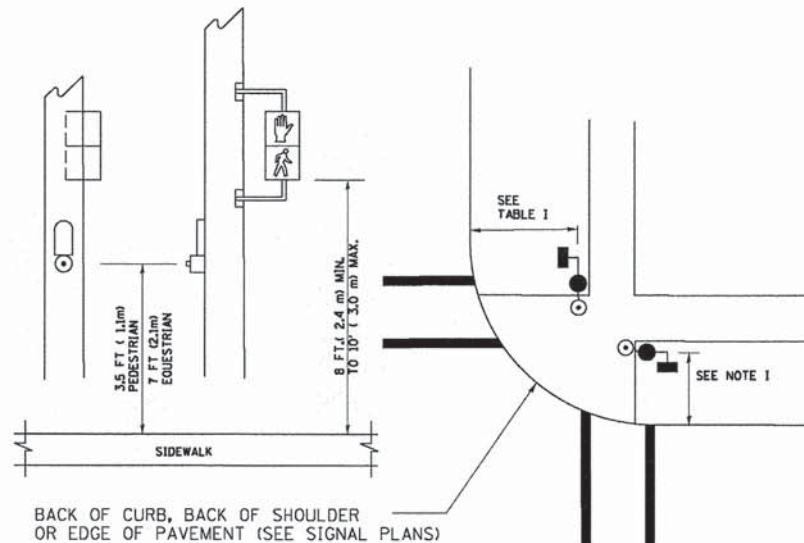
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**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."

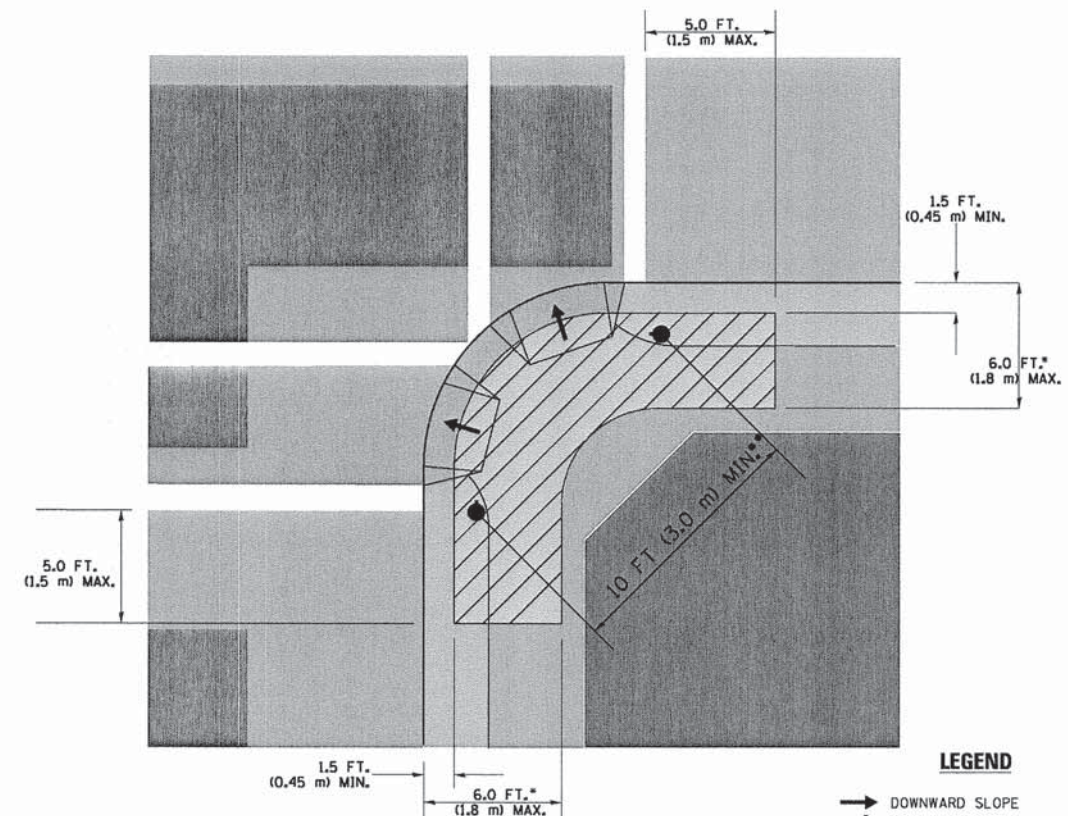
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**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**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- 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:**

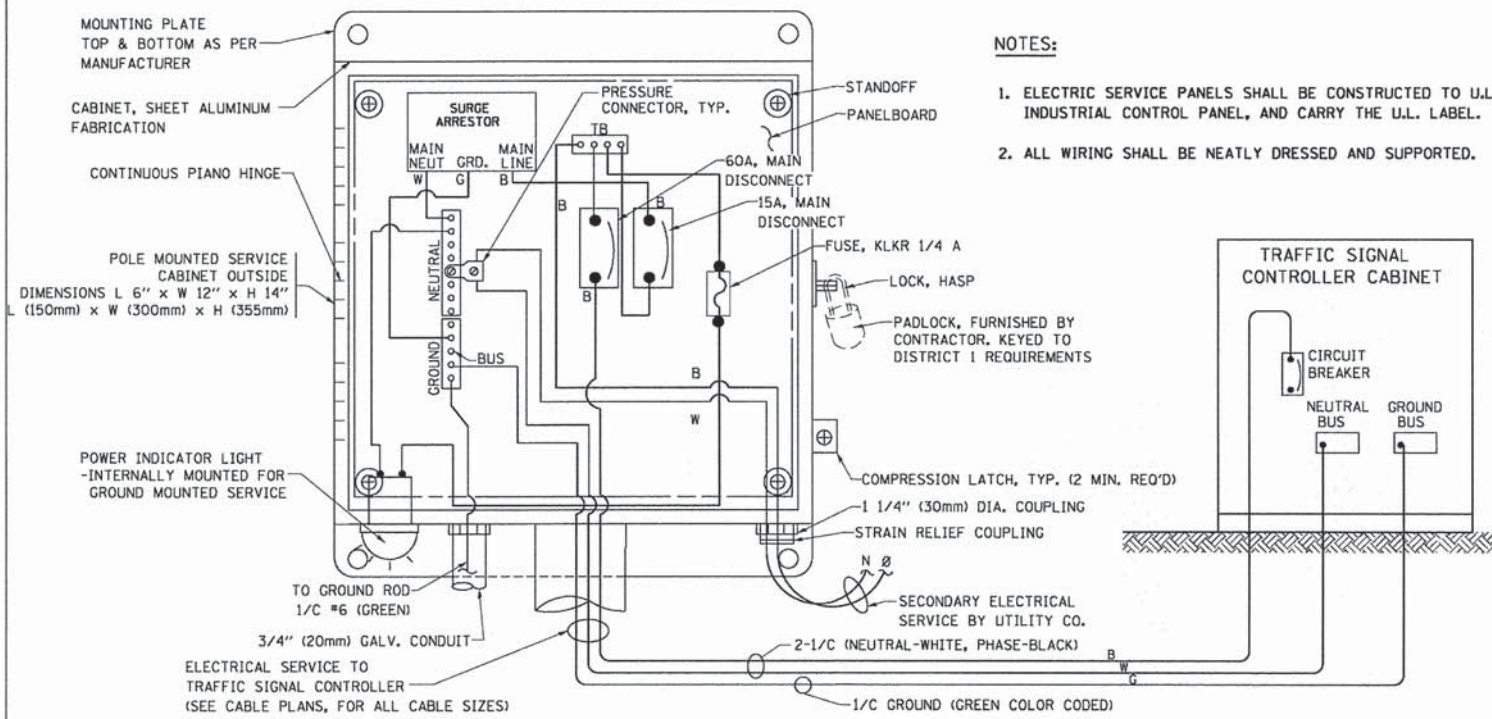
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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**

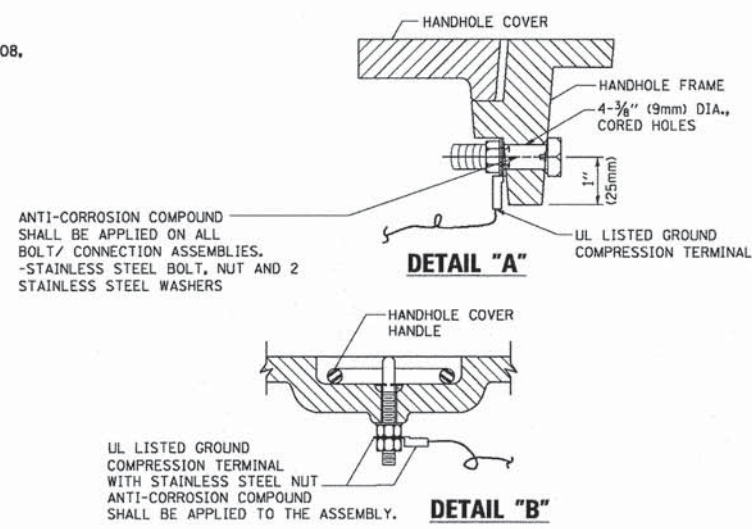
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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 AFFECT 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.

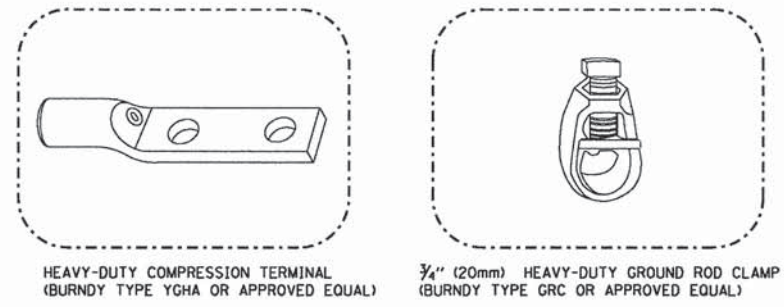
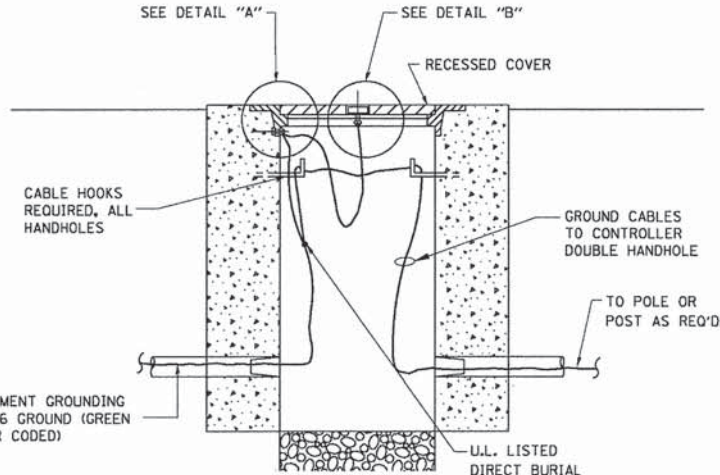


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

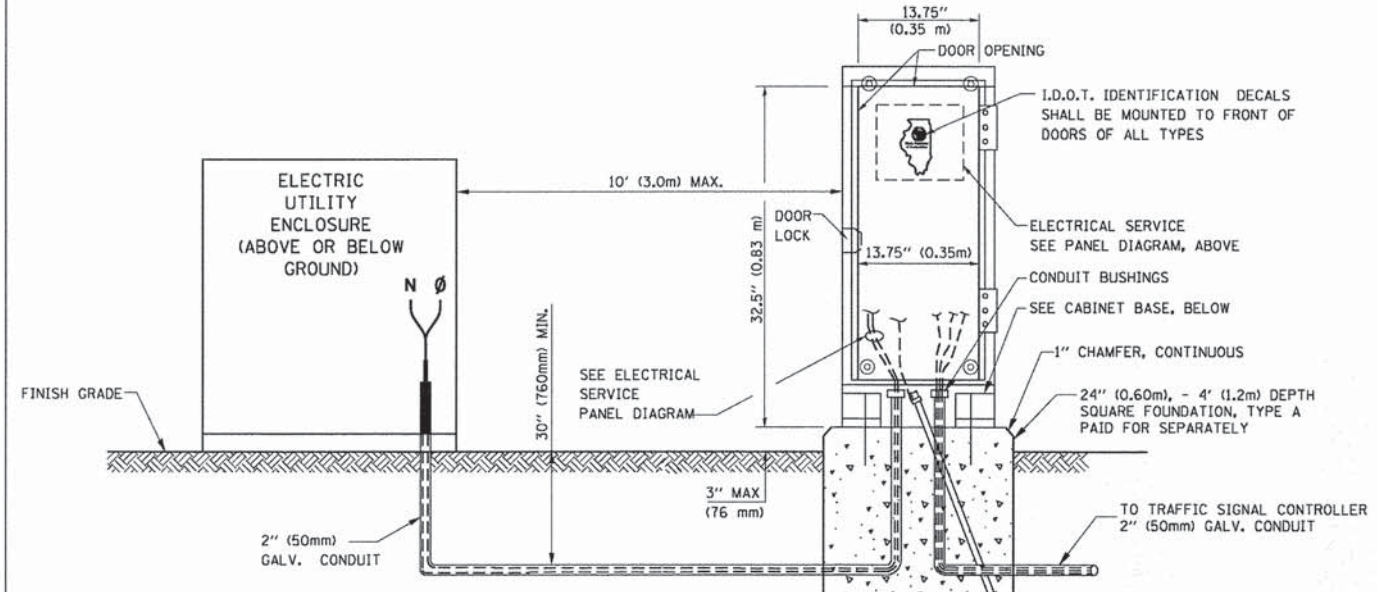


**NOTES:**  
**GROUNDING SYSTEM**

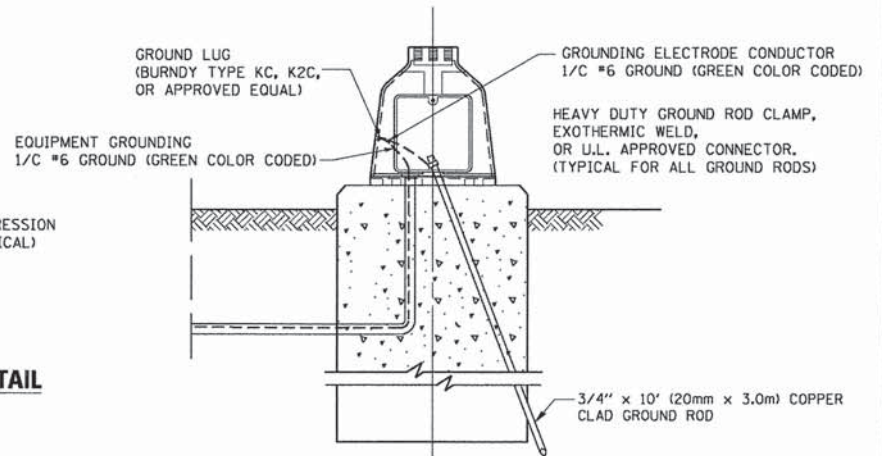
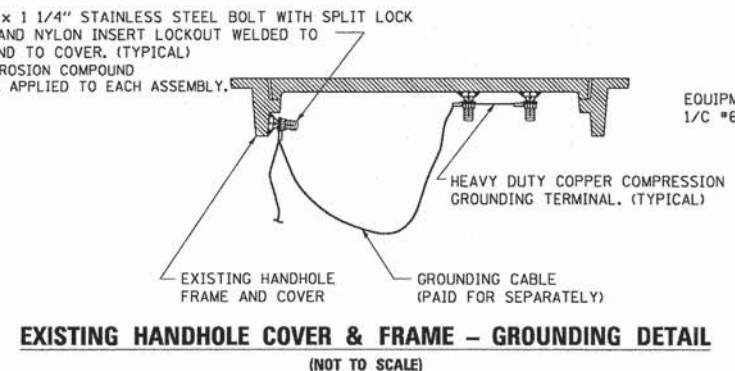
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



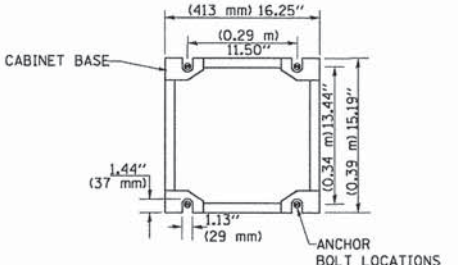
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME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



**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)



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



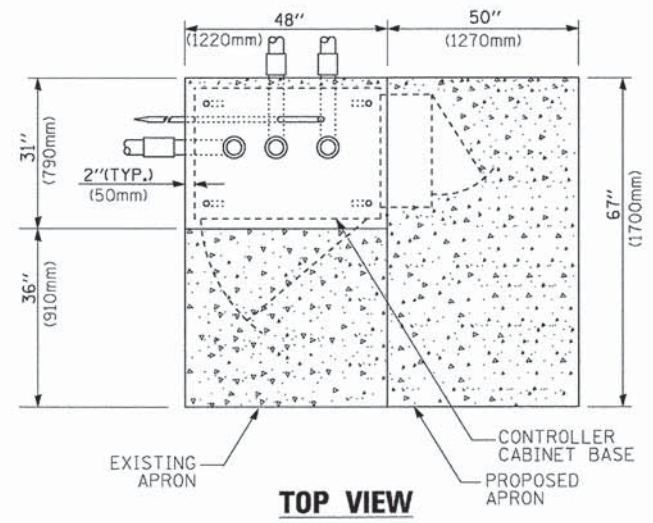
**CABINET - BASE BOLT PATTERN**  
 (NOT TO SCALE)

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es:\pw\work\p\dot\footemj\00108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

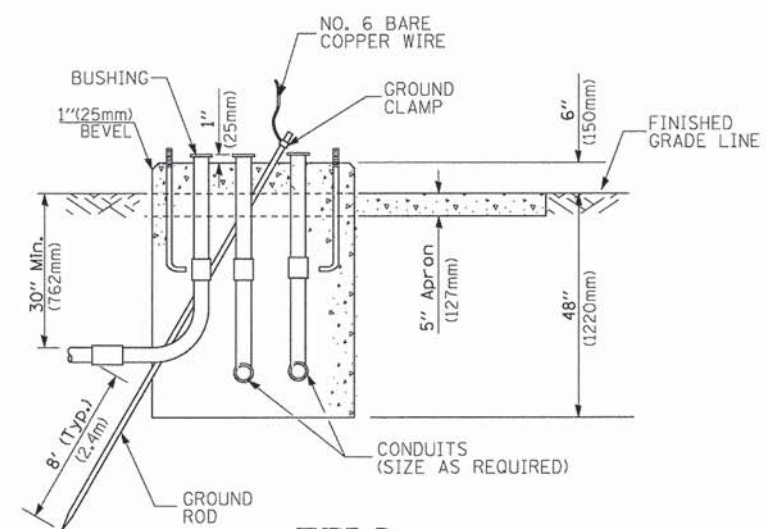
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

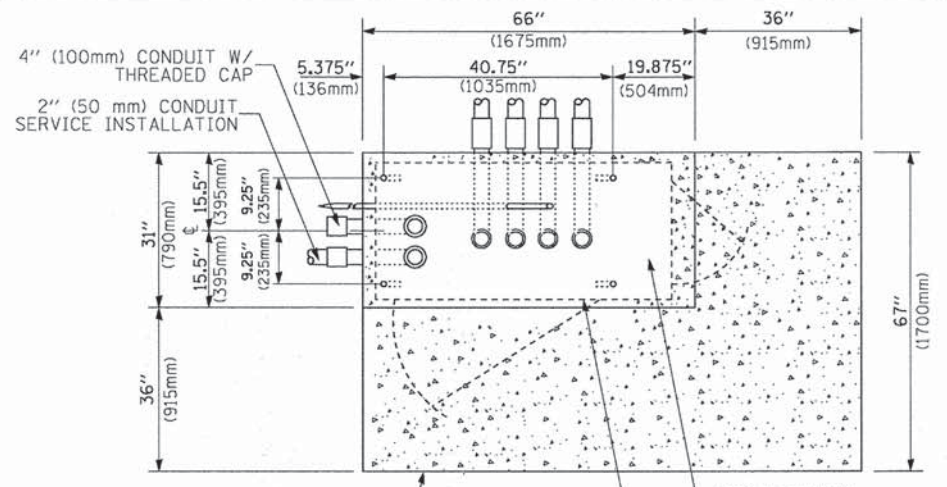
F.A.L. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 229
<b>TS-05</b>		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TOP VIEW**

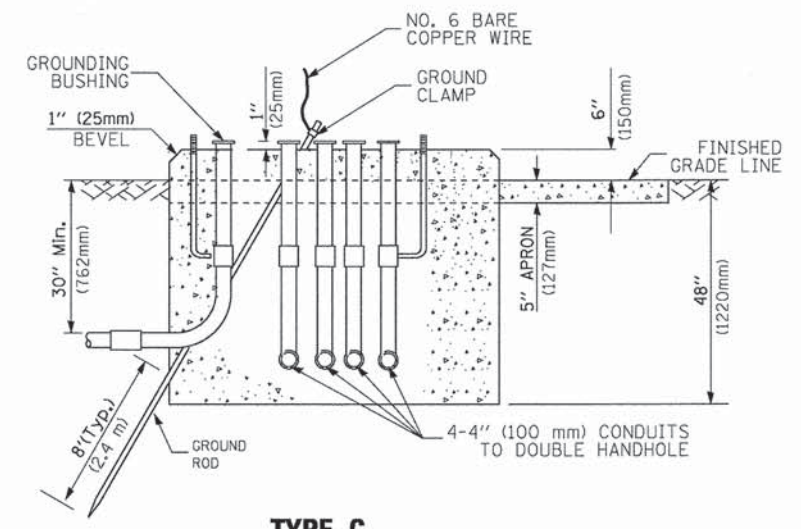


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

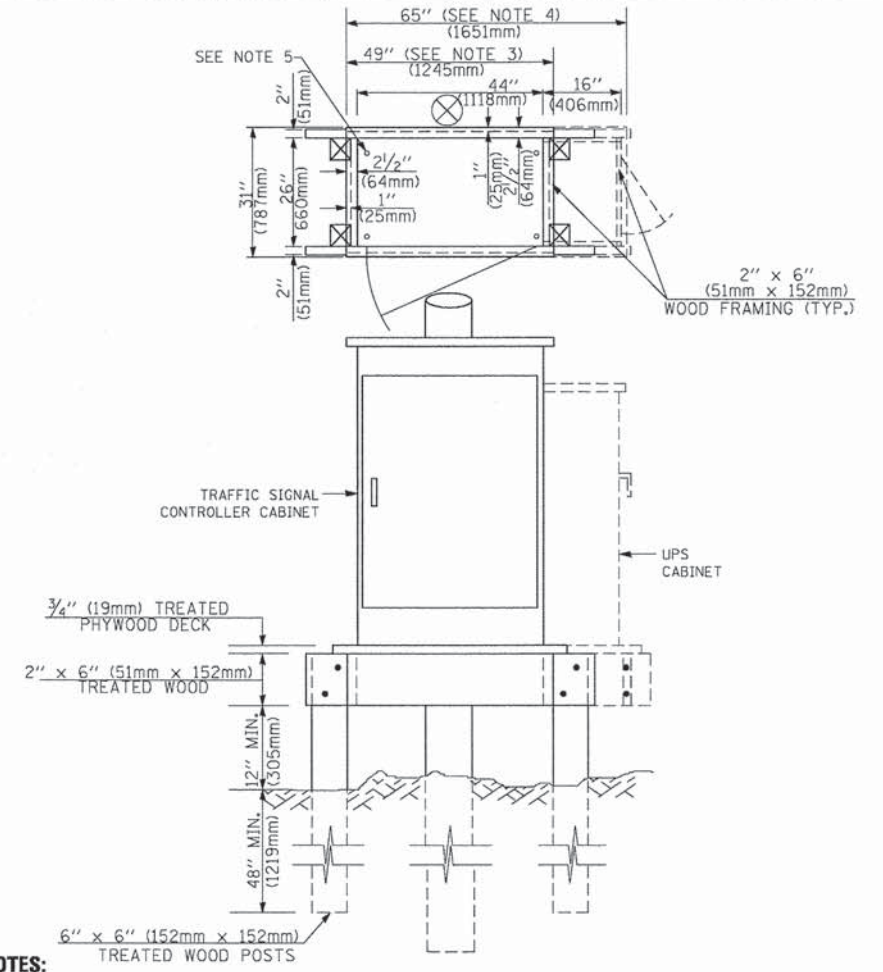


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**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)

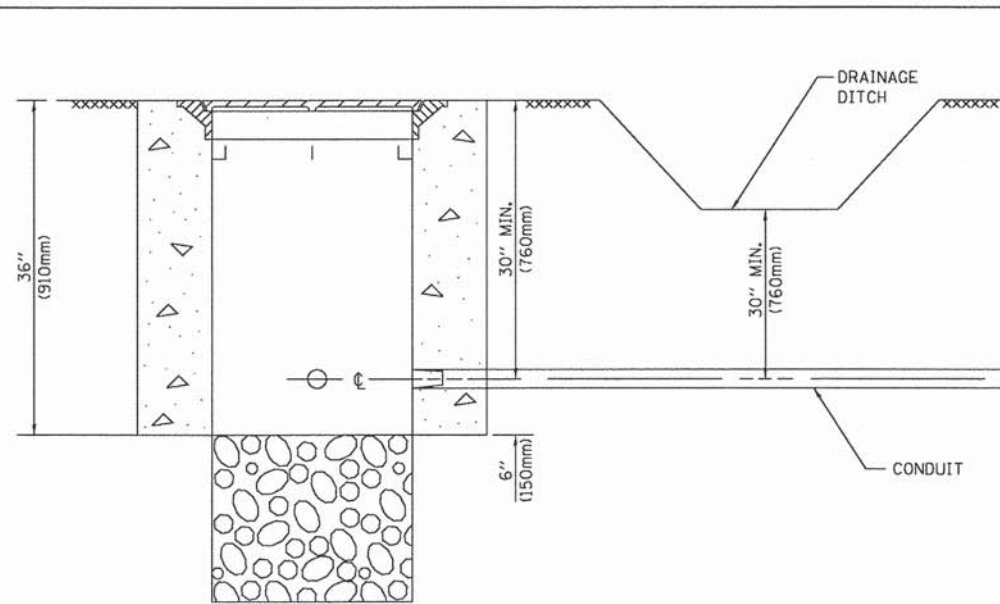
**DEPTH OF FOUNDATION**

Mast Arm Length	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)
	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	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..

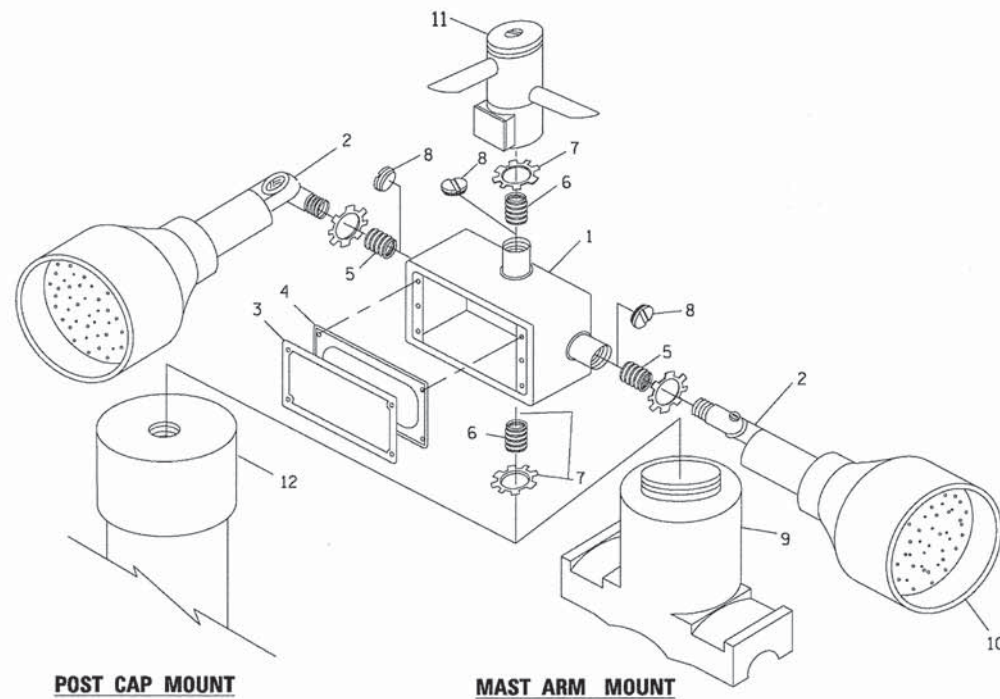
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



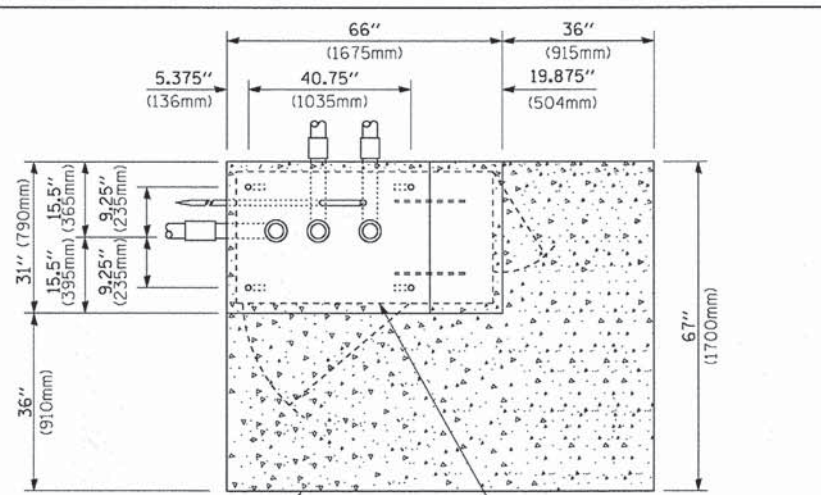
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

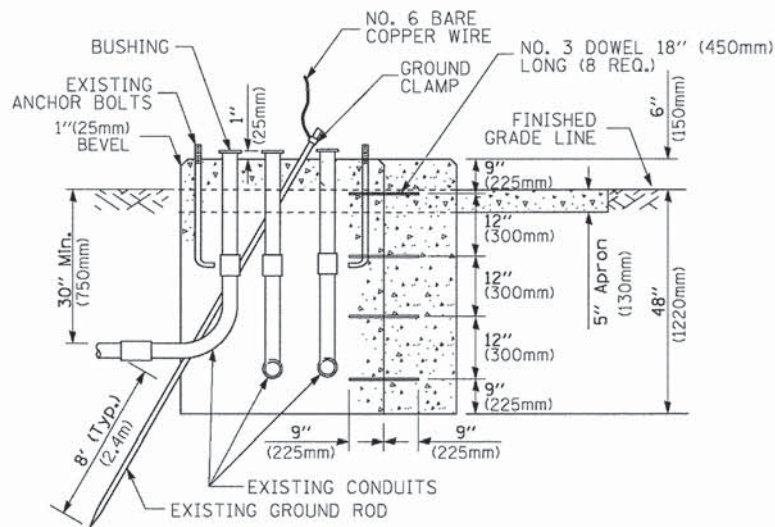
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

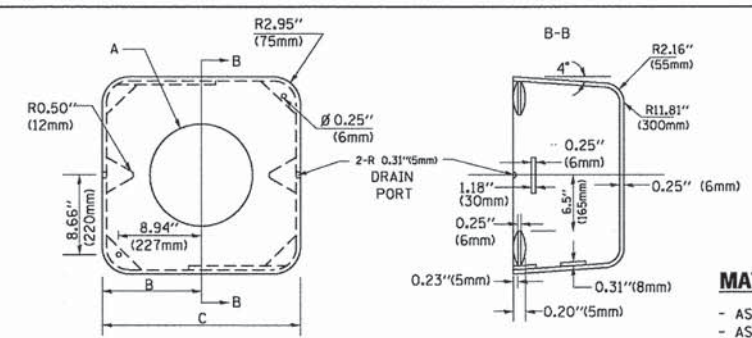


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

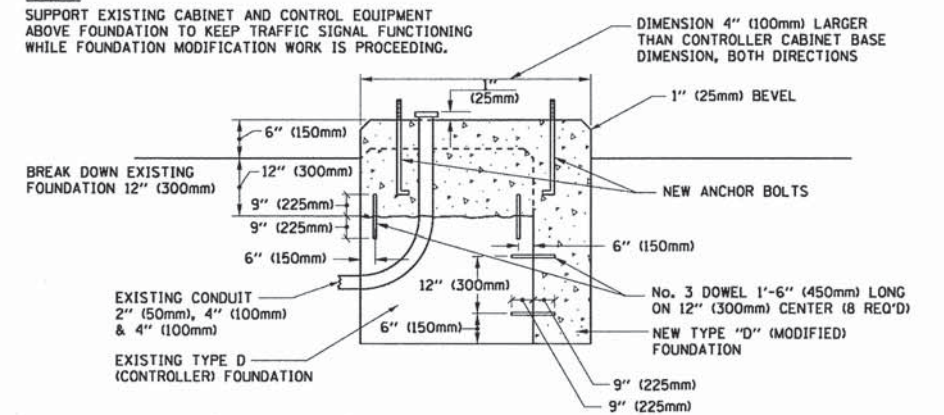
**SHROUD**

**NOTES:**

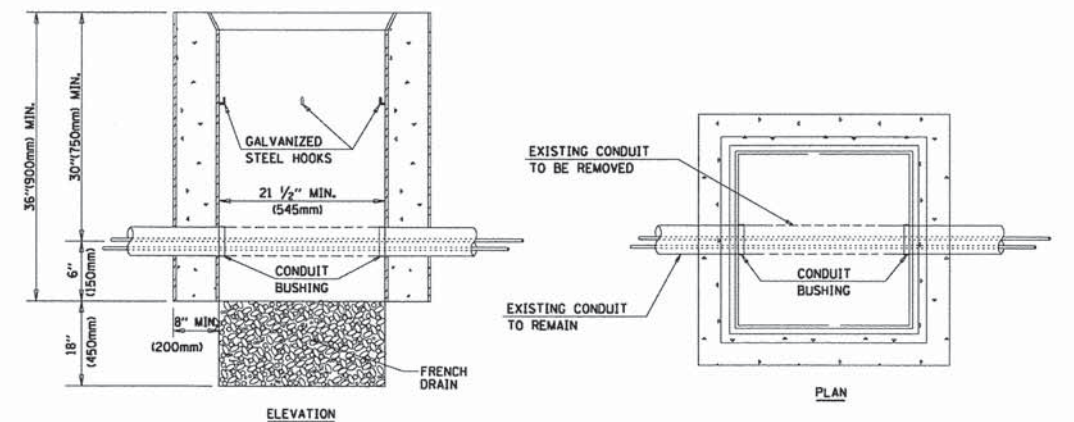
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

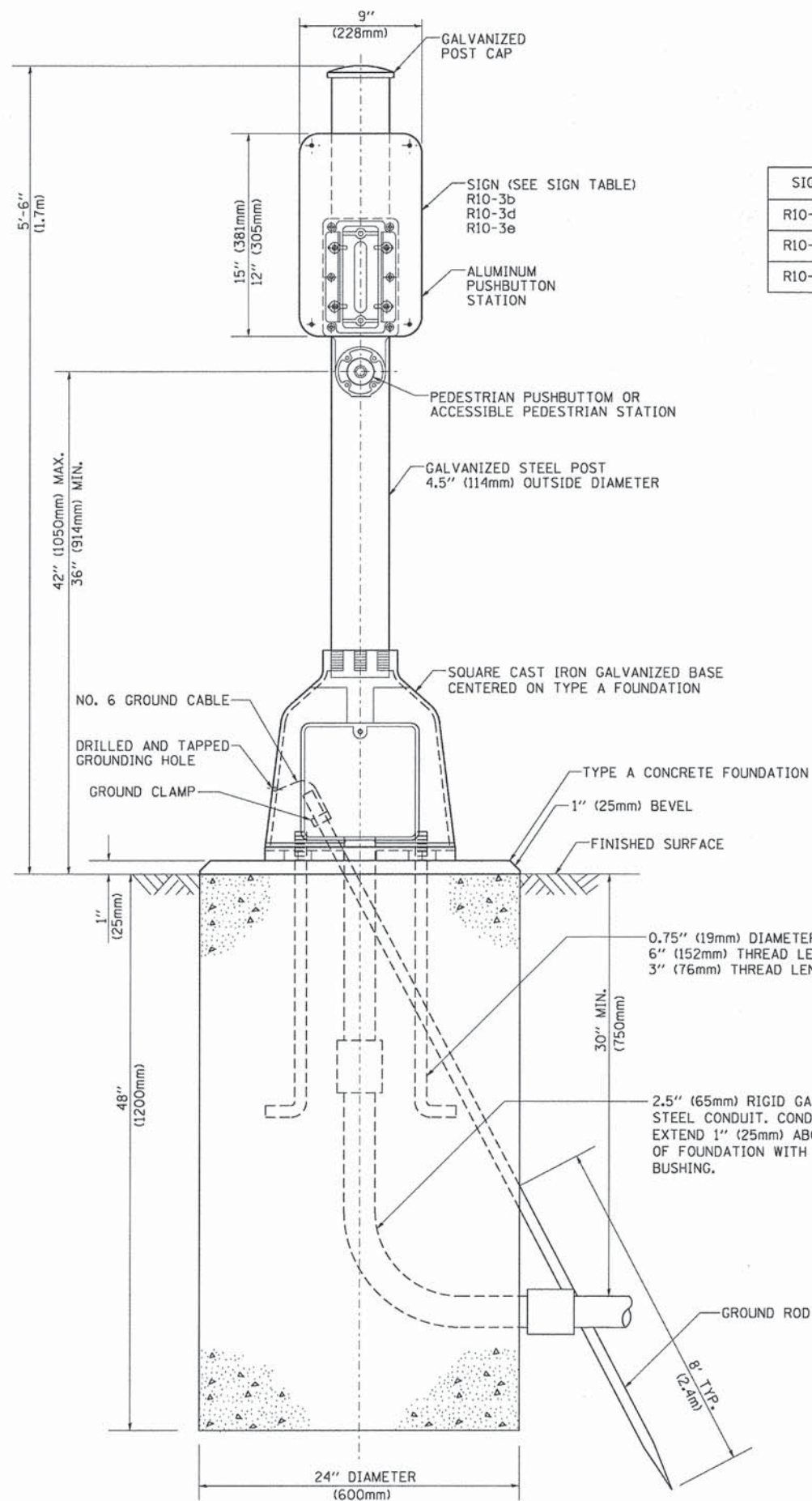
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

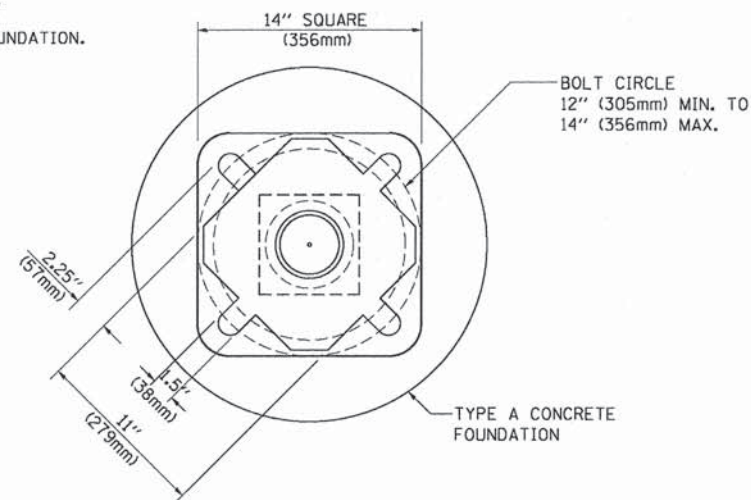
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	231
	TS-05	CONTRACT NO.	63882	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**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**

FILE NAME =	USER NAME = f00tenj	DESIGNED - DAG	REVISED - DAG 1-1-14
cs:\pwork\pwork\dot\Footen\102108315\ts05.dgn		DRAWN - GND	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

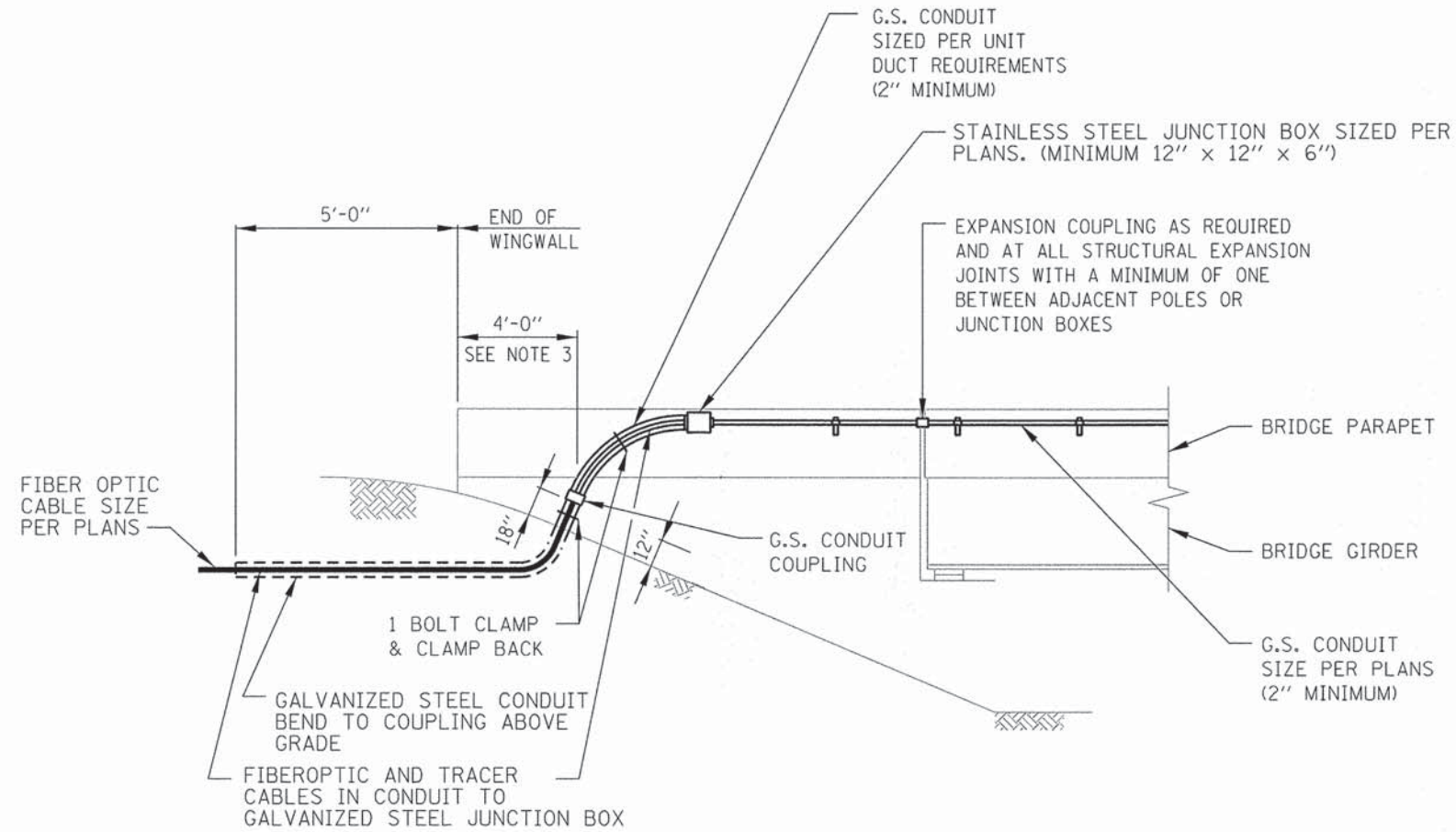
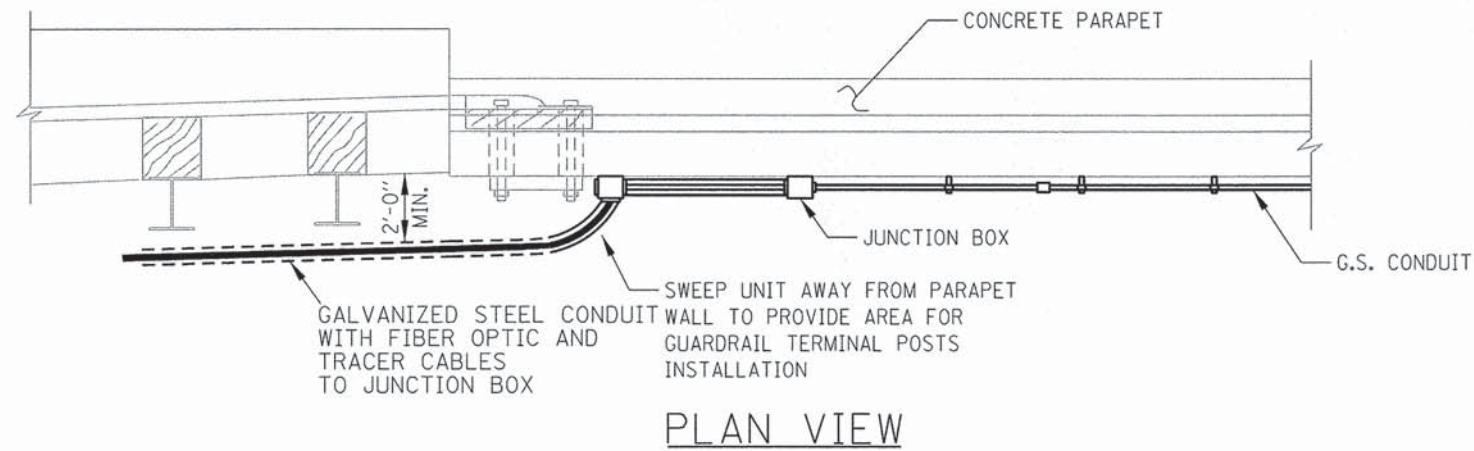
<b>DISTRICT ONE</b>	
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS STA. TO STA.

FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	232
<b>TS-05</b>			CONTRACT NO. 63882	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	DATE		
	FILE NAME		
	NO.		

PROFILE	REVISIONS	BY	DATE
	ADDED		
	GRADES CHECKED		
	STRUCTURE NOTATION		
	NO.		



ELEVATION OF TYPICAL CONDUIT ATTACHED TO STRUCTURE TRANSITION

**NOTES:**

1. PIPE SUPPORT (HOT DIPPED GALVANIZED AFTER FABRICATION), MINIMUM SIZE EQUAL TO PIPE DIAMETER. MOUNT TO CHANNEL WITH TWO  $\frac{3}{8}$ " STAINLESS STEEL CLAMPING NUTS, HEX HEAD CAP SCREW & LOCK WASHER, MOUNTED ON 5 FOOT CENTERS.
2. UNISTRUT P2000 STEEL CHANNEL (HOT DIPPED GALVANIZED AFTER FABRICATION), 10" LONG MOUNTED EXTERNALLY ON BRIDGE PARAPET. INSTALL ON 5'-0" CENTERS. ATTACH TO BRIDGE PARAPET WITH  $\frac{1}{2}$ " DIA. EXPANSION ANCHORS, MIN. 2" LONG. EXPANSION ANCHOR SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND SHALL BE MADE BY PARABOLT, KWICK-BOLT OR WEJ-IT.
3. THE END 4'-0" SECTION OF WINGWALL/PARAPET SHALL BE KEPT FREE FROM ANY ATTACHMENTS TO AVOID CONFLICT FROM TRAFFIC BARRIER TERMINAL TYPE T6 ANCHORAGE ASSEMBLY.

20'

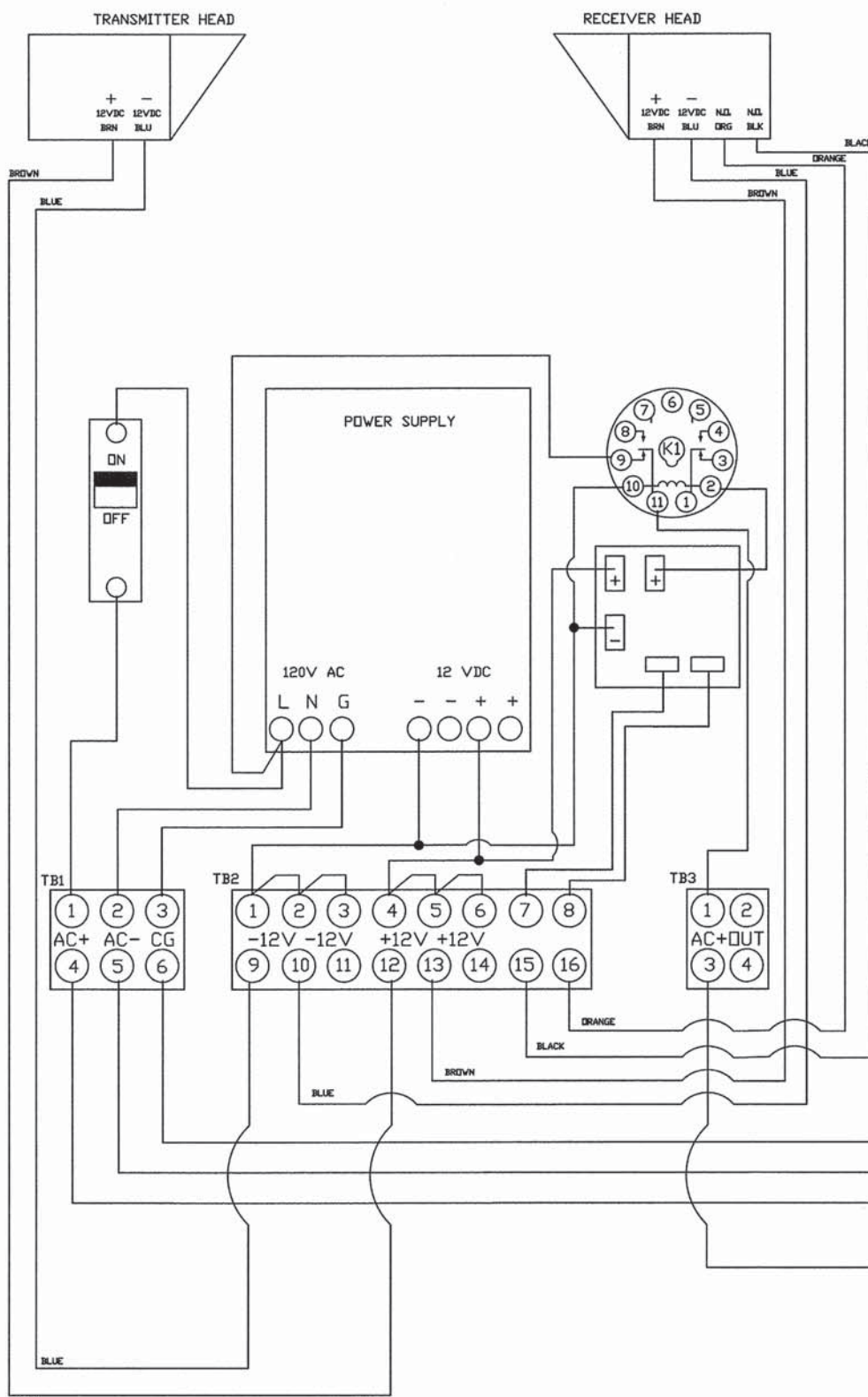
USER NAME	# jstrick	DESIGNED	- EAJ	REVISED	-
		DRAWN	- FPB	REVISED	-
		CHECKED	- GMZ	REVISED	-
		DATE	-	REVISED	-
PLOT SCALE	= 20'				
PLOT DATE	= 6/30/2015				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONDUIT ATTACHED TO STRUCTURE DETAIL

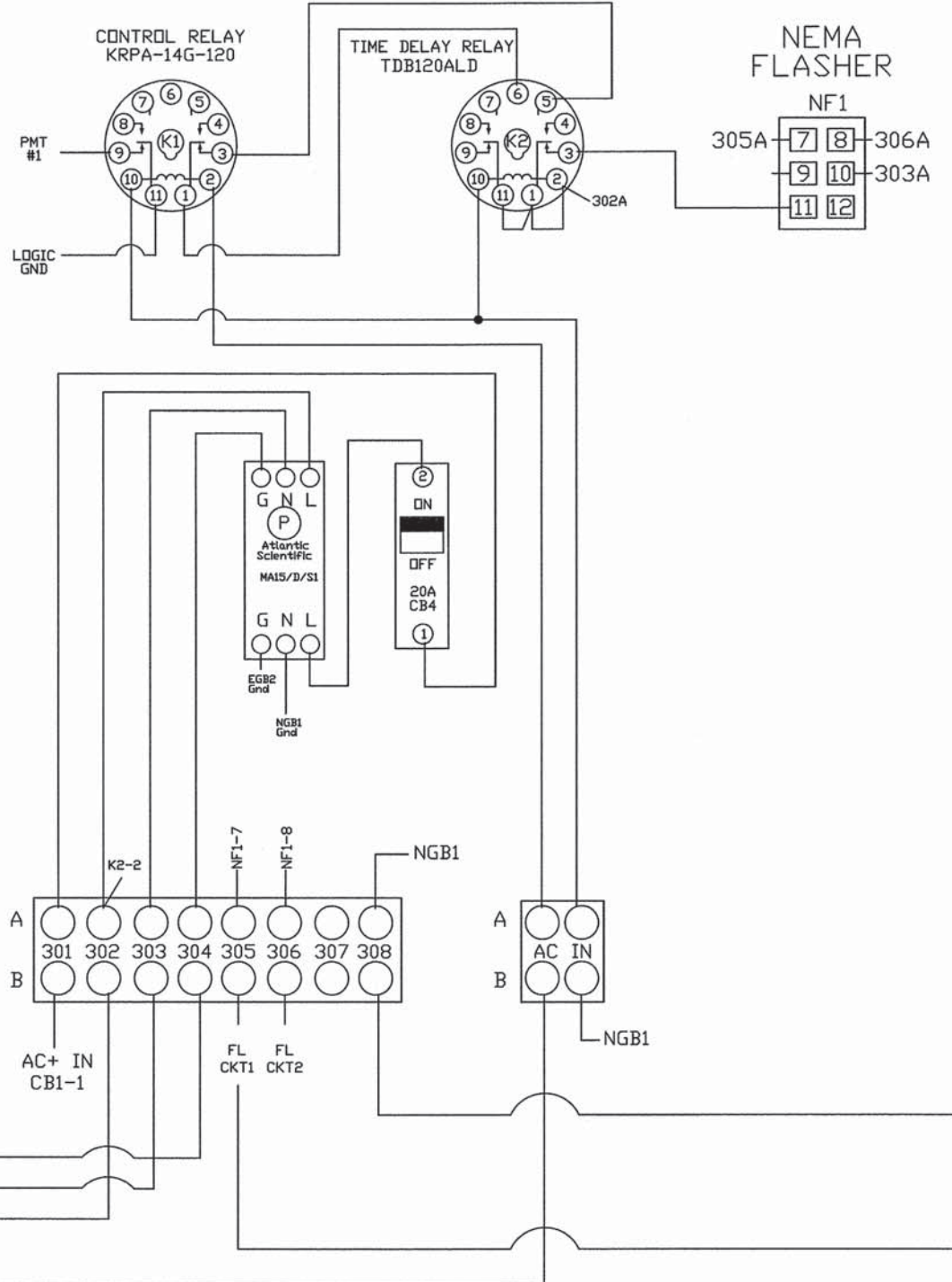
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	233
			CONTRACT NO. 63882	
ILLINOIS FED. AID PROJECT				

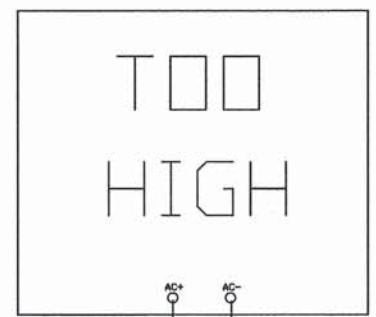


ASTI TRANSPORTATION  
OVERHEIGHT VEHICLE SYSTEM

OVERHEIGHT VEHICLE ENCLOSURE



LED CASE SIGN 24"X24"



NOTE:  
UPON ACTIVATION, TIMER RELAY (TDB120ALD) WILL START TIMING AND SIGN WILL FLASH, (SETTABLE FROM 1 TO 1,023 SECONDS). WHEN TIMER RELAY HAS COMPLETED TIMING, TIMER WILL GO OFF AND SIGN WILL GO DARK.

EXISTING TRAFFIC SIGNAL CABINET



OVERHEIGHT VEHICLE WARNING SYSTEM			
PAGE	SIZE	7/21/2015	REV.
234	B	DEERFILED, IL	A

## LIGHTING NOTES

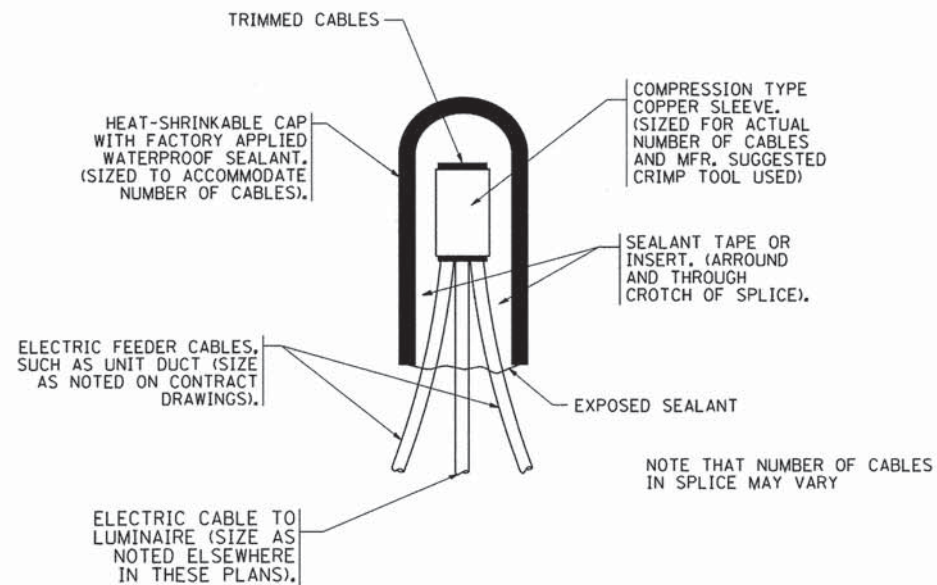
1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT.
  - B. "THE NATIONAL ELECTRICAL CODE".
  - C. MUNICIPAL CODES & STANDARDS.
3. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED.
4. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
5. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLTION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.

## LIGHTING BILL OF MATERIALS

CODE NO.	DESCRIPTION	UNIT	QUANTITY
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 10	FOOT	2150
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
X8410102	TEMPORARY LIGHTING SYSTEM	LSUM	1
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
Z0033028	MAINTENANCE OF EXISTING LIGHTING SYSTEM	CAL MO	12

PLAN	NO.	BY	DATE
NOTE BOOK			
NO.			

PROFILE	NO.	BY	DATE
NOTE BOOK			
NO.			



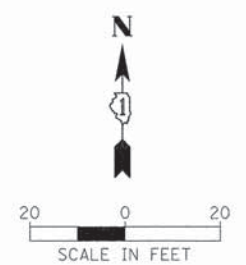
**TYPICAL SPLICE DETAIL**

N.T.S.



9-29, 2015  
*Anthony J. Dericco*  
**ANTHONY J. DERICCO**  
 ILLINOIS REGISTRATION No. 062-057484  
 EXPIRATION DATE: 11/30/15

USER NAME = jstrick	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERSECTION LIGHTING GENERAL NOTES &amp; BILL OF MATERIALS DEERFIELD ROAD &amp; IL ROUTE 43 (WAUKEGAN ROAD)</b>		F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 235
PLOT SCALE = 1"	DRAWN - LRR	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 63882	
PLOT DATE = 10/1/2015	CHECKED - AJD	REVISED -								
	DATE -	REVISED -								

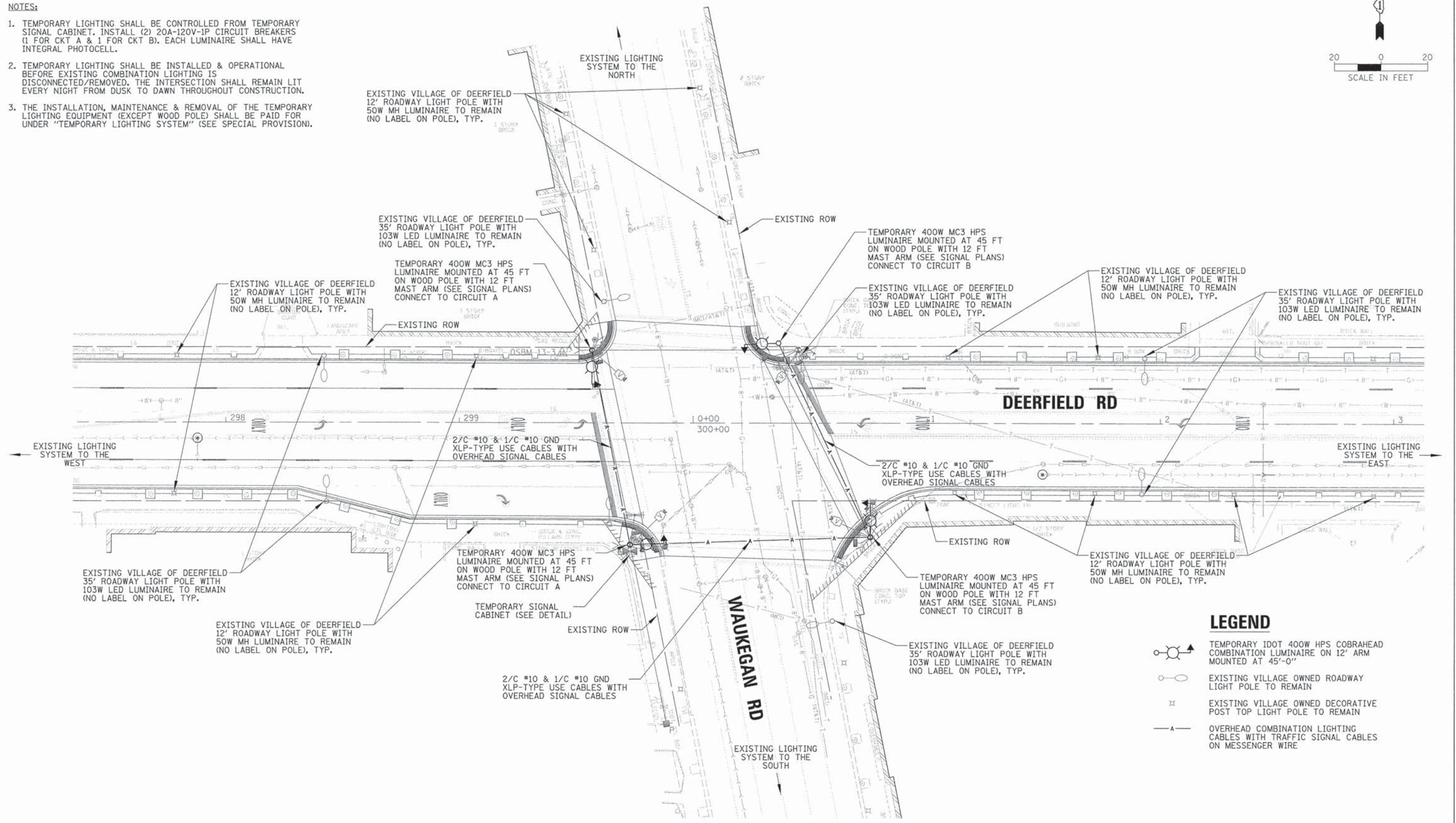


**NOTES:**

- TEMPORARY LIGHTING SHALL BE CONTROLLED FROM TEMPORARY SIGNAL CABINET. INSTALL (2) 20A-120V-1P CIRCUIT BREAKERS (1 FOR CKT A & 1 FOR CKT B). EACH LUMINAIRE SHALL HAVE INTEGRAL PHOTOCCELL.
- TEMPORARY LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE EXISTING COMBINATION LIGHTING IS DISCONNECTED/REMOVED. THE INTERSECTION SHALL REMAIN LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
- THE INSTALLATION, MAINTENANCE & REMOVAL OF THE TEMPORARY LIGHTING EQUIPMENT (EXCEPT WOOD POLE) SHALL BE PAID FOR UNDER "TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).

PLAN	DATE	BY
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		

PROFILE	DATE	BY
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		
NO.		



**LEGEND**

- TEMPORARY IDOT 400W HPS COBRAHEAD COMBINATION LUMINAIRE ON 12' ARM MOUNTED AT 45'-0"
- EXISTING VILLAGE OWNED ROADWAY LIGHT POLE TO REMAIN
- EXISTING VILLAGE OWNED DECORATIVE POST TOP LIGHT POLE TO REMAIN
- OVERHEAD COMBINATION LIGHTING CABLES WITH TRAFFIC SIGNAL CABLES ON MESSENGER WIRE

20'

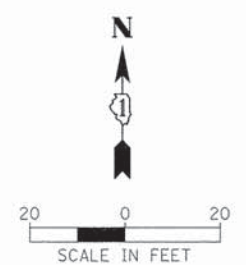
USER NAME = jstrack	DESIGNED - AJD	REVISED -
	DRAWN - LRR	REVISED -
PLOT SCALE = 20'	CHECKED - AJD	REVISED -
PLOT DATE = 8/30/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERSECTION LIGHTING PLAN  
DEERFIELD ROAD & IL ROUTE 43 (WAUKEGAN ROAD)**

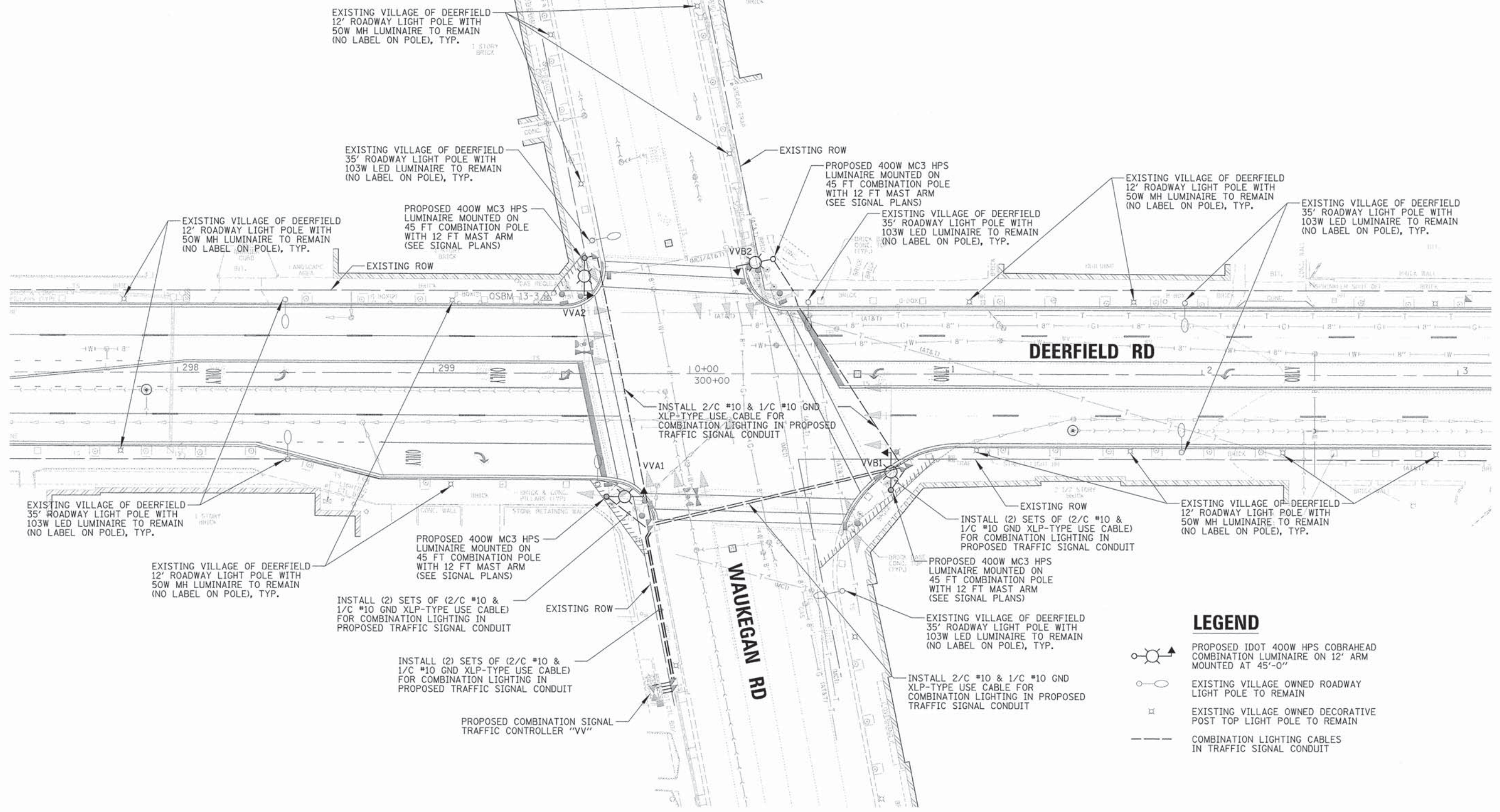
SCALE: 20	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	236
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. PROPOSED COMBINATION LIGHTING SHALL BE INSTALLED & FUNCTIONAL BEFORE TEMPORARY LIGHTING IS REMOVED. THE INTERSECTION LIGHTING SHALL BE FUNCTIONAL EVERY NIGHT FROM DUSK TO DAWN.
2. NEW COMBINATION LUMINAIRES SHALL BE 400W MC III WITH LUMINAIRE SAFETY CABLE.



**LEGEND**

- 
- 
- 
- 

DATE	BY

DATE	BY

20'

USER NAME = jstrik	DESIGNED - AJD	REVISED -
PLOT SCALE = 20'	DRAWN - LRR	REVISED -
PLOT DATE = 8/30/2015	CHECKED - AJD	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

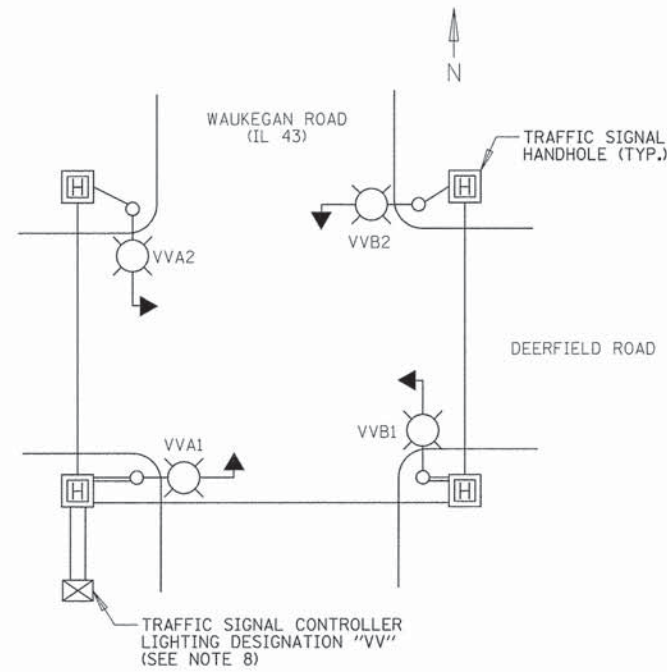
**PROPOSED INTERSECTION LIGHTING PLAN  
DEERFIELD ROAD & IL ROUTE 43 (WAUKEGAN ROAD)**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	237
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

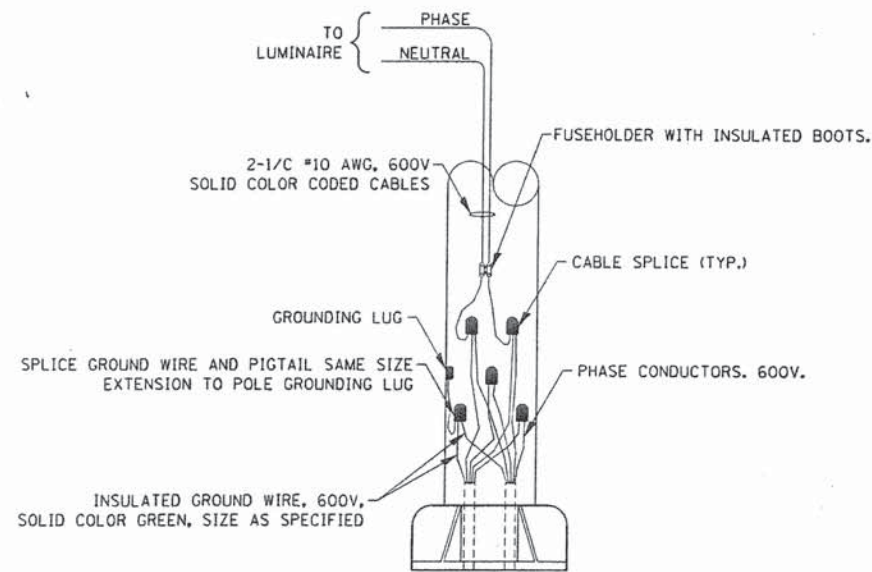
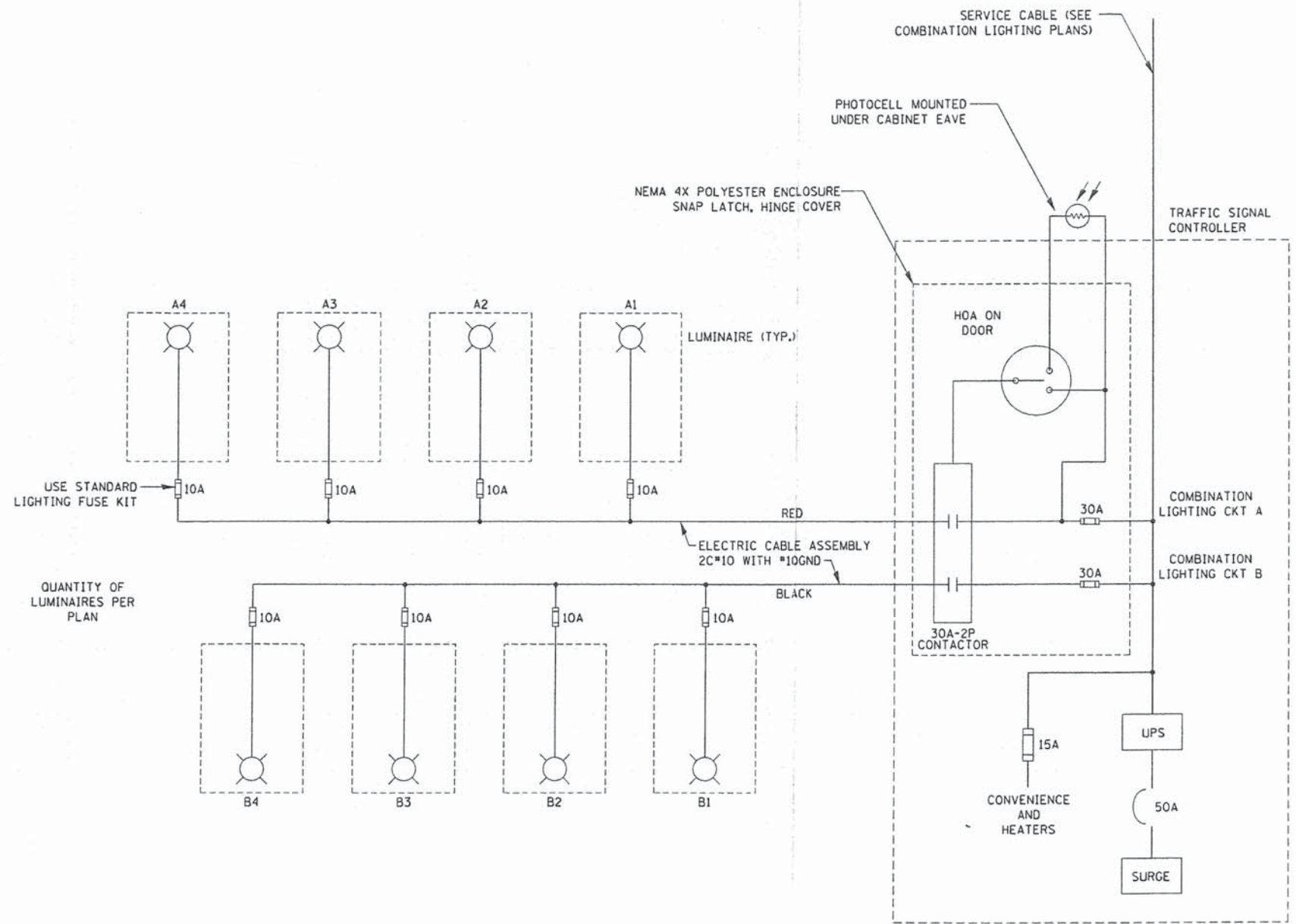
SCALE: 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	CADD FILE NAME	
	NO.	



**TYPICAL LIGHTING CIRCUIT DESIGNATIONS**  
(NOT TO SCALE)



**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

**IDOT STANDARD BE-240 (REV 2-10-15)  
MODIFIED FOR THIS PROJECT**

**NOTES:**

- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
- RECORD DRAWING SHALL INCLUDE:
  - TRAFFIC SIGNAL PLAN SHEET(S)
  - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
  - LIGHTING PLANS
  - THIS DETAIL
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.

**COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC**  
(NOT TO SCALE)

USER NAME = jst101ok	DESIGNED = AJD	REVISED =
	DRAWN = LRR	REVISED =
PLOT SCALE = 1"	CHECKED = AJD	REVISED =
PLOT DATE = 8/30/2015	DATE =	REVISED =

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

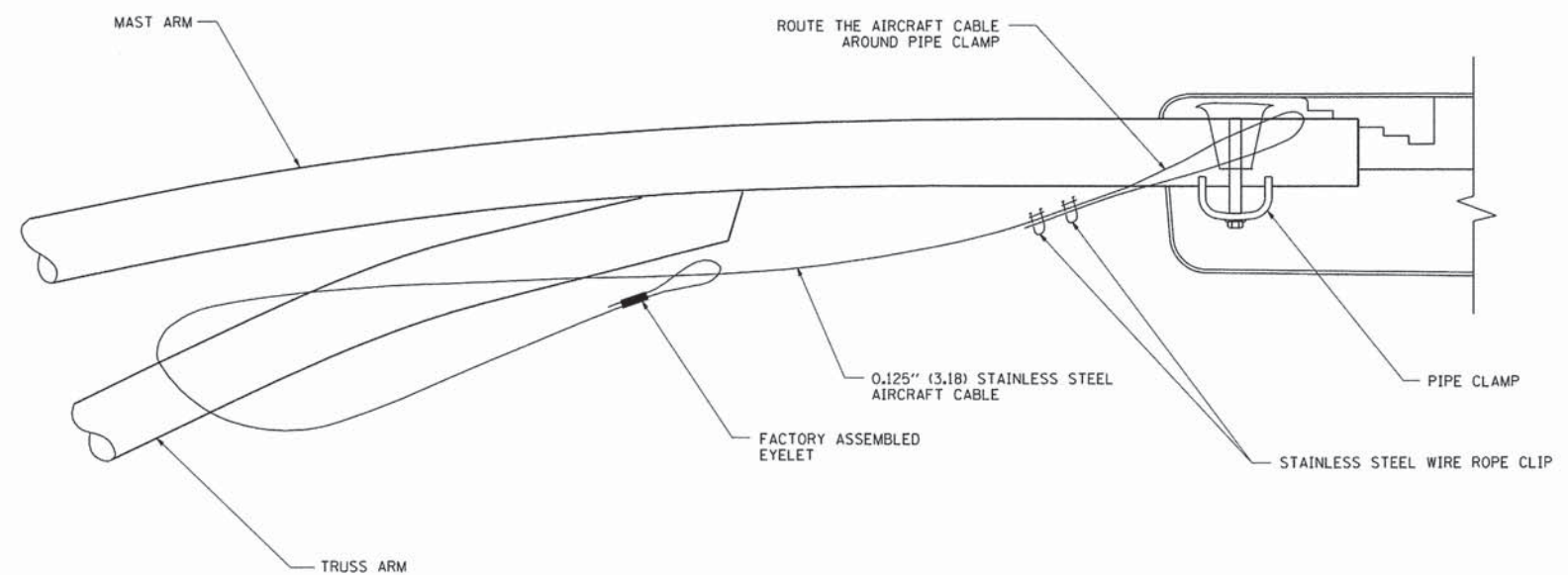
**INTERSECTION LIGHTING DETAILS (1 OF 2)  
DEERFIELD ROAD & IL ROUTE 43 (WAUKEGAN ROAD)**

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 238
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

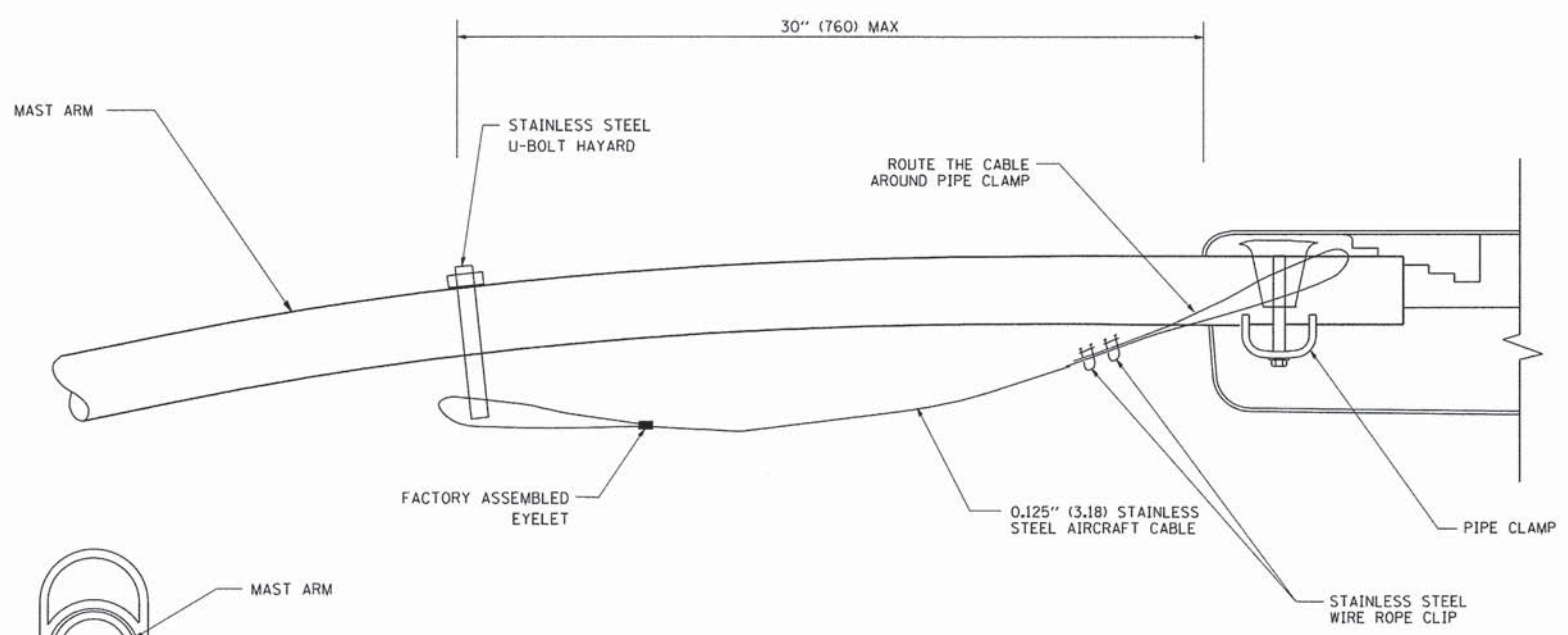
SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

PLAN	SURVEYED	BY	DATE
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	ADD FILE NAME		

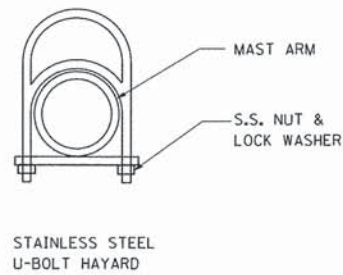
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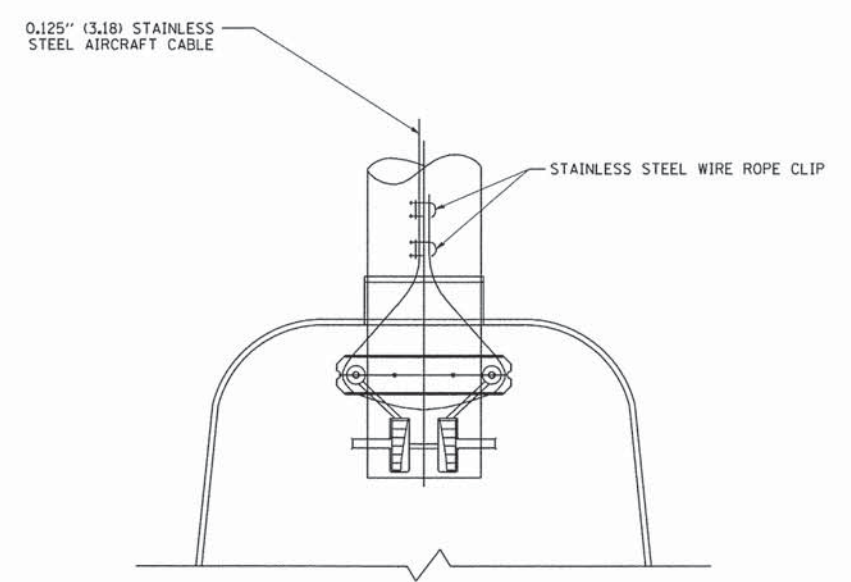
**SIDE VIEW (TRUSS ARM)**  
N.T.S.



**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
N.T.S.



STAINLESS STEEL U-BOLT HAYARD



**BOTTOM VIEW**  
N.T.S.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
  2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
  3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
  4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

**LUMINAIRE SAFETY CABLE**  
N.T.S.

**IDOT STANDARD BE-701 (REV 8-8-03)**

USER NAME = jstrock	DESIGNED - AJD	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>INTERSECTION LIGHTING DETAILS (2 OF 2)</b> <b>DEERFIELD ROAD &amp; IL ROUTE 43 (WAUKEGAN ROAD)</b></p>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1"	DRAWN - LRR	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA.	1257	11-00092-00-PV	LAKE	424	239
PLOT DATE = 8/30/2015	CHECKED - AJD	REVISED -				TO STA.					
	DATE -	REVISED -									CONTRACT NO. 63882

**GENERAL NOTES**

1. Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012, and latest Supplemental Construction Plans and Subsequent Details are all to be considered as part of the Contract. Incidental Items or Accessories necessary to complete this work may not be specifically noted but are considered a part of this Contract.
2. No Construction Plans shall be used for Construction unless specifically marked For Construction. Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting the work with the actual conditions. If there are discrepancies between the job site and what is shown on the construction plans, The contractor must immediately report to Engineer before doing any work, otherwise the Contractor shall assume full responsibility. In the event of disagreement between the plans and existing conditions and or details, the Contractor shall secure written instruction from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. In failing to secure such instruction, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or questions arising with respect to the true meaning of the Construction Plans or Specifications, the decision of the Engineer shall be final and conclusive.
3. Contractor shall verify all topographic information and grade elevations adjacent to bridge prior to proceeding, inform Engineer of any variation.
4. All details and sections shown on the drawings are typical and shall be used wherever a similar condition occurs unless noted otherwise.
5. The stability and strength of the completed structure depends upon the interaction of various connected parts such as braces. Contractor shall provide temporary bracing and/or shoring as necessary to complete the work.
6. The existing Bridge plans are available at Village Hall upon written request. Contact Bob Phillips, Assistant Village Engineer, Deerfield.
7. The top surface of the existing precast concrete beams shall be prepared in accordance with waterproofing manufacturer's recommendations.
8. Removal of existing waterproofing shall be incidental to Hot-Mix Asphalt Surface Removal, Variable Depth.
9. Preparation of tops of the existing precast concrete beams shall be incidental to Waterproofing Membrane System.
10. Removal of the existing grout, preparation and installation of repair material shall be included in the cost of "Keyway Repair". The extent of removal of the existing grout shall be as directed by the Engineer.
11. The keyway along the stage construction shall be aligned with clamping devices. This keyway shall be the last keyway to be repaired. The contractor shall furnish all material for clamping devices, including sufficient 1/16" and 1/8" steel shim plates to adjust for differential elevation between the two deck beams.
12. It is unknown if a preformed joint seal is present between the approach slab and adjacent pavement connector. A quantity has been included in these plans for Preformed Joint Seal 4" in the event there is an existing seal and its condition warrants replacement.
13. After the existing wearing surface has been removed, all beams shall be inspected by the Engineer to verify their condition.
14. After the existing overlay has been removed, all deteriorated grout in the dowel rod holes and grout joints at the ends of the beams should be removed from the dowel rod holes and grouted joints. Cracks in the existing grout to remain in the dowel holes should be sealed with epoxy. Epoxy grout should then be used to replace deteriorated grout. Repairing dowel rod holes and grouted joints at the end of the beams shall not be measured for payment separately, but shall be included in the cost of Waterproofing Membrane System.

**CONSTRUCTION**

1. All work shall be done in accordance with Illinois Department of Transportation (IDOT) Standard Specification For Road and Bridge Construction, Adopted January 1, 2012, and latest Supplemental Specifications and recurring Special Provisions, unless noted otherwise.
2. Do not scale dimensions for construction. Scale, if shown, applies only to full size drawings.
3. Any information concerning type or location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto. Contractor shall call J.U.L.I.E. and Village of Deerfield Public Works prior to excavation.
4. Shop working or layout drawings pertaining to the construction of the work, as may be required, shall be submitted to the Engineer for approval prior to the start of construction.
5. Upon completion, the contractor shall collect and remove all construction debris and excess material from the site. Damaged trees, shrubs, and other landscape features resulting from construction activities shall be replaced or repaired.

**REMOVAL AND PROTECTION**

1. Provide shoring and bracing for the existing structural elements during partial removal to avoid any damage to the other existing facilities.
2. Existing structures shall be protected from overloading due to construction loadings.
3. Damage to adjacent facilities during construction shall be repaired at no additional cost to the owner.

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM	UNIT	QUANTITY
40603595	Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N90	Ton	98
52000050	Preformed Joint Seal 4"	Foot	105
58100200	Waterproofing Membrane System	Sq Yd	282
58300100	Portland Cement Mortar Fairing Course	Foot	882
X4401198	Hot-Mix Asphalt Surface Removal, Variable Depth	Sq Yd	699
Z0032700	Keyway Repair	Foot	882

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	

DEERFIELD ROAD BRIDGE  
OVER MIDDLE FORK OF  
NORTH BRANCH OF CHICAGO RIVER  
STRUCTURE NO. 049-0071

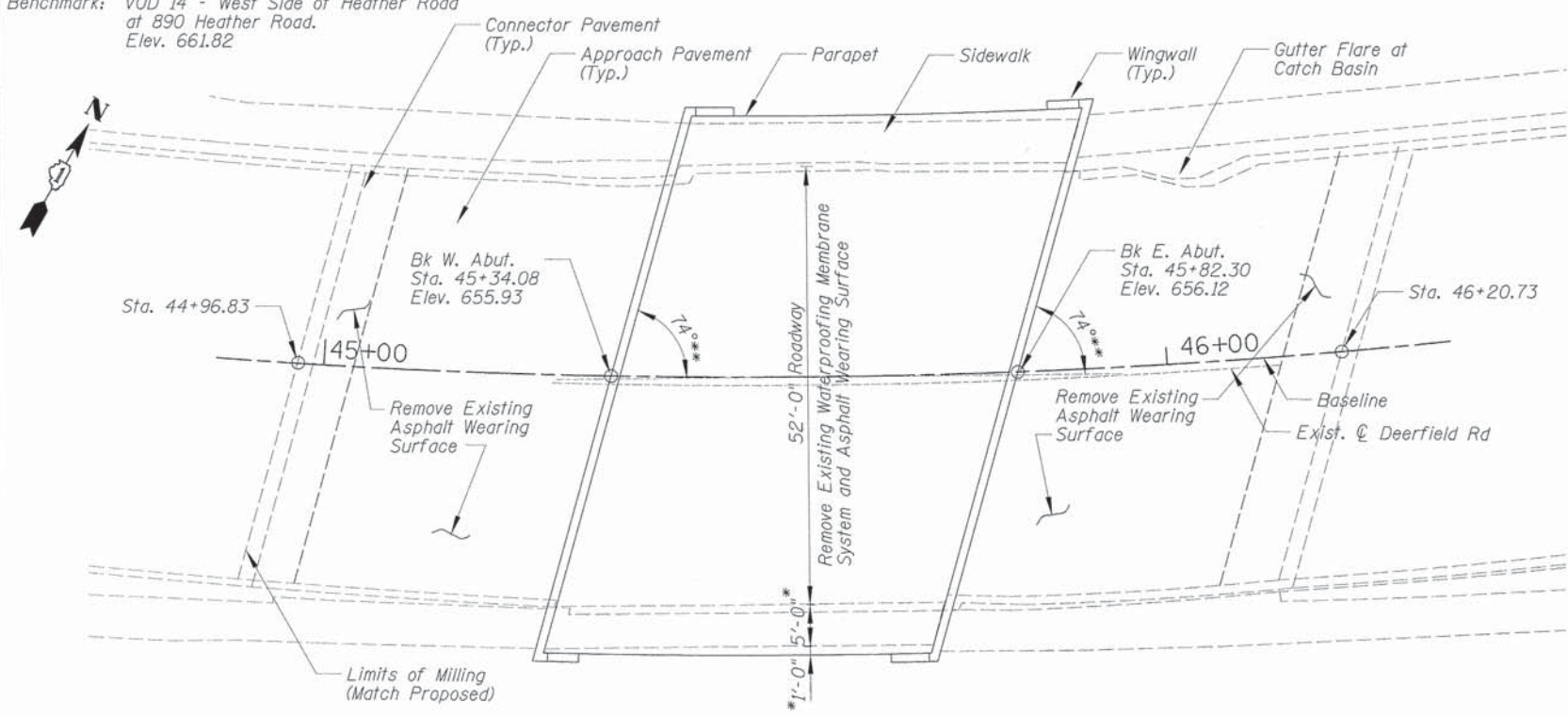
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PLOT SCALE = 1"	DRAWN -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 3 SHEETS	STA. 45+34.08 TO STA. 45+82.30	1257	11-00092-00-PV	LAKE	424	240	
PLOT DATE = 8/30/2015	CHECKED -	REVISED -						CONTRACT NO. 63882		ILLINOIS FED. AID PROJECT		
	DATE -	REVISED -										



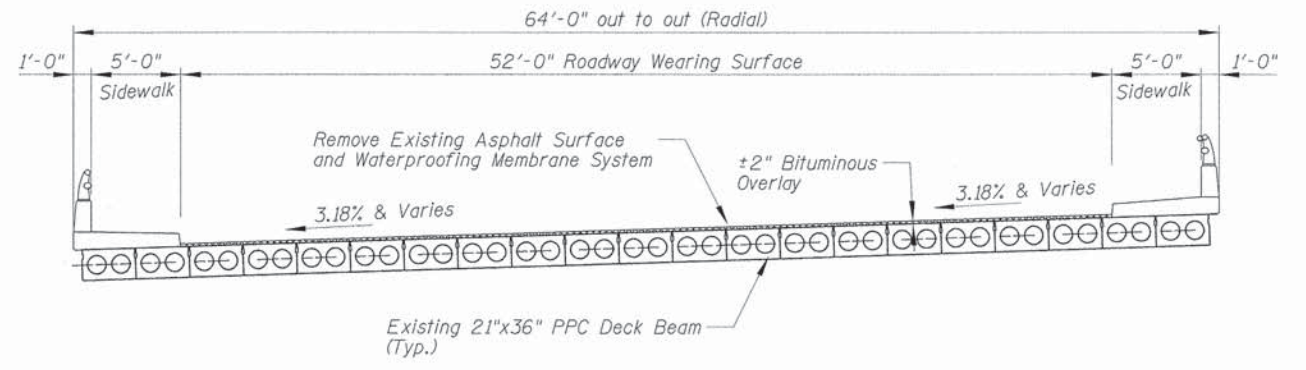
Benchmark: VOD 14 - West Side of Heather Road at 890 Heather Road. Elev. 661.82

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PLANNED	
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REVISIONS	
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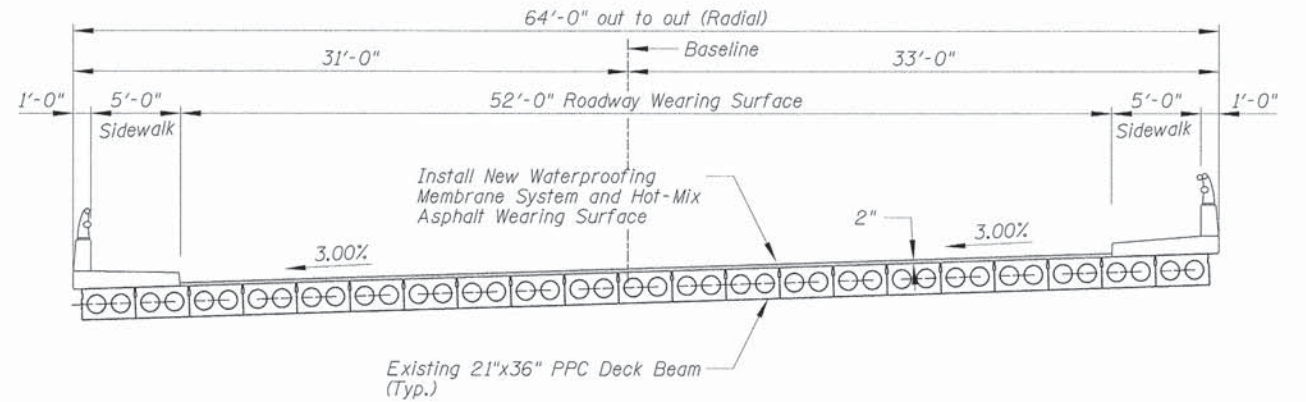
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REVISIONS	
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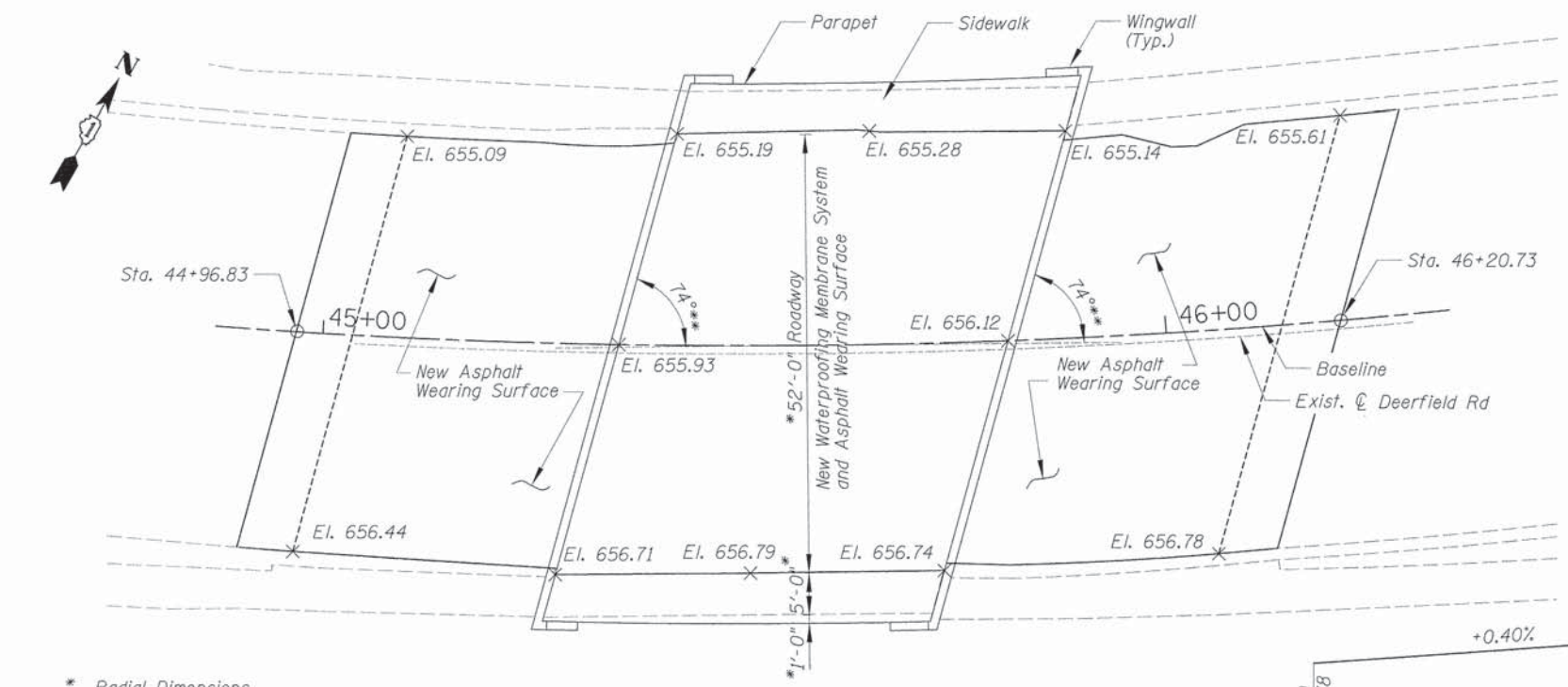
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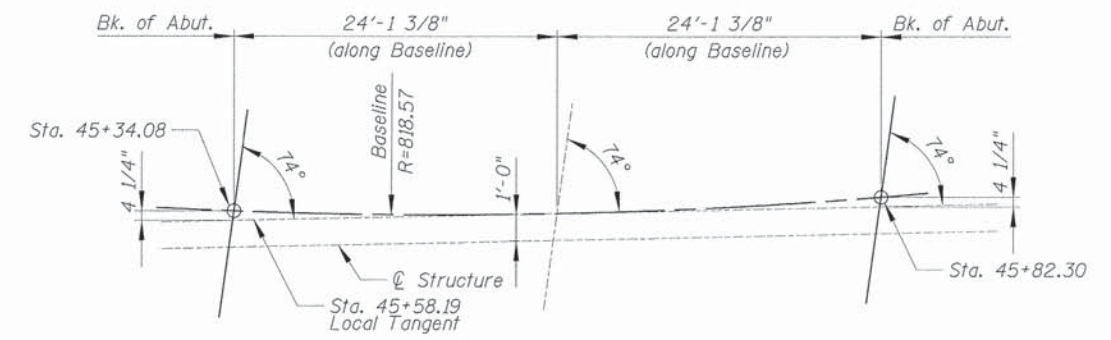
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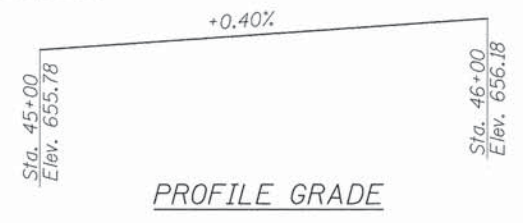
PROPOSED CROSS SECTION



PROPOSED PLAN



OFFSET SKETCH



PROFILE GRADE

LOADING HS-20  
Future wearing surface allowance= 50 PSF

DEERFIELD ROAD BRIDGE  
OVER MIDDLE FORK OF  
NORTH BRANCH OF CHICAGO RIVER  
STRUCTURE NO. 049-0071

11'

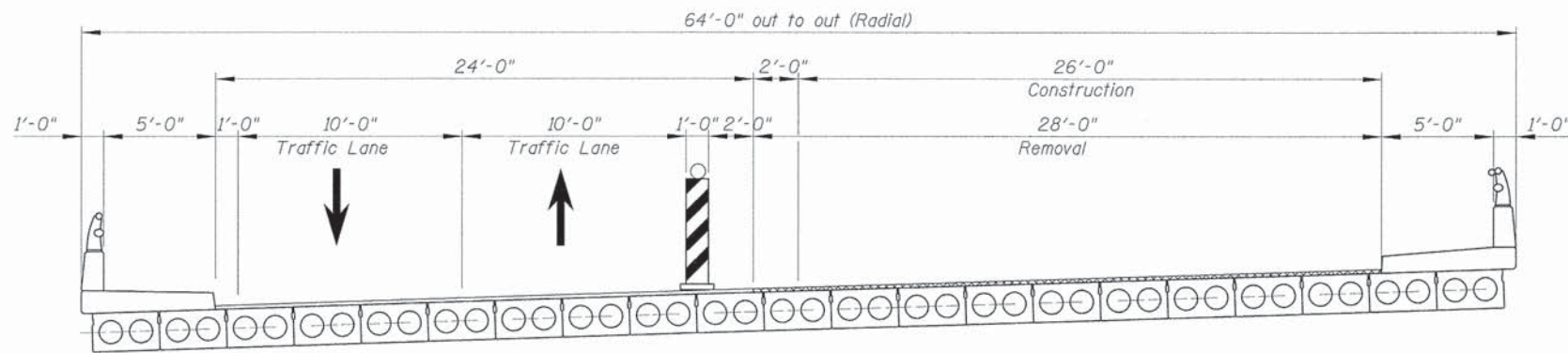
USER NAME = jstrick	DESIGNED =	REVISED =
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DATE = 8/30/2015	DATE =	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

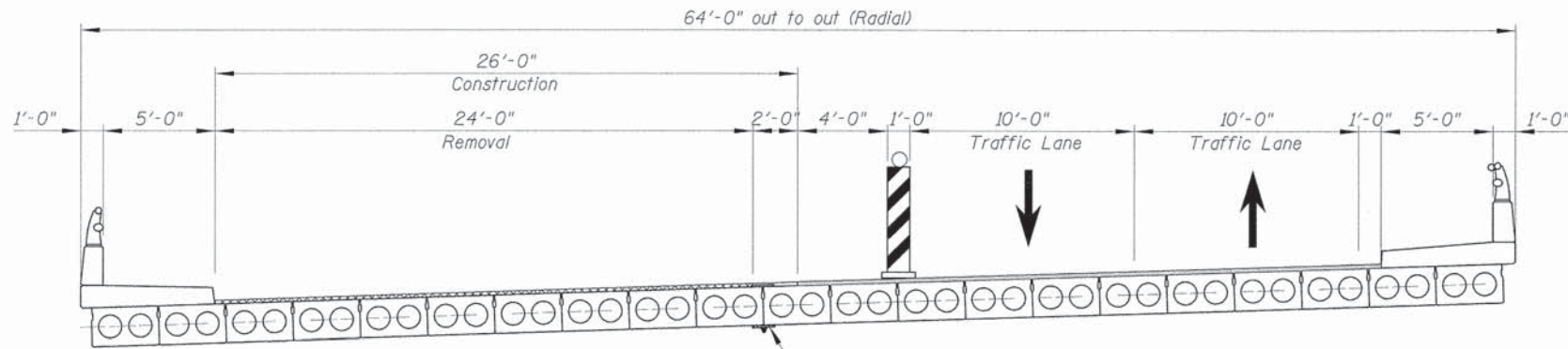
STRUCTURAL PLAN AND SECTIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DEERFIELD ROAD		1257	11-00092-00-PV	LAKE	424	241
SCALE: N.T.S.		SHEET NO. 2 OF 3 SHEETS		STA. 45+34.08 TO STA. 45+82.30		CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT						

DATE	
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SECTION	
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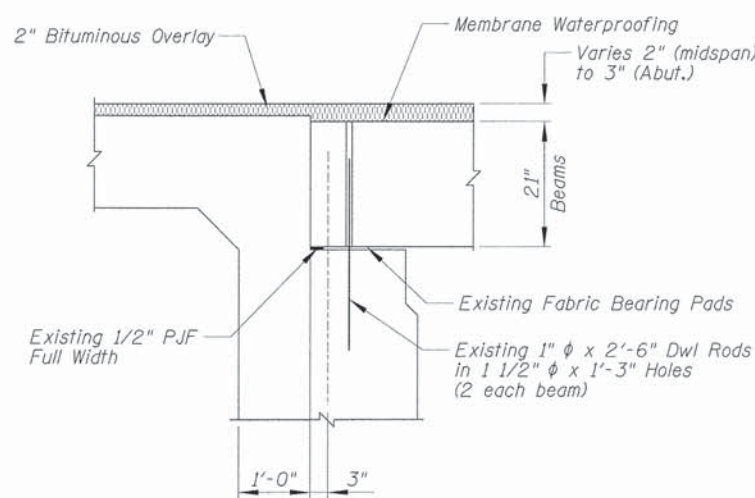


**STAGE I CONSTRUCTION**  
(All Dimensions are Radial)

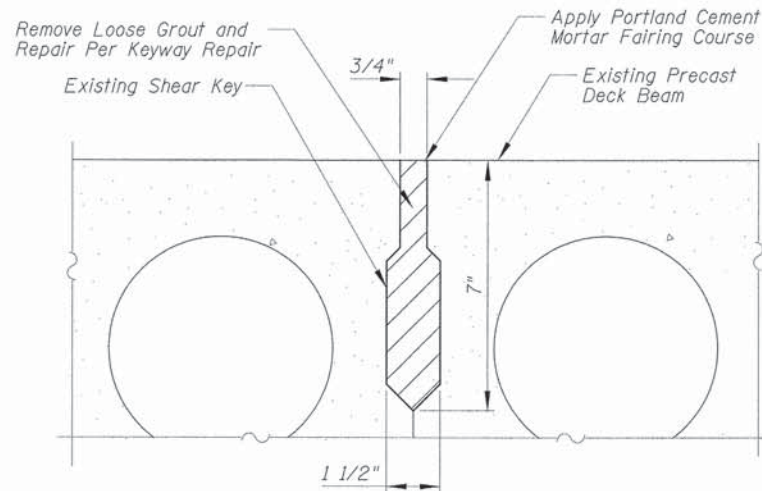


**STAGE II CONSTRUCTION**  
(All Dimensions are Radial)

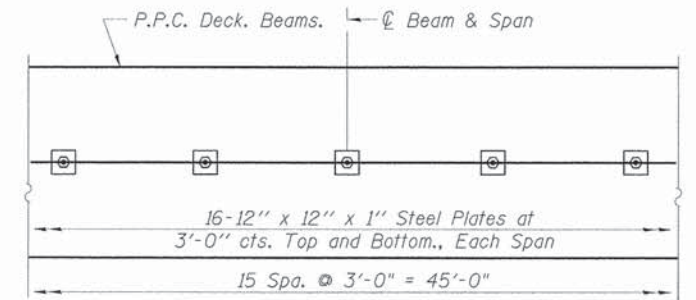
- NOTES:**
1. Terminate Membrane Waterproofing 2" Up Face of Curb.



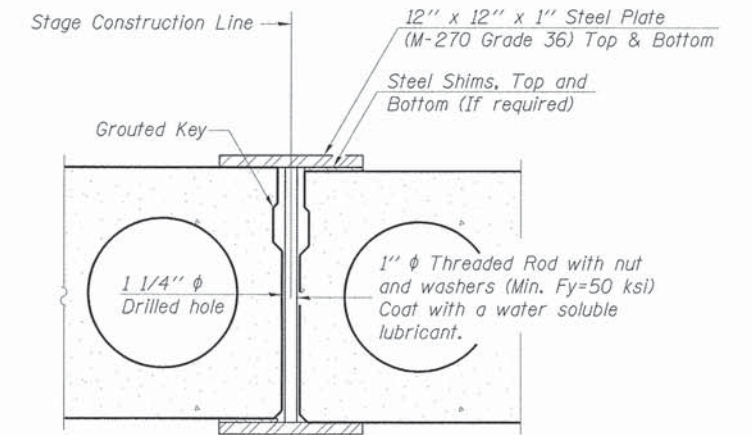
**ABUTMENT SECTION**  
(at Right Angle Showing Bearing Details)



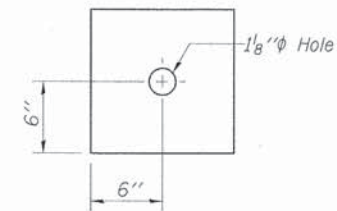
**SHEAR KEY REPAIR DETAIL**



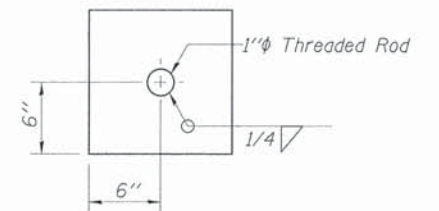
**PLAN**



**SECTION**



**BOTTOM CLAMPING PLATE**



**TOP CLAMPING PLATE**

**SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.**

1. Clamping device shall be installed per Section 504 of Standard Specifications at Stage Construction Line.
2. The Cost of installing and removing clamping devices are included with "Keyway Repair".

DEERFIELD ROAD BRIDGE  
OVER MIDDLE FORK OF  
NORTH BRANCH OF CHICAGO RIVER  
STRUCTURE NO. 049-0071

USER NAME = jstrik	DESIGNED -	REVISED -
PLLOT SCALE = 1"	DRAWN -	REVISED -
PLLOT DATE = 8/30/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS  
DEERFIELD ROAD

SCALE: N.T.S. SHEET NO. 3 OF 3 SHEETS STA. 45+34.08 TO STA. 45+82.30

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 242
CONTRACT NO. 63882				ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

- Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012, and latest Supplemental Construction Plans and Subsequent Details are all to be considered as part of the Contract. Incidental Items or Accessories necessary to complete this work may not be specifically noted but are considered a part of this Contract.
- No Construction Plans shall be used for Construction unless specifically marked For Construction. Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting the work with the actual conditions. If there are discrepancies between the job site and what is shown on the construction plans, the contractor must immediately report to Engineer before doing any work, otherwise the Contractor shall assume full responsibility. In the event of disagreement between the plans and existing conditions and or details, the Contractor shall secure written instruction from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. In failing to secure such instruction, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or questions arising with respect to the true meaning of the Construction Plans or Specifications, the decision of the Engineer shall be final and conclusive.
- Contractor shall verify all topographic information and grade elevations adjacent to bridge prior to proceeding, inform Engineer of any variation.
- All details and sections shown on the drawings are typical and shall be used wherever a similar condition occurs unless noted otherwise.
- The stability and strength of the completed structure depends upon the interaction of various connected parts such as braces. Contractor shall provide temporary bracing and/or shoring as necessary to complete the work.
- The existing Bridge plans are available at Village Hall upon written request. Contact Bob Phillips, Assistant Village Engineer.
- The top surface of the existing precast concrete beams shall be prepared in accordance with waterproofing manufacturer's recommendations.
- Removal of existing waterproofing shall be incidental to Hot-Mix Asphalt Surface Removal, Variable Depth.
- Preparation of tops of the existing precast concrete beams shall be incidental to Waterproofing Membrane System.
- Removal of the existing grout, preparation and installation of repair material shall be included in the cost of "Keyway Repair". The extent of removal of the existing grout shall be as directed by the Engineer.
- During construction, traffic will be detoured and bridge will be closed for traffic. No stage construction.
- It is unknown if a preformed joint seal is present between the approach slab and adjacent pavement connector. A quantity has been included in these plans for Preformed Joint Seal 4" in the event there is an existing seal and its condition warrants replacement.
- After the existing wearing surface has been removed, all beams shall be inspected by the Engineer to verify their condition.
- After the existing overlay has been removed, all deteriorated grout in the dowel rod holes and grout joints at the ends of the beams should be removed from the dowel rod holes and grouted joints. Cracks in the existing grout to remain in the dowel holes should be sealed with epoxy. Epoxy grout should then be used to replace deteriorated grout. Repairing dowel rod holes and grouted joints at the end of the beams shall not be measured for payment separately, but shall be included in the cost of Waterproofing Membrane System.

**CONSTRUCTION**

- All work shall be done in accordance with Illinois Department of Transportation (IDOT) Standard Specification For Road and Bridge Construction, Adopted January 1, 2012, and latest Supplemental Specifications and recurring Special Provisions, unless noted otherwise.
- Do not scale dimensions for construction. Scale, if shown, applies only to full size drawings.
- Any information concerning type or location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto. Contractor shall call J.U.L.I.E. and Village of Deerfield Public Works prior to excavation.
- Shop working or layout drawings pertaining to the construction of the work, as may be required, shall be submitted to the Engineer for approval prior to the start of construction.
- Upon completion, the contractor shall collect and remove all construction debris and excess material from the site. Damaged trees, shrubs, and other landscape features resulting from construction activities shall be replaced or repaired.

**REMOVAL AND PROTECTION**

- Provide shoring and bracing for the existing structural elements during partial removal to avoid any damage to the other existing facilities.
- Existing structures shall be protected from overloading due to construction loadings.
- Damage to adjacent facilities during construction shall be repaired at no additional cost to the owner.

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM	UNIT	QUANTITY
40603595	Polymerizer Hot-Mix Asphalt Surface Course, Mix "F", N90	Ton	62
52000050	Preformed Joint Seal 4"	Foot	60
58100200	Waterproofing Membrane System	Sq Yd	100
58300100	Portland Cement Mortar Fairing Course	Foot	270
78000200	Thermoplastic Pavement Marking - Line 4"	Foot	532
78000600	Thermoplastic Pavement Marking - Line 12"	Foot	54
X4401198	Hot-Mix Asphalt Surface Removal, Variable Depth	Sq Yd	443
Z0032700	Keyway Repair	Foot	270

PLAN	DATE
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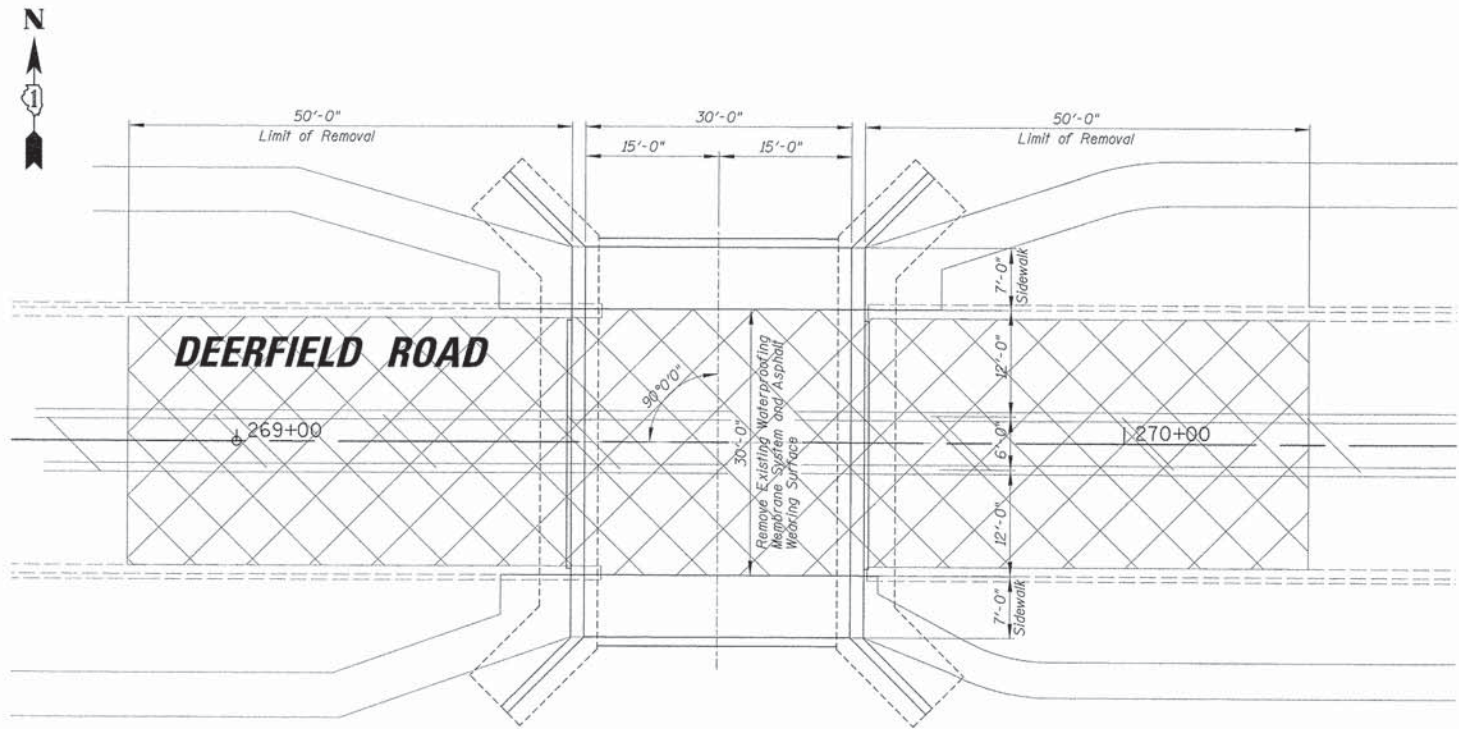
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BY	
DESIGNED	
CHECKED	
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DEERFIELD ROAD BRIDGE  
OVER WEST FORK OF  
NORTH BRANCH OF CHICAGO RIVER  
STRUCTURE NO. 049-6157

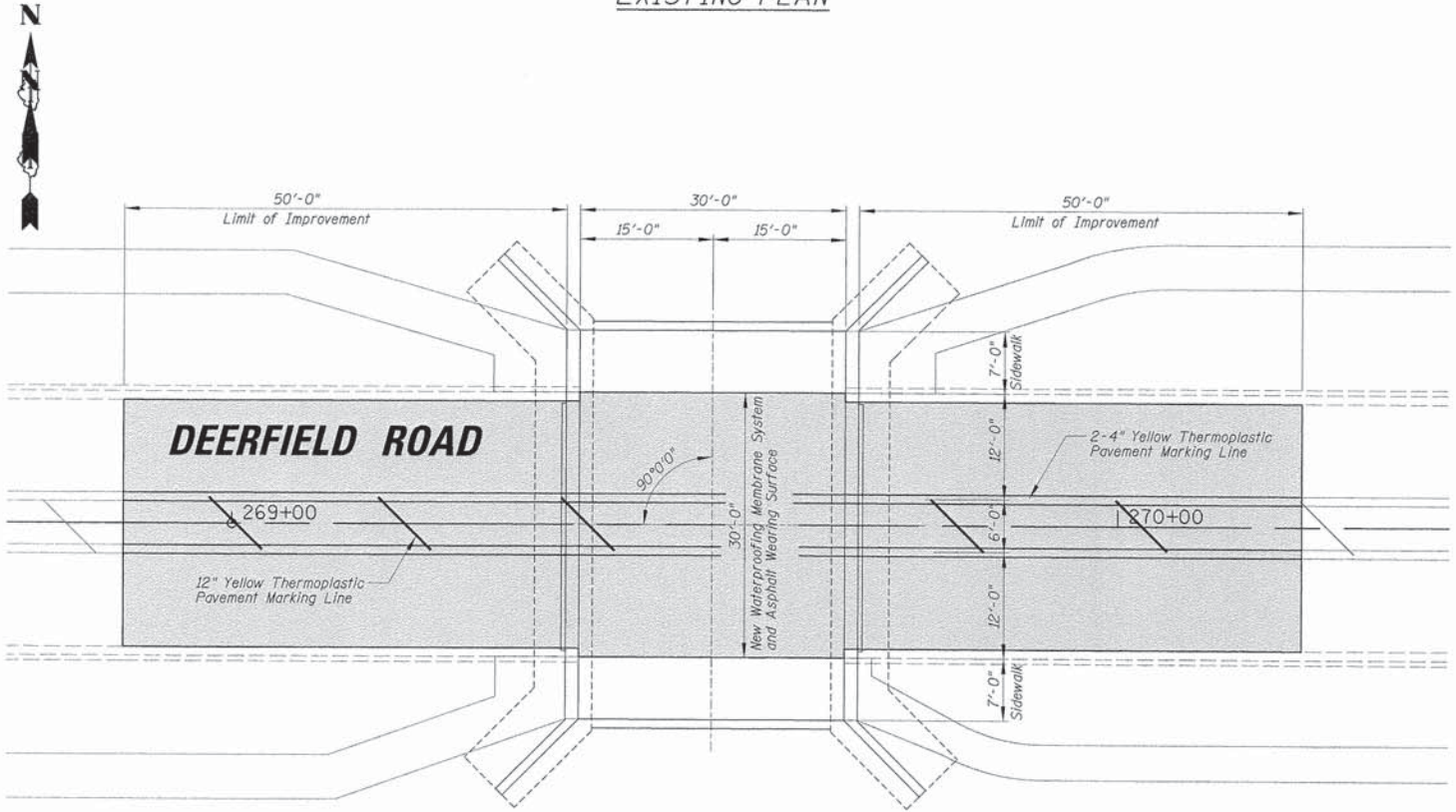
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PLLOT SCALE = 1"	DRAWN - -	REVISED - -			1257	11-00092-00-PV	LAKE	424	243	
PLLOT DATE = 8/30/2015	CHECKED - -	REVISED - -			CONTRACT NO. 63882					
	DATE - -	REVISED - -			SCALE: N.T.S.	SHEET NO. 1 OF 3 SHEETS	STA. 45+34.08 TO STA. 45+82.30	ILLINOIS FED. AID PROJECT		

DATE	
BY	
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DATE FILED	
FILE NO.	

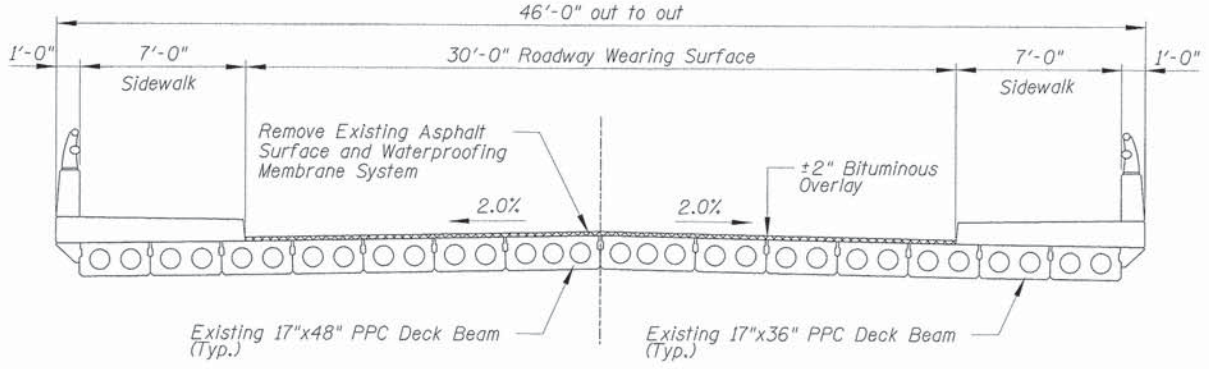
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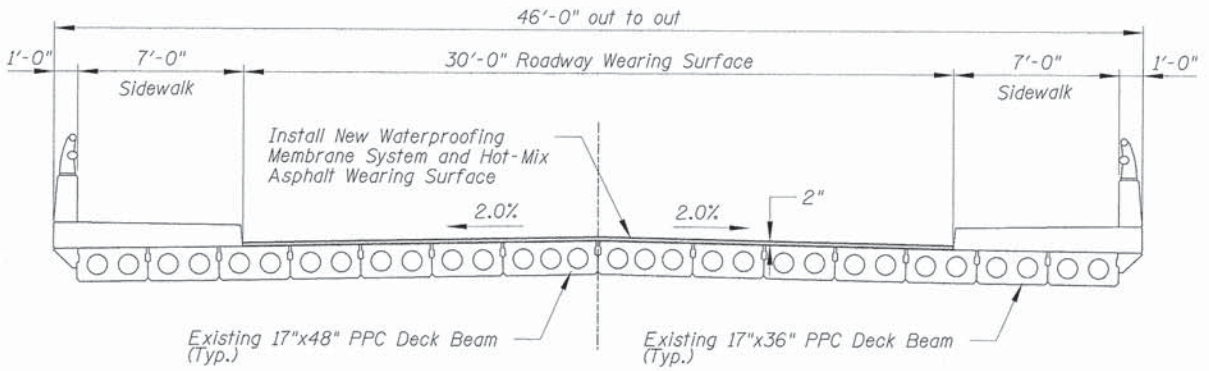
EXISTING PLAN



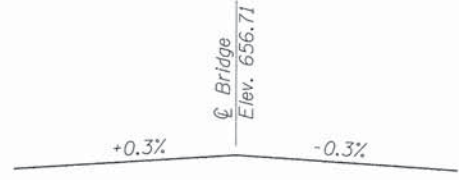
PROPOSED PLAN



EXISTING CROSS SECTION



PROPOSED CROSS SECTION



PROFILE GRADE

DEERFIELD ROAD BRIDGE  
OVER WEST FORK OF  
NORTH BRANCH OF CHICAGO RIVER  
STRUCTURE NO. 049-6157

USER NAME	- jastuck	DESIGNED	-	REVISED	-
PLLOT SCALE	= 1/1"	DRAWN	-	REVISED	-
PLLOT DATE	= 8/28/2015	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

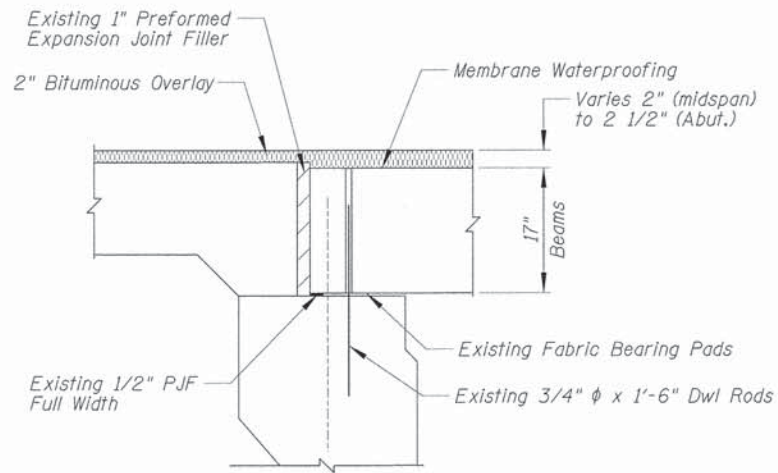
STRUCTURAL PLAN AND SECTIONS  
DEERFIELD ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	244
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				

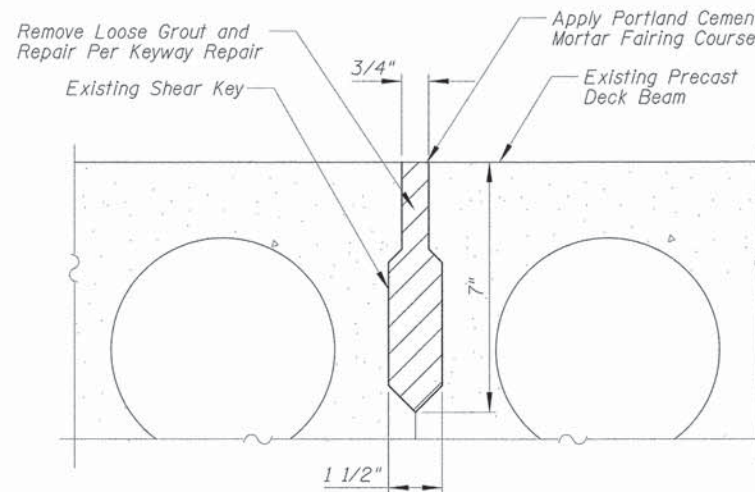
SCALE: N.T.S. SHEET NO. OF 3 SHEETS STA. 45+34.08 TO STA. 45+82.30

PLAN	DATE
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DRAWN	
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NOTE BOOK	
NO.	
STRUCTURE NOTATION	
NO.	
FILE NAME	

PROFILE	DATE
BY	
DESIGNED	
DRAWN	
CHECKED	
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NOTE BOOK	
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FILE NAME	



**ABUTMENT SECTION**  
(at Right Angle Showing Bearing Details)



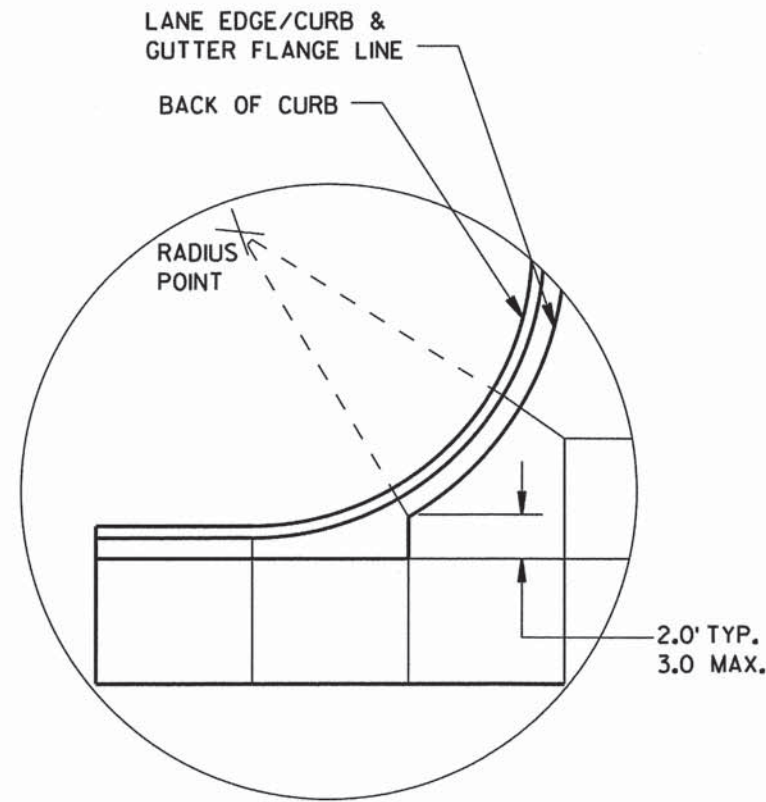
**SHEAR KEY REPAIR DETAIL**

DEERFIELD ROAD BRIDGE  
OVER WEST FORK OF  
NORTH BRANCH OF CHICAGO RIVER  
STRUCTURE NO. 049-6157

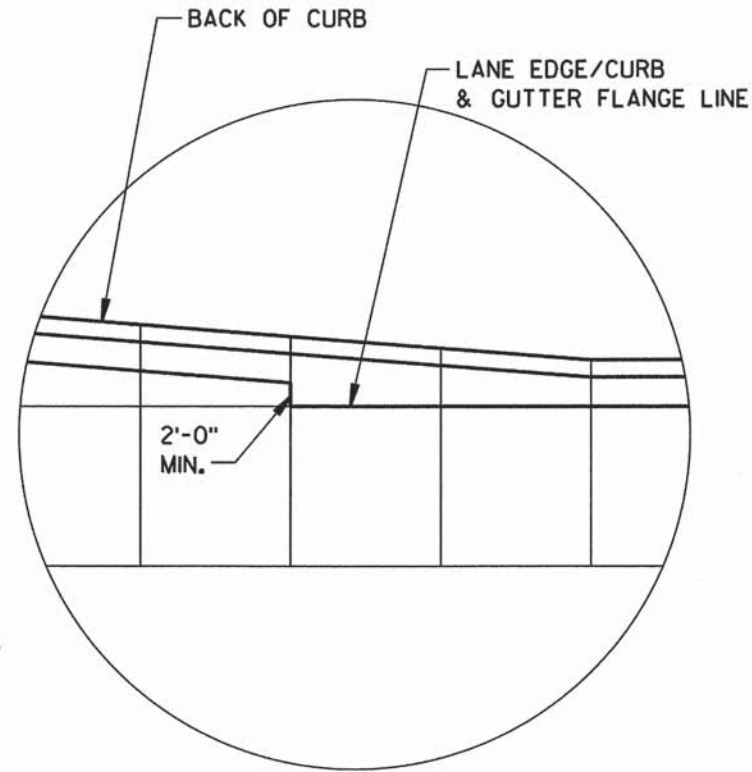
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PLOT SCALE = 1"	CHECKED - -	REVISED -		SCALE: N.T.S.	SHEET NO. 3 OF 3 SHEETS	STA. 45+34.08 TO STA. 45+82.30	CONTRACT NO. 63882				
PLOT DATE = 8/30/2015	DATE - -	REVISED -		ILLINOIS FED. AID PROJECT							
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	PLOTTED	BY
	CHECKED	
	BY	
	NO. OF DAYS CHECKED	
	NO.	CADD FILE NAME

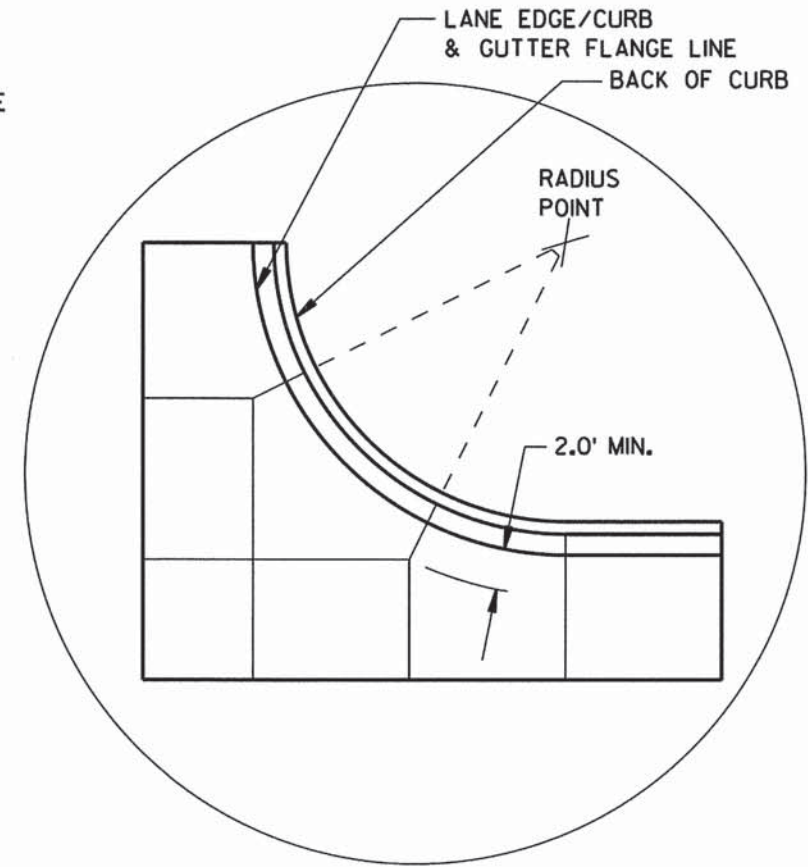
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	NO.	STRUCTURE NOTATION



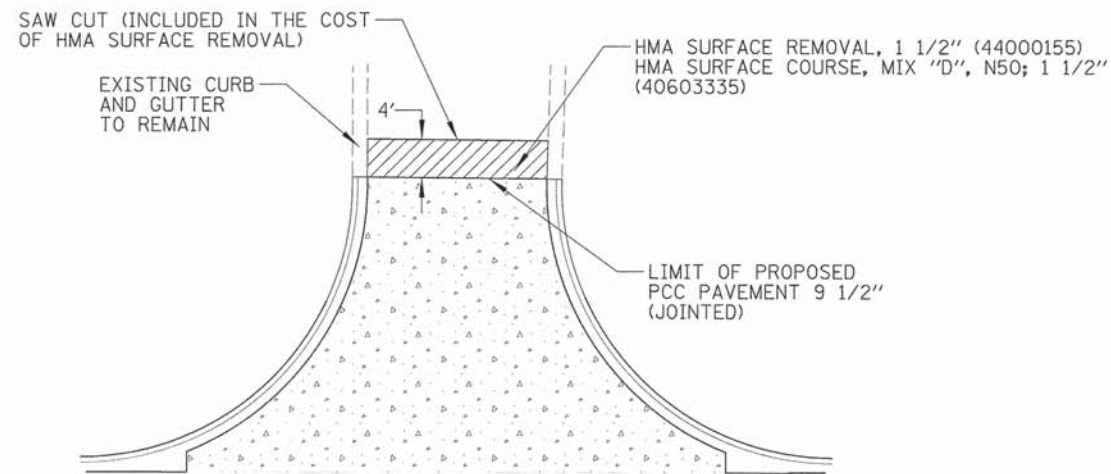
**DETAIL "A"**



**DETAIL "B"**



**DETAIL "C"**



**PAVEMENT TRANSITION DETAIL**

(TO BE USED WHERE PROPOSED PCC PAVEMENT ABUTS EXISTING HMA PAVEMENT)

**GENERAL NOTES**

- THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.
  - ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.
  - CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.
  - ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.
  - AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.
  - SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.
  - AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.
  - CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
  2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
  3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.

USER NAME = jsstrick	DESIGNED - VMR	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1"	CHECKED - SNS	REVISED -
PLOT DATE = 0/30/2015	DATE -	REVISED -

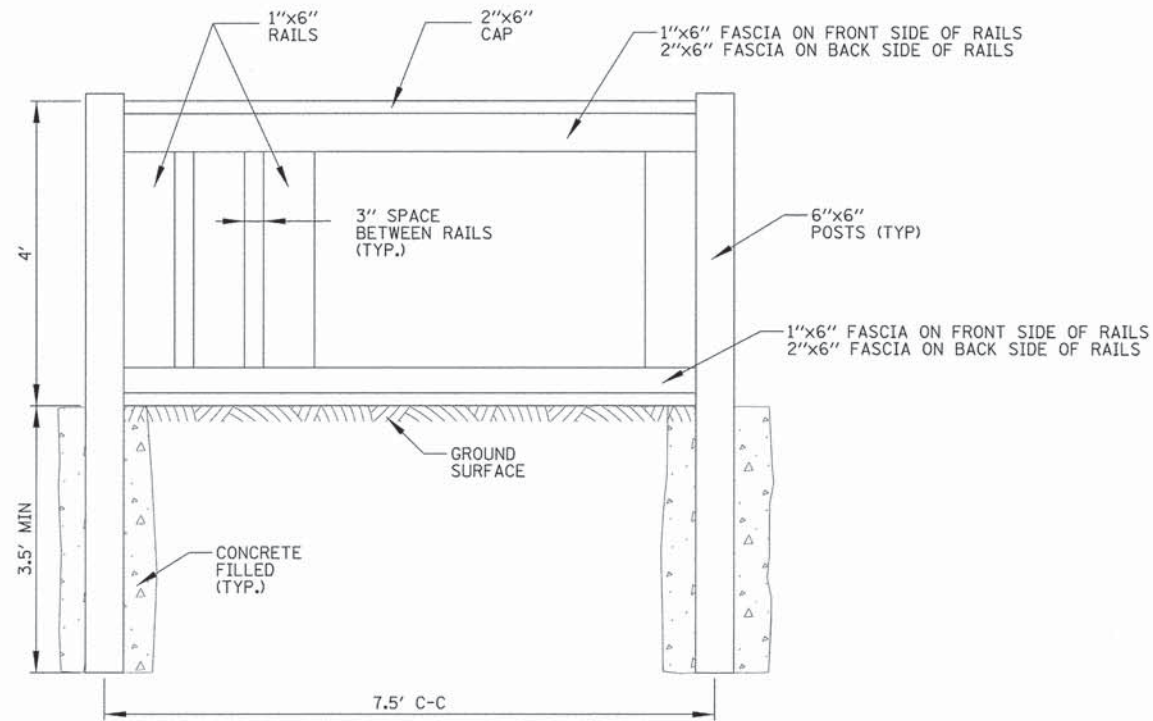
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS  
DEERFIELD ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	246
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				

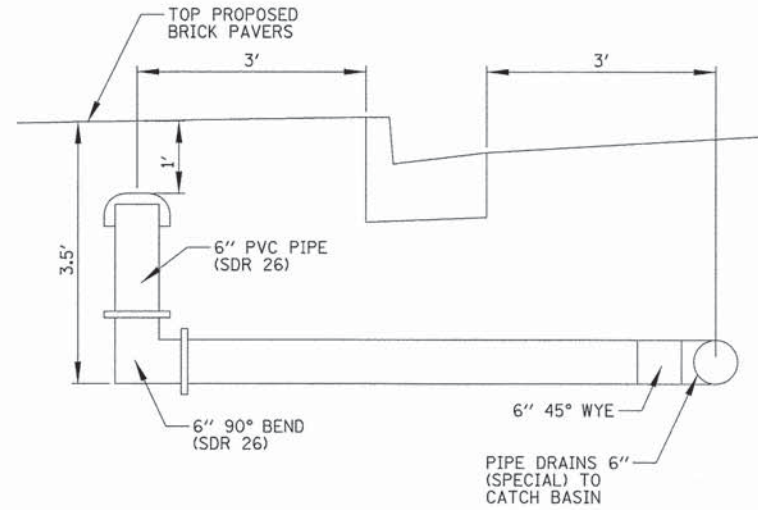
SCALE: N.T.S. SHEET NO. 1 OF 9 SHEETS STA. ---- TO STA. ----

DATE	
BY	
PLAN	
NO.	
NO. BOOK	
NO. SHEETS	
NO. CHECKED	
NO. REVISIONS	
NO. FILE NAME	
NO. CAD FILE NAME	



### PROPOSED WOOD FENCE

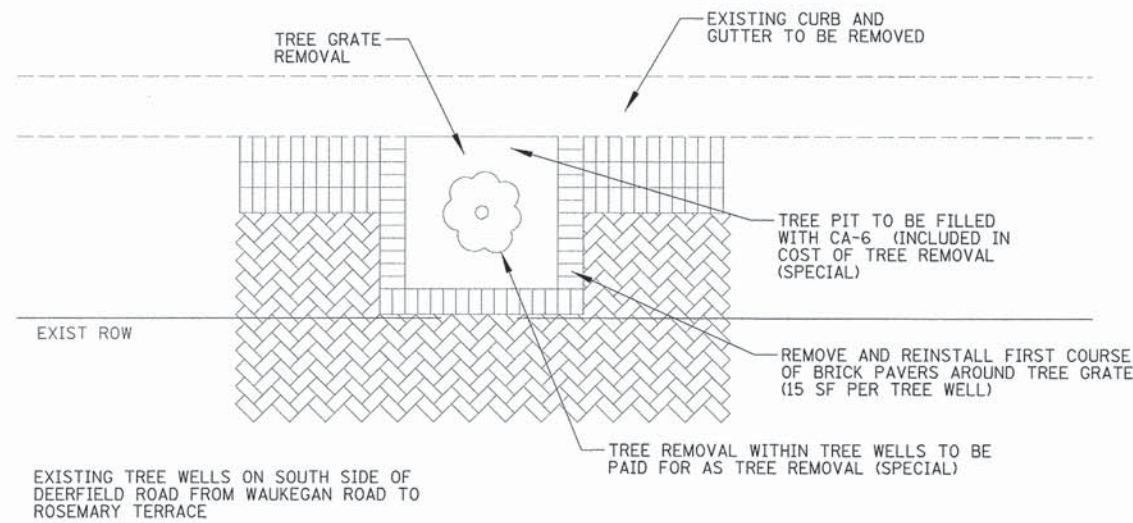
(INCLUDED IN COST OF WOOD FENCE TO BE REMOVED AND RE-ERECTED)



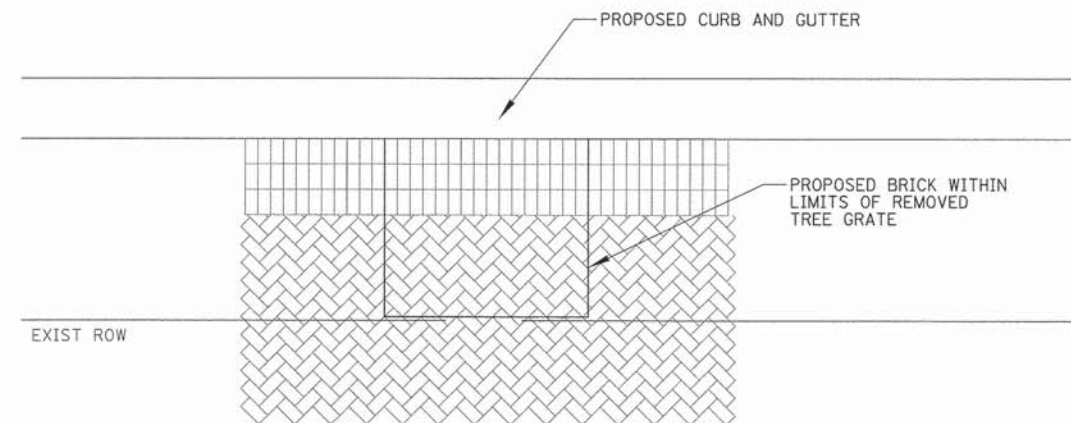
### PIPE DRAINS 6" (SPECIAL)

NOT TO SCALE

DATE	
BY	
PROFILE	
NO.	
NO. BOOK	
NO. SHEETS	
NO. CHECKED	
NO. REVISIONS	
NO. FILE NAME	
NO. CAD FILE NAME	



EXISTING TREE WELLS ON SOUTH SIDE OF DEERFIELD ROAD FROM WAUKEGAN ROAD TO ROSEMARY TERRACE



TREE WELLS ON SOUTH SIDE OF DEERFIELD ROAD FROM WAUKEGAN ROAD TO ROSEMARY TERRACE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

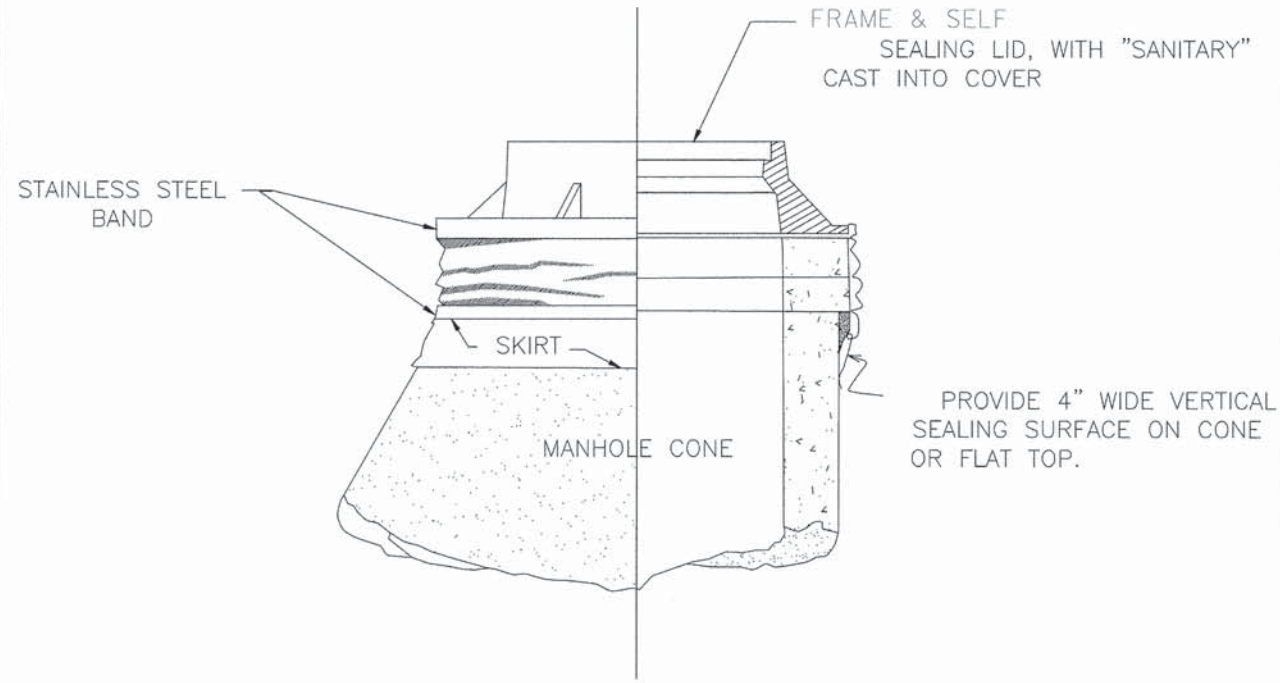
CONSTRUCTION DETAILS  
DEERFIELD ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	247
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 2 OF 9 SHEETS STA. TO STA.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	ADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS SHOWN	



PROVIDE 4" WIDE VERTICAL SEALING SURFACE ON CONE OR FLAT TOP.

INTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 - 4 1/2 "	CHIMNEY SEAL ONLY
4 1/2 " TO 9"	SEAL + 7" EXTENSION
9" TO 12"	SEAL + 10" EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

EXTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 - 3"	NARROW (6") SEAL ONLY
3 TO 6 1/2 "	STANDARD (9") SEAL ONLY
6 1/2 " TO 12"	STD. SEAL + EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

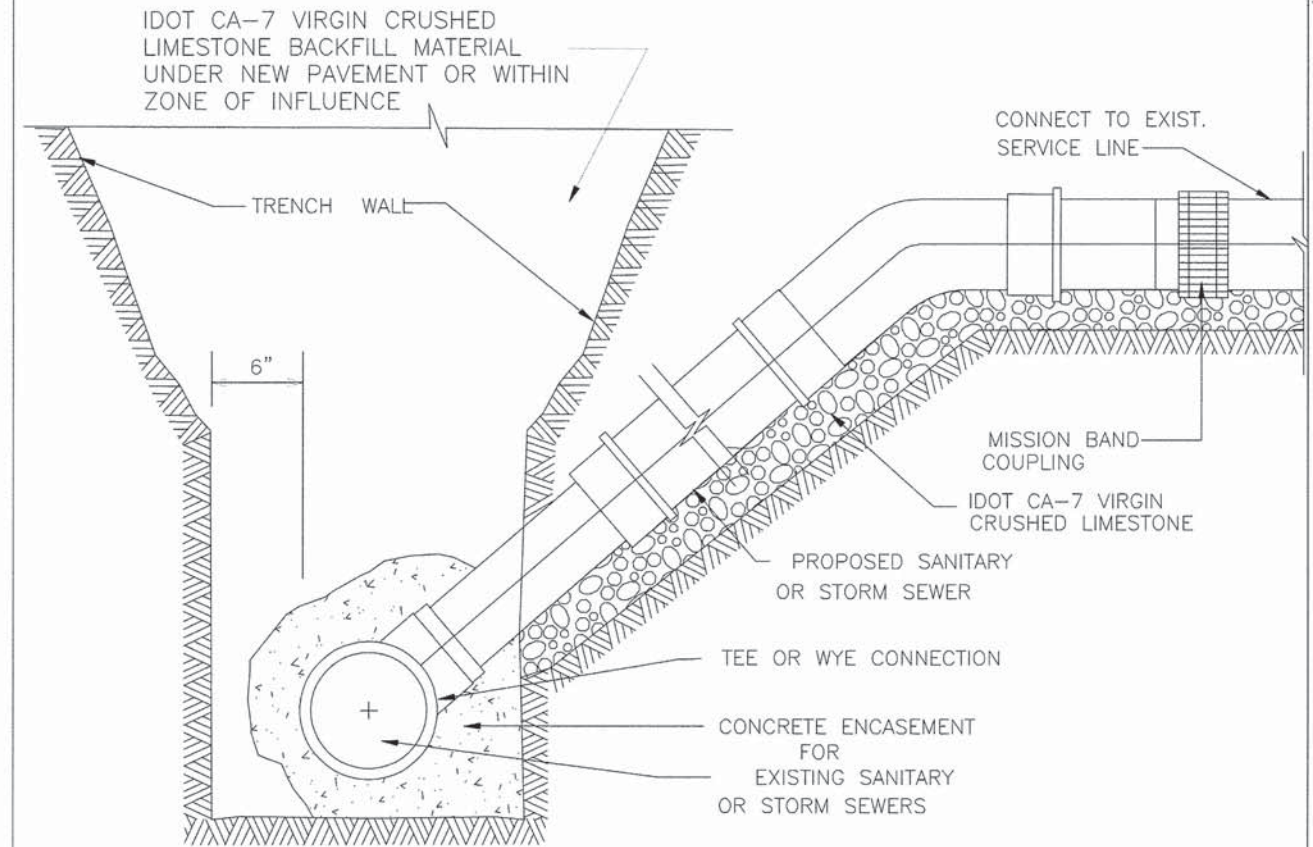
**NOTE:**

1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWER SYSTEM MANHOLES.
2. EXTERNAL/INTERNAL SEALS ARE REQUIRED.
3. CHIMNEY SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOT TO SCALE

CHIMNEY SEAL DETAIL

REVISED 11-04-04



**NOTES:**

1. MINIMUM 6" CONNECTION AT MAIN FOR STORM SEWER SERVICE. PIPE MUST BE CORED AND BOOT CONNECTION USED.
2. FOR STORM SEWER SERVICE  $\geq 8"$ , A MANHOLE MUST BE INSTALLED.
3. FOR SANITARY SEWER SERVICE CONNECTION TO EXISTING VILLAGE SEWER  $\leq 12"$ , A SECTION OF PIPE MUST BE REMOVED AND A TEE OR WYE INSTALLED.
4. FOR SANITARY SEWER SERVICE CONNECTION TO EXISTING VILLAGE SEWER  $\geq 15"$ , PIPE MUST BE CIRCULAR SAW-CUT AND A HUB WYE OR TEE SADDLE CONNECTION INSTALLED.
5. FOR ALL PROPOSED STORM OR SANITARY SERVICES, ALL CONNECTIONS MUST BE ENCASED IN LOW-STRENGTH CONCRETE TO PREVENT FITTING ROTATION.
6. FOR TRENCHES WITHIN A PAVED SURFACE AREA, FLOWABLE FILL BACKFILL MEETING IDOT SPECIFICATIONS FOR CONTROLLED LOW-STRENGTH MATERIAL (CLSM) MIX 1 MUST BE USED.

NOT TO SCALE

SANITARY & STORM SERVICE DETAIL

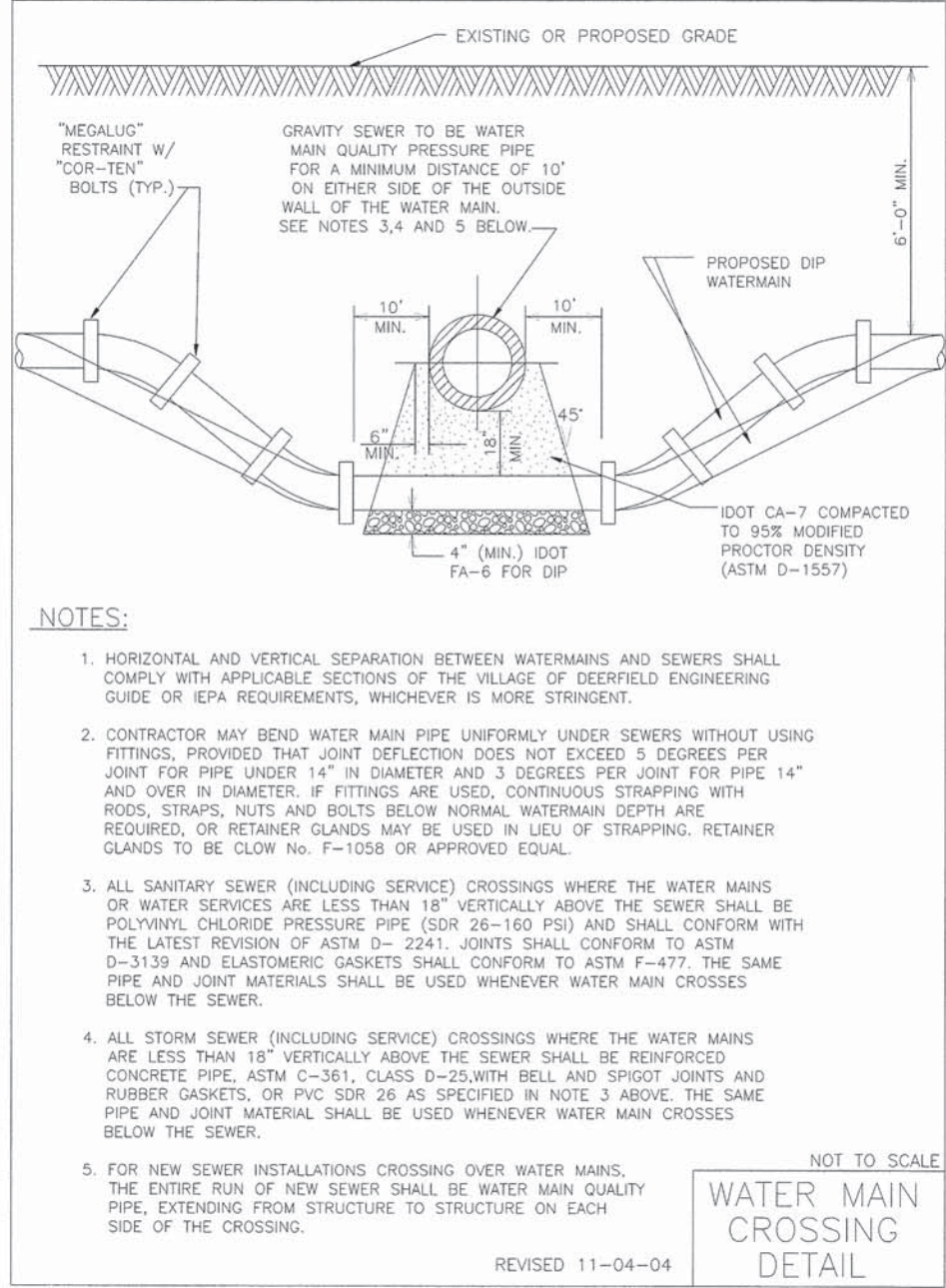
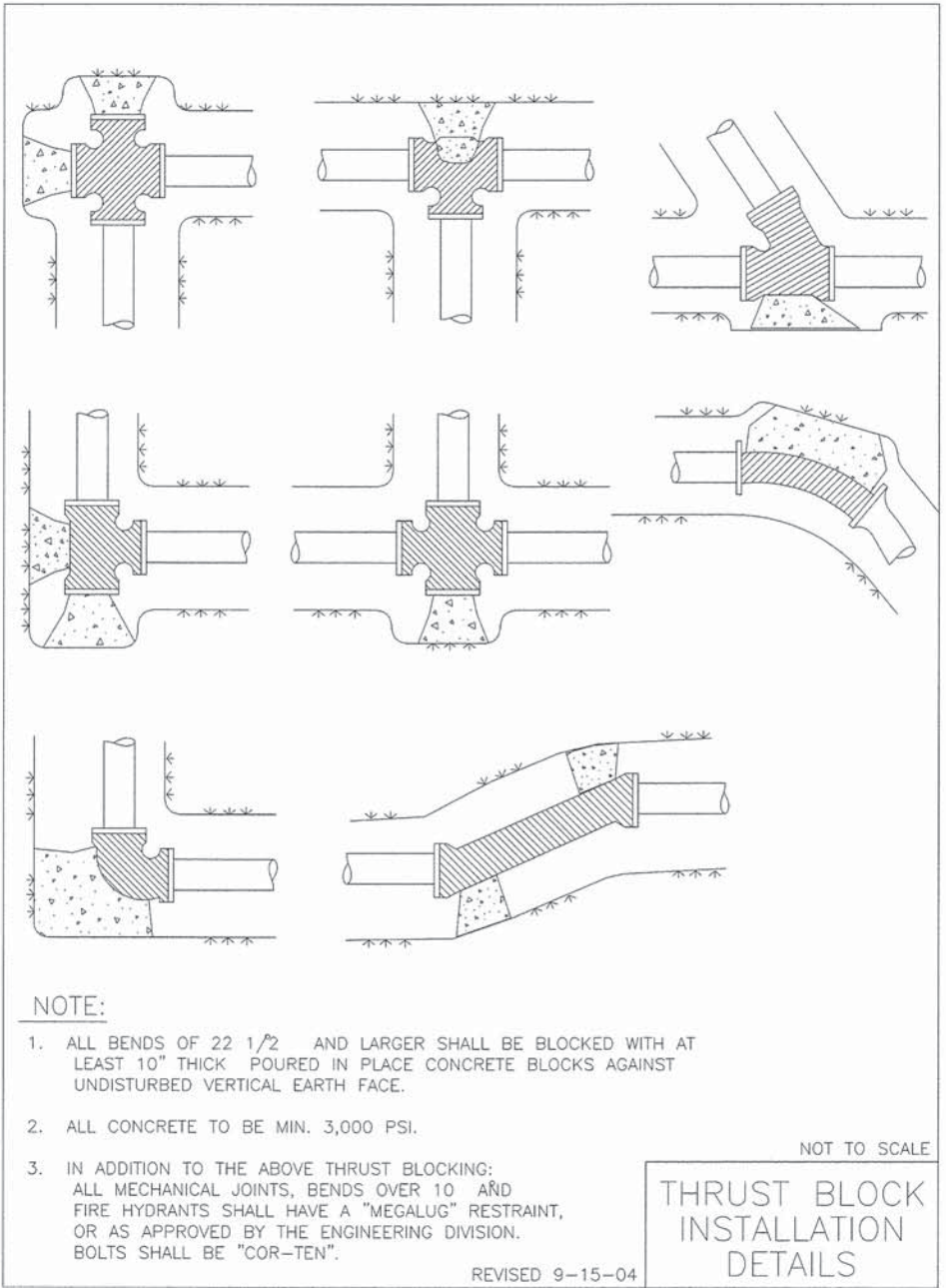
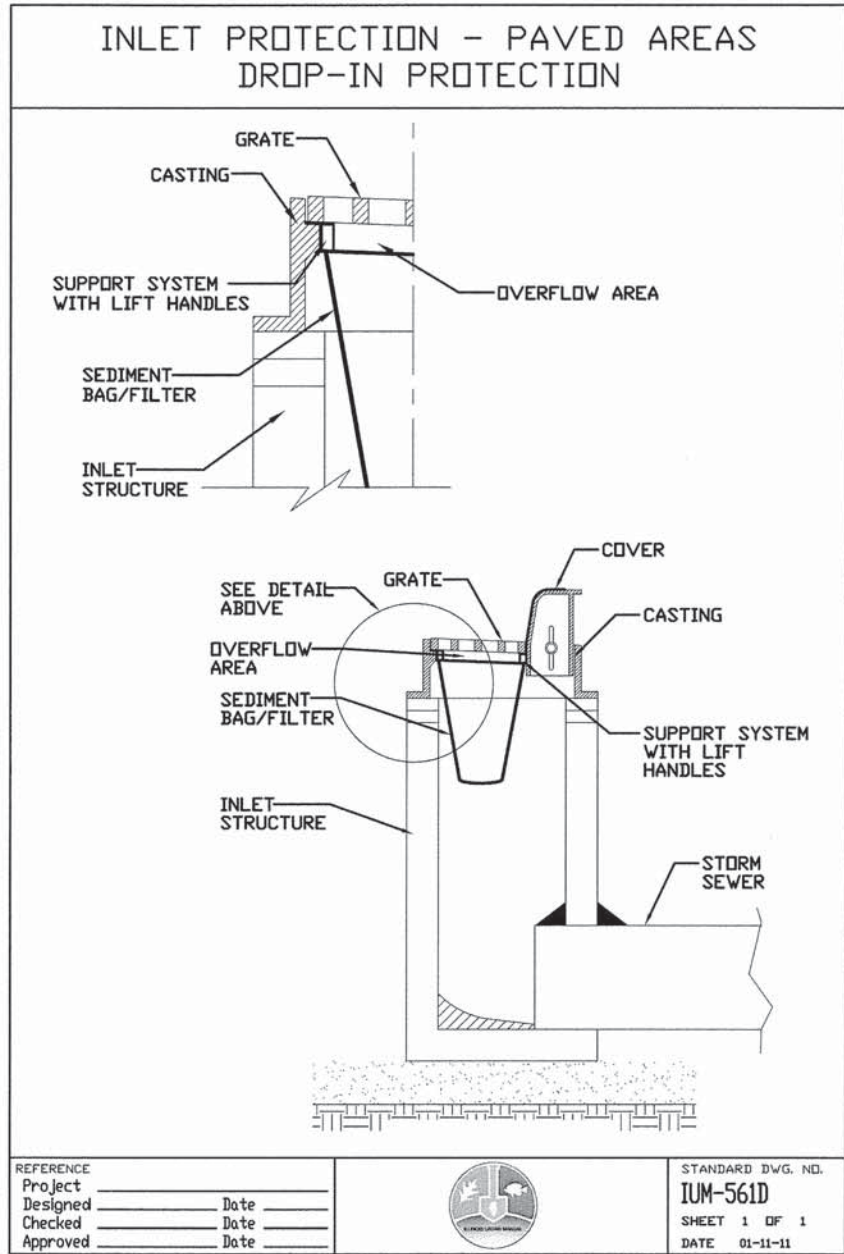
REVISED 11-04-04

USER NAME = jsitrick	DESIGNED - VMR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS DEERFIELD ROAD</b>			F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 248	
PLLOT SCALE = 1"	CHECKED - SNS	REVISED -		SCALE: N.T.S.	SHEET NO. 3 OF 9 SHEETS	STA. -----	TO STA. -----	CONTRACT NO. 63882		ILLINOIS FED. AID PROJECT		
PLLOT DATE = 8/30/2019	DATE -	REVISED -										



PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF DAYS CHECKED	
	ADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF DAYS CHECKED	
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	NO.	

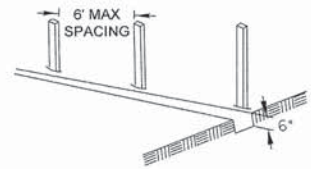


USER NAME = jstrick	DESIGNED - VMR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS DEERFIELD ROAD</b>	F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 249		
PLOT SCALE = 1"	CHECKED - SNS	REVISED -			SCALE: N.T.S.	SHEET NO. 4 OF 9 SHEETS	STA. --- TO STA. ---	CONTRACT NO. 63882			
PLOT DATE = 8/30/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
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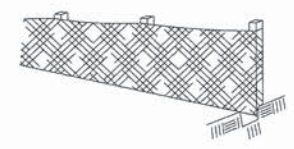
DATE \_\_\_\_\_ BY \_\_\_\_\_  
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 PLAN NOTE BOOK \_\_\_\_\_ AT. OF WAY CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_ CADD FILE NAME \_\_\_\_\_

DATE \_\_\_\_\_ BY \_\_\_\_\_  
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 NO. \_\_\_\_\_ STRUCTURE NOTES COPY

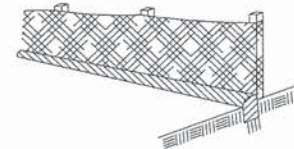
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



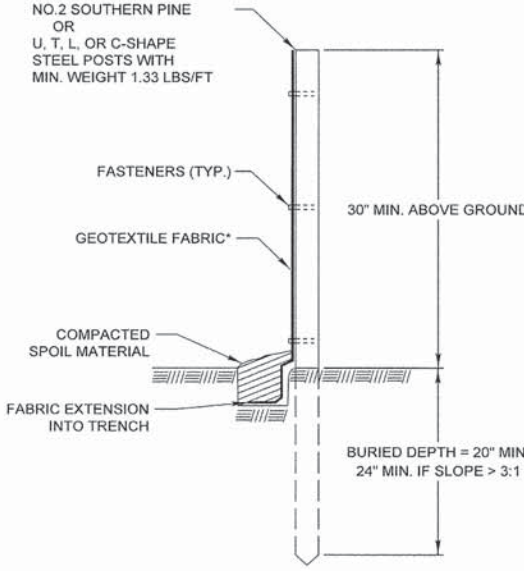
2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH



3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS



POSTS - CHOICE OF:  
 1.2" X 1.2" NOMINAL HARDWOOD POSTS  
 2.6" X 2.6" NOMINAL NO.2 SOUTHERN PINE OR  
 U, T, L, OR C-SHAPE STEEL POSTS WITH MIN. WEIGHT 1.33 LBS/FT



FASTENERS (TYP.)  
 GEOTEXTILE FABRIC\*  
 30" MIN. ABOVE GROUND  
 COMPACTED SPOIL MATERIAL  
 FABRIC EXTENSION INTO TRENCH  
 BURIED DEPTH = 20" MIN.  
 24" MIN. IF SLOPE > 3:1

\* NOTE: OPTIONAL WIRE SUPPORT  
 - MIN. 30" HEIGHT  
 - MIN. 14 GAUGE WIRE  
 - MIN. 6 HORIZ. WIRES  
 - MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

Requirements	Test Methods	Wire Backed Supported Silt Fence*		Unsupported Silt Fence	
		Wire Backed Supported Silt Fence*	Geotextile Elongation >=50% <sup>b</sup>	Geotextile Elongation <50% <sup>b</sup>	Geotextile Elongation <50% <sup>b</sup>
Maximum Post Spacing		4 feet	4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632				
Machine direction		90 lbs	124 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100 lbs	100 lbs
Permittivity <sup>c</sup>	ASTM D 4491	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value			
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure			

REVISIONS	DATE
ORIG. by LCSMC	4/21/08
Update Text	7/15/11

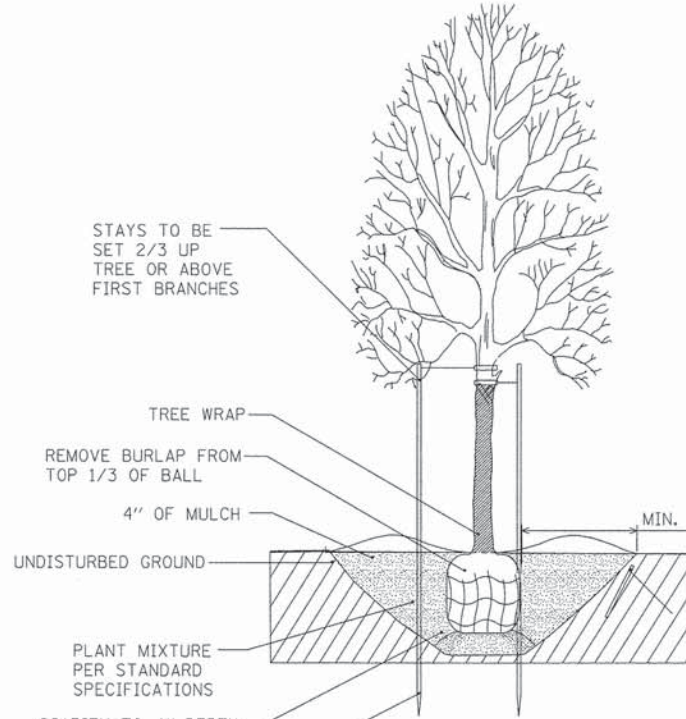
LakeCounty  
 Division of Transportation

APPROVED BY: M. G. ZEMAITIS  
 DATE: JUNE 20, 2008

**PERIMETER EROSION BARRIER INSTALLATION**

LC2051

**PERIMETER EROSION BARRIER**



STAYS TO BE SET 2/3 UP TREE OR ABOVE FIRST BRANCHES

TREE WRAP

REMOVE BURLAP FROM TOP 1/3 OF BALL

4" OF MULCH

UNDISTURBED GROUND

MIN. 2 X BALL DIA.

PLANT MIXTURE PER STANDARD SPECIFICATIONS

SCARIFY TO 4" DEPTH AND RECOMPACT

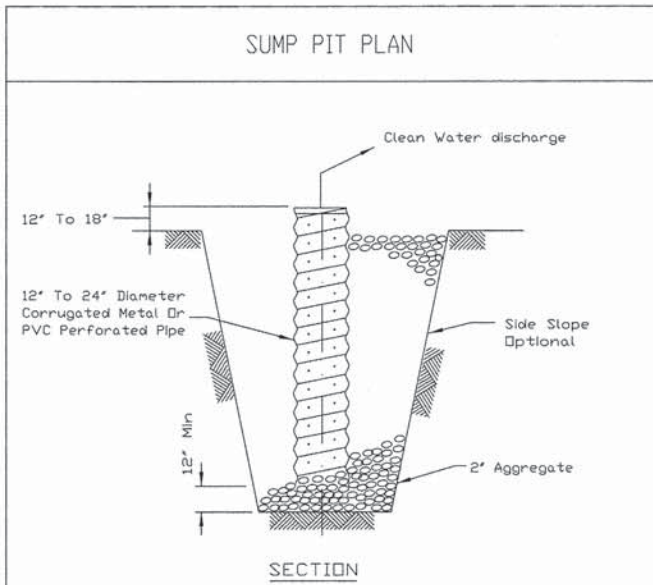
STAKES TO EXTEND BELOW TREE PIT IN UNDISTURBED GROUND

**TREE PLANTING DETAIL**

NOTES:  
 TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE  
 SET STAKES VERTICAL AND AT SAME HEIGHT  
 PRUNE TO THIN AND SHAPE TREE CANOPY

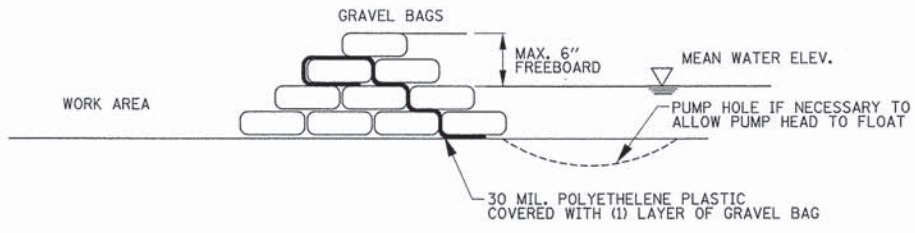
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
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 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 ADJUSTMENT CHECKED: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_  
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 BY: \_\_\_\_\_  
 NO. \_\_\_\_\_

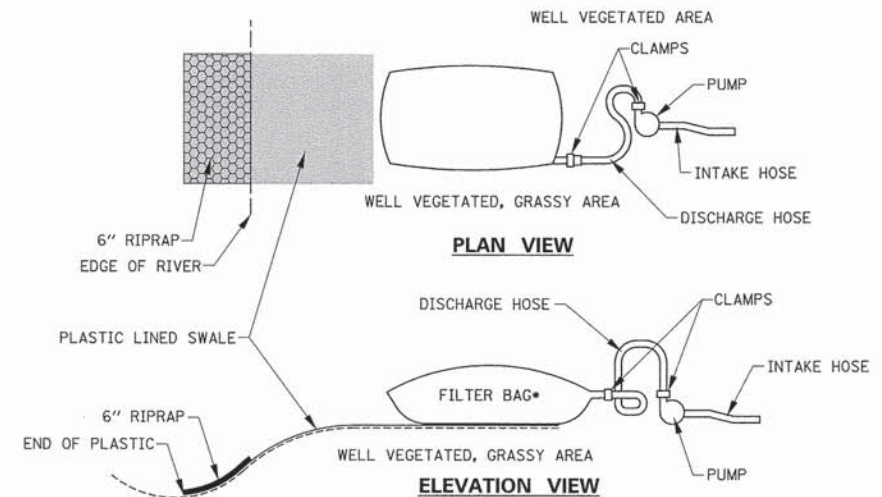


**NOTES:**  
 1. Pit dimensions are optional.  
 2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.  
 3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.  
 4. The standpipe will extend 12" to 18" above the lip of the pit.  
 5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.  
 6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE	Project	Date	STANDARD DWG. NO.
Designed			1L-650
Checked			SHEET 1 OF 1
Approved			DATE 8-11-94



**GRAVEL BAG COFFERDAM**



**PLAN VIEW**  
**ELEVATION VIEW**

FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.

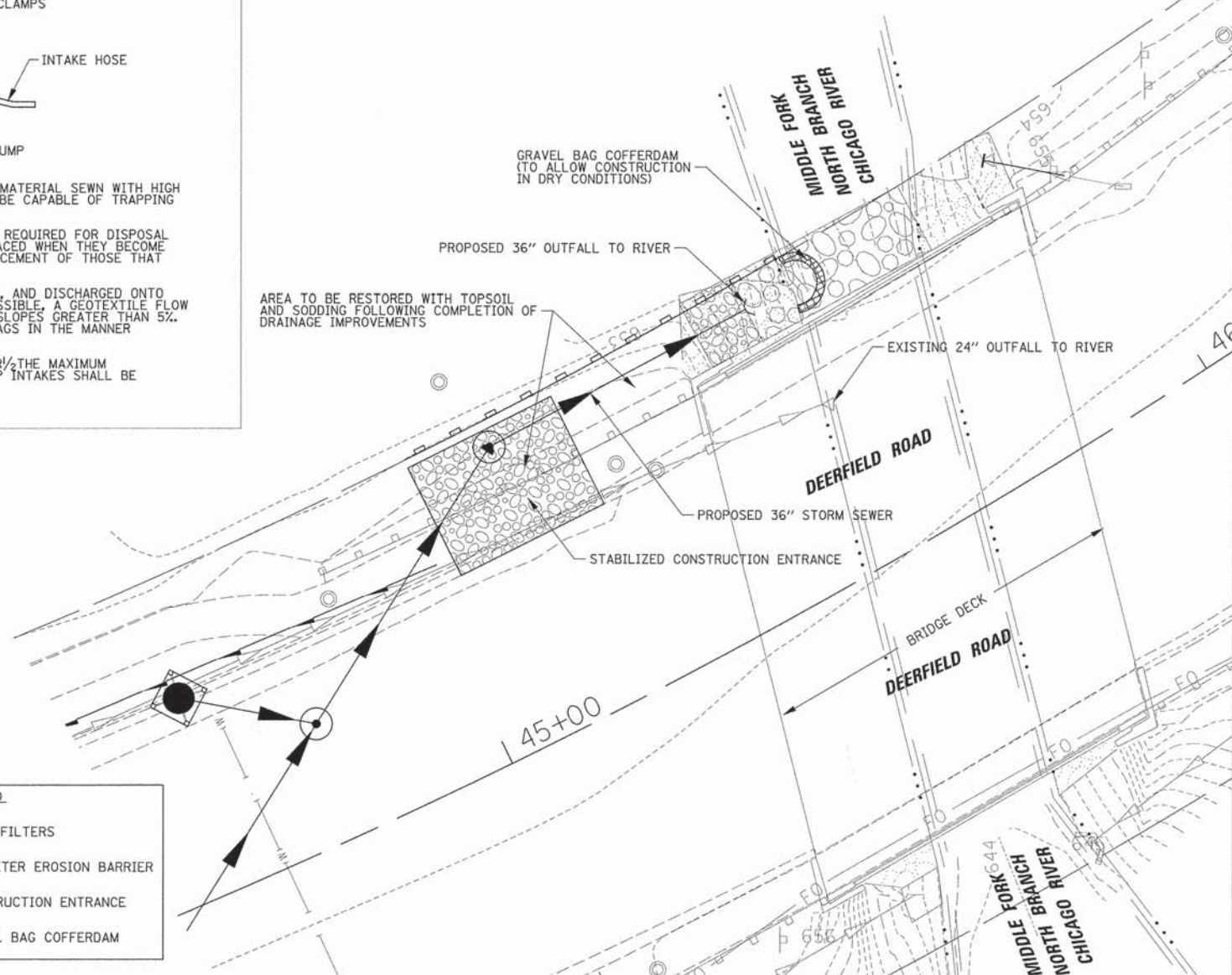
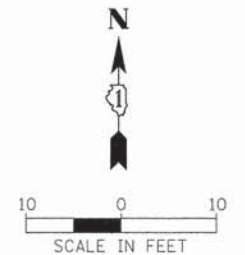
BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGED ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

3/4" GRAVEL SHALL BE USED IN BAGS.

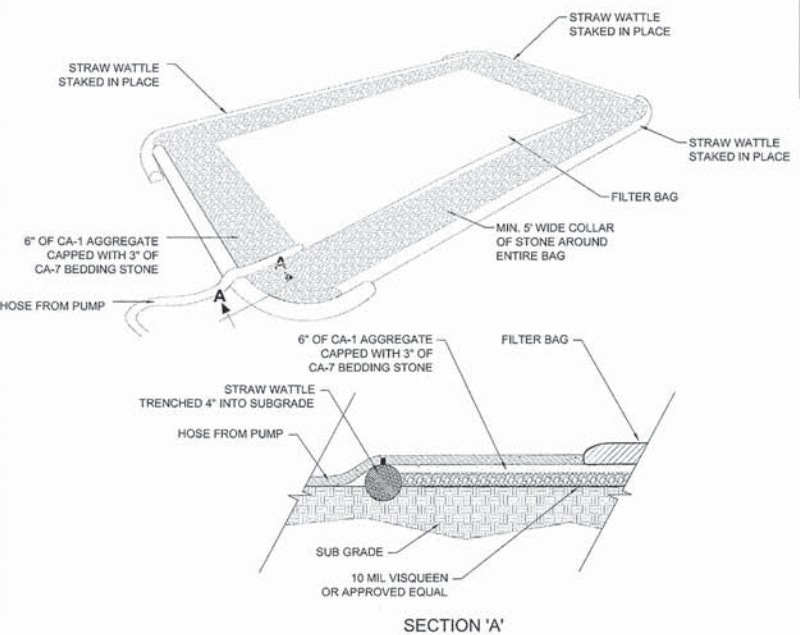
THE COST OF THE COFFERDAM, SUMP PIT, DEWATERING FILTER PAD AND ALL OTHER DEWATERING MEASURES REQUIRED TO CONSTRUCT THE OUTFALL WILL BE INCLUDED IN THE COST OF CONCRETE END SECTIONS, STANDARD 542001, 36", 1:2. STABILIZED CONSTRUCTION ENTRANCE, INLET FILTERS AND PERIMETER EROSION BARRIER WILL BE PAID FOR SEPARATELY.

**SOIL EROSION AND SEDIMENT CONTROL FOR THE MIDDLE FORK OF THE NORTH BRANCH CHICAGO RIVER OUTFALL**



**LEGEND**

- INLET FILTERS
- PERIMETER EROSION BARRIER
- CONSTRUCTION ENTRANCE
- GRAVEL BAG COFFERDAM



**DEWATERING FILTER PAD**

**NOTES:**  
 (1) ACTUAL SIZE AND LAYOUT DETERMINED IN THE FIELD  
 (2) PUMP INTAKE HEAD SHOULD BE FLOATED AT SURFACE OR PLACED IN A STABILIZED SUMP PIT

USER NAME = jstrik	DESIGNED - VMR	REVISED -
PLLOT SCALE = 1/8"	DRAWN -	REVISED -
PLLOT DATE = 8/30/2015	CHECKED - SNS	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

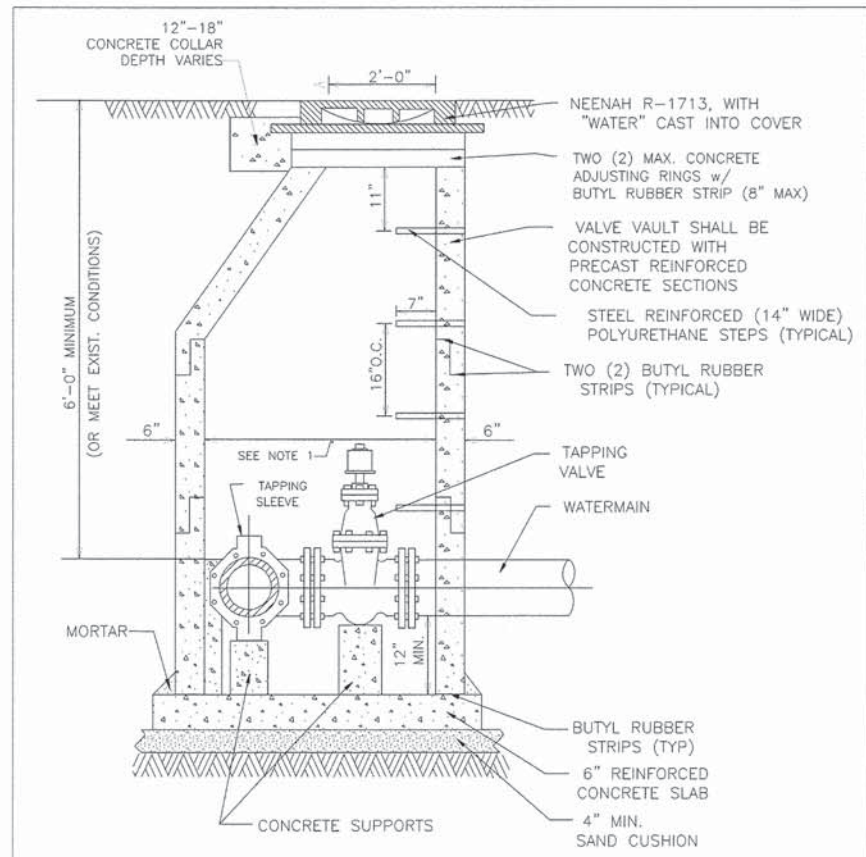
**CONSTRUCTION DETAILS DEERFIELD ROAD**

SCALE: N.T.S. SHEET NO. 7 OF 9 SHEETS STA. ----- TO STA. -----

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	251
				CONTRACT NO. 63882

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

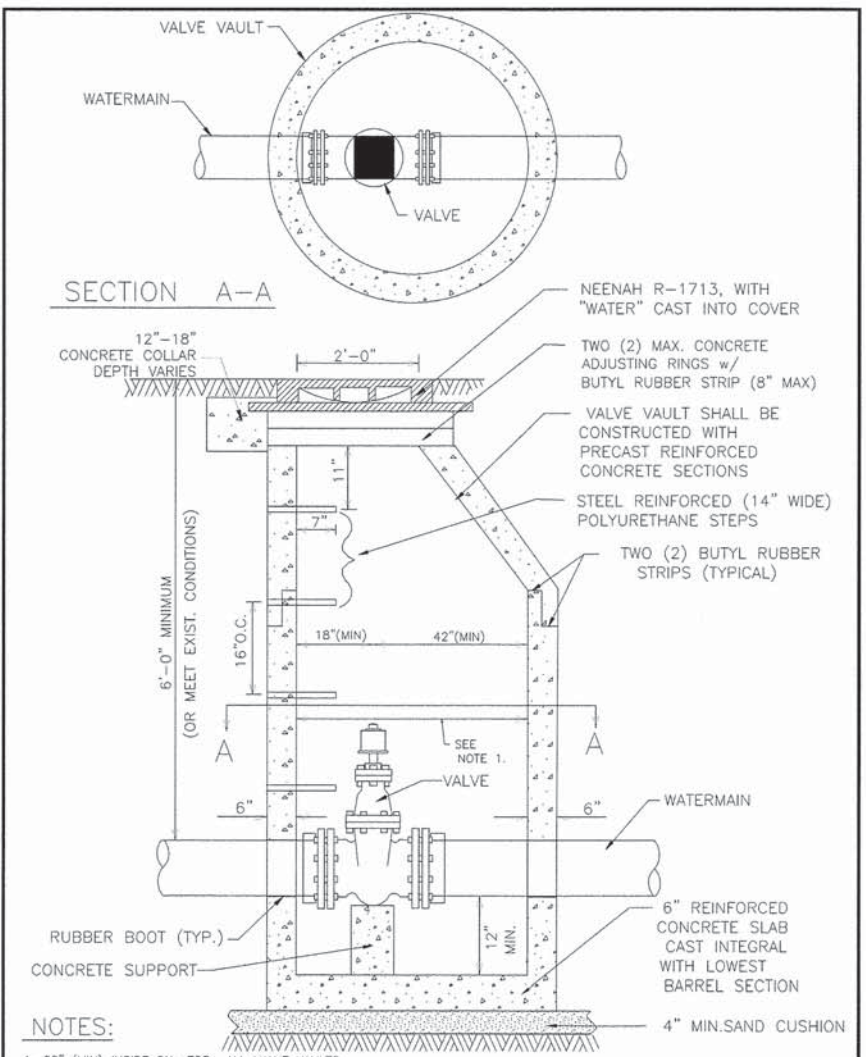
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	



**NOTES:**

- 60" (MIN) INSIDE DIA. FOR ALL PRESSURE CONNECTION VAULTS.
- BACKFILL MATERIAL SHALL BE IDOT CA-7 CRUSHED LIMESTONE
- a) MECHANICAL JOINT BOLTS & NUTS SHALL BE COMPOSED OF CORE-TEN.  
b) ALL OTHER HEXAGONAL BOLTS & NUTS SHALL BE COMPOSED OF STAINLESS STEEL.
- USE ECCENTRIC CONE ONLY.
- VALVE VAULT MUST CONFORM TO ASTM C-478.
- ALL SECTIONS TO BE TONGUE AND GROOVED.
- SMITH BLAIR 665 TAPPING SLEEVE.

NOT TO SCALE  
**PRESSURE CONNECTION DETAIL**  
REVISED 05-25-05



**NOTES:**

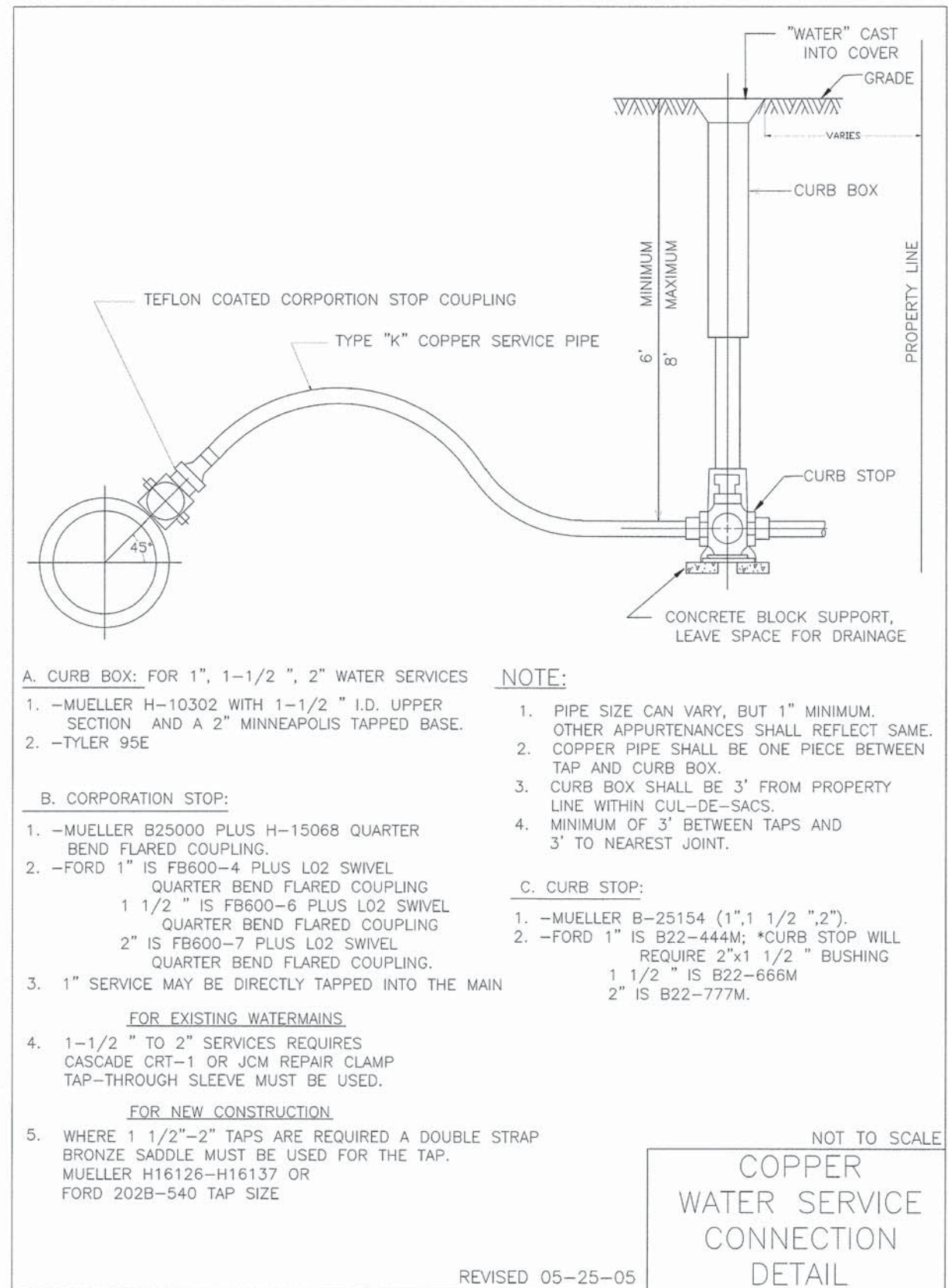
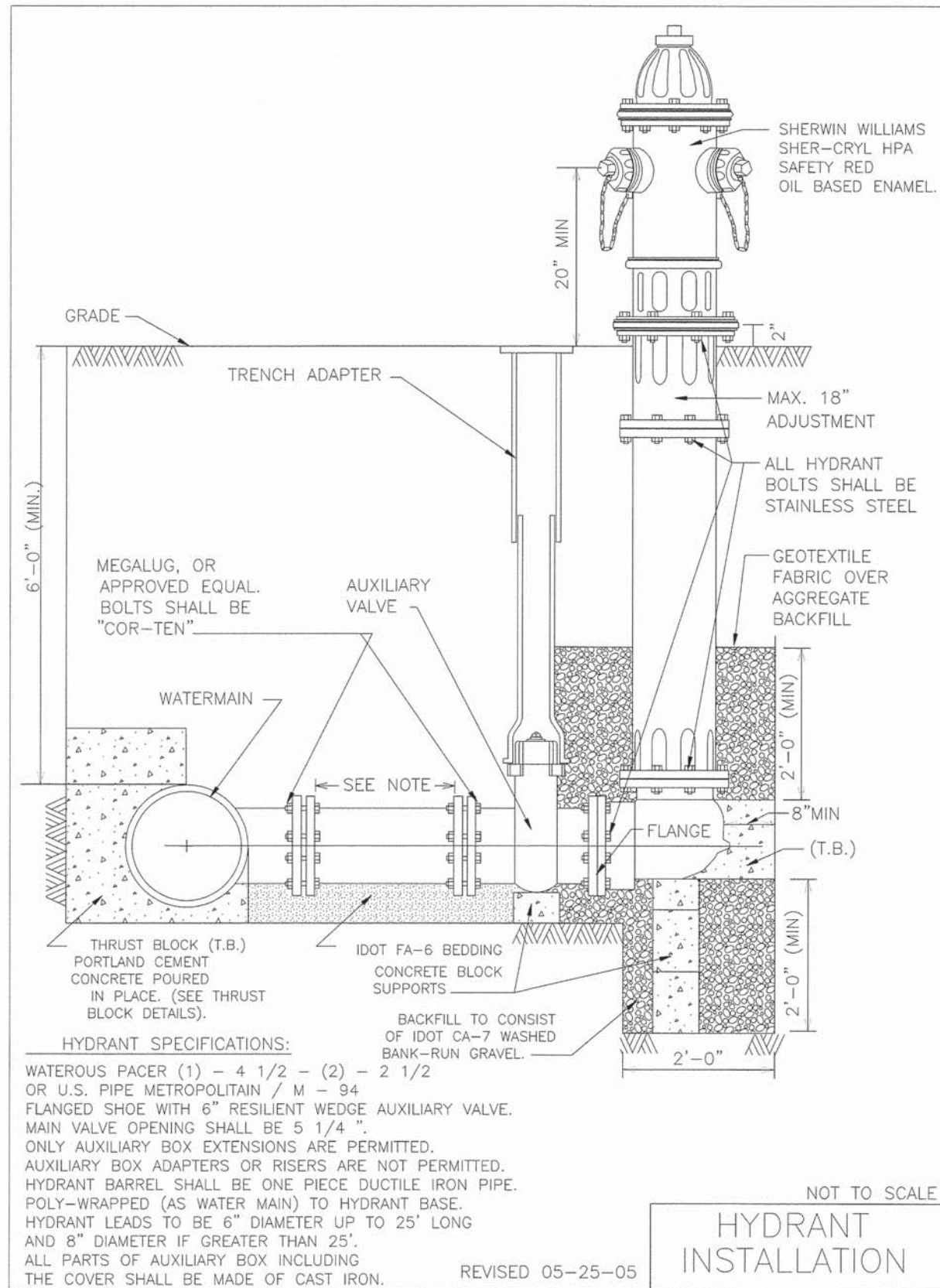
- 60" (MIN) INSIDE DIA. FOR ALL VALVE VAULTS.
- VALVE VAULT MUST CONFORM TO ASTM C-478.
- USE ECCENTRIC CONE ONLY.
- VAULT SECTIONS TO BE TONGUE AND GROOVED.
- NON-PRECAST PIPE OPENINGS TO BE CORED AND RUBBER BOOTS INSTALLED.
- BACKFILL MATERIAL SHALL BE IDOT CA-7 VIRGIN CRUSHED LIMESTONE.
- a) MECHANICAL JOINT BOLTS & NUTS SHALL BE COMPOSED OF CORE-TEN.  
b) ALL OTHER HEXAGONAL BOLTS & NUTS SHALL BE COMPOSED OF STAINLESS STEEL.

NOT TO SCALE  
**VALVE VAULT DETAIL**  
REVISED 05-25-05

USER NAME = jstsrlok	DESIGNED - VMR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS DEERFIELD ROAD</b>		F.A.U. RTE. = 1257	SECTION = 11-00092-00-PV	COUNTY = LAKE	TOTAL SHEETS = 424	SHEET NO. = 252			
PLOT SCALE = 1"	CHECKED - SNS	REVISED -				SCALE: N.T.S.	SHEET NO. 8 OF 9 SHEETS	STA. ----- TO STA. -----	CONTRACT NO. 63882				
PLOT DATE = 6/30/2015	DATE -	REVISED -				ILLINOIS FED. AID PROJECT							
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PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	ADD FILE NAME	

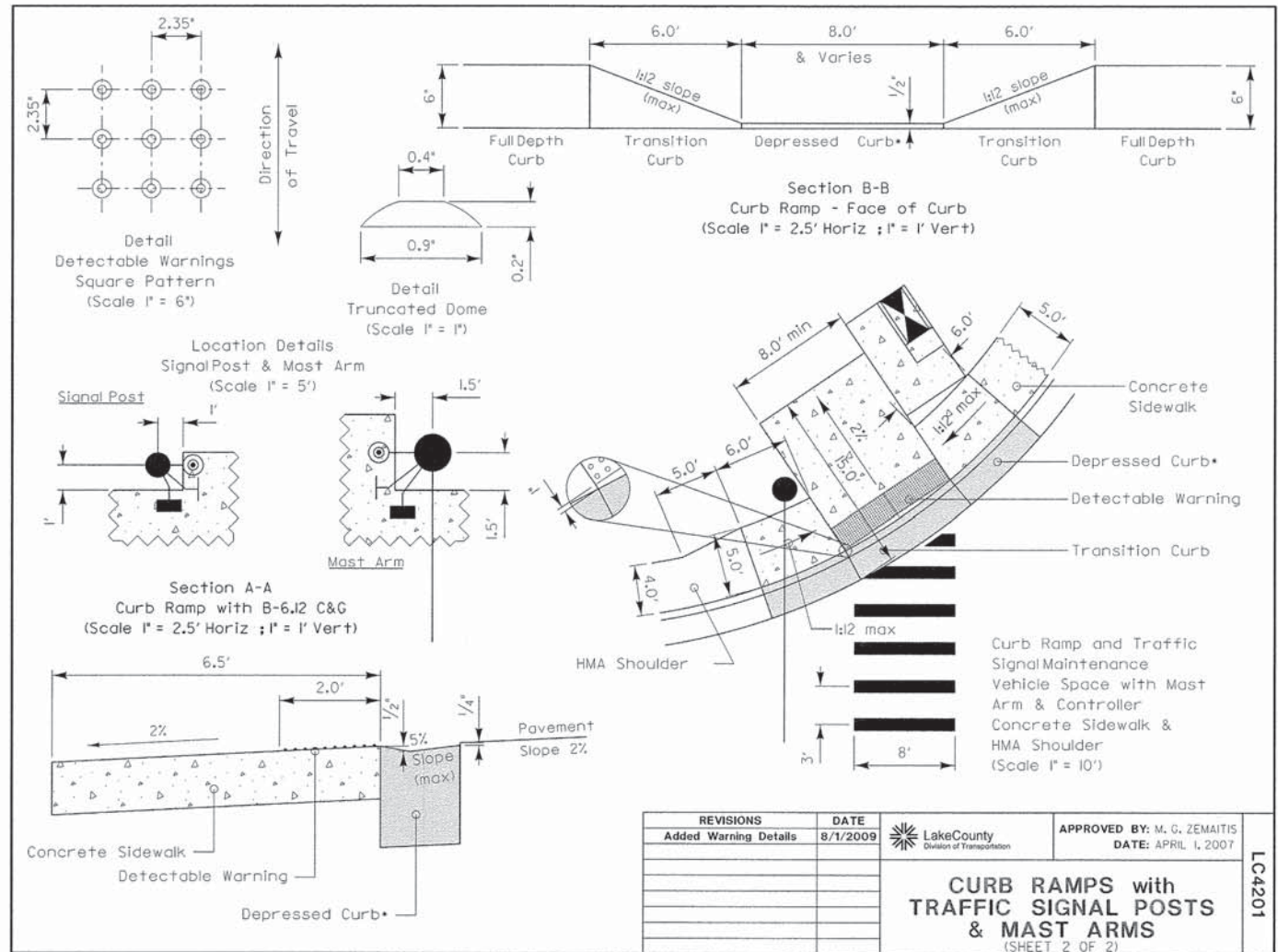
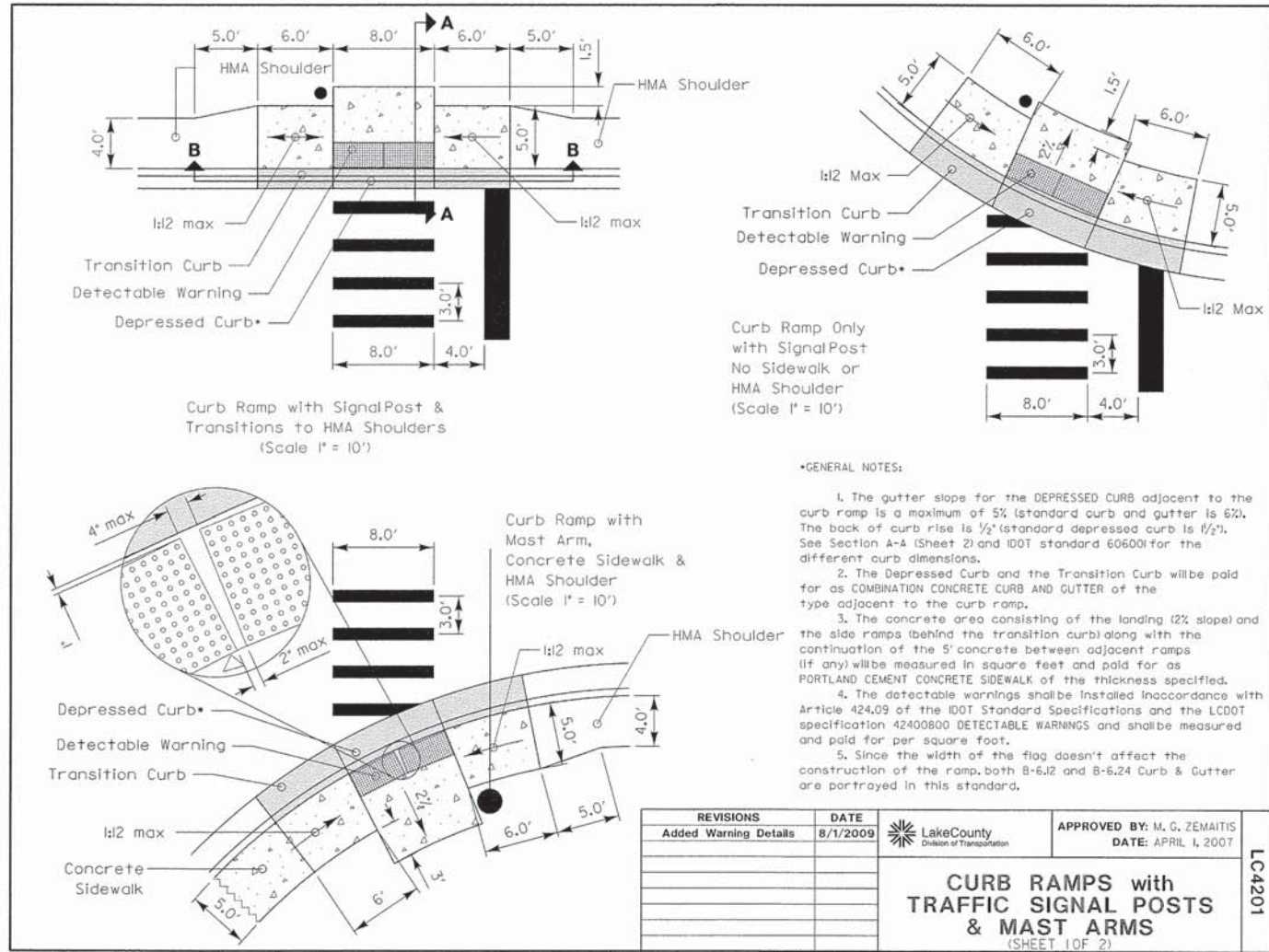
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	STRUCTURE NOTATIONS CH/NO	



USER NAME = jstrik	DESIGNED - VMR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS DEERFIELD ROAD</b>		F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 253
PLOT SCALE = 1"	DRAWN - SNS	REVISED -		SCALE: N.T.S.	SHEET NO. 9 OF 9 SHEETS	STA. ----- TO STA. -----	ILLINOIS FED. AID PROJECT		CONTRACT NO. 63882	
PLOT DATE = 8/30/2015	CHECKED - SNS	REVISED -								
	DATE -	REVISED -								

DATE	BY
REVIEWED	PLANNED
PLANNED	PLANNED
ALIGNMENT CHECKED	ALIGNMENT CHECKED
NOTE BOOK	NOTE BOOK
NO.	NO.
CADD FILE NAME	CADD FILE NAME

DATE	BY
REVIEWED	PLANNED
PLANNED	PLANNED
GRADES CHECKED	GRADES CHECKED
NOTE BOOK	NOTE BOOK
NO.	NO.
STRUCTURE NOTATIONS CHNO	STRUCTURE NOTATIONS CHNO



USER NAME = jsitrick	DESIGNED - VMR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LAKE COUNTY DOT STANDARDS DEERFIELD ROAD</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1"	CHECKED - SNS	REVISED -		SCALE: N.T.S.	SHEET NO. 1	OF 7	SHEETS	1257	11-00092-00-PV	LAKE	424	254
PLOT DATE = 8/30/2015	DATE -	REVISED -		STA. -----	TO STA. -----		CONTRACT NO. 63882	ILLINOIS FED. AID PROJECT				

PLAN	SERIALIZED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO. _____	
	FILE NAME	

PROFILE	SERIALIZED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO. _____	
	FILE NAME	

**PLAN VIEW** **PREFAB PORTABLE WASHOUT**

**SECTION A-A**

**SECTION B-B**

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE

LakeCounty  
Division of Transportation

APPROVED BY: MGZ  
DATE: March 17, 2008

**CONCRETE WASHOUT FACILITIES**  
SHEET 1 OF 2

LC4202

**PLAN VIEW** **ABOVE GRADE** **SECTION C-C**

**PLAN VIEW** **ABOVE GRADE WITH STRAW BALES** **SECTION D-D**

**STAPLE DETAIL**

**CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)**

NOTES:

- ACTUAL LAYOUT DETERMINED IN FIELD.
- OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE

LakeCounty  
Division of Transportation

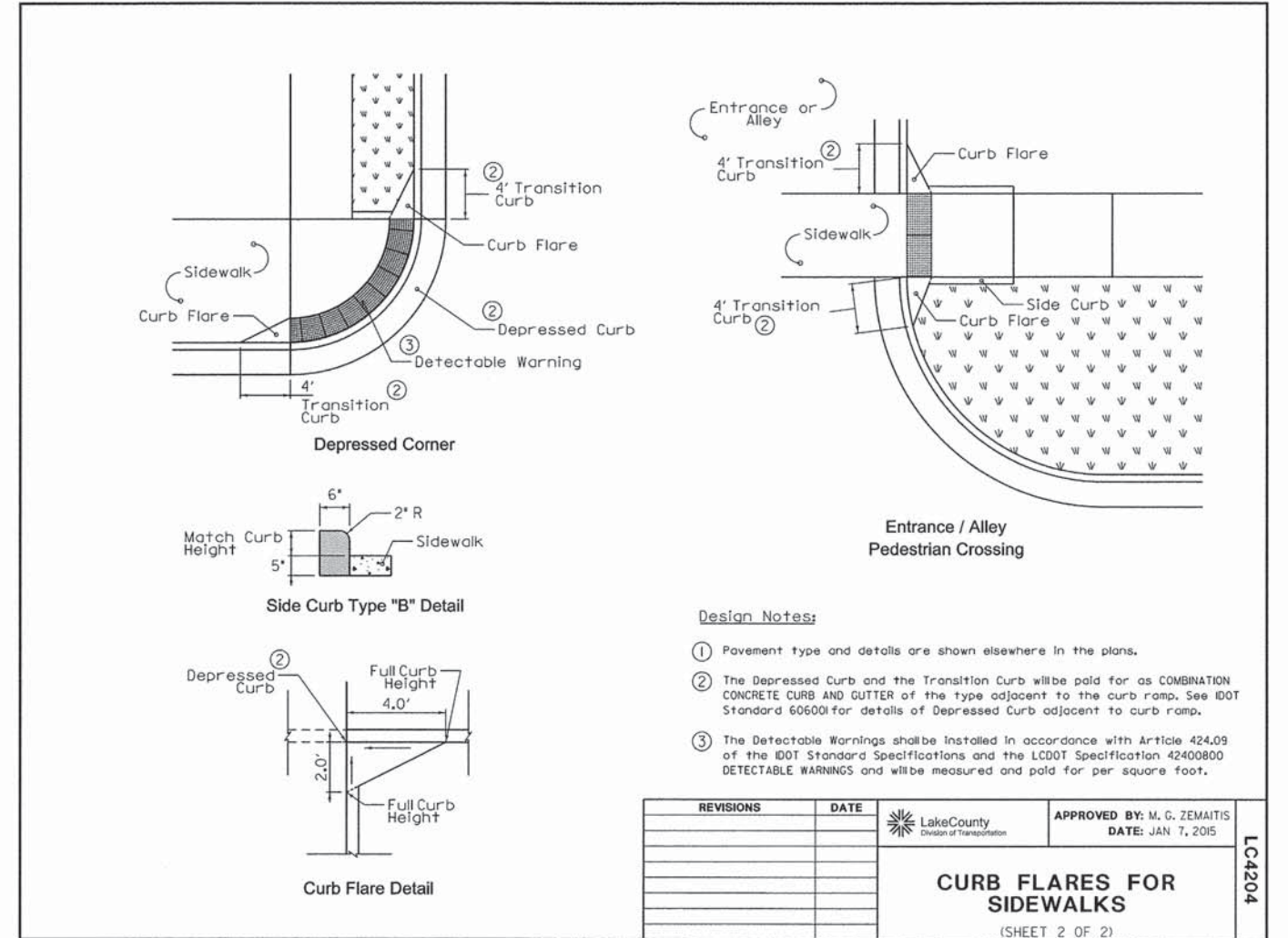
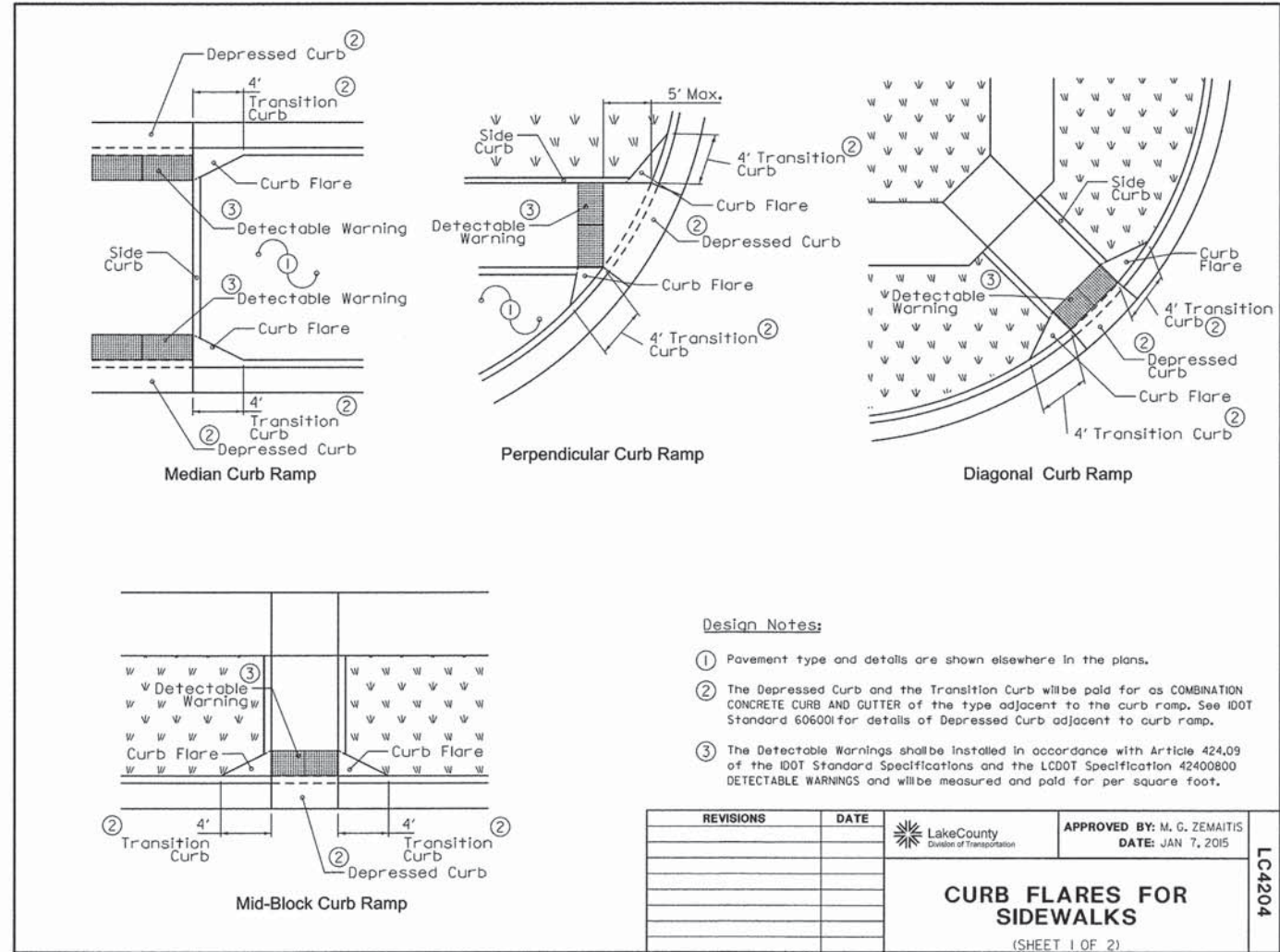
APPROVED BY: MGZ  
DATE: March 17, 2008

**CONCRETE WASHOUT FACILITIES**  
SHEET 2 OF 2

LC4202

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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	NO.	
	DATE	



USER NAME = jsitriak	DESIGNED - VMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LAKE COUNTY DOT STANDARDS DEERFIELD ROAD	F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 256		
PLOT SCALE = 1"	CHECKED - SNS	REVISED -			SCALE: N.T.S.	SHEET NO. 3 OF 7 SHEETS	STA. -----	TO STA. -----	CONTRACT NO. 63882		
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FILE NAME = N:\Deerfield\128414\Civil\DOT.LC.128414_03.SHT											



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	FILE NAME	

**EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)**

(TONGUE & GROOVE PIPE) LONGITUDINAL SECTION

(MODIFIED BELL PIPE) LONGITUDINAL SECTION

EYE BOLT

EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

**EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)**

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. JOINT TIES AND HARDWARE SHALL BE GALVANIZED STEEL.

CONCRETE CULVERT PIPE AND SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT THE LAST THREE JOINTS BEFORE A FLARED END SECTION.

THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR CONCRETE PIPE.

UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS OR STORM SEWERS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR GALVANIZED STEEL JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

- 1/2" OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM E OF TONGUE AND GROOVE.
- BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".
- OPENING TO BE ROD DIAMETER + 1 INCH.
- LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.

**EYE BOLT DIMENSION TABLE**

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/2"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

**ADJUSTABLE TIE ROD TABLE**

PIPE DIA. (DIAMETER)	TIE ROD DIA. (DIAMETER)	L1	L2	N
12-60	3/4"	3/4"	5	1/2
66-84	3/4"	3/4"	5	1/2
90-108	1"	1"	7	1 1/4

NOT TO SCALE

**JOINT TIES FOR CONCRETE PIPE**

REVISIONS

NO.	DESCRIPTION	DATE	BY	REVISION

APPROVED BY: M. ZEMAITIS  
DATE: 04/07/13

**TYPICAL PIPE DRAIN/ PIPE UNDERDRAIN OUTLET**

LONGITUDINAL SLOPE OF PAVEMENT

DITCH LINE OR TOE OF SLOPE

PLUGGED END

PROP PD/PU

0.20% MIN. SLOPE

SEE CURB & GUTTER SUBGRADE OPTIONS LAKE COUNTY DETAIL # LC3000.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

SECTION A-A

PD/PU SHALL NOT PROJECT INTO CULVERT MORE THAN 1" AND SHALL FIT TIGHT TO KEEP MORTAR OUT OF CULVERT.

0.20% MIN. SLOPE

**DESIGN NOTES:**

All work shall be according to the applicable portions of the "Standard Specifications" except as modified hereon.

In addition to the requirements of Article 601.08 of the "Standard Specifications", the contract unit price per foot for pipe drains 4" & 6" and pipe underdrains 4" shall include the cost of furnishing and placing the rodent shield.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance with AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the Engineer.

PLACE 1'-4" SQUARE x 6" CONCRETE COLLAR AT OUTLET END OF PD/PU OR STUB INTO CONCRETE DRAINAGE STRUCTURE OR CULVERT - COST SHALL BE INCIDENTAL TO PD/PU

4:1 & VAR.

1:1 SLOPE

(2 LF FOR 4" PIPE)  
(3 LF FOR 6" PIPE)

4 1/2" FOR 4" PIPE  
6 1/2" FOR 6" PIPE

3/16" WIRE STOCK BENT TO A SPIRAL CONFIGURATION. TO INSTALL, TWIST INTO PD/PU END. (FOR CORRUGATED CIRCULAR METAL PIPE)

TACK WELD

TACK WELD

6"x6" EXPANDED METAL SHIELD WITH TWO 2'-6" LONG PREFABRICATED 6 GAGE STEEL STRUTS FOR SNUG FIT INTO THE PD/PU END.

**RODENT SHIELDS DETAIL (ALTERNATES) NOT TO SCALE**

FIELD CUT HOLE IN CULVERT FOR PIPE

DETAIL C

PIPE DRAIN (PD)  
PIPE UNDERDRAIN (PU)

P.C.C. GROUT

CULVERT, DRAINAGE STRUCTURE OR HANDHOLE

**ADJUSTABLE TIE ROD TABLE**

PIPE DIA. (DIAMETER)	TIE ROD DIA. (DIAMETER)	L1	L2	N
12-60	3/4"	3/4"	5	1/2
66-84	3/4"	3/4"	5	1/2
90-108	1"	1"	7	1 1/4

NOT TO SCALE

**JOINT TIES FOR CONCRETE PIPE**

REVISIONS

NO.	DESCRIPTION	DATE	BY	REVISION

APPROVED BY: M. ZEMAITIS  
DATE: 04/07/13

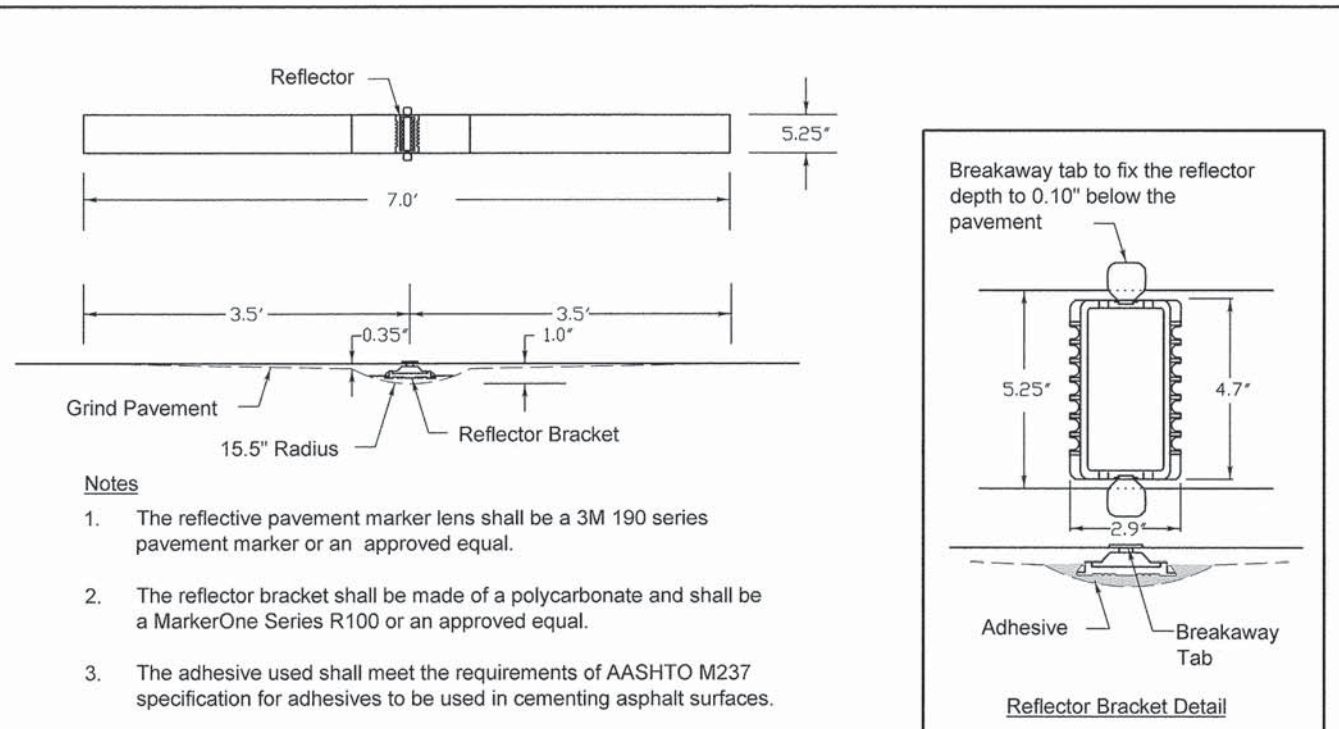
**REVISIONS**

NO.	DESCRIPTION	DATE
1	Pipe Drain Added to Labels	5/19/2009
2	Revised Type A to Type B Aggregate	12/20/12
3	Removed HMA Shldr & Agg	11/20/13

APPROVED BY: M. G. ZEMAITIS  
DATE: APRIL 1, 2007

PLAN	SURVEYED	BY	DATE
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	CHECKED		
	NO. OF		
	REVISIONS		
	ADD FILE NAME		

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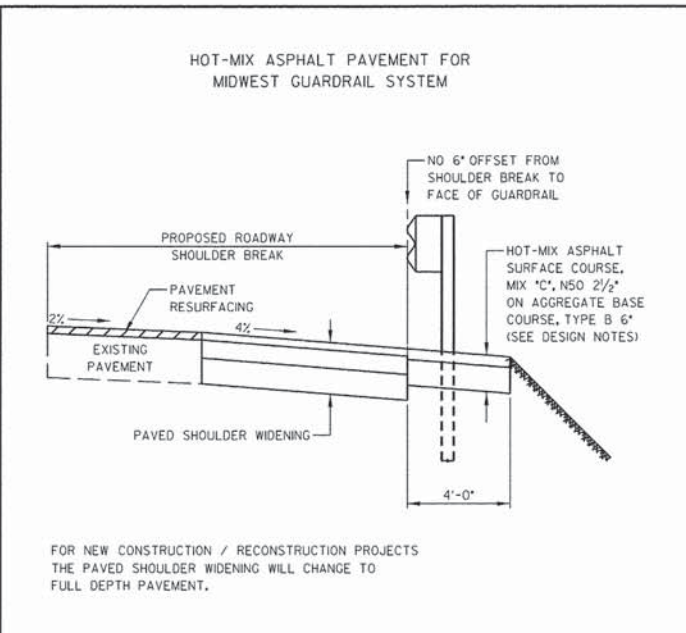
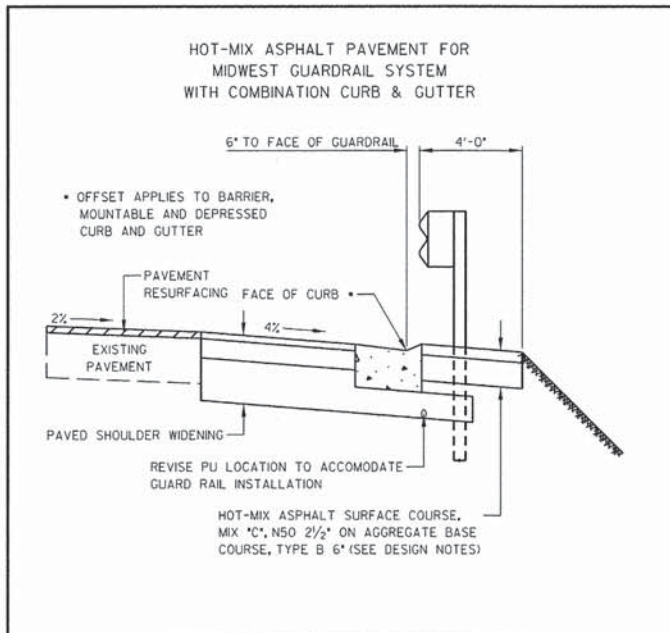


- Notes**
1. The reflective pavement marker lens shall be a 3M 190 series pavement marker or an approved equal.
  2. The reflector bracket shall be made of a polycarbonate and shall be a MarkerOne Series R100 or an approved equal.
  3. The adhesive used shall meet the requirements of AASHTO M237 specification for adhesives to be used in cementing asphalt surfaces.
  4. Markers shall be placed at 40' intervals on lane lines and painted medians and 40' intervals on curves and approaching intersections as shown on LCDOT standard LC7800.

REVISIONS	DATE	APPROVED BY: JN	DATE: 12/02/13

**RECESSED REFLECTIVE PAVEMENT MARKER**

LC7805



**DESIGN NOTES:**  
 THIS DETAIL SUPPLEMENTS IDOT STANDARD 630301-06 ADDING HMA SURFACE COURSE AND AGGREGATE BASE COURSE UNDER THE GUARDRAIL AND TRAFFIC BARRIER TERMINALS.

IF THE HMA PAVEMENT UNDER THE GUARDRAIL AND TRAFFIC BARRIER TERMINAL IS BEING CONSTRUCTED IN CONJUNCTION WITH A ROAD IMPROVEMENT, THE HOT-MIX ASPHALT SURFACE COURSE SHALL BE THE SAME AS THAT USED ON THE ROADWAY.

REVISIONS	DATE	APPROVED BY: MGZ	DATE: 04/01/2013

**HMA PAVEMENT UNDER GUARDRAIL AND TRAFFIC BARRIER TERMINALS**

LC6304

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CHECKED	
APPROVED	
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### TYPICAL PAVEMENT MARKINGS

**DESIGN SPEED (MPH)**

40	50
60	70
80	100

**WHITE LINE WIDTH:** 4" FOR ALL TYPES OF PAVEMENT MARKINGS UNLESS OTHERWISE SPECIFIED.

### TYPICAL PAVEMENT MARKINGS AND RECESSED PAVEMENT MARKERS

#### MINIMUM TRANSITION ZONE LENGTH

POSTED SPEED (MPH)	LENGTH (FT)
15	150
20	200
25	250
30	300
35	350
40	400
45	450
50	500
55	550
60	600

#### LOCATION OF PAVT MARKINGS

POSTED SPEED (MPH)	LOCATION OF PAVT MARKINGS
15	150 FT FROM BEGINNING OF TRANSITION ZONE
20	200 FT FROM BEGINNING OF TRANSITION ZONE
25	250 FT FROM BEGINNING OF TRANSITION ZONE
30	300 FT FROM BEGINNING OF TRANSITION ZONE
35	350 FT FROM BEGINNING OF TRANSITION ZONE
40	400 FT FROM BEGINNING OF TRANSITION ZONE
45	450 FT FROM BEGINNING OF TRANSITION ZONE
50	500 FT FROM BEGINNING OF TRANSITION ZONE
55	550 FT FROM BEGINNING OF TRANSITION ZONE
60	600 FT FROM BEGINNING OF TRANSITION ZONE

### TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

#### DIAGONAL SPACING

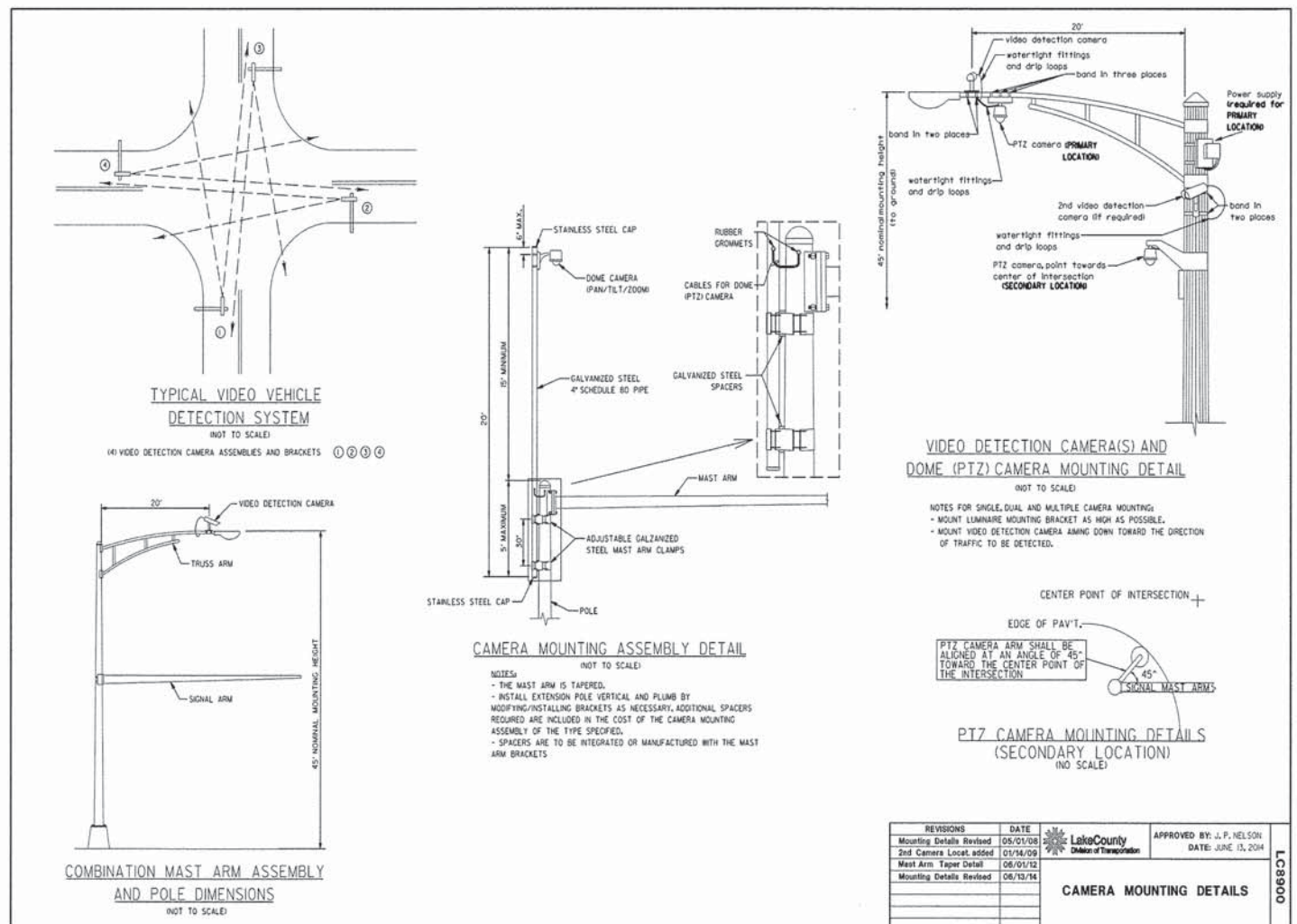
SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT	25 FT
OVER 45 MPH	60 FT	30 FT

#### PAVEMENT MARKING GUIDELINES

TYPE OF MARKING	MIN. OF LINES	PATTERN	COLOR	SPACING / SPACING / SPACING
CENTRAL LINE OF 2-LANE ROAD	4	SOLID	YELLOW	60 FT. LINE WITH 30 FT. SPACE
NO PARKING ZONE LINES	4	SOLID	YELLOW	5 FT. IN C-C WITH 20 FT. GAP
STOP LINES	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
STOP BARS	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
PAINTED MEDIAN	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
EDGE LINES	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
TURN LANE MARKINGS	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
CROSSWALK	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
STOP BARS	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
PAINTED MEDIAN	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
EDGE MARKING AND CHANNELING LINES	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
S&L CROSSING	2	SOLID	WHITE	MIN. 5 FT. FROM CURB
SHOULDER MARKINGS	2	SOLID	WHITE	MIN. 5 FT. FROM CURB

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADINGS CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	
	NOTE BOOK	
	ADD FILE NAME	

PROFILE	SURVEYED	DATE
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	NOTE BOOK	



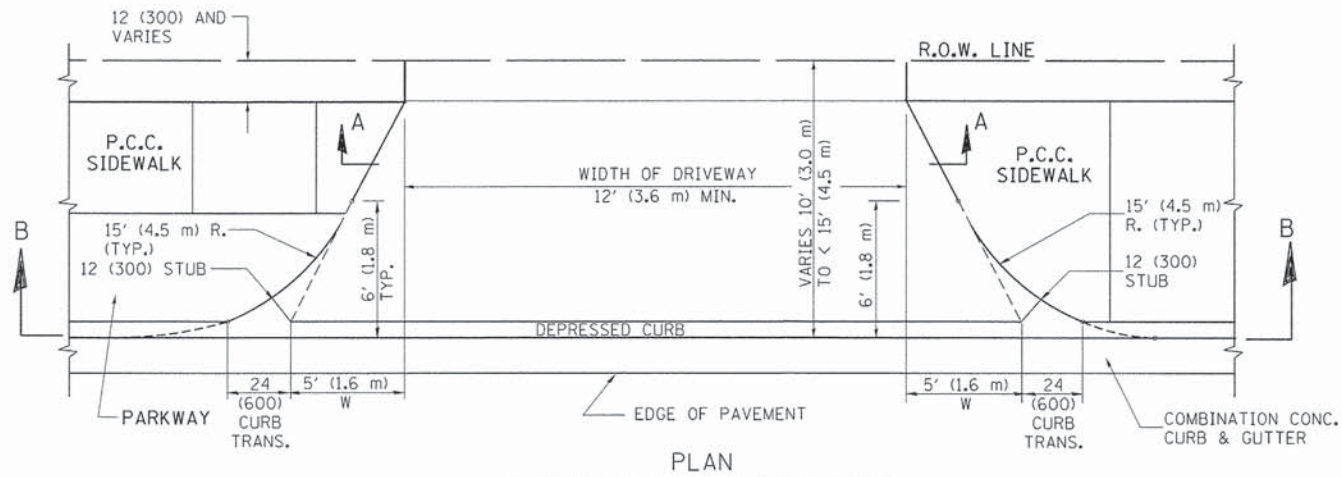
REVISIONS	DATE	APPROVED BY: J. P. NELSON
Mounting Details Revised	05/01/08	DATE: JUNE 13, 2014
2nd Camera Local added	01/14/09	
Mast Arm Taper Detail	06/01/12	
Mounting Details Revised	06/13/14	

REVISIONS / REMARKS	DATE	BY	DATE	BY	DATE	BY	DATE

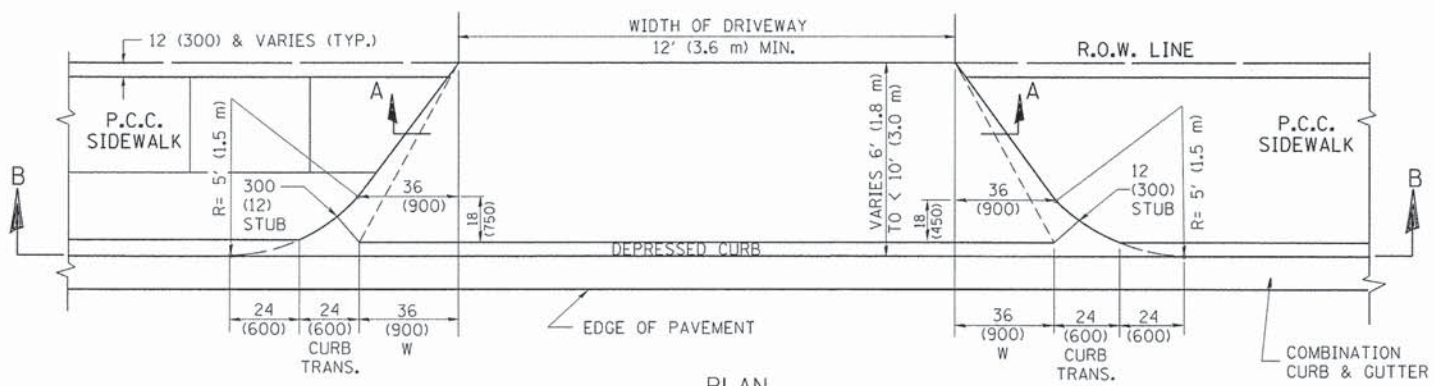
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 ROUTE SECTION: CHXXXXX XX-XXXX-XX-XX  
 SHEET SHEETS: XXX XXX

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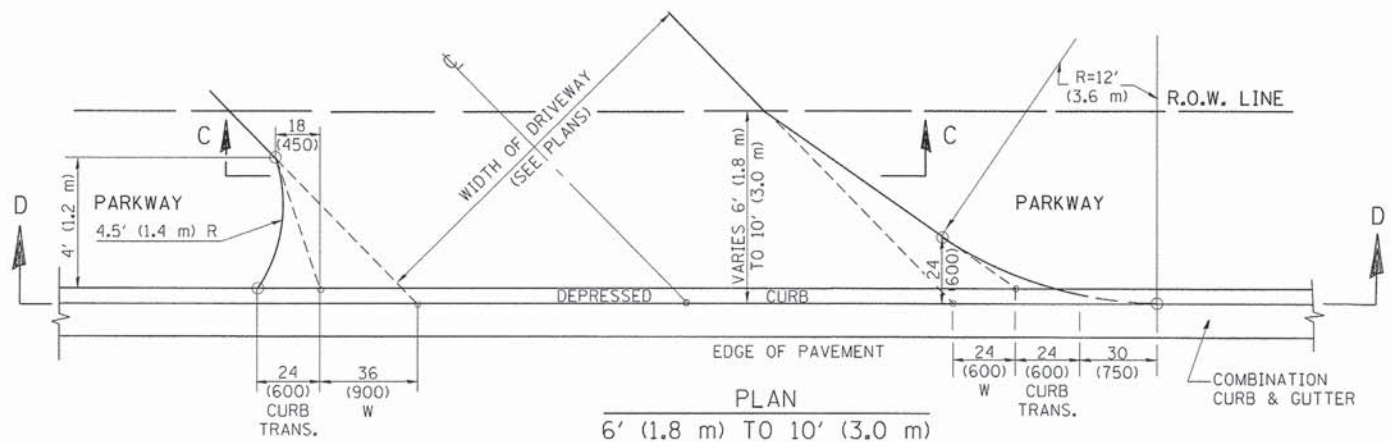
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PLOT DATE = 8/30/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
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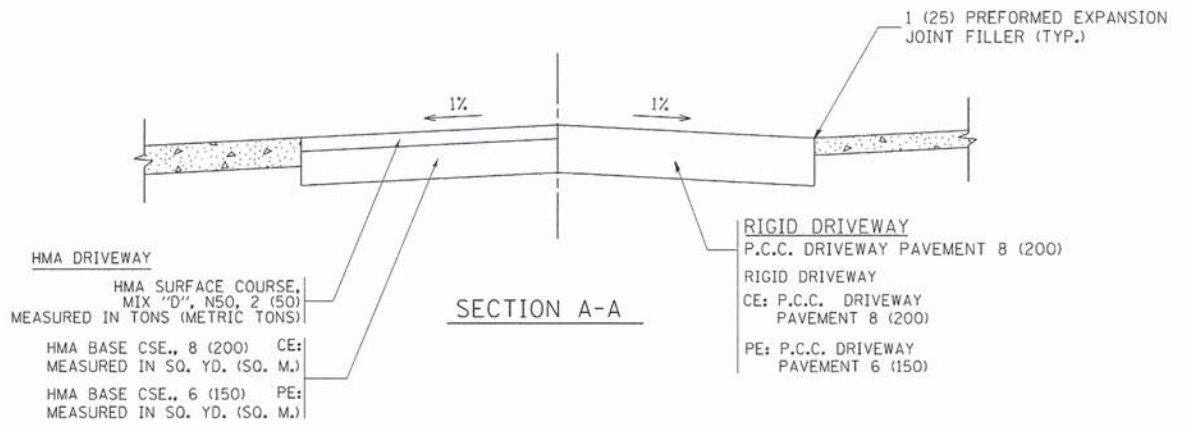
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10' (3.0 m) TO < 15' (4.5 m)



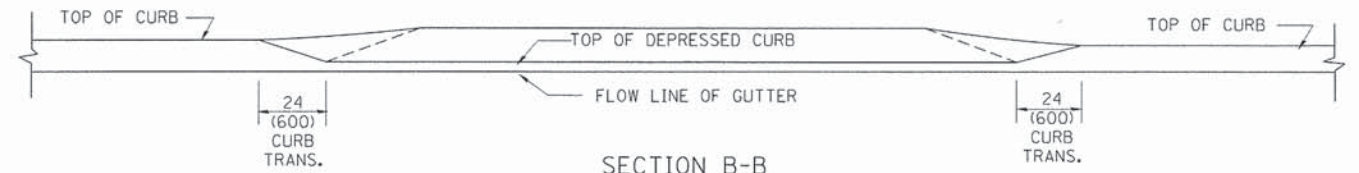
PLAN  
6' (1.8 m) TO < 10' (3.0 m)



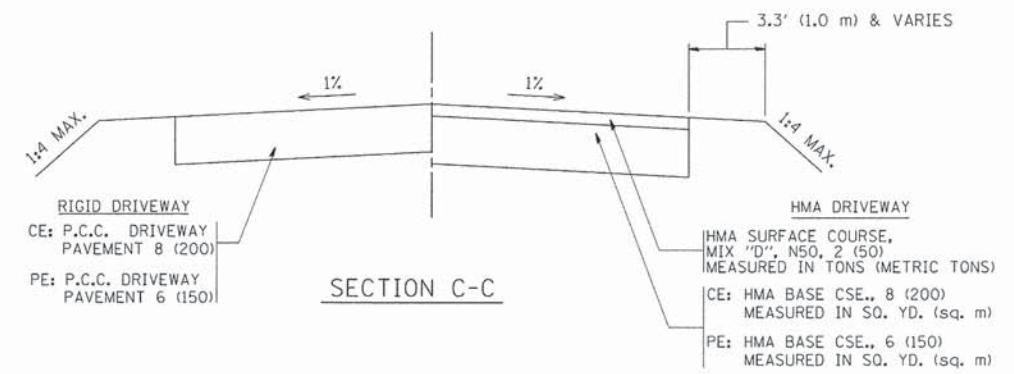
PLAN  
6' (1.8 m) TO 10' (3.0 m)



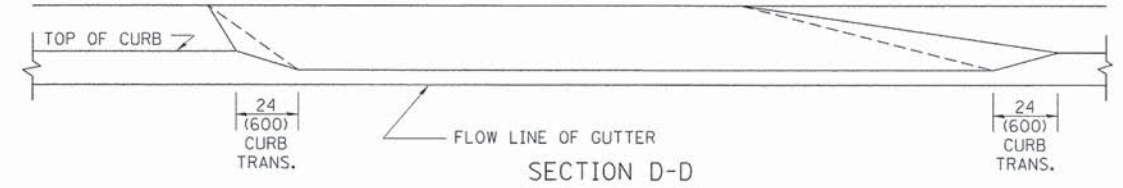
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

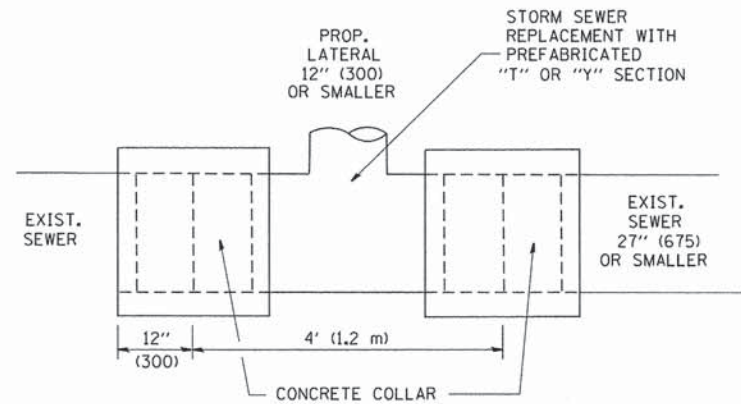
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS  
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

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

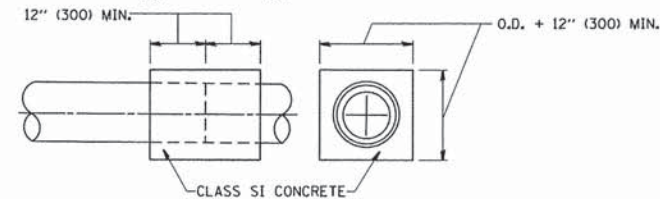
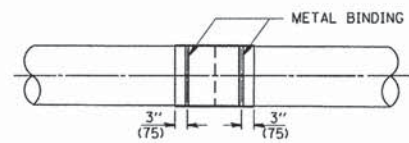
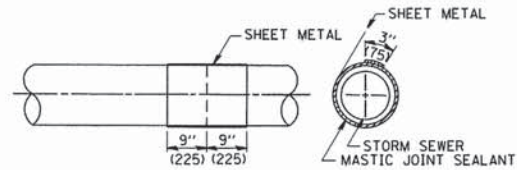
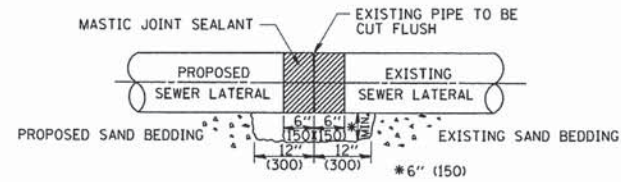
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	261
BD400-02 (BD-02)				CONTRACT NO. 63882
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

FILE NAME	USER NAME	DESIGNED	REVISED
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			P. LoFLEUR 04-15-03
			R. BORO 01-01-07
			R. BORO 09-06-11



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

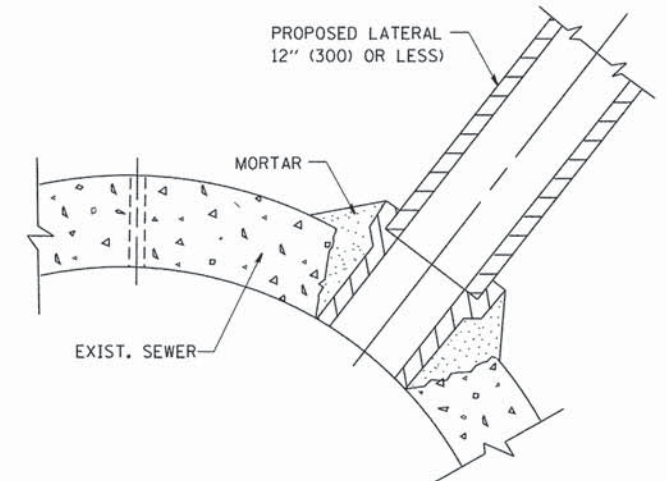


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

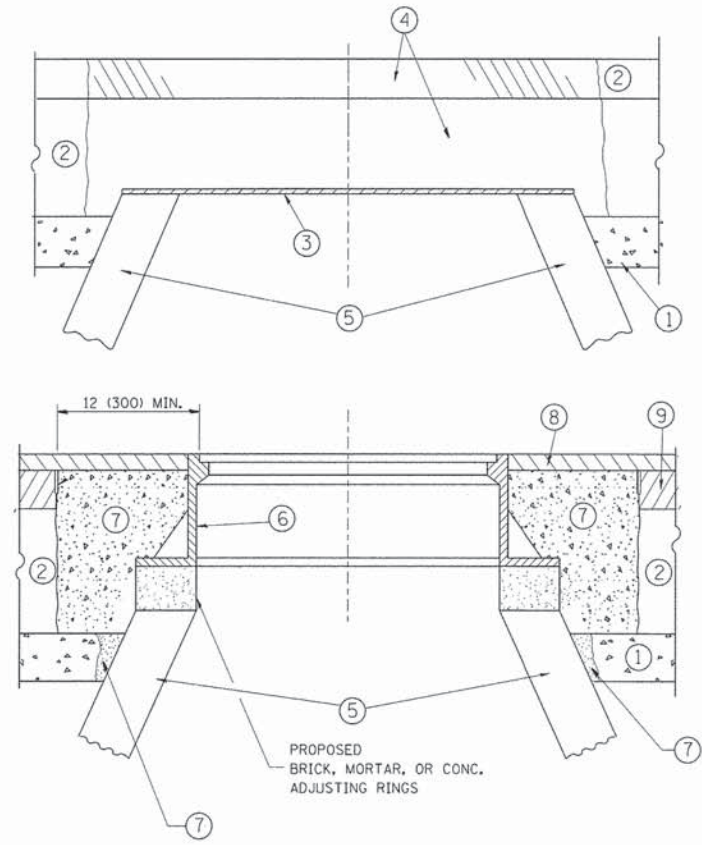
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

FILE NAME = W:\dstotd\22x34\bd07.dgn	USER NAME = goglienobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER</b>			F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 262
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. SHAH 09-09-94		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 63882	
PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 10-25-94	REVISED - R. SHAH 06-12-96					FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

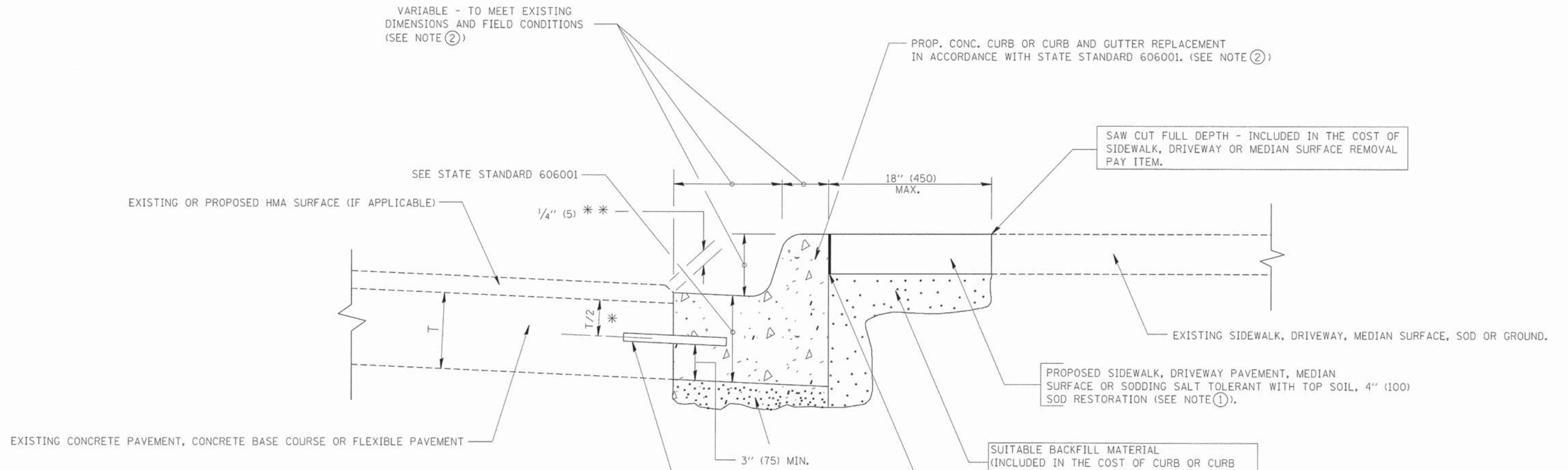
FILE NAME =	USER NAME = bouardl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
ca\pwork\pw\dot\bouardl\ad0108315\bd08.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	263
BD600-03 (BD-8)		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
  - \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

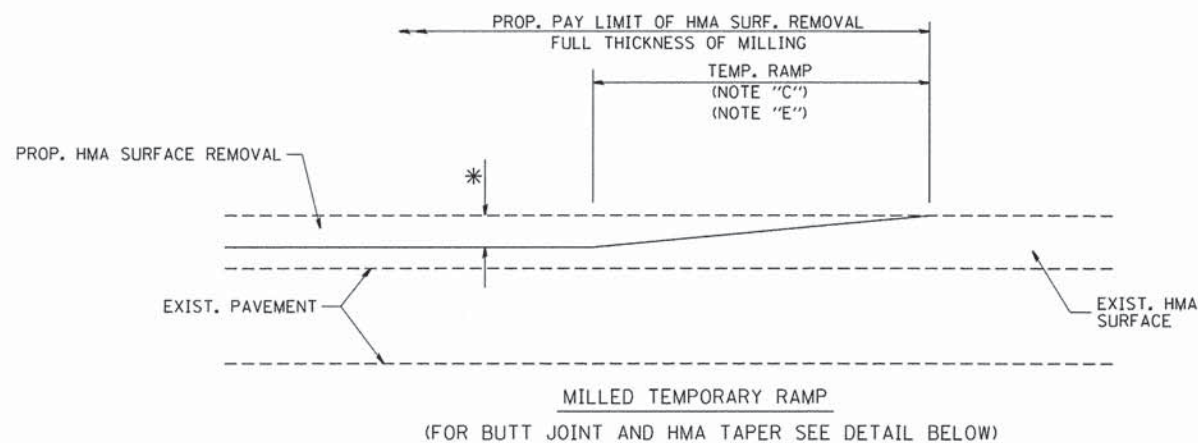
**BASIS OF PAYMENT:**  
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

## CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

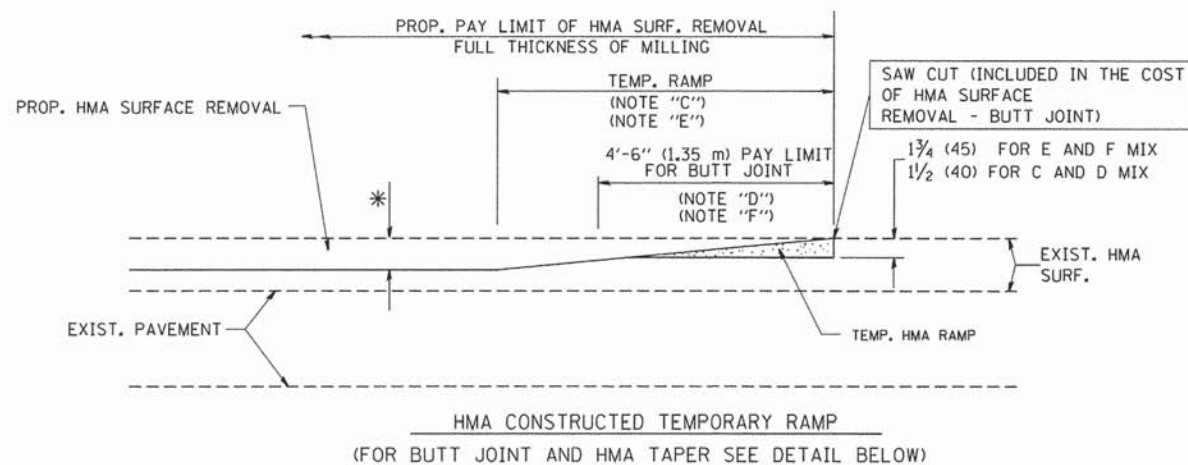
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME *	USER NAME = drvakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pwork\pwork\drvakosgn\120414\120414.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97			1257	11-00092-00-PV	LAKE	424	264	
	PLOT SCALE = 50,000 / 1 IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01			<b>BD600-06 (BD-24)</b>		CONTRACT NO. 63882			
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

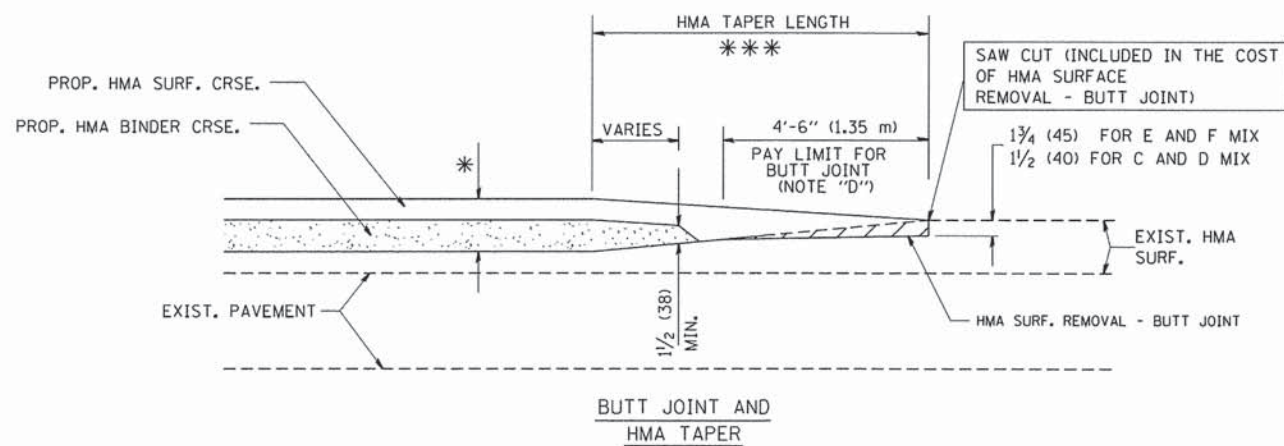




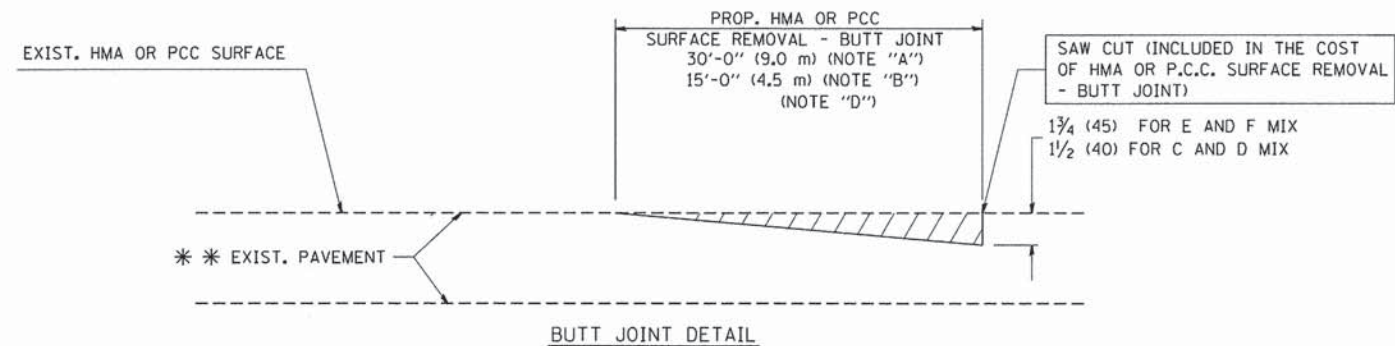
**OPTION 1**



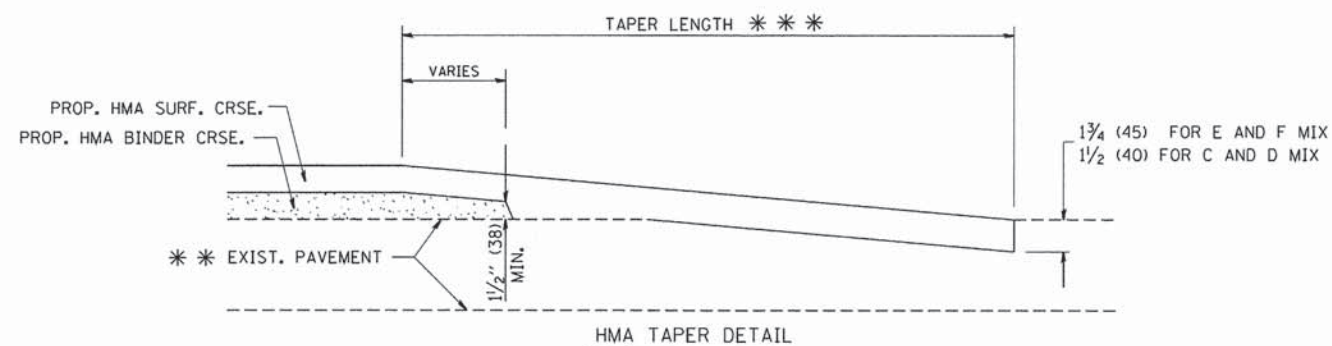
**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



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



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**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.

FILE NAME = W:\disto\td\22x34\bd32.dgn	USER NAME = goglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 265
BD400-05 BD32		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

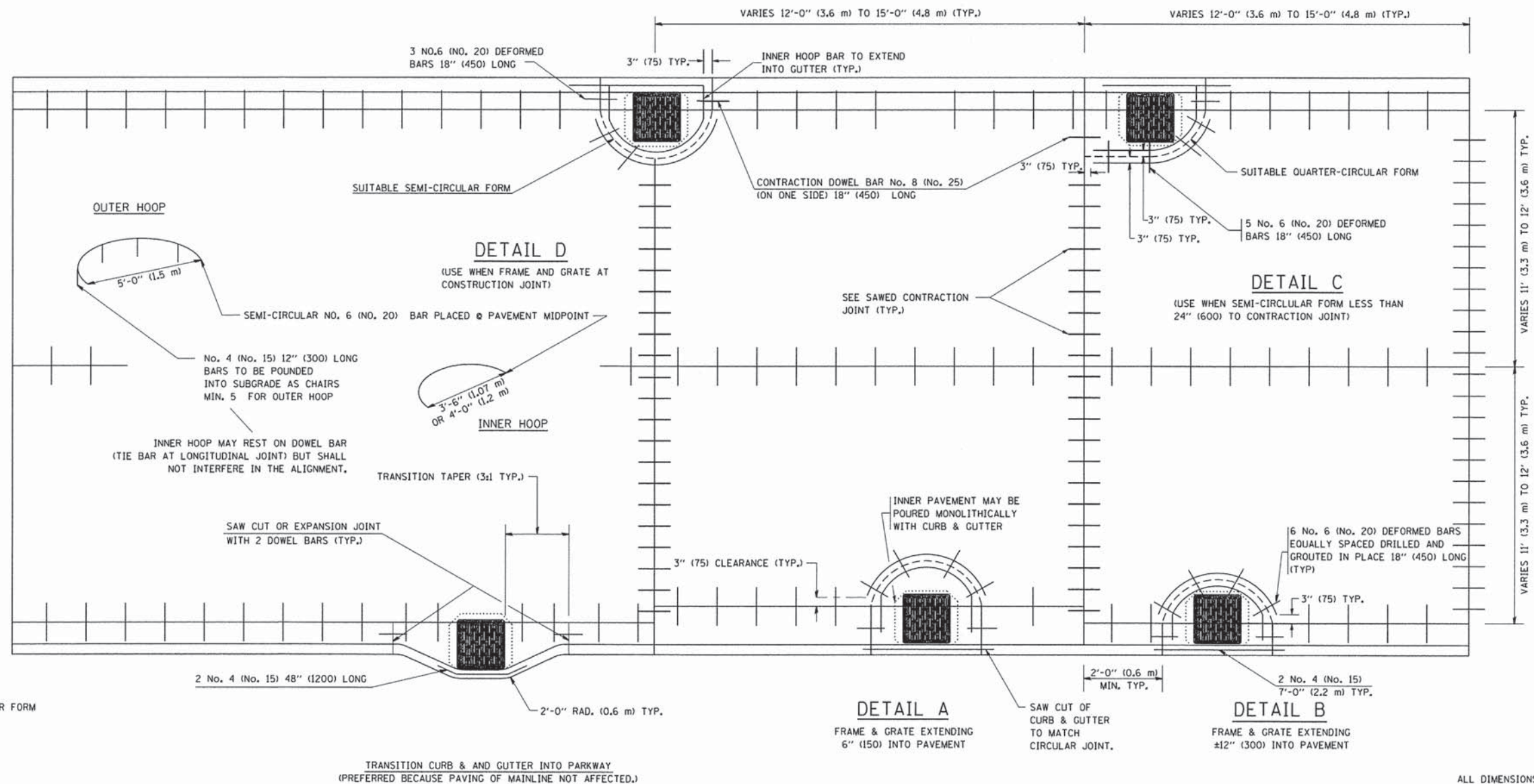
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:  
THIS DETAIL IS TO BE USED  
WHEN THE GUTTER FLAG IS  
LESS THAN 24"

NOTES :

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



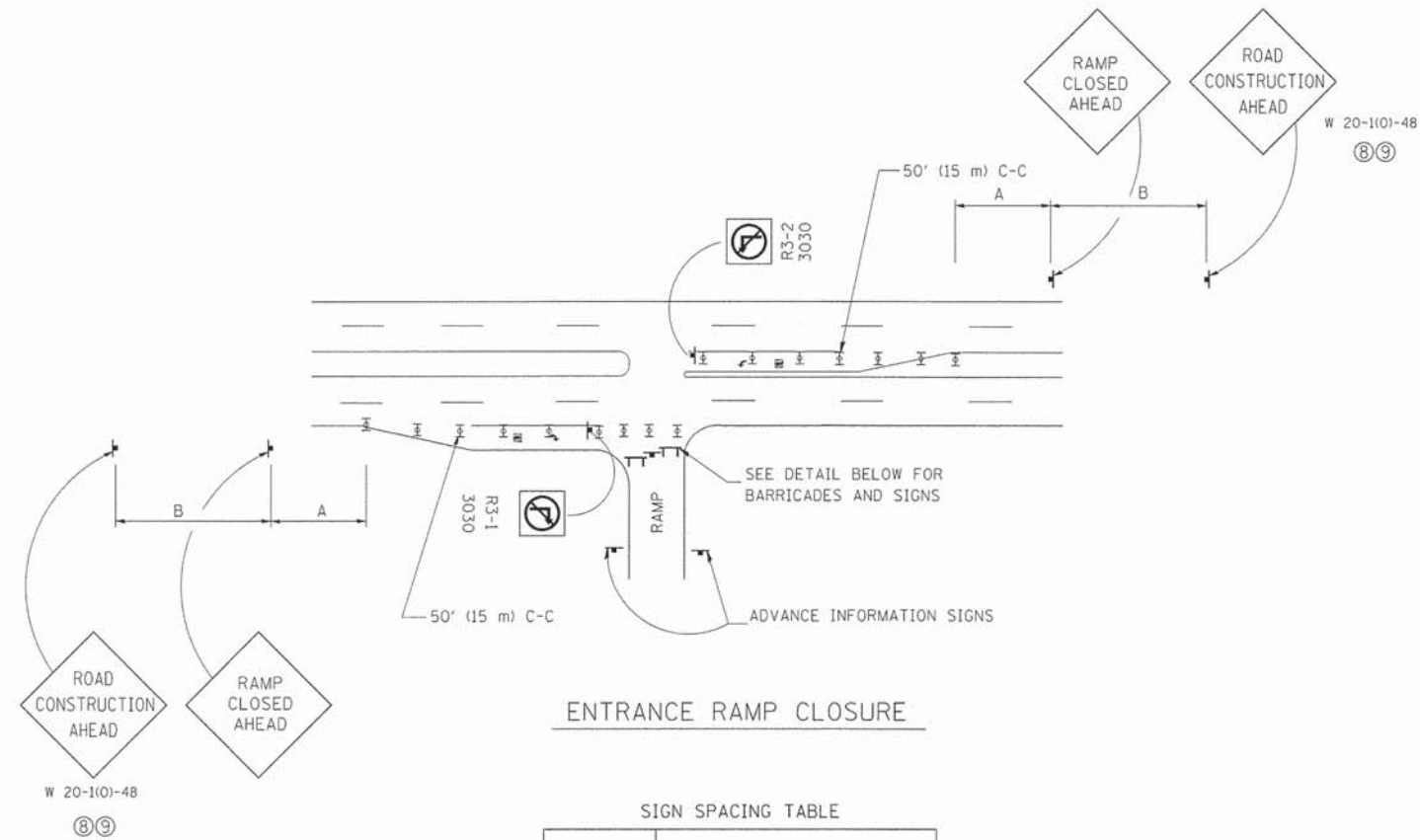
LEGEND:

- ..... CASTING
- SUITABLE SEMI-CIRCULAR FORM

TRANSITION CURB & AND GUTTER INTO PARKWAY  
(PREFERRED BECAUSE PAVING OF MAINLINE NOT AFFECTED.)

ALL DIMENSIONS ARE IN INCHES  
(MILLIMETERS) UNLESS OTHERWISE NOTED

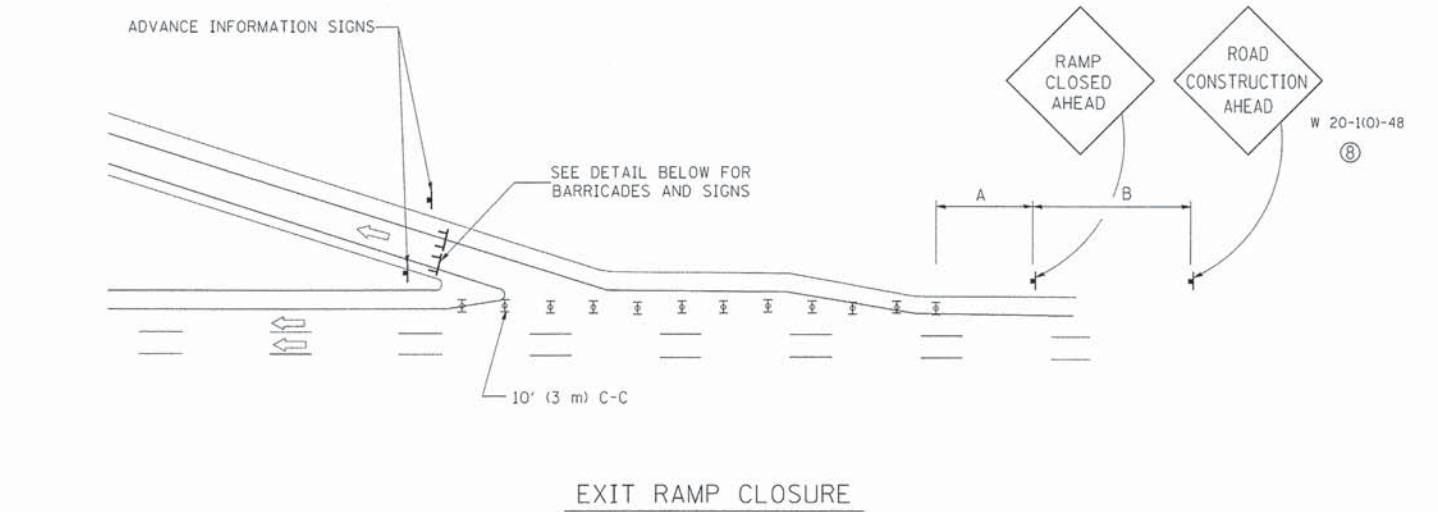
FILE NAME = W:\dstatd\22x34\bd48.dgn	USER NAME = gaglianobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER</b>			F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 266
	PLOT SCALE = 50.0000' / IN.	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD-48 CONTRACT NO. 63882				
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02									
		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							



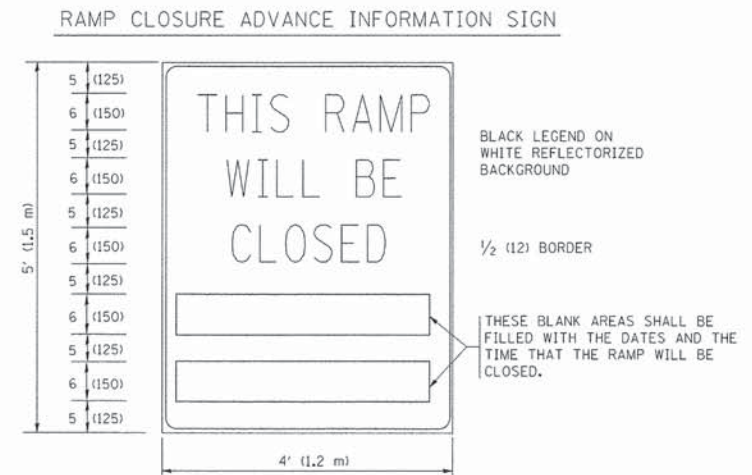
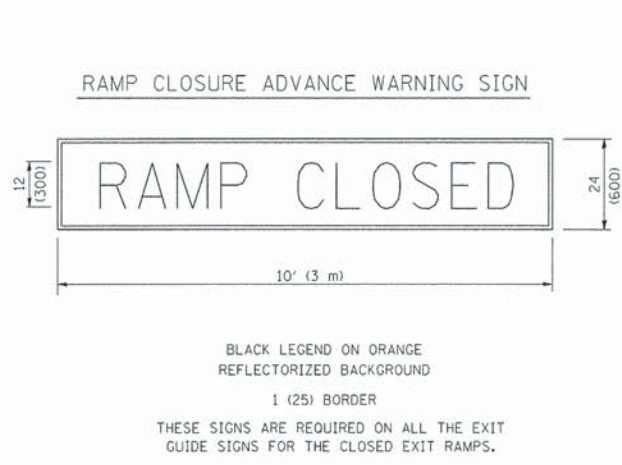
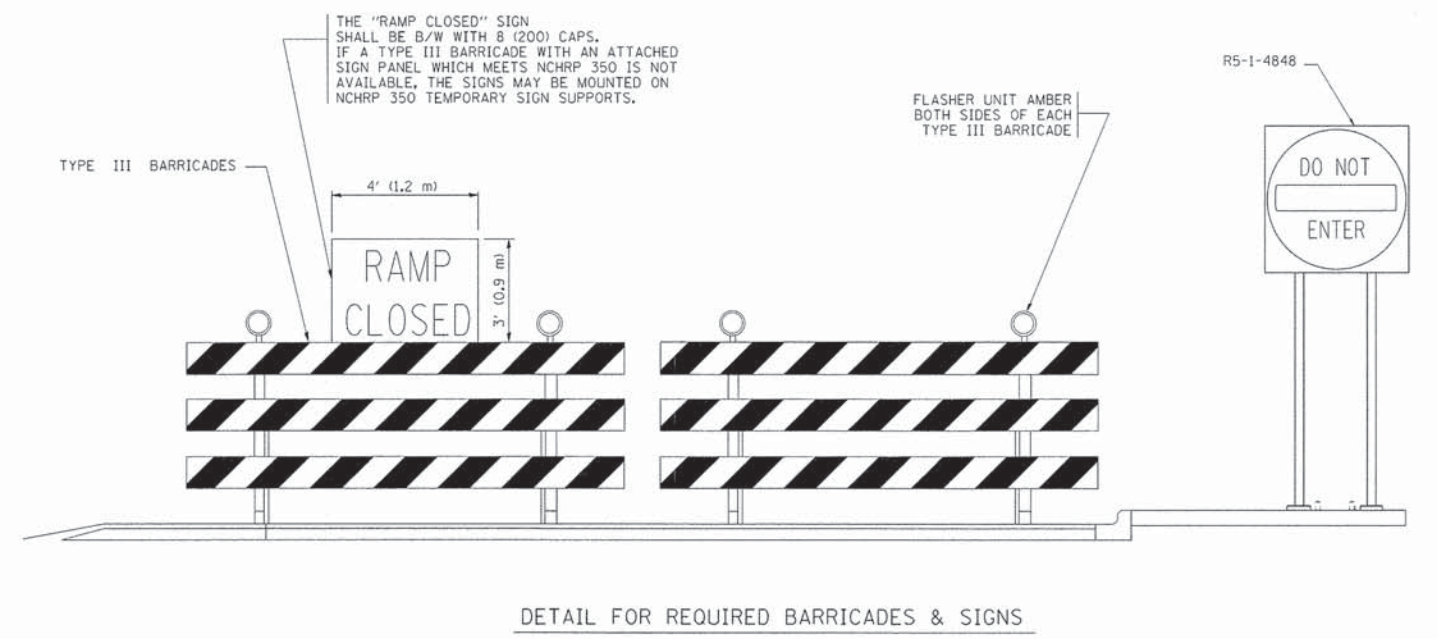
SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL >45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



- SYMBOLS
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ⊥ TYPE III BARRICADE WITH FLASHING LIGHT



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

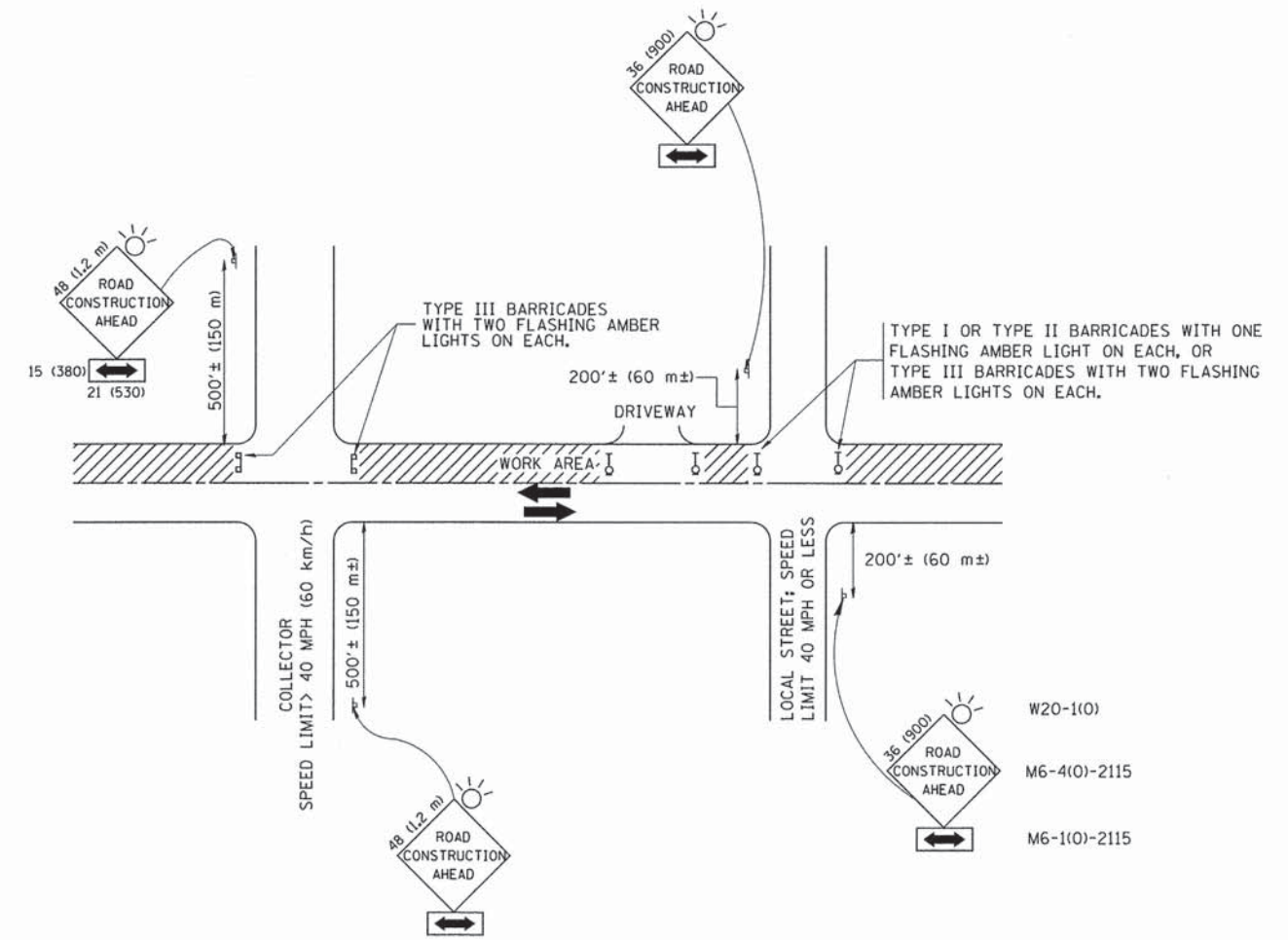
FREEWAY ENTRANCE AND EXIST RAMP  
CLOSURE DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	267
TC-08		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME	USER NAME	DESIGNED	REVISED
M:\diststd\22x34\te08.dgn	inysa	DWS	DWS/JAF 12-02
		DRAWN	REVISED - JAF 02-06
		CHECKED	REVISED - SPB 01-07
		DATE	REVISED - SPB 12-09

PLOT SCALE = 50.000' / IN.  
PLOT DATE = 1/26/2010



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.

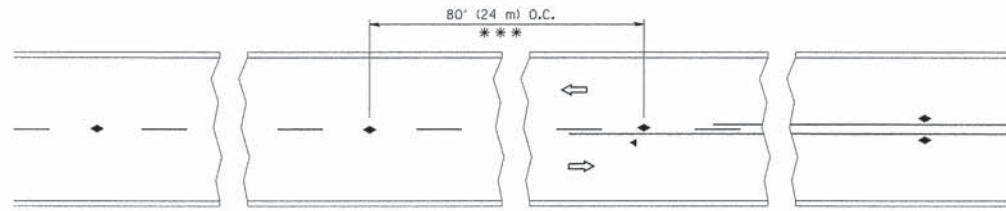
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

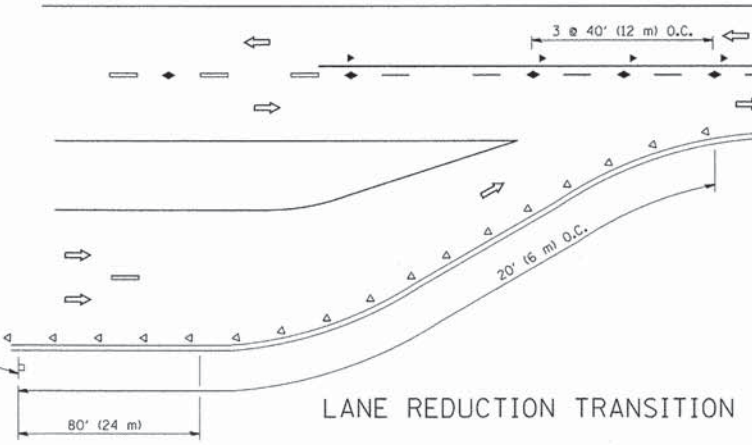
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 268
TC-10			CONTRACT NO. 63882	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

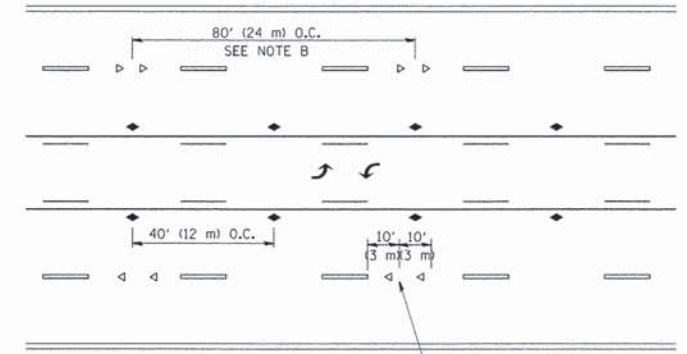


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

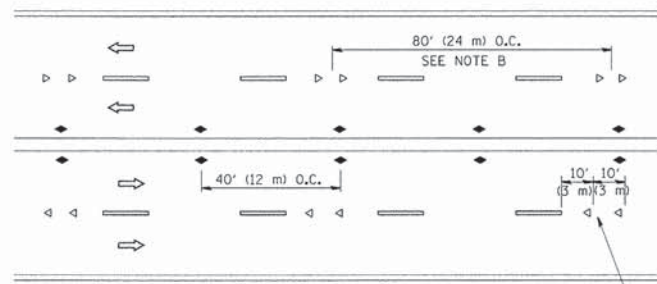


LANE REDUCTION TRANSITION



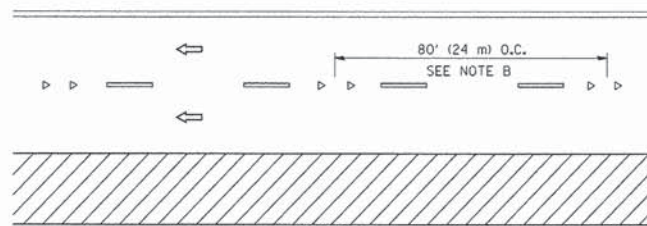
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

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

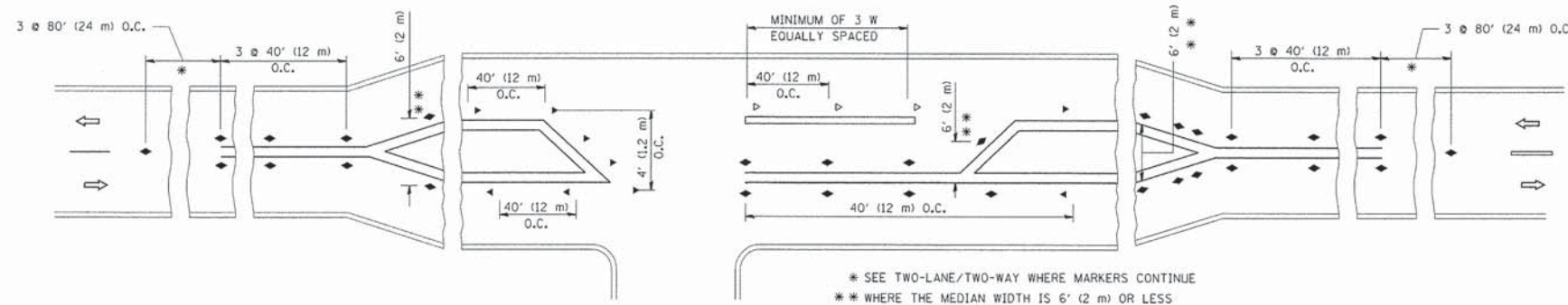
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

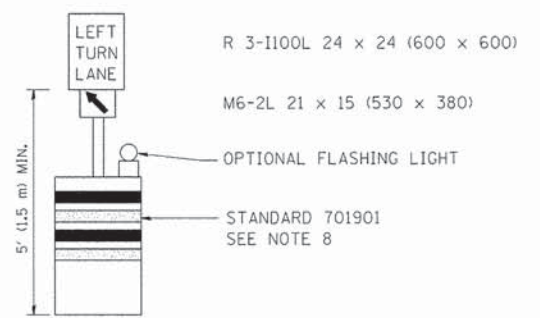
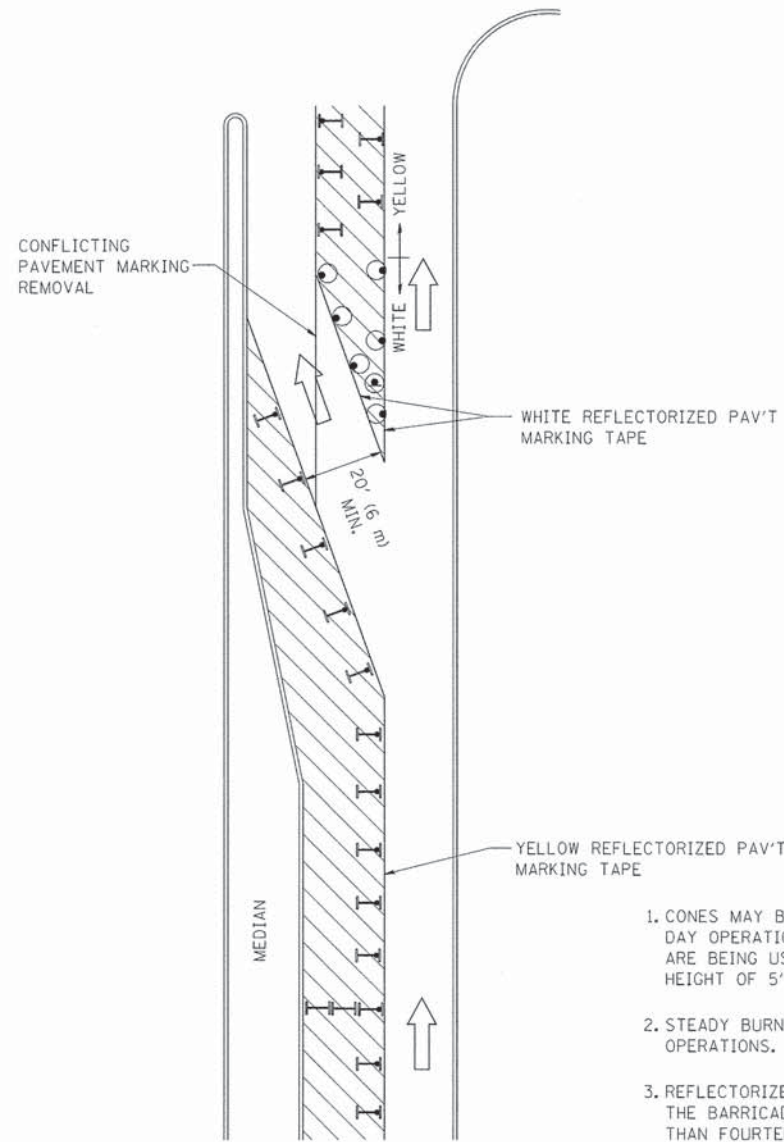
All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 269
TC-11		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









**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 NCHRP 350 PREQUIREMENTS.
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

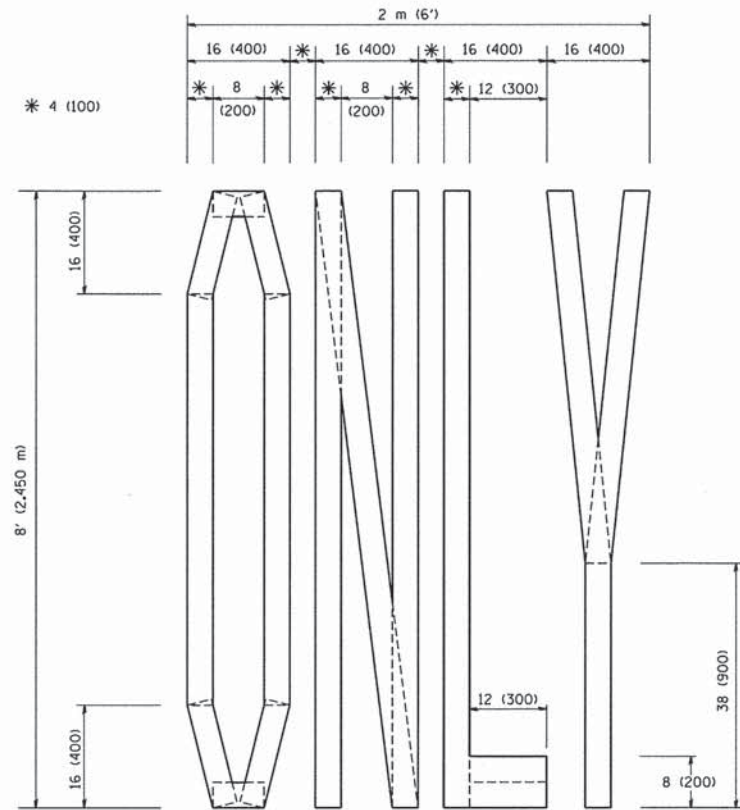
FILE NAME =	USER NAME = drivakosgn	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
ct\pwork\PW100T\DRIVAKOSGN\d0188315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 49.9999' / IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

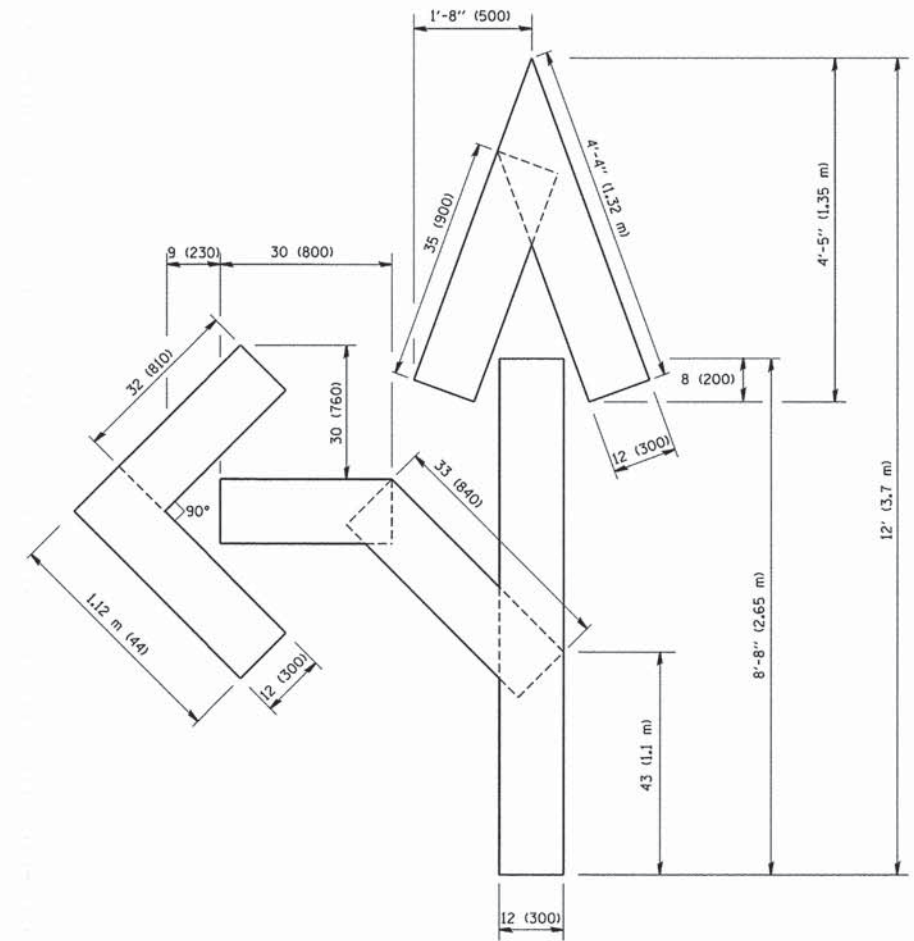
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

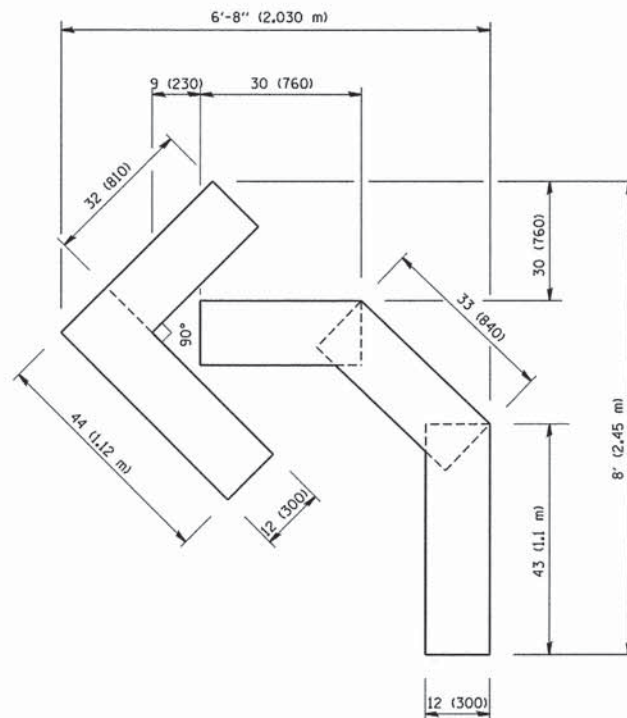
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	270
<b>TC-14</b>		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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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		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	271
TC-16			CONTRACT NO. 63882	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**ROUTE MARKERS**

FOR U.S. ROUTES MI-40-2424

FOR ILLINOIS ROUTES MI-50-2424

R.R. UNMARKED ROUTES SPECIAL 24" x 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

**ARROWS SIGNS**

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

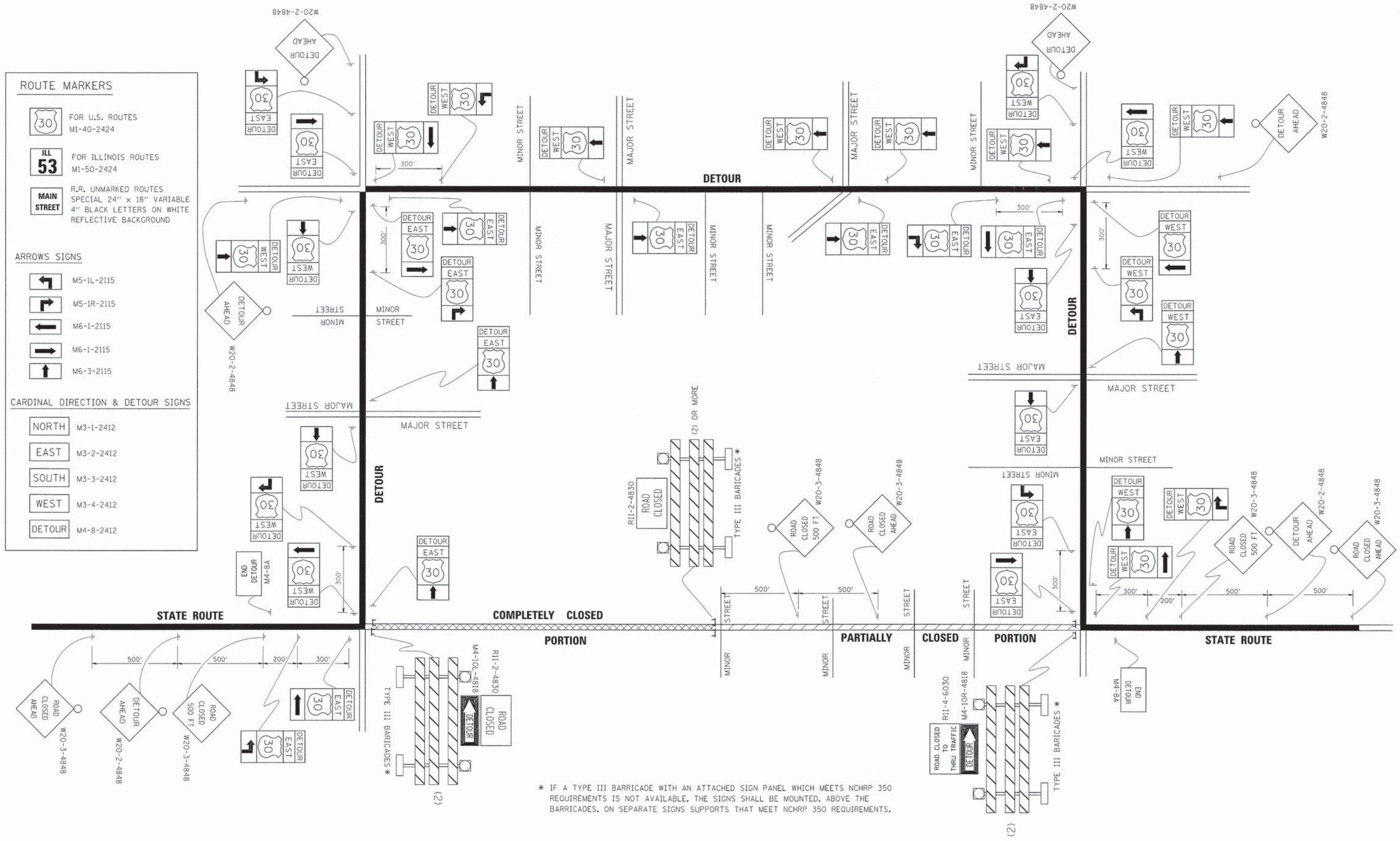
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



\* IF A TYPE III 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 NCHRP 350 REQUIREMENTS.

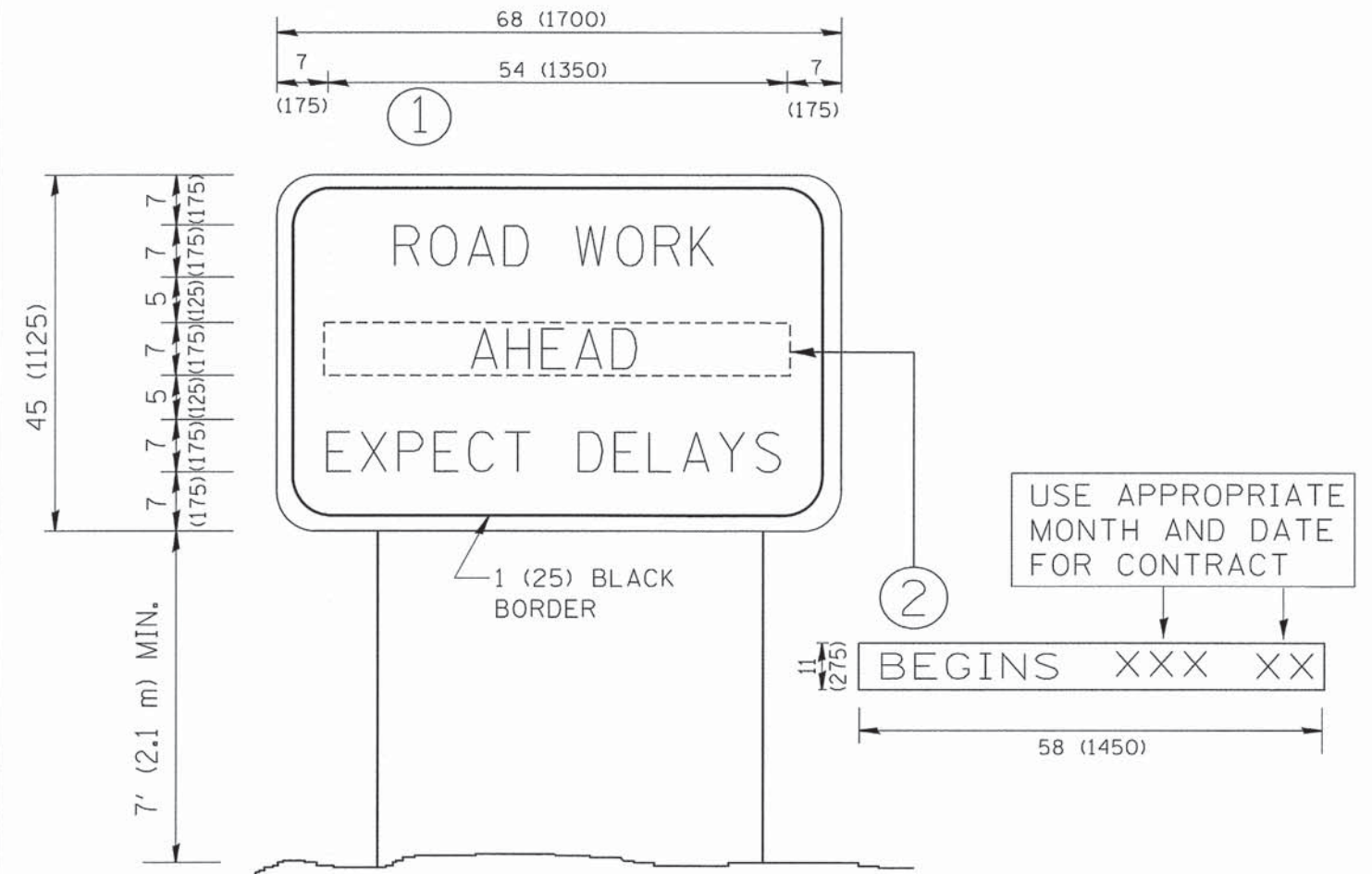
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	PLOT SCALE = 4/9.9999" = 1"	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 272
TC-21		CONTRACT NO. 63882		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				





**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.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = gegl1anobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 273
TC-22			CONTRACT NO. 63882	
FED. ROAD DIST. NO. 1 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".

FILE NAME = c:\pw_work\pwsdot\gaglanobt\d0100315\c26.dgn	USER NAME = gaglanobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

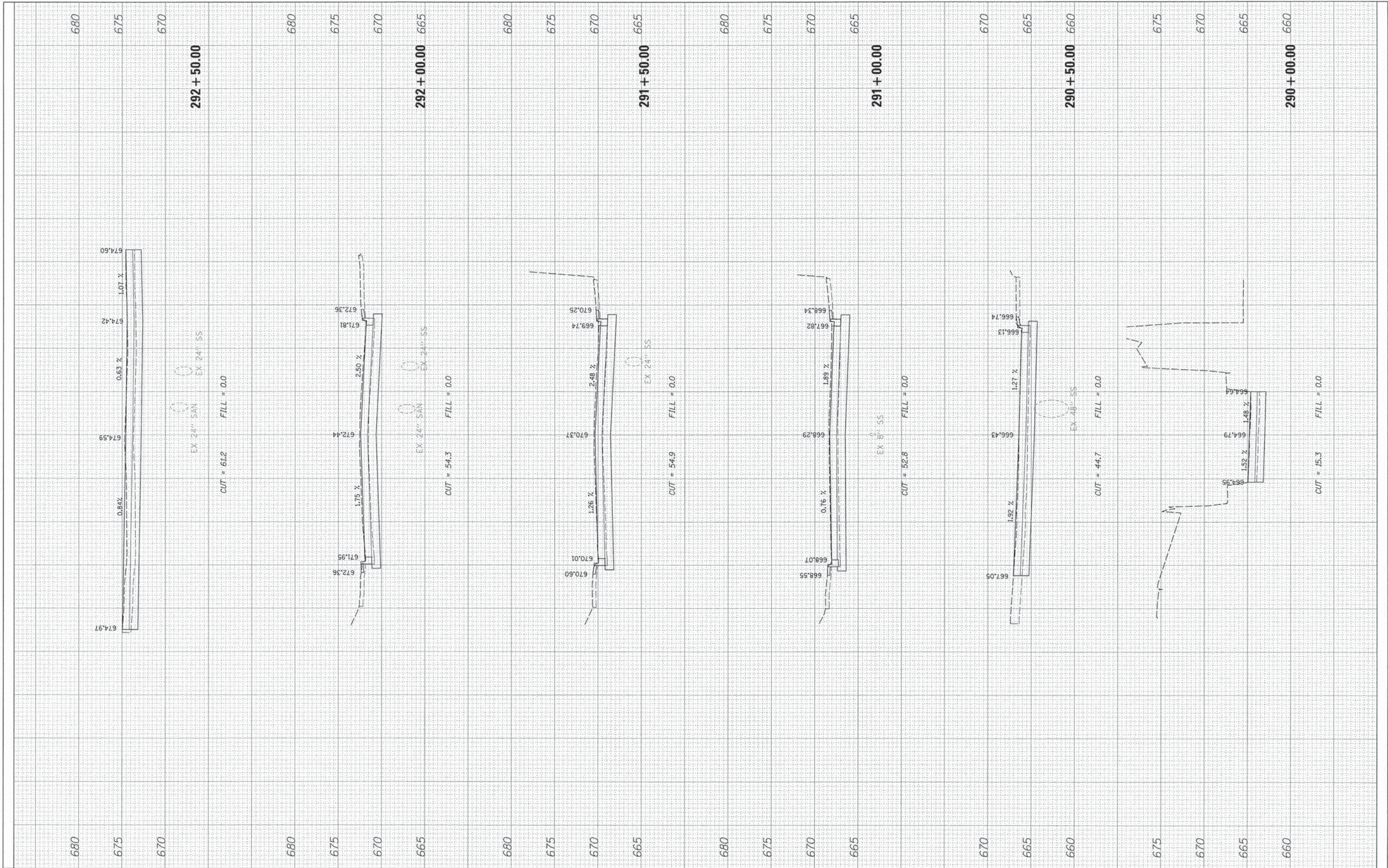
**DRIVEWAY ENTRANCE SIGNING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	274
<b>TC-26</b>			<b>CONTRACT NO. 63882</b>	
<small>FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT</small>				

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

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



FILE NAME :  
 No:\DeerField\120414\Civil\PKSB\_120414.SHT

USER NAME : j\_mistick  
 PLOT SCALE = 1" = 10'  
 PLOT DATE = 8/30/2015

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

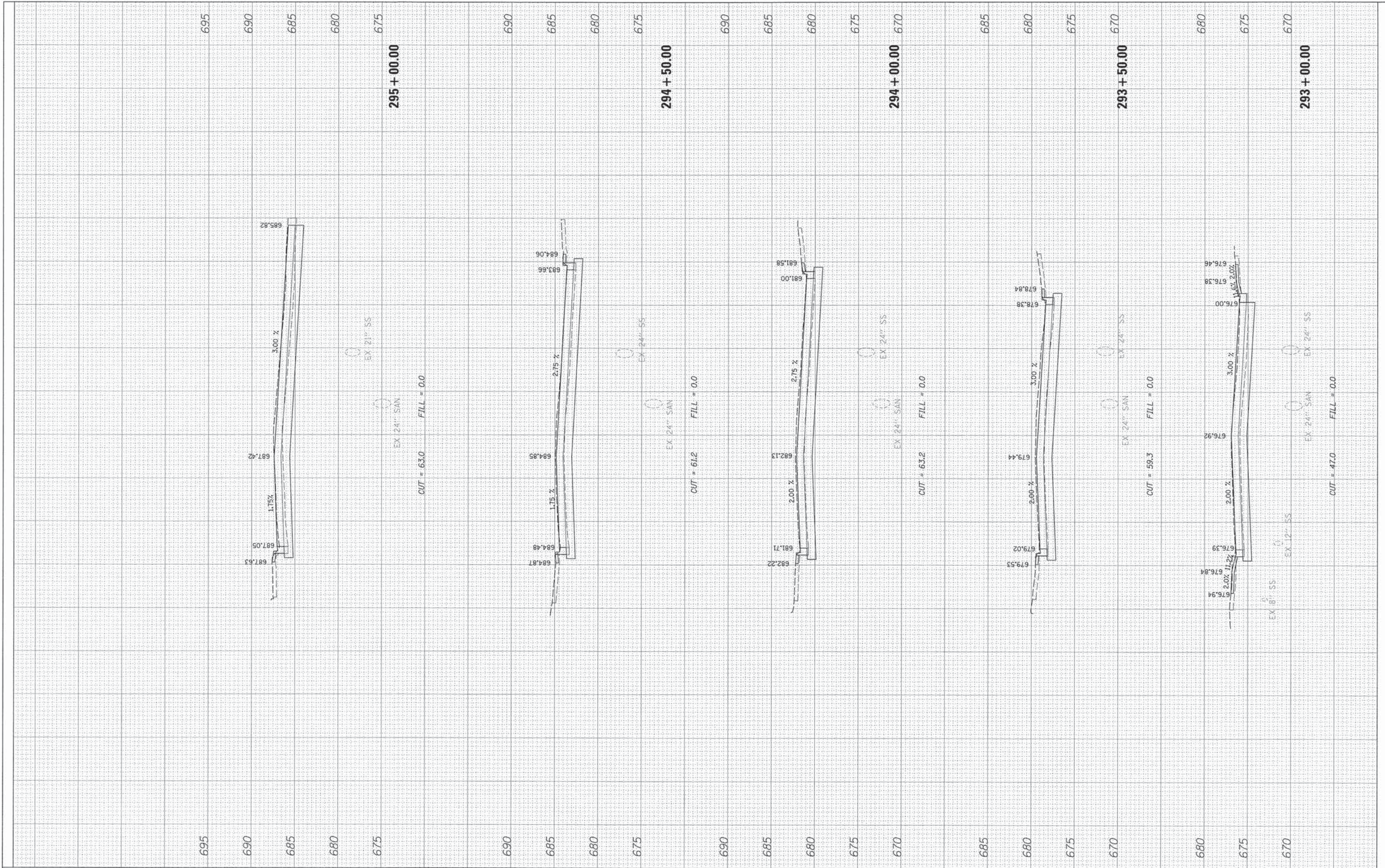
**DEERFIELD ROAD**

SCALE: SHEET OF SHEETS STA. 290+00.00 TO STA. 292+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	275
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
No.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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USER NAME = jstrik  
 PLOT SCALE = 10'  
 PLOT DATE = 8/30/2015

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

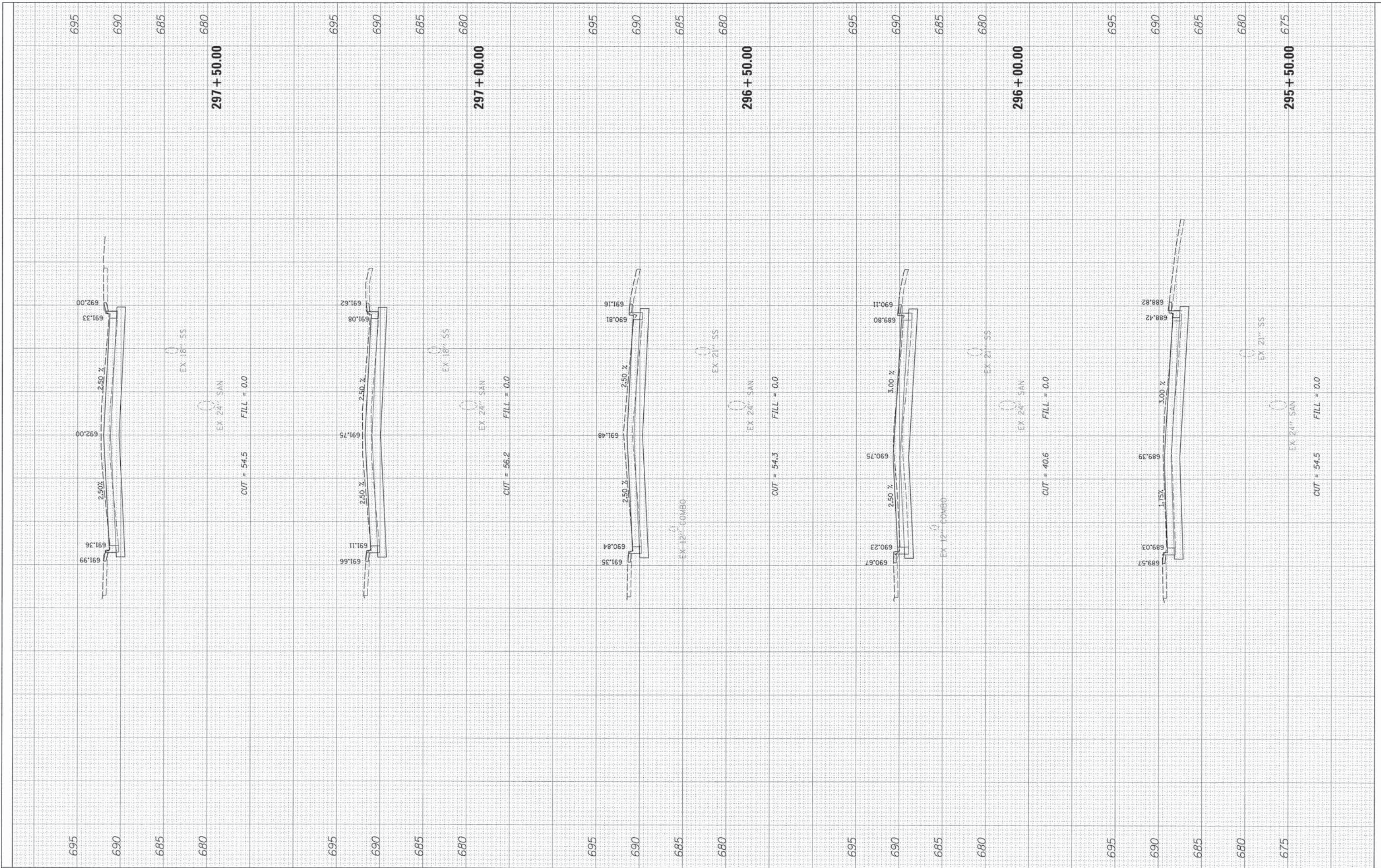
**DEERFIELD ROAD**

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	276
CONTRACT NO. 63882			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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NO.	TEMPLATE		
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 PLOT SCALE = 10'  
 PLOT DATE = 8/30/2015

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DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

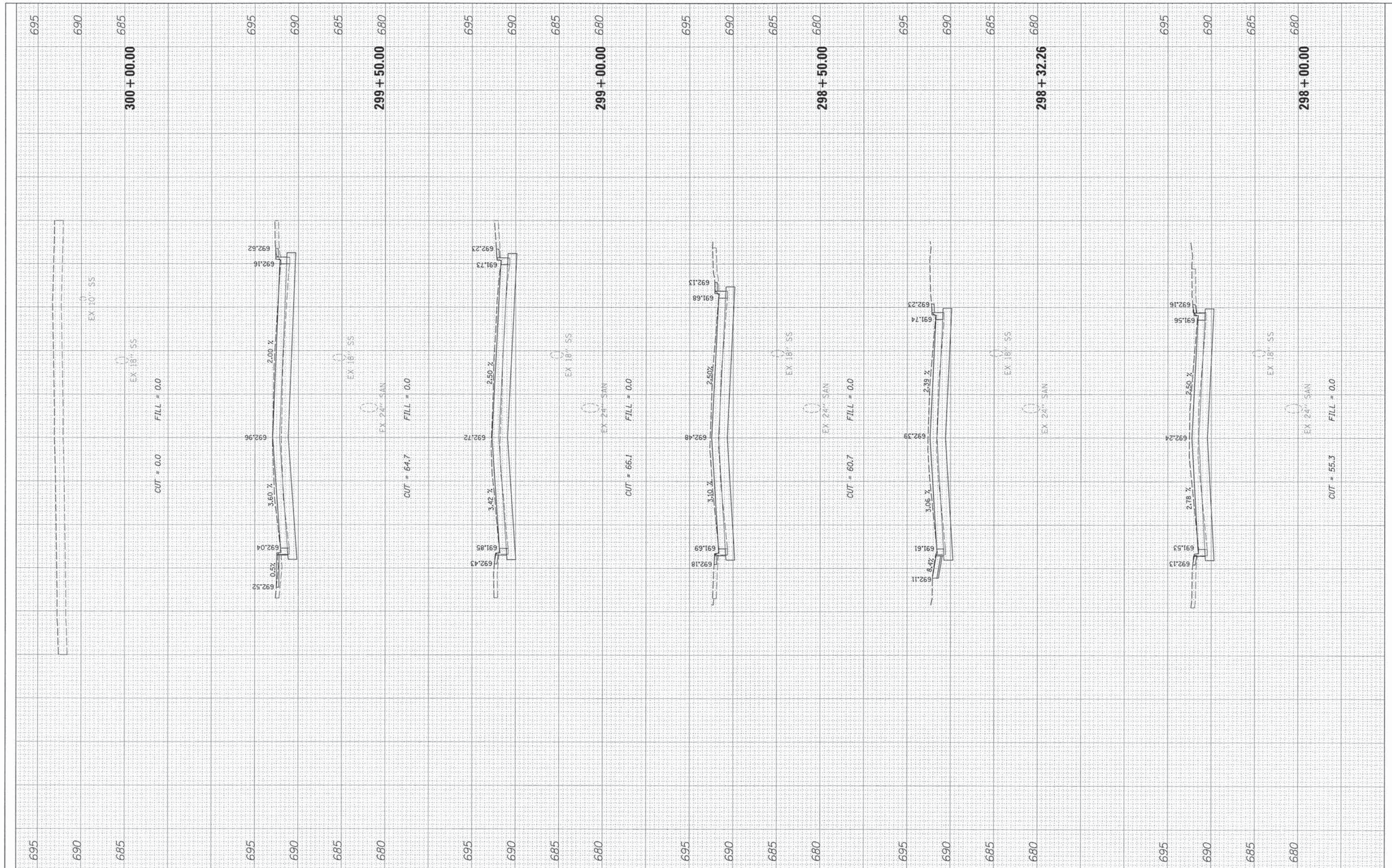
**DEERFIELD ROAD**

SCALE: SHEET OF SHEETS STA. 295+50.00 TO STA. 297+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	217
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = jstrick  
 PLOT SCALE = 10'  
 PLOT DATE = 8/30/2015

DESIGNED -  
 DRAWN -  
 CHECKED -  
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REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

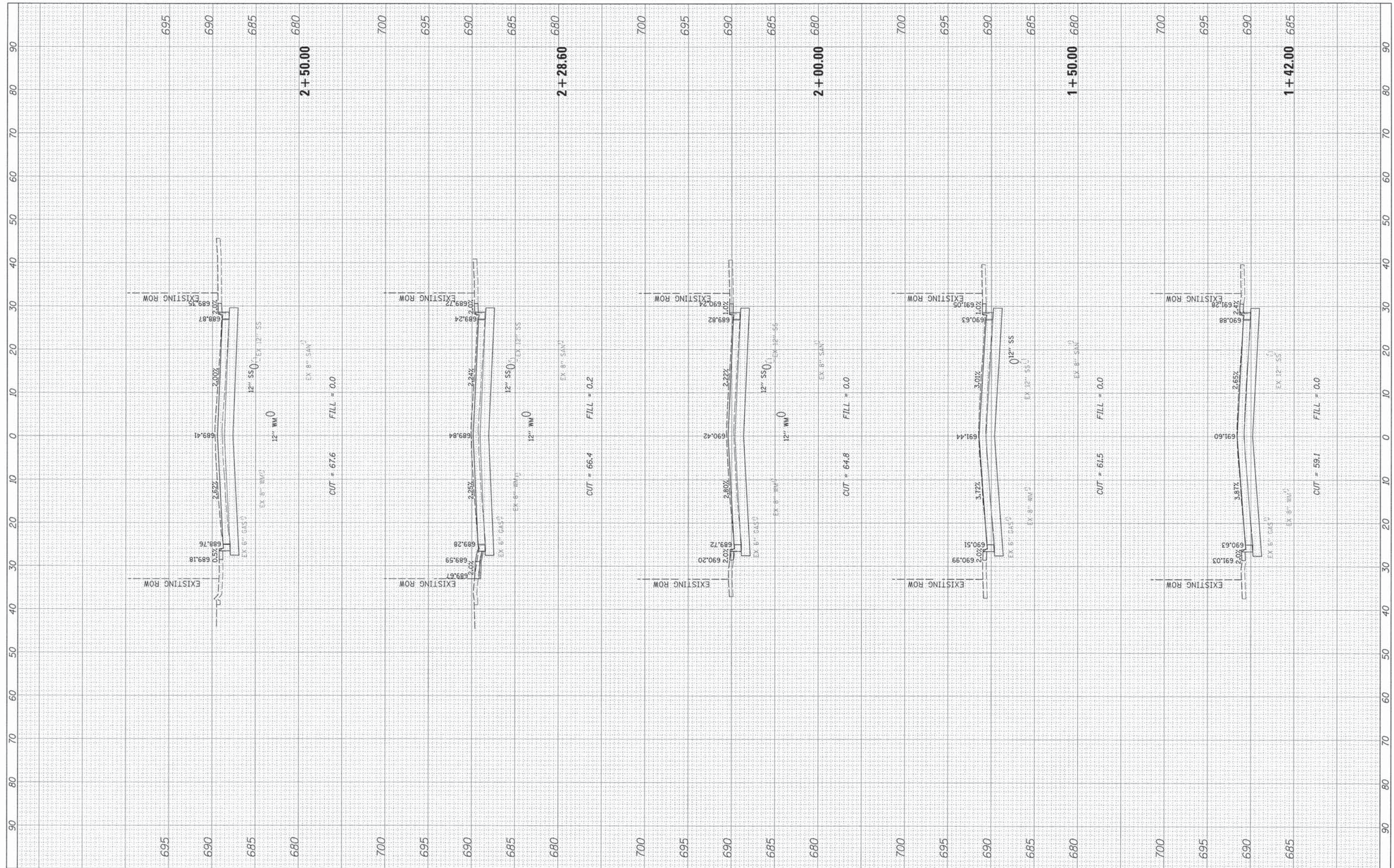
**DEERFIELD ROAD**

SCALE: SHEET OF SHEETS STA. 298+00.00 TO STA. 300+00.00

F.A.U. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 278
CONTRACT NO. 63882				
[ILLINOIS] FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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DESIGNED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

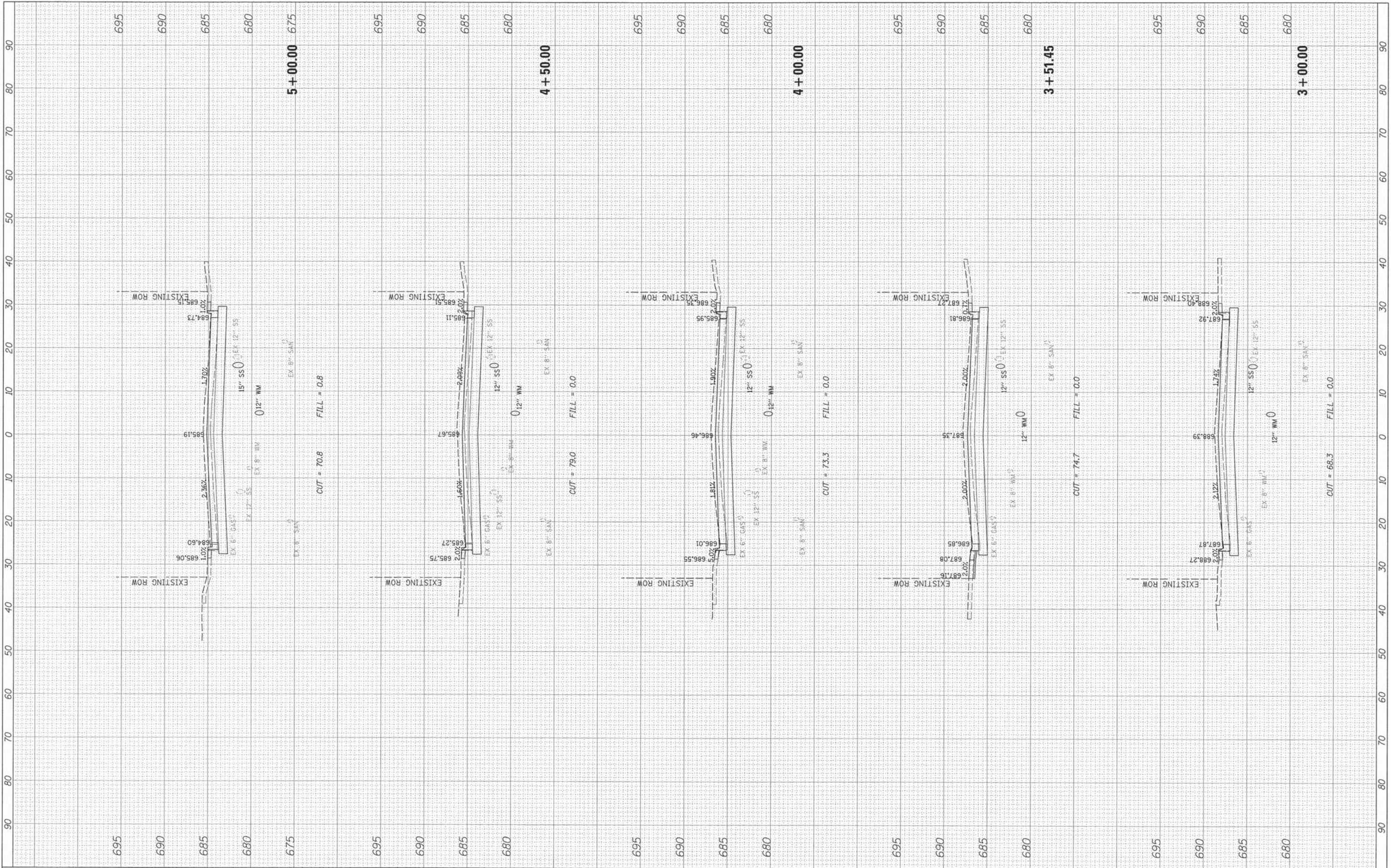
**DEERFIELD ROAD**

SCALE: SHEET 5 OF 43 SHEETS STA. 1+42.00 TO STA. 2+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	279
CONTRACT NO. 63882			ILLINOIS FED. AID PROJECT	

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DEERFIELD ROAD**

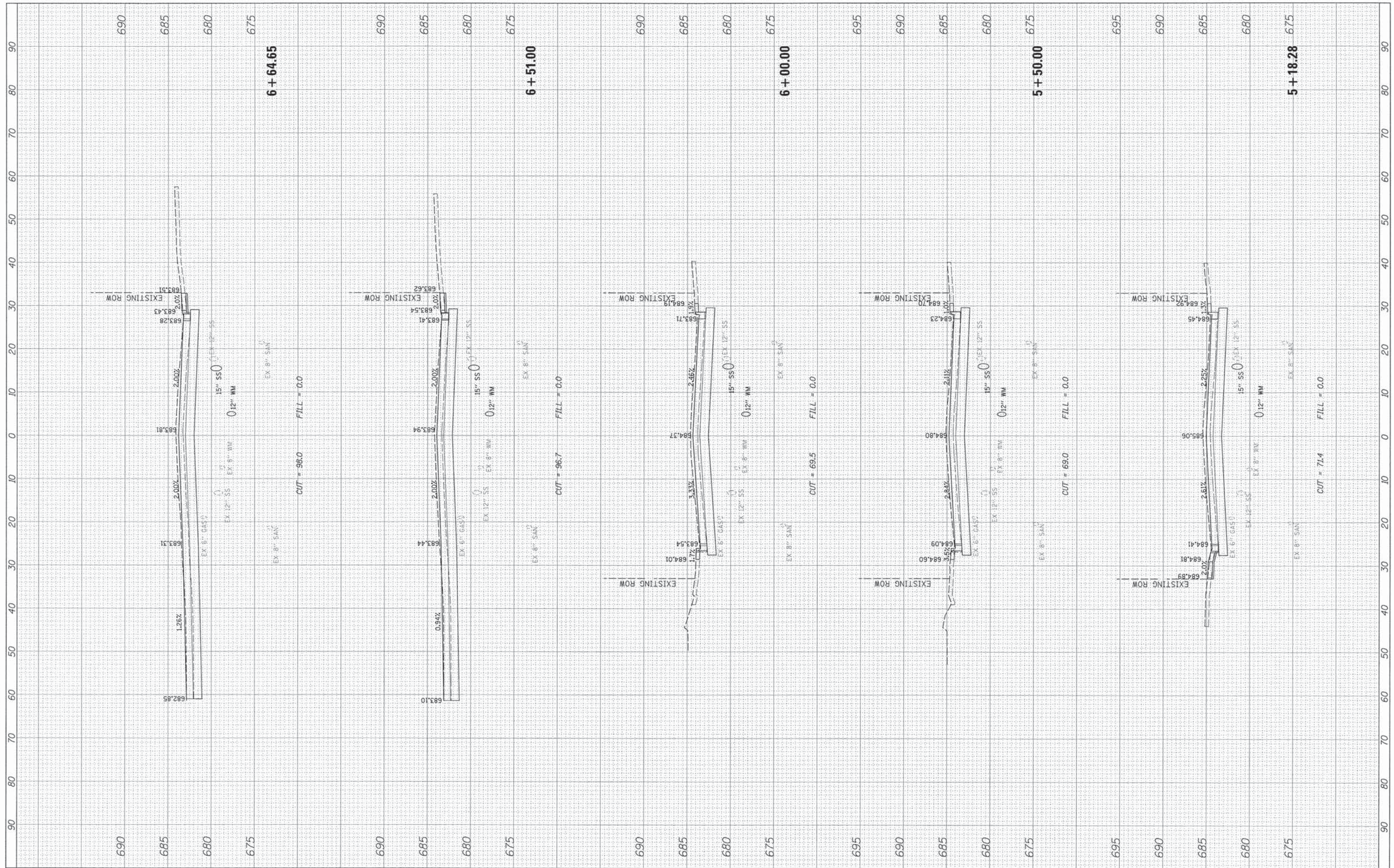
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F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 280
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
FLIPPED	BY
TEMPLATE	
NO. BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
FLIPPED	BY
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AREAS CHECKED	
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 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

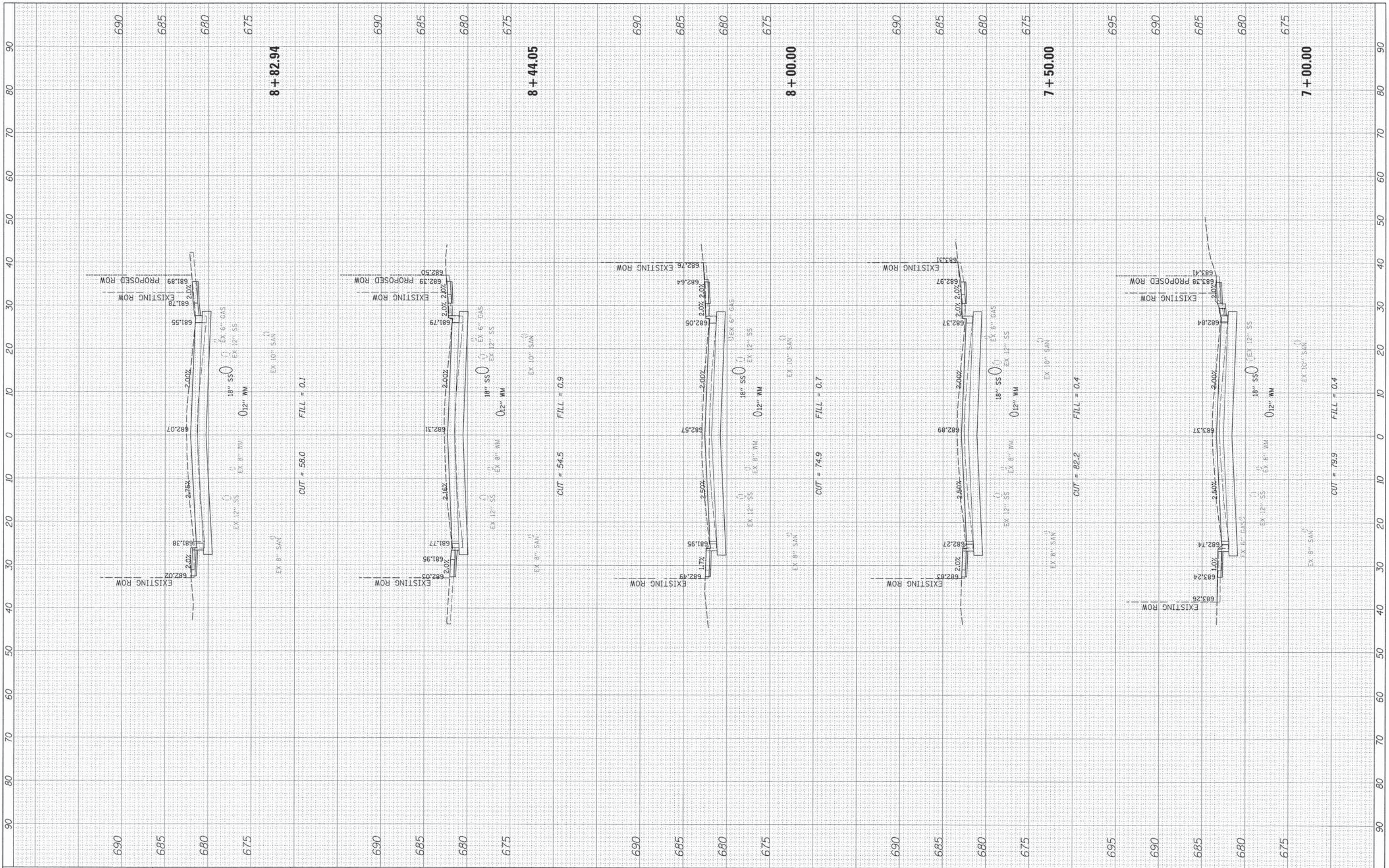
**DEERFIELD ROAD**

SCALE: SHEET 7 OF 43 SHEETS STA. 5+18.28 TO STA. 6+64.65

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 281
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
CORRECTED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
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NO.		

ORIGINAL SURVEY	BY	DATE
CORRECTED		
PLOTTED		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

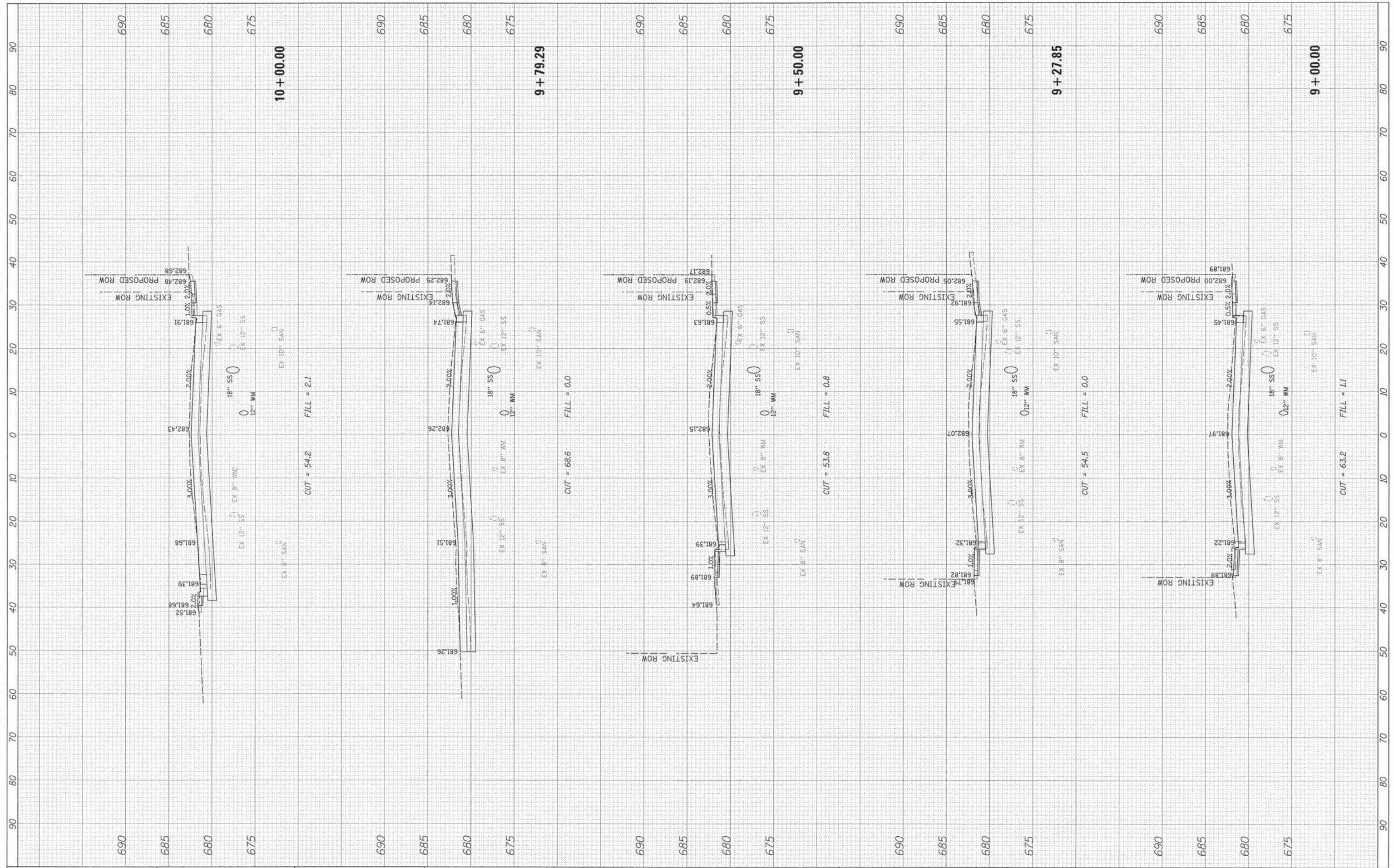
**DEERFIELD ROAD**

SCALE: SHEET 8 OF 43 SHEETS STA. 7+00.00 TO STA. 8+82.94

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 282
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

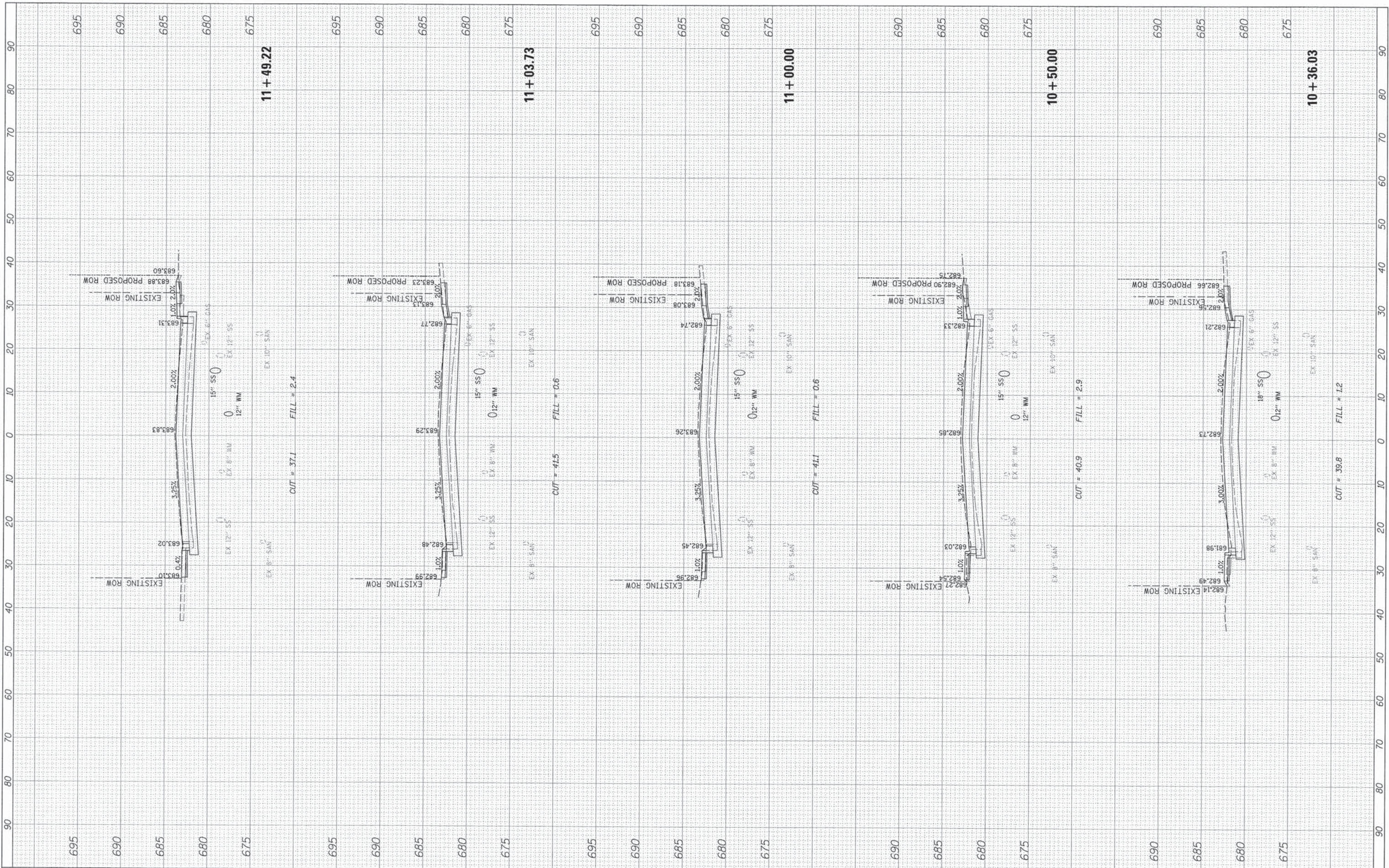
**DEERFIELD ROAD**

SCALE: SHEET 9 OF 43 SHEETS STA. 9+00.00 TO STA. 10+00.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 283
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SWITCHED SURVEY	BY
NOTE BOOK	NO.
TEMPLATE	AREA
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SWITCHED SURVEY	BY
NOTE BOOK	NO.
TEMPLATE	AREA
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DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

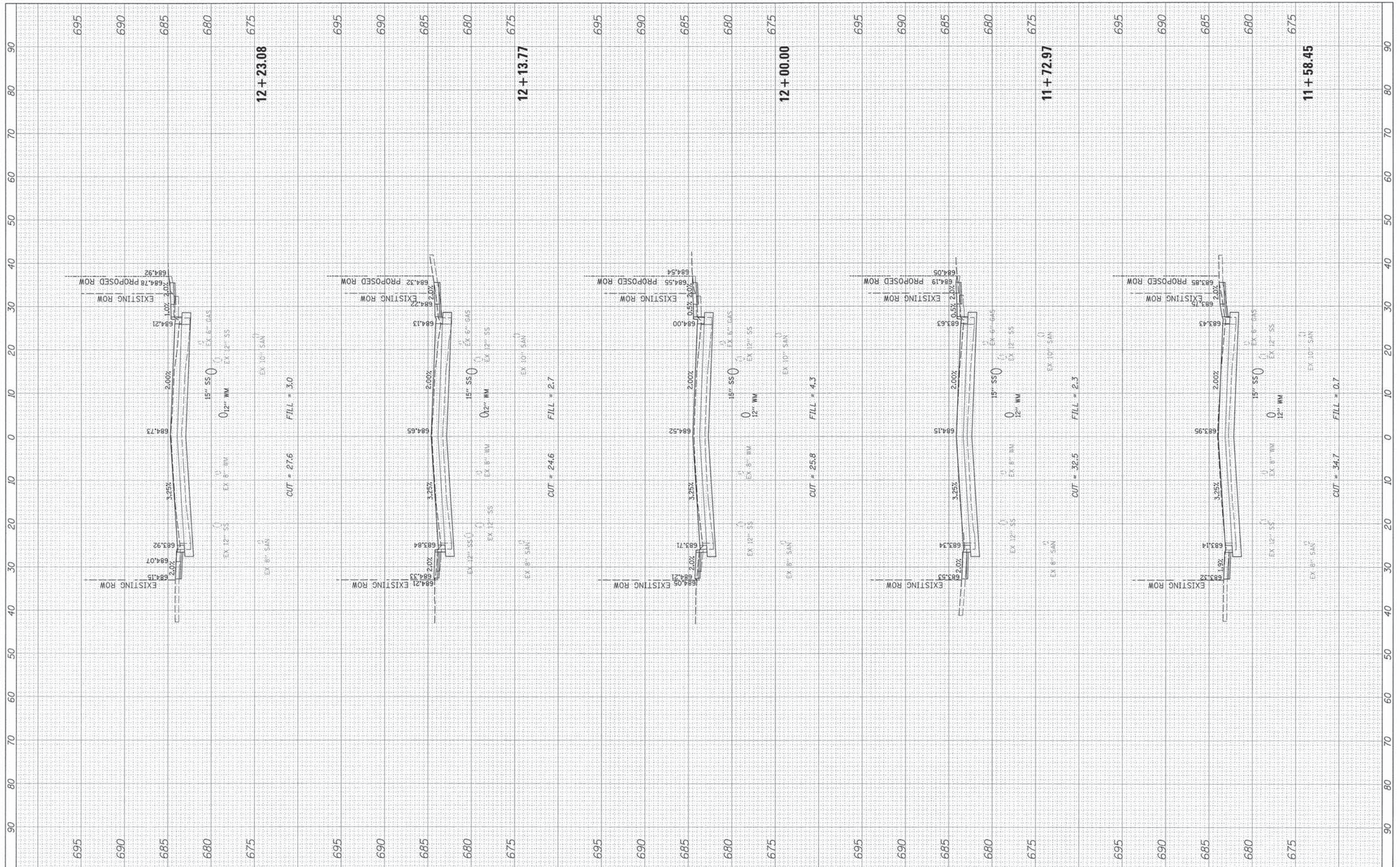
**DEERFIELD ROAD**

SCALE: SHEET 10 OF 43 SHEETS STA. 10+36.03 TO STA. 11+49.22

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	284
CONTRACT NO. 63882			ILLINOIS FED. AID PROJECT	

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

ORIGINAL SURVEY	SUPPORTED	BY	DATE
NO.	NO.		
AREAS CHECKED	AREAS CHECKED		
TEMPLATE	TEMPLATE		
NOTE BOOK	NOTE BOOK		
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 PLOT DATE = 8/30/2015

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DATE	-	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

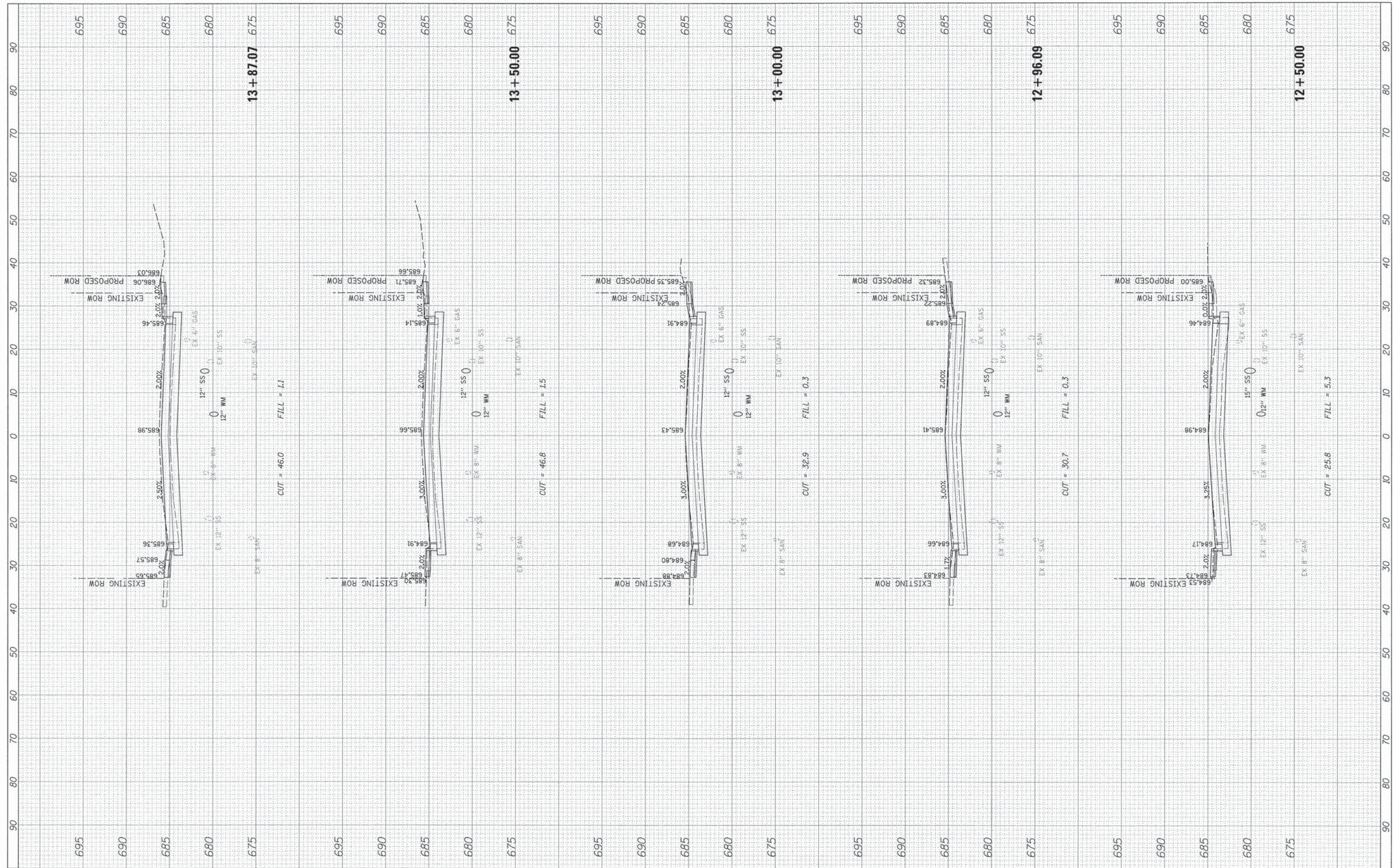
**DEERFIELD ROAD**

SCALE: SHEET 11 OF 43 SHEETS STA. 11+58.45 TO STA. 12+23.08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	285
CONTRACT NO. 63882			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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**STATE OF ILLINOIS  
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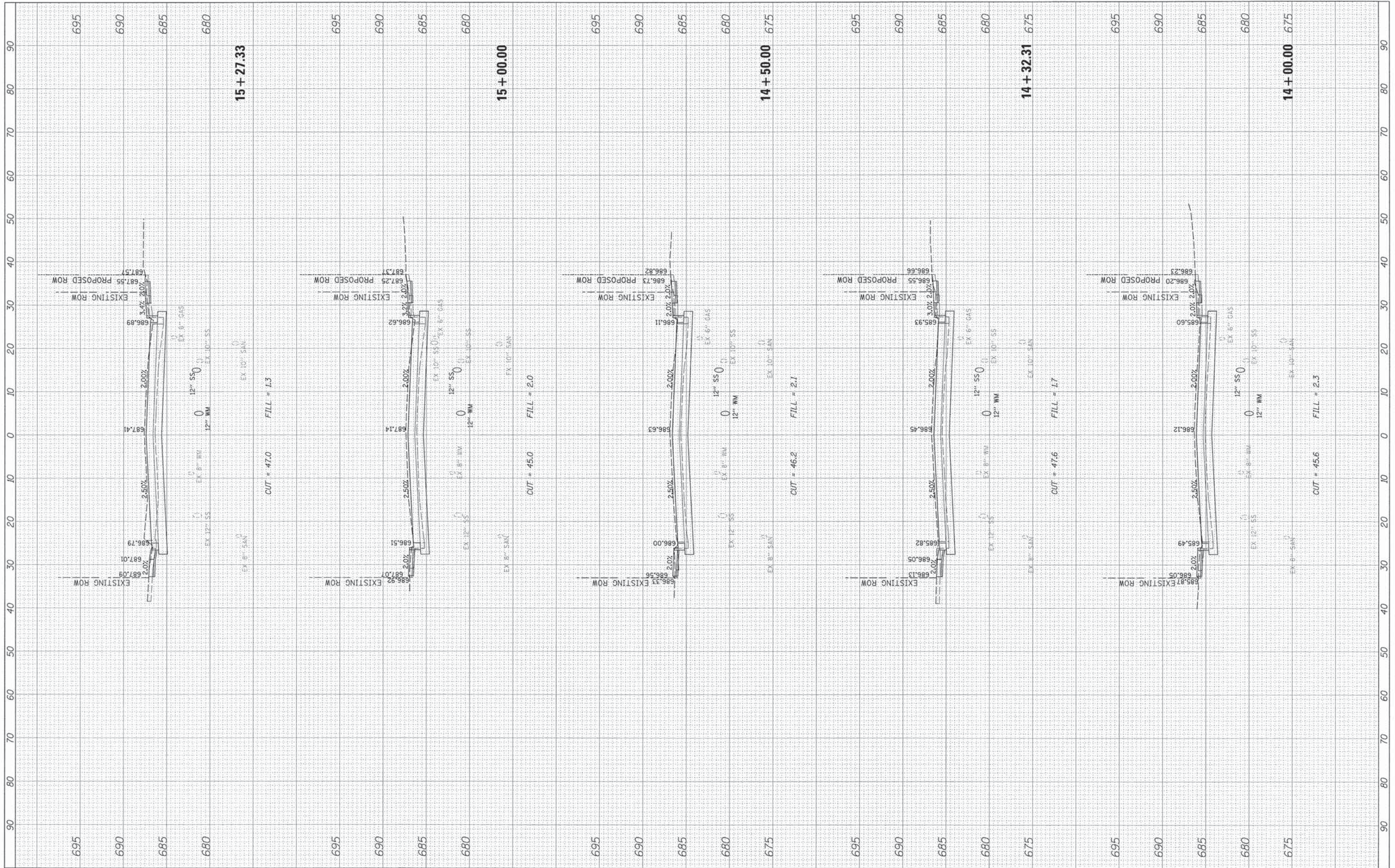
**DEERFIELD ROAD**

SCALE: SHEET 12 OF 43 SHEETS STA. 12+50.00 TO STA. 13+87.07

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 286
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL	SUBMITTED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
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ORIGINAL	REVISION	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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 PLOT DATE = 8/30/2015

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

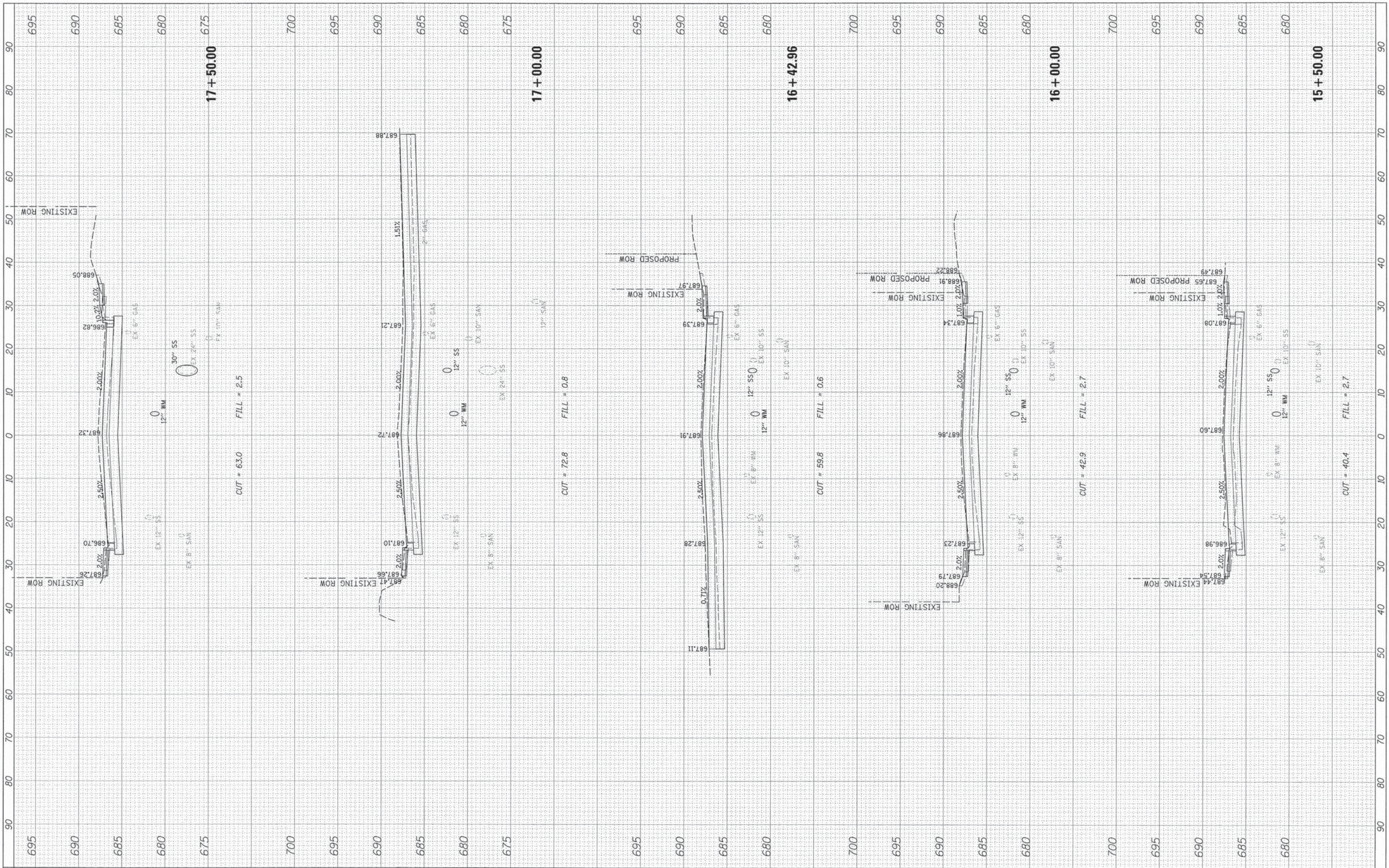
**DEERFIELD ROAD**

SCALE: SHEET 13 OF 43 SHEETS STA. 14+00.00 TO STA. 15+27.33

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 287
CONTRACT NO. 63882			ILLINOIS FED. AID PROJECT	

FINAL	SURVEYED	DATE
SUPPLY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
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ORIGINAL	SURVEY	DATE
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET 14 OF 43 SHEETS STA. 15+50.00 TO STA. 17+50.00

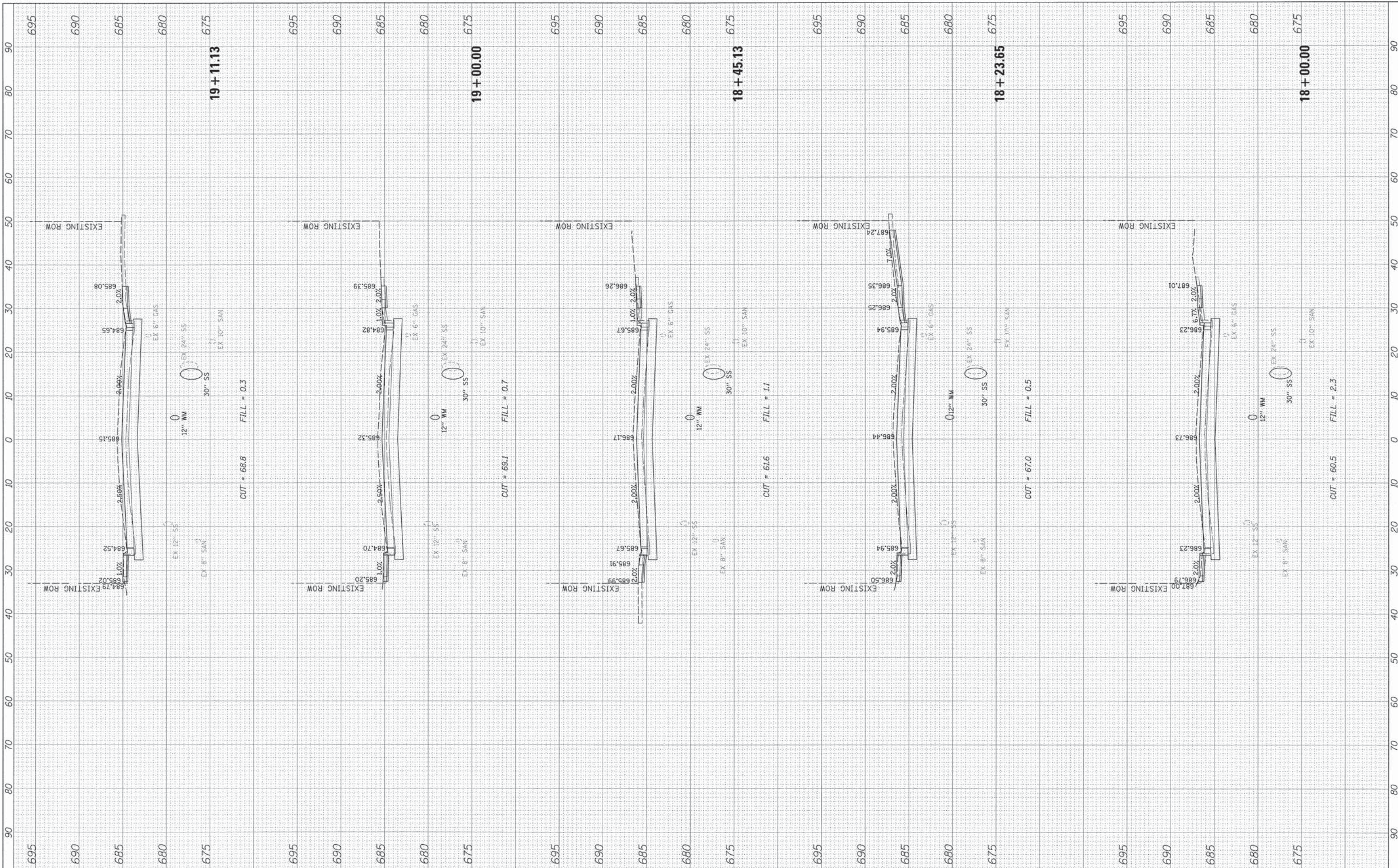
**DEERFIELD ROAD**

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 288
				CONTRACT NO. 63882
ILLINOIS FED. AID PROJECT				



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

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



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**STATE OF ILLINOIS  
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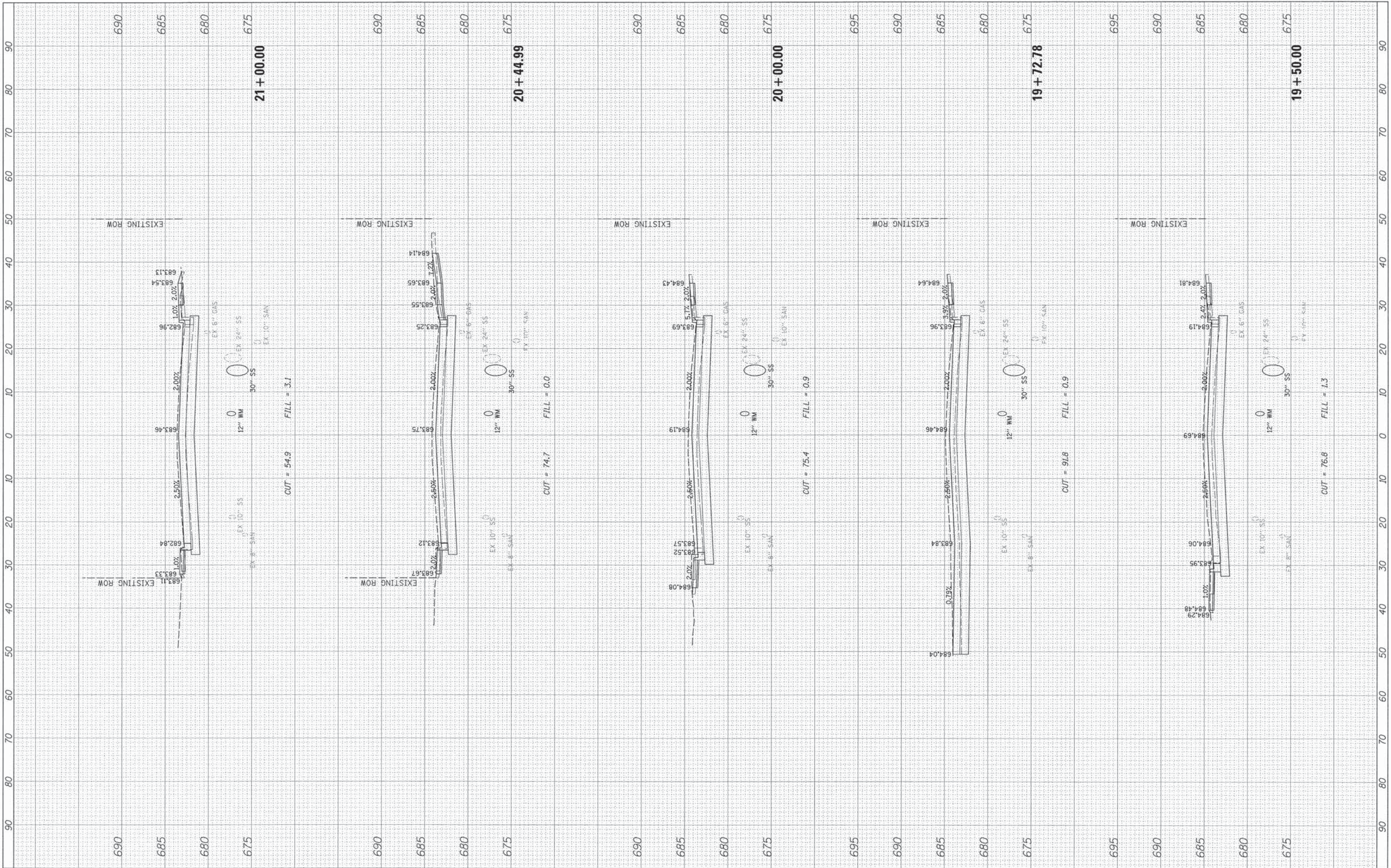
**DEERFIELD ROAD**

SCALE: SHEET 15 OF 43 SHEETS STA. 18+00.00 TO STA. 19+11.13

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	289
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
EXTRACTED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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ORIGINAL SURVEY	DATE
EXTRACTED	
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**STATE OF ILLINOIS  
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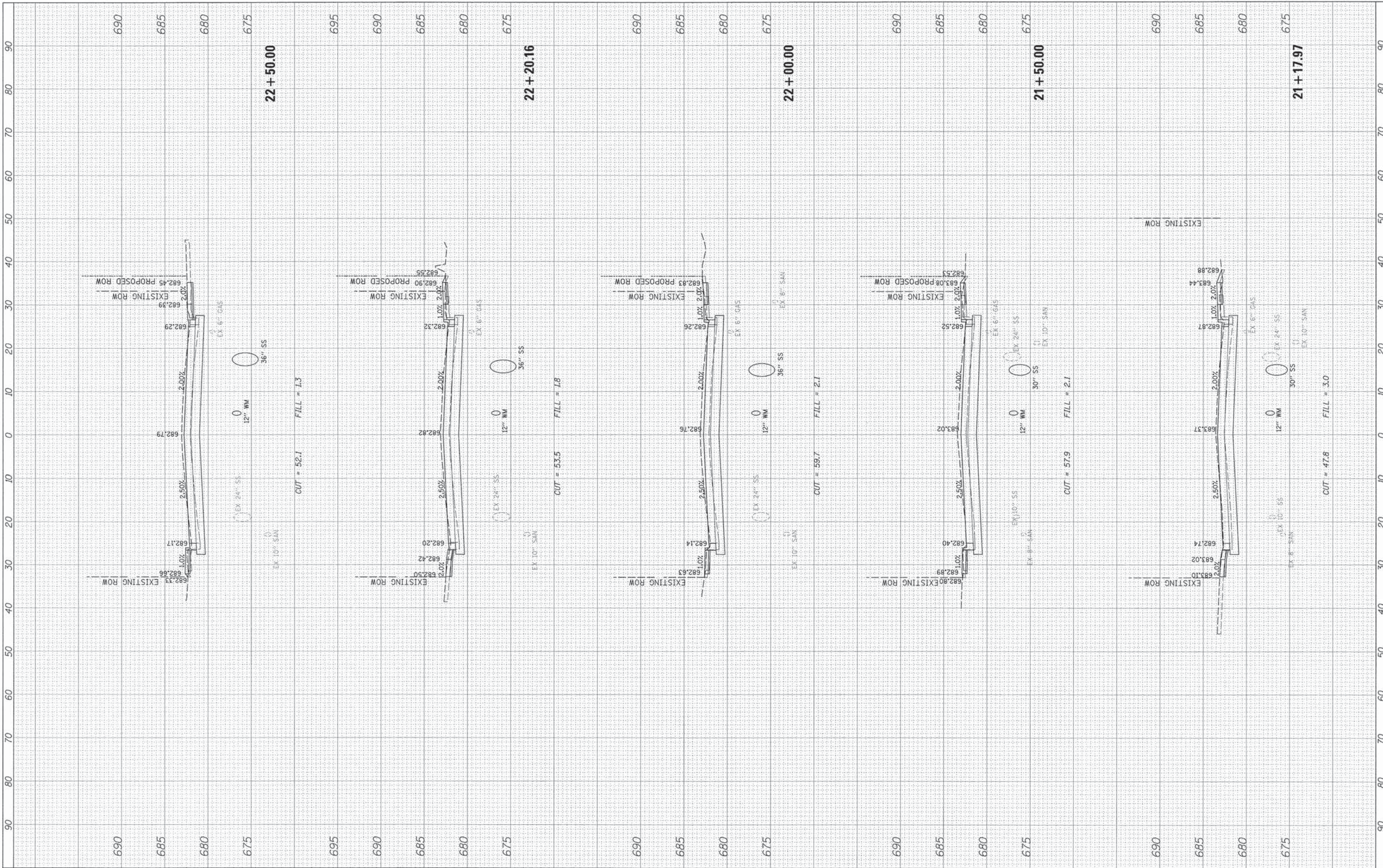
SCALE: SHEET 16 OF 43 SHEETS STA. 19+50.00 TO STA. 21+00.00

**DEERFIELD ROAD**

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 290
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL	SURVEYED	DATE
SUPPLY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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**STATE OF ILLINOIS  
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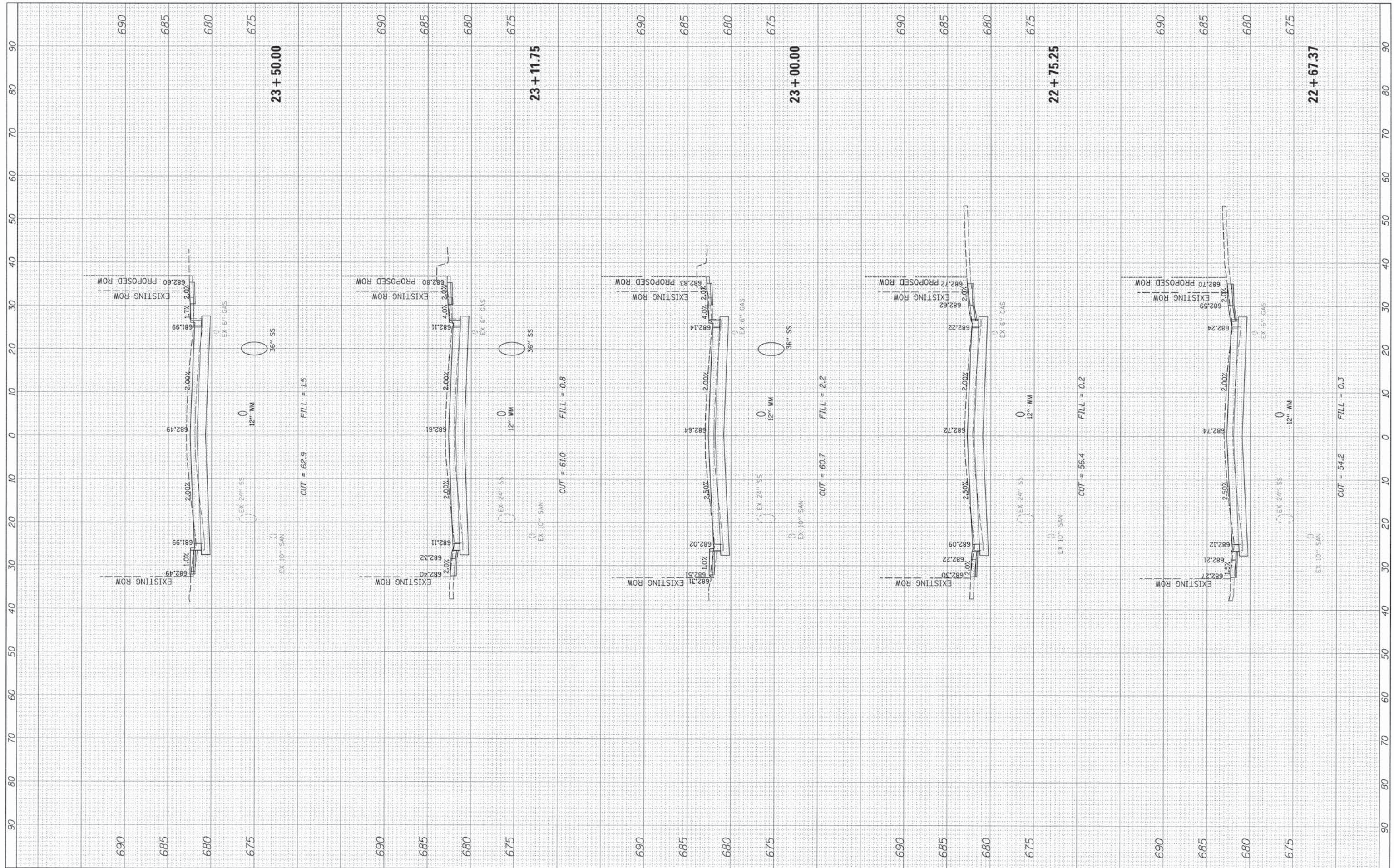
**DEERFIELD ROAD**

SCALE: SHEET 17 OF 43 SHEETS STA. 21+17.97 TO STA. 22+50.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 291
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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NOTE BOOK	PLOTTED		
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 PLOT DATE = 8/30/2015

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

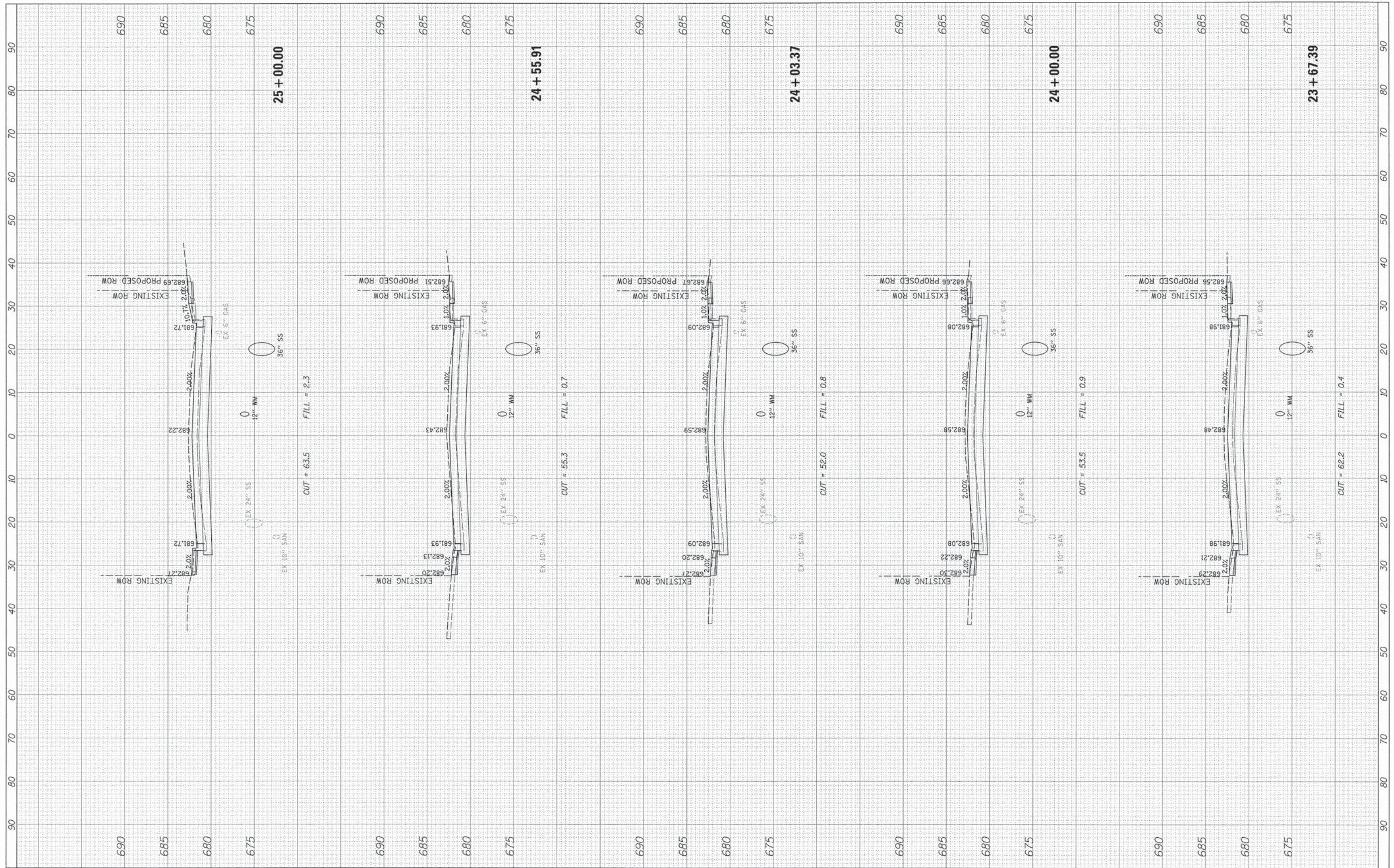
**DEERFIELD ROAD**

SCALE: SHEET 18 OF 43 SHEETS STA. 22+67.37 TO STA. 23+50.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 292
CONTRACT NO. 63882				ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
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**STATE OF ILLINOIS  
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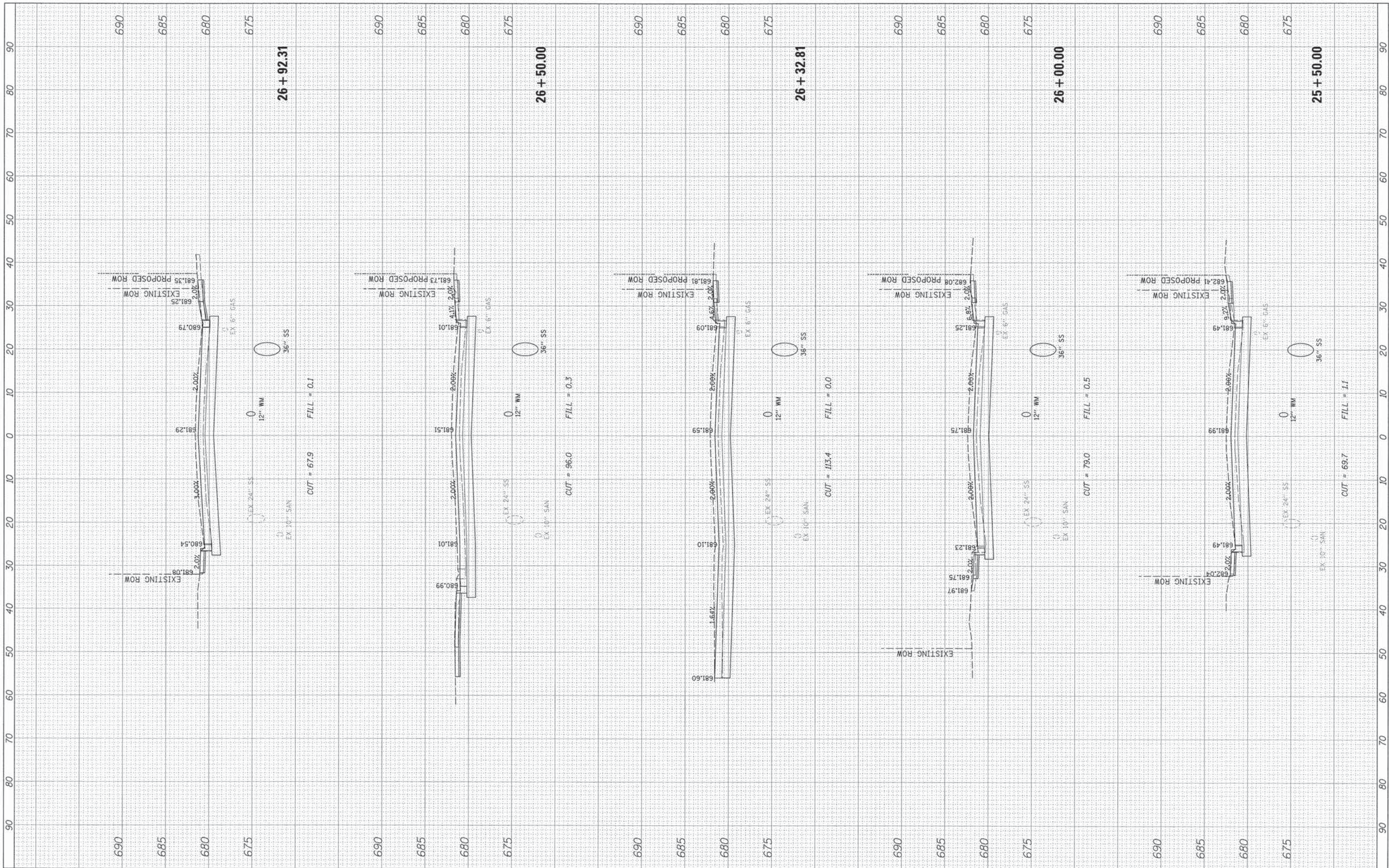
**DEERFIELD ROAD**

SCALE: SHEET 19 OF 43 SHEETS STA. 23+67.39 TO STA. 25+00.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 293
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
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**STATE OF ILLINOIS  
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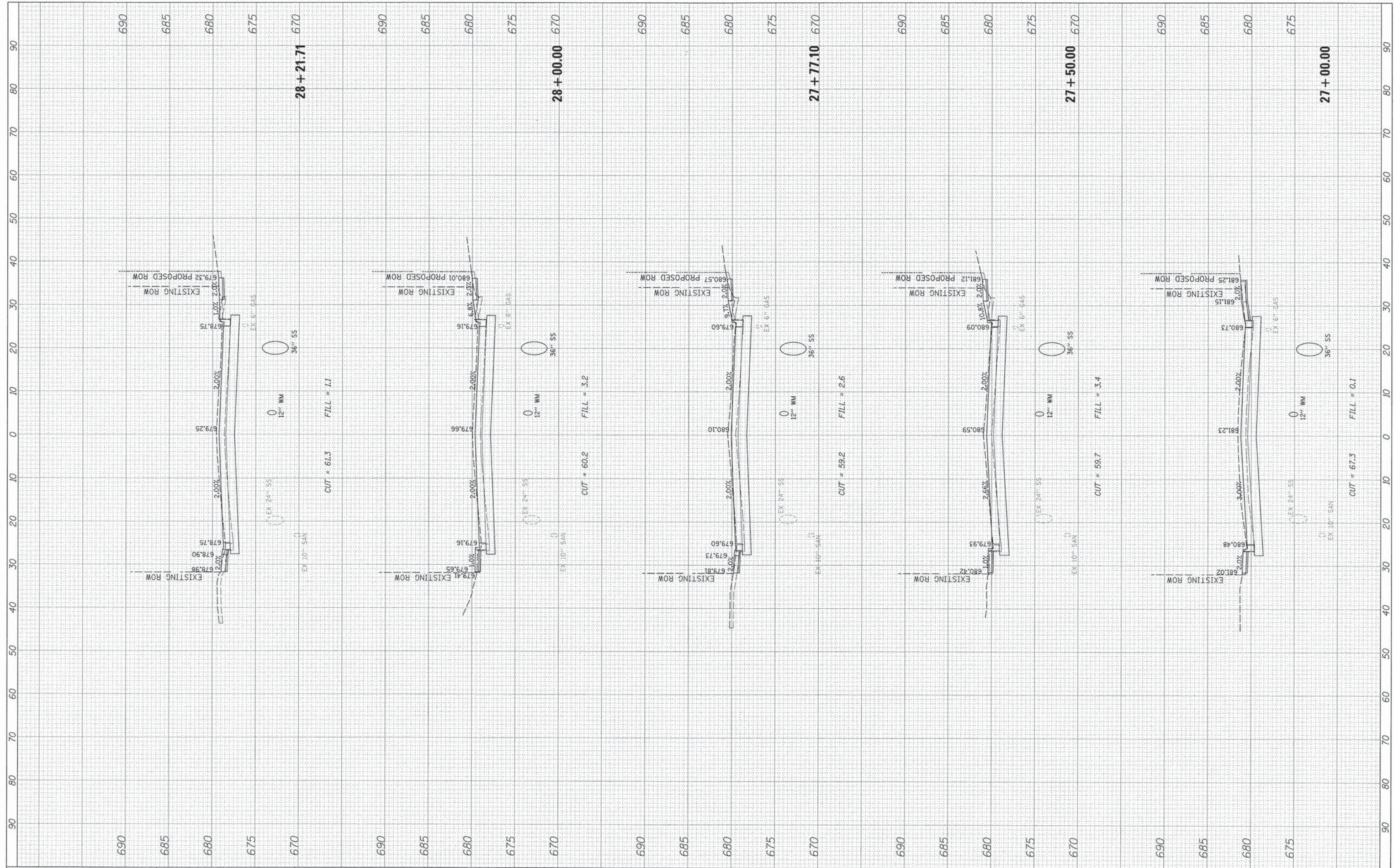
SCALE: SHEET 20 OF 43 SHEETS STA. 25+50.00 TO STA. 26+92.31

**DEERFIELD ROAD**

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 294
CONTRACT NO. 63882				ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

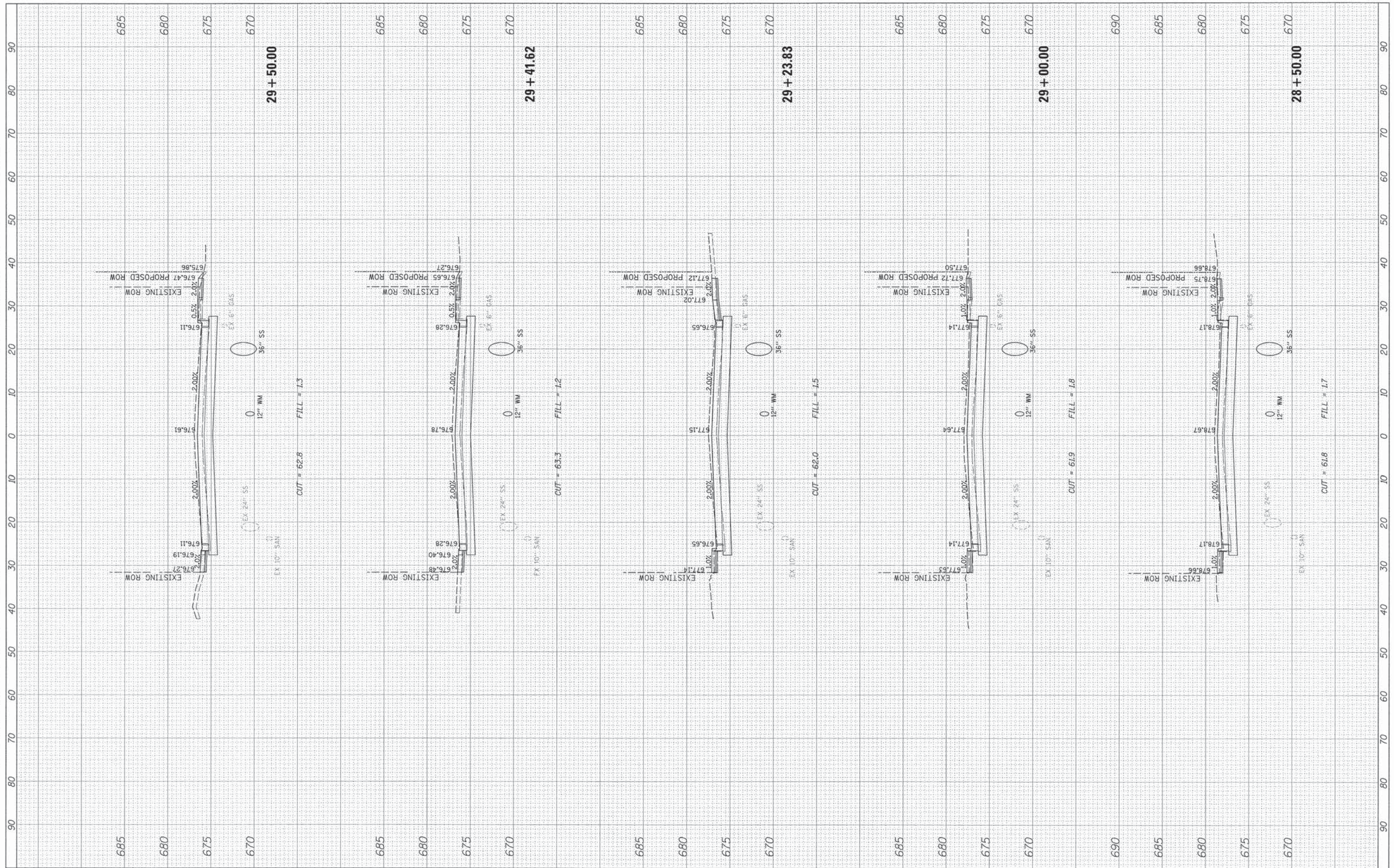
**DEERFIELD ROAD**

SCALE: SHEET 21 OF 43 SHEETS STA. 27+00.00 TO STA. 28+21.71

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 295
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK		
AREAS CHECKED		
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ORIGINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DEERFIELD ROAD**

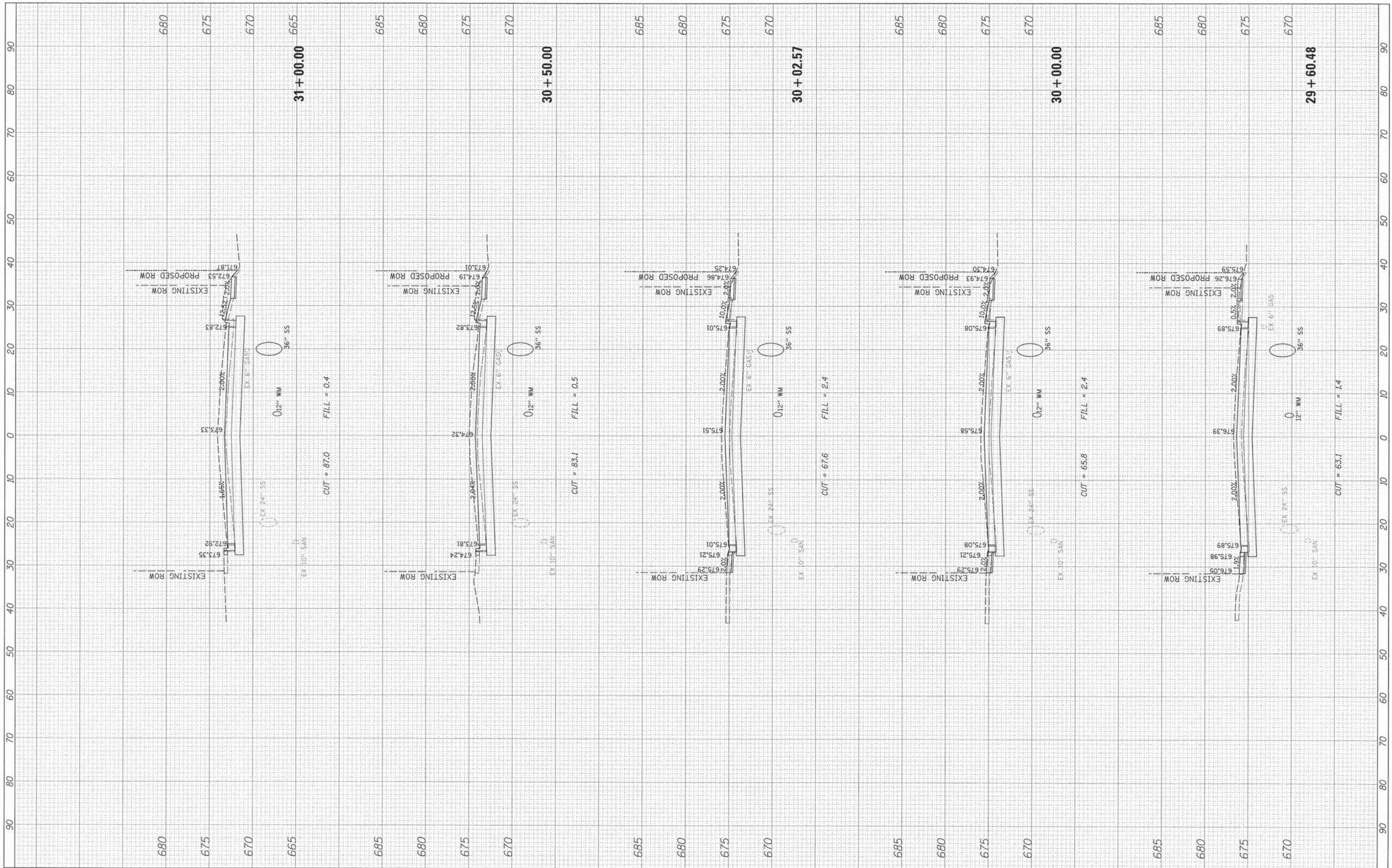
SCALE: SHEET 22 OF 43 SHEETS STA. 28+50.00 TO STA. 29+50.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 296
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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**STATE OF ILLINOIS  
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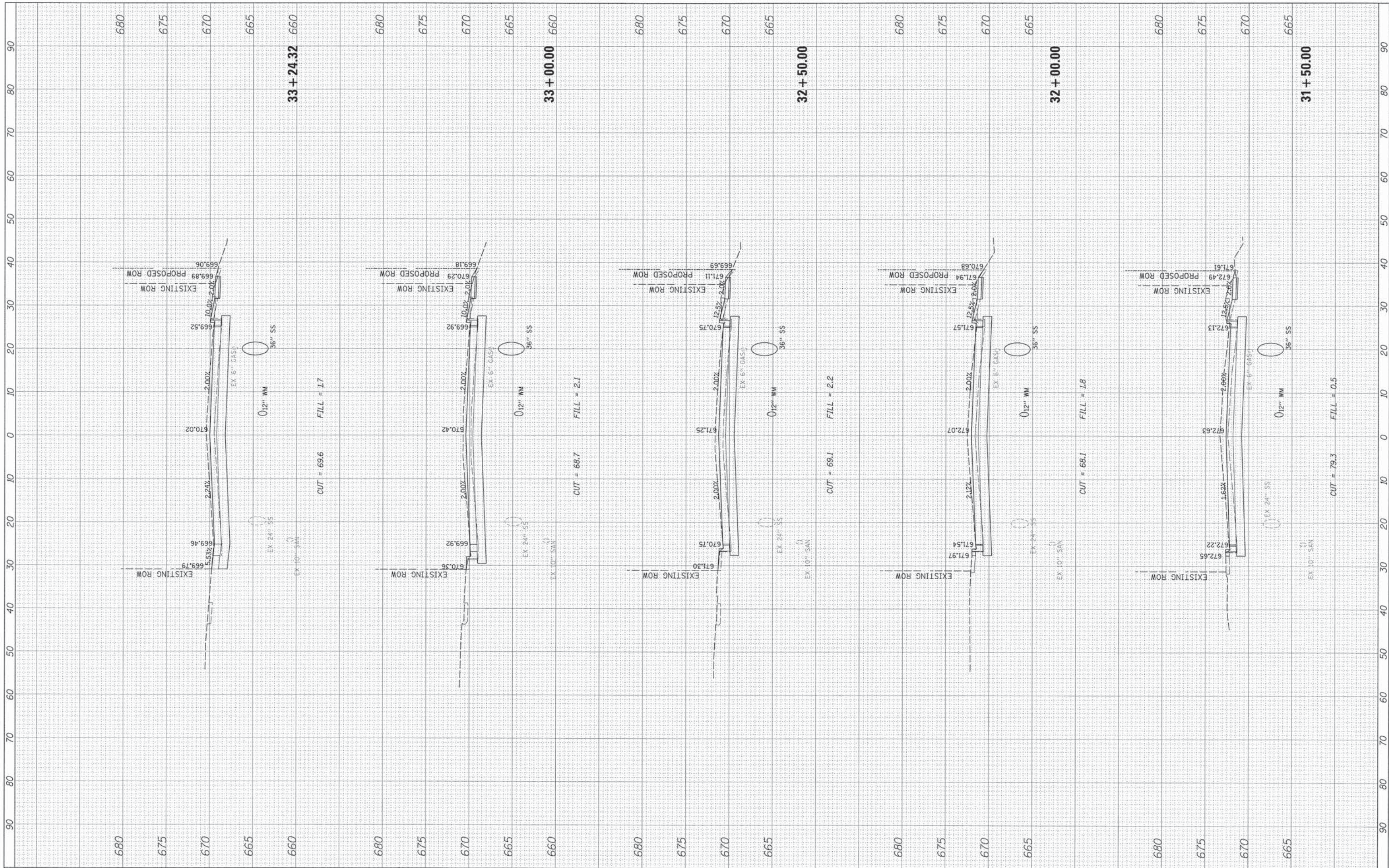
**DEERFIELD ROAD**

SCALE: SHEET 23 OF 43 SHEETS STA. 29+60.48 TO STA. 31+00.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 297
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS		
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**STATE OF ILLINOIS  
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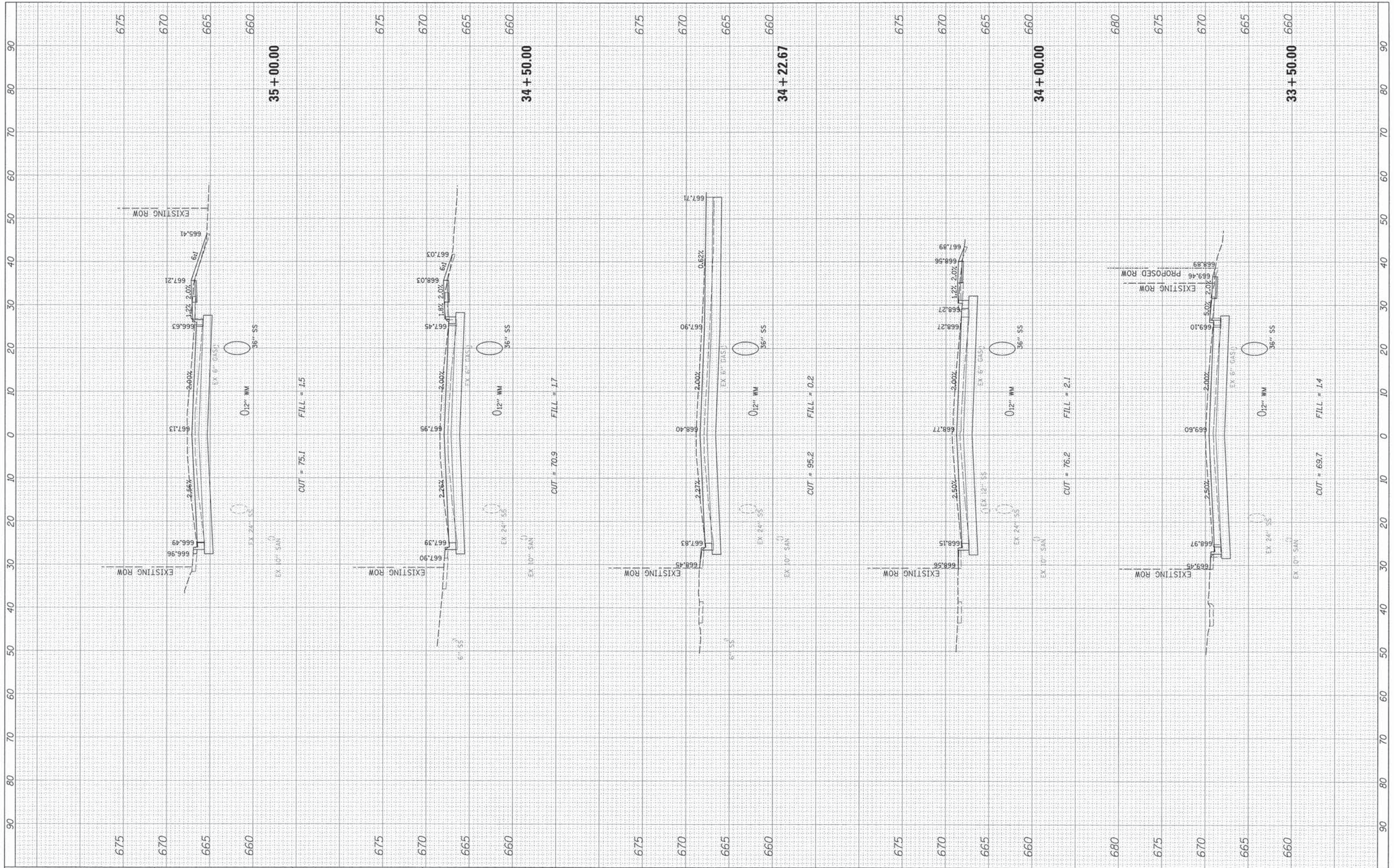
SCALE: SHEET 24 OF 43 SHEETS STA. 31+50.00 TO STA. 33+24.32

**DEERFIELD ROAD**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	11-00092-00-PV	LAKE	424	298
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
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**STATE OF ILLINOIS  
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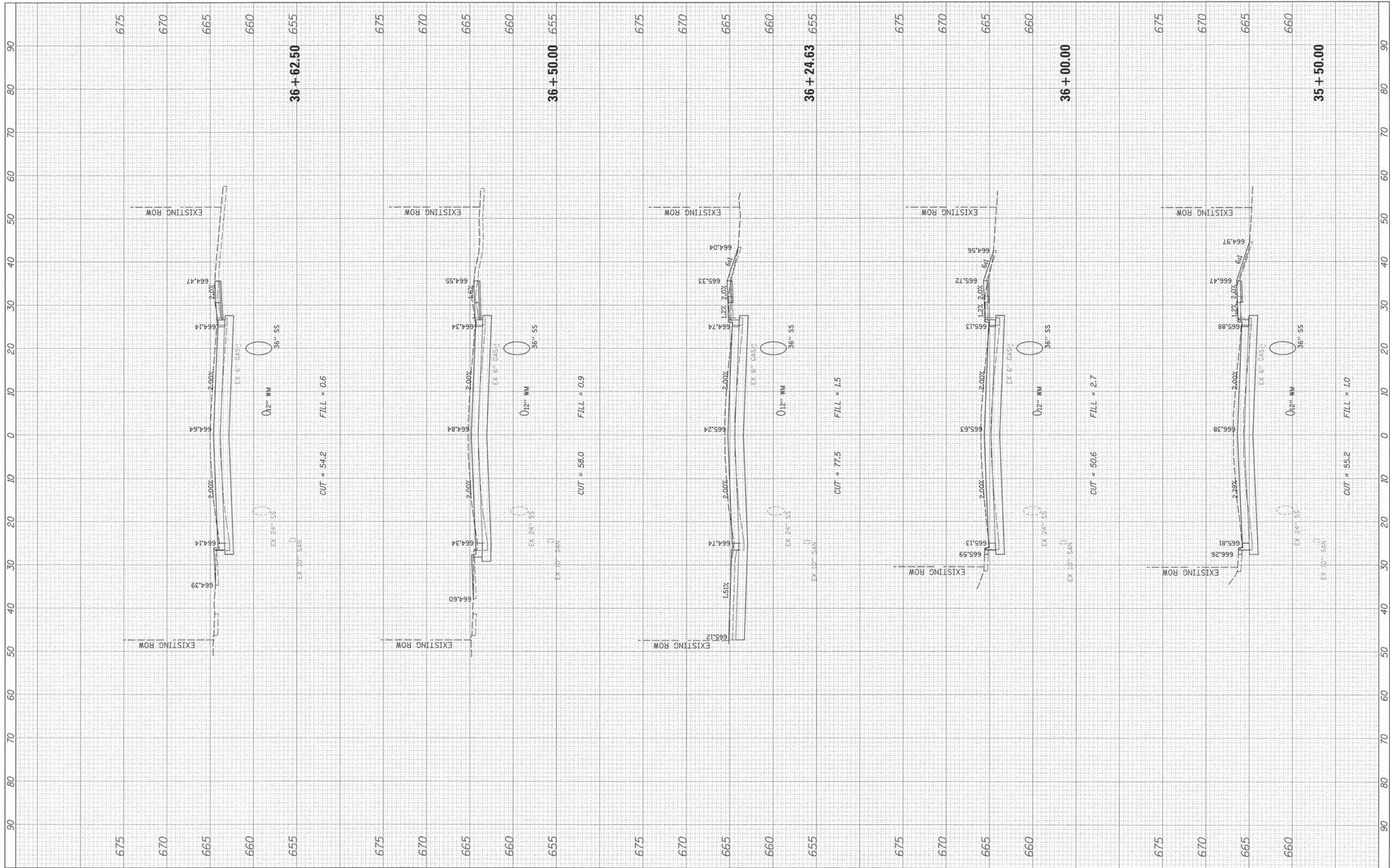
**DEERFIELD ROAD**

SCALE: SHEET 25 OF 43 SHEETS STA. 33+50.00 TO STA. 35+00.00

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 299
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	REVISED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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ORIGINAL SURVEY	REVISED	DATE
NOTE BOOK	PLOTTED	BY
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DEERFIELD ROAD**

SCALE: SHEET 26 OF 43 SHEETS STA. 35+50.00 TO STA. 36+62.50

F.A. RTE. 1257	SECTION 11-00092-00-PV	COUNTY LAKE	TOTAL SHEETS 424	SHEET NO. 300
CONTRACT NO. 63882				
ILLINOIS FED. AID PROJECT				