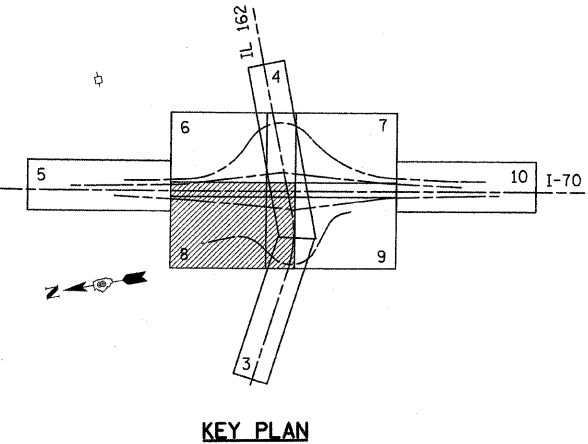
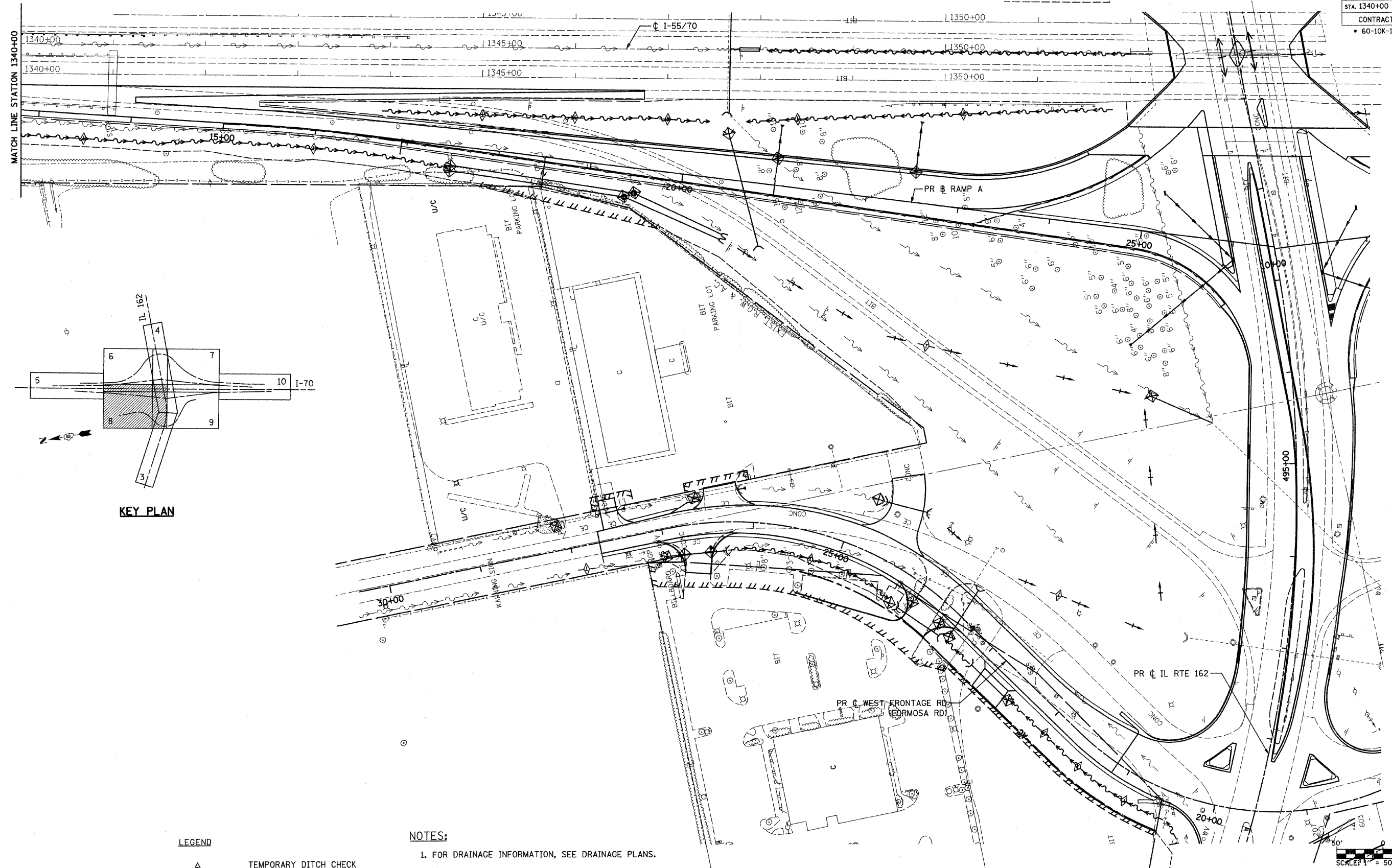


FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	101
STA. 1340+00		TO STA. 1353+15.77		
CONTRACT NO. 76709				
• 60-10K-1, 60-10HB				

PLAN	DATE
NO.	
BY	
CHECKED	
DESIGNED	
NOTED	
APPROVED	
DATE	



**LEGEND**

	TEMPORARY DITCH CHECK
	EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION

- NOTES:**
1. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS.
  2. PERIMETER EROSION BARRIER IS LOCATED ON TEMPORARY EASEMENT/PERMANENT EASEMENT/R.O.W. LINE, AS SHOWN ON THE PLANS.
  3. FOR PERMANENT EROSION CONTROL INFORMATION, SEE SEEDING PLANS.
  4. FOR EROSION CONTROL DURING STAGED CONSTRUCTION, SEE EROSION CONTROL AND TEMPORARY DRAINAGE PLAN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STORM WATER POLLUTION PREVENTION PLAN - 8**

FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

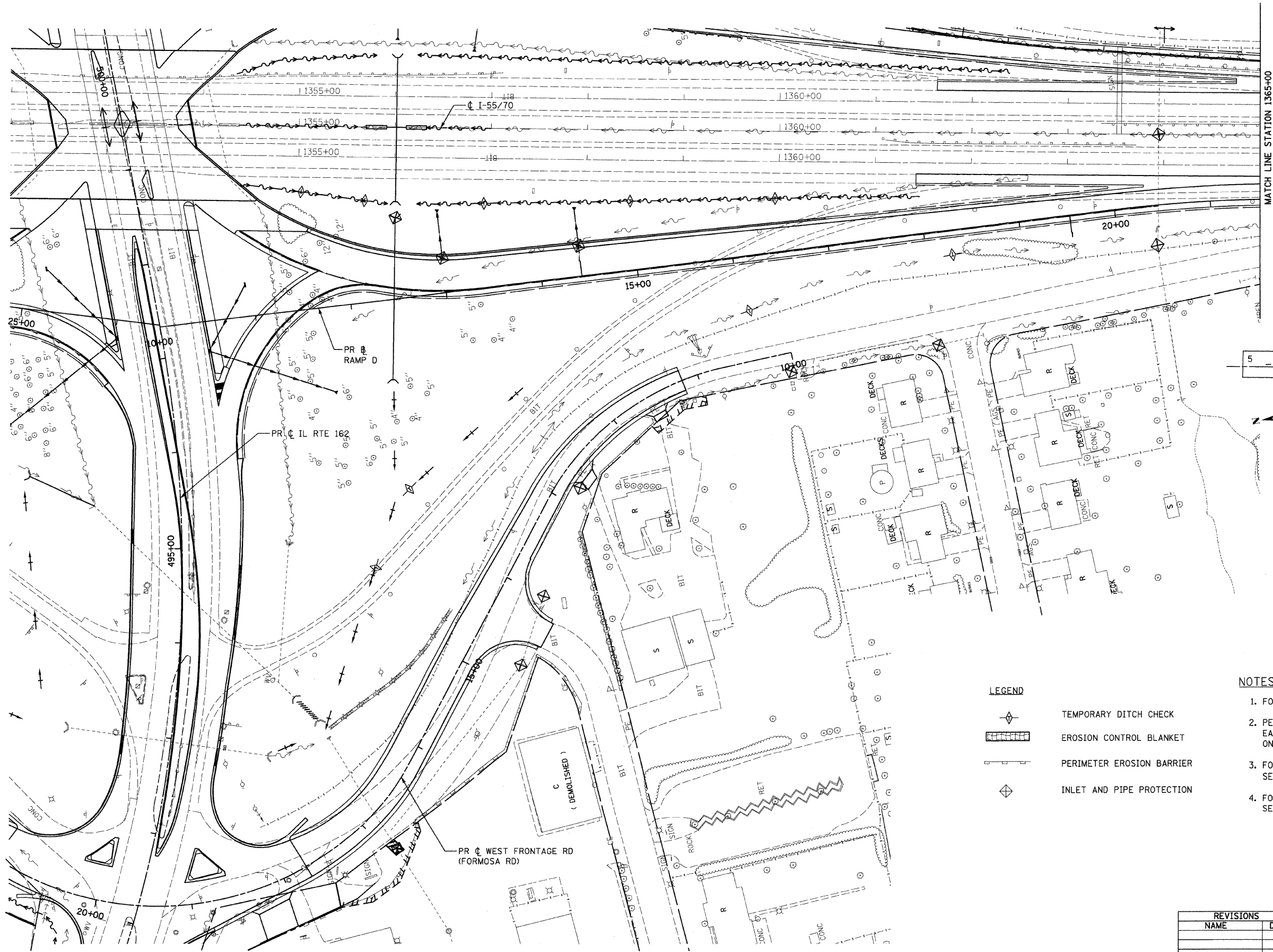
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PLOT DATE: \*DATE-TIME\*

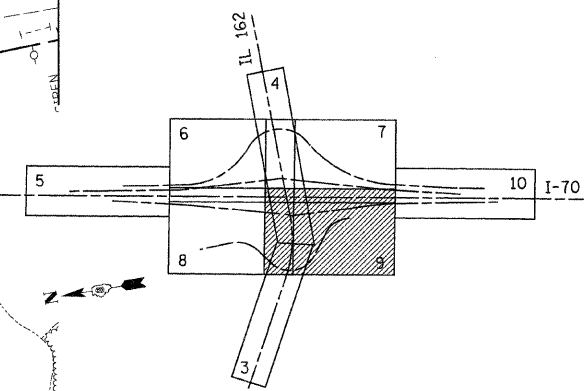
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FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	102
STA. 1353+15.77		TO STA. 1365+00		
CONTRACT NO. 76709				
• 60-10K-1, 60-10HB				





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	IN FIELD		
	CHECKED		
	IN OFFICE		
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	FIELD FILE NAME		



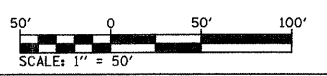
MATCH LINE STATION 1365+00



**KEY PLAN**

- LEGEND**
-  TEMPORARY DITCH CHECK
  -  EROSION CONTROL BLANKET
  -  PERIMETER EROSION BARRIER
  -  INLET AND PIPE PROTECTION

- NOTES:**
- FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS.
  - PERIMETER EROSION BARRIER IS LOCATED ON TEMPORARY EASEMENT/PERMANENT EASEMENT/R.O.W. LINE, AS SHOWN ON THE PLANS.
  - FOR PERMANENT EROSION CONTROL INFORMATION, SEE SEEDING PLANS.
  - FOR EROSION CONTROL DURING STAGED CONSTRUCTION, SEE EROSION CONTROL AND TEMPORARY DRAINAGE PLAN.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STORM WATER POLLUTION PREVENTION PLAN - 9**

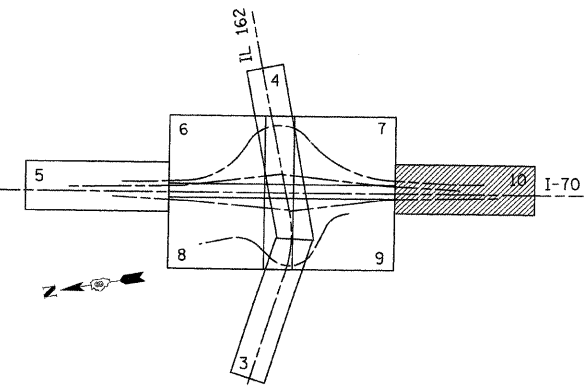
FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

REVISIONS	
NAME	DATE

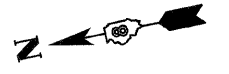
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 PLOT DATE: \*DATE-TIME\*

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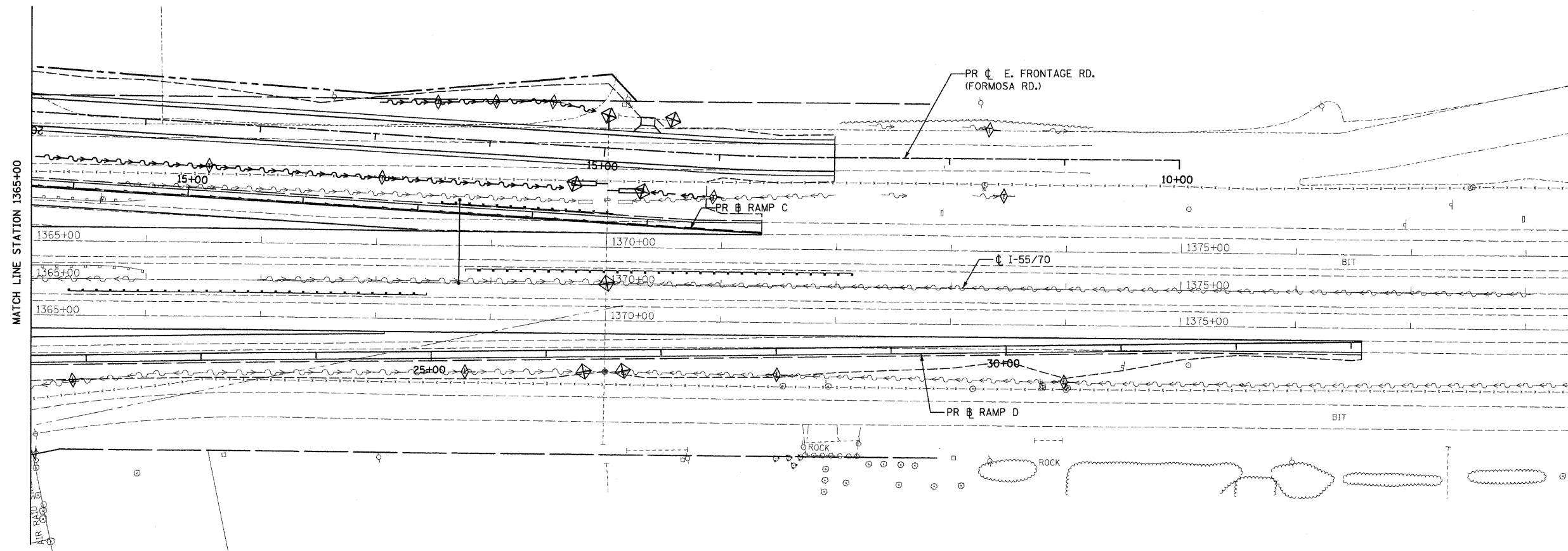
FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	103
STA. 1365+00		TO STA. 1378+00		
CONTRACT NO. 76709				
• 60-10K-1, 60-10HB				



KEY PLAN



PLAN	SURVEYED	BY	DATE
	ADJUSTED		
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	PT. OF WAY CHECKED		
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	CADD FILE NAME		

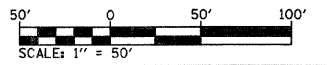


NOTES:

1. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS.
2. PERIMETER EROSION BARRIER IS LOCATED ON TEMPORARY EASEMENT/PERMANENT EASEMENT/R.O.W. LINE, AS SHOWN ON THE PLANS.
3. FOR PERMANENT EROSION CONTROL INFORMATION, SEE SEEDING PLANS.
4. FOR EROSION CONTROL DURING STAGED CONSTRUCTION, SEE EROSION CONTROL AND TEMPORARY DRAINAGE PLAN.

LEGEND

- TEMPORARY DITCH CHECK
- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
STORM WATER POLLUTION  
PREVENTION PLAN - 10

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

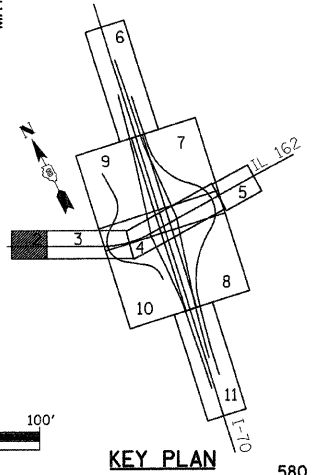
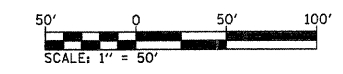
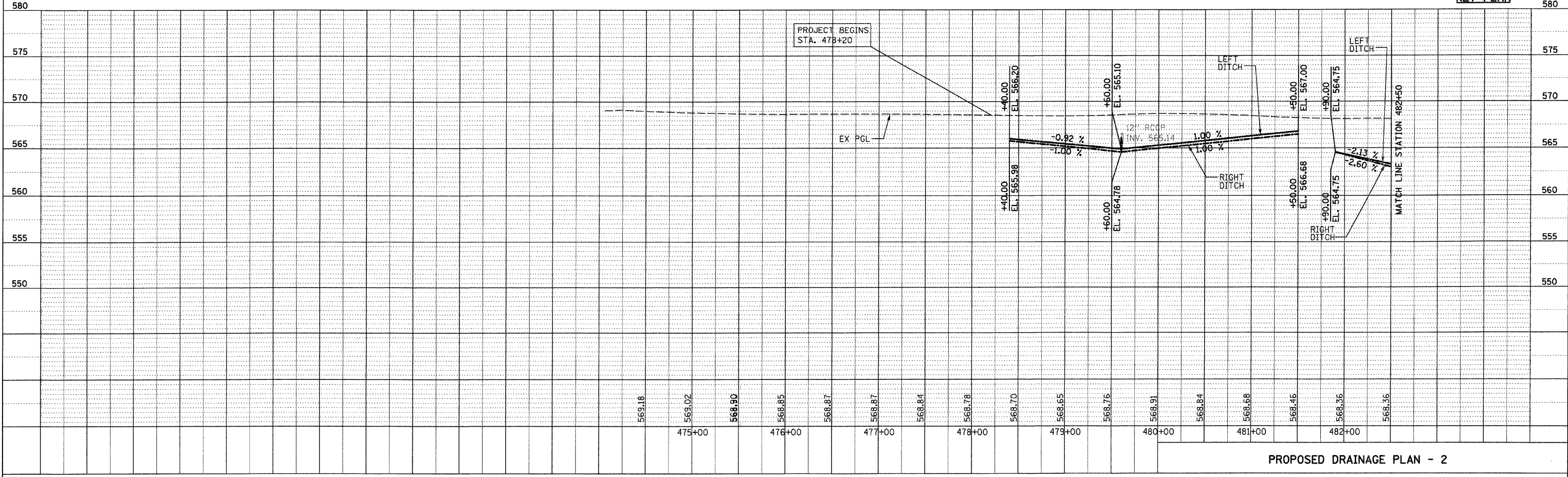
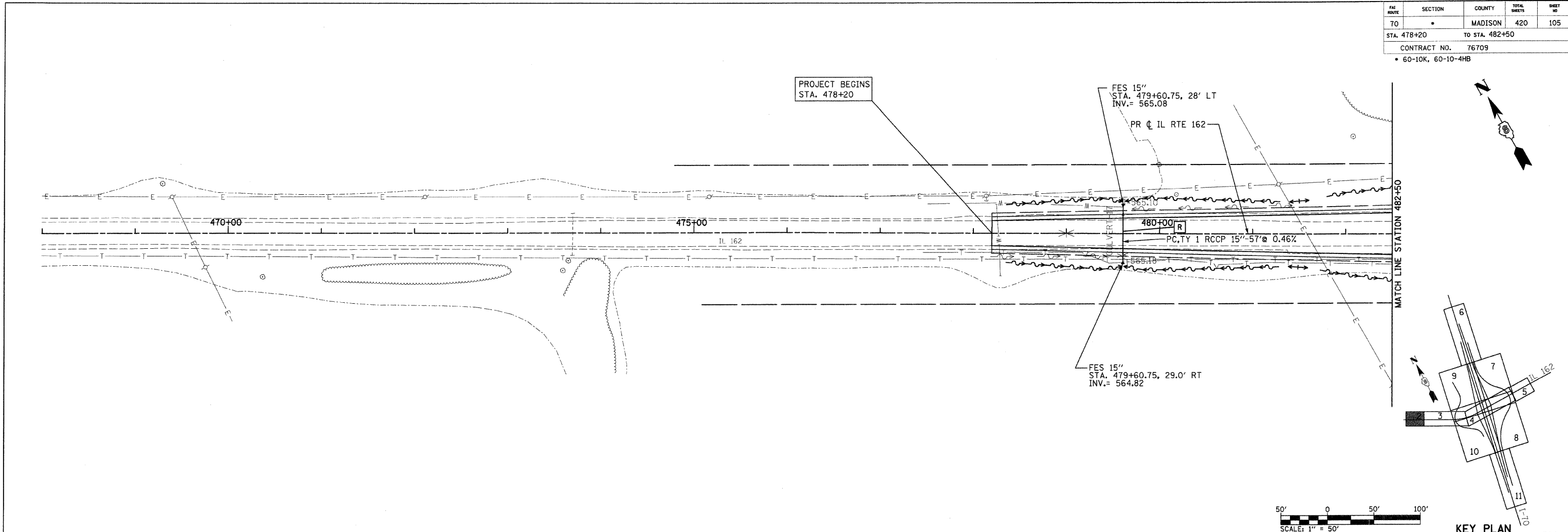
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FBI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	105
STA. 478+20		TO STA. 482+50		
CONTRACT NO. 76709		• 60-10K, 60-10-4HB		

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF MAY CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
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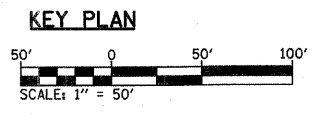
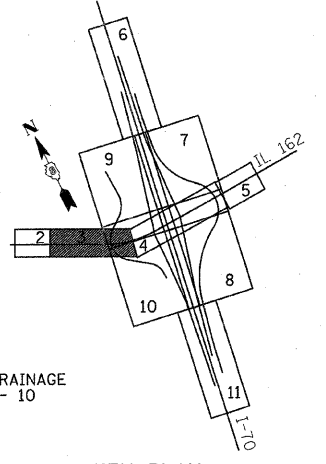
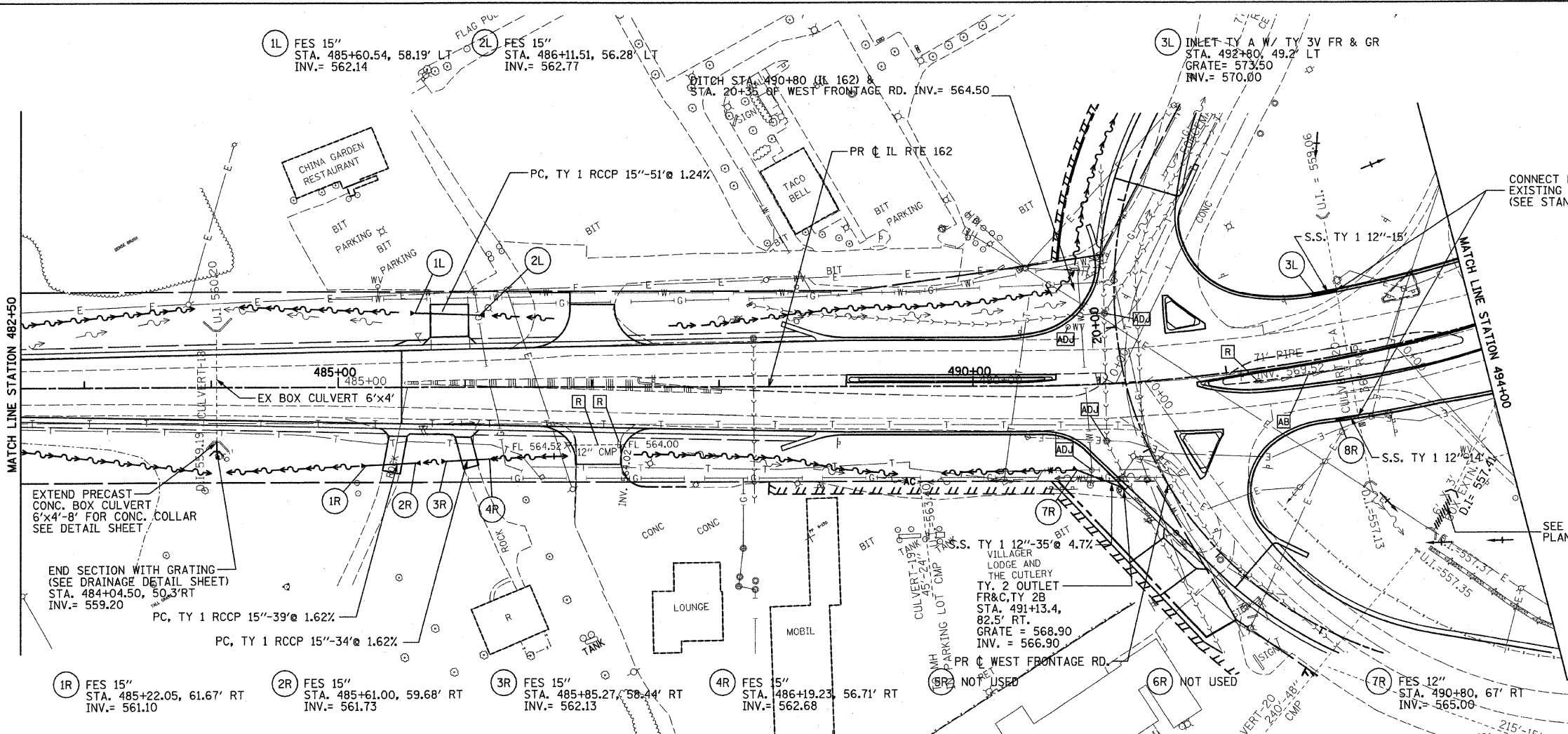


PROPOSED DRAINAGE PLAN - 2

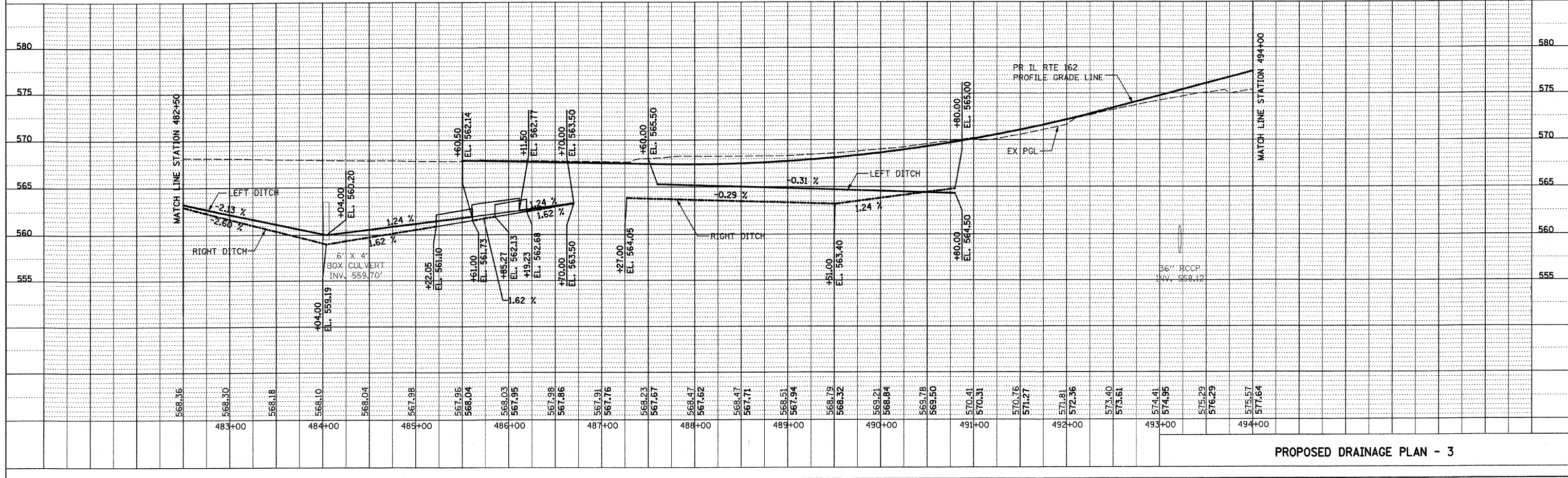
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FILE ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	106
STA. 482+50		TO STA. 494+00		
CONTRACT NO. 76709				
• 60-10K, 60-10-4HB				

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



PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NO. OF WAY CHECKED		
STRUCTURE NOTATIONS OK'D		



PROPOSED DRAINAGE PLAN - 3

PLOT DATE: \*DATE-TIME\*

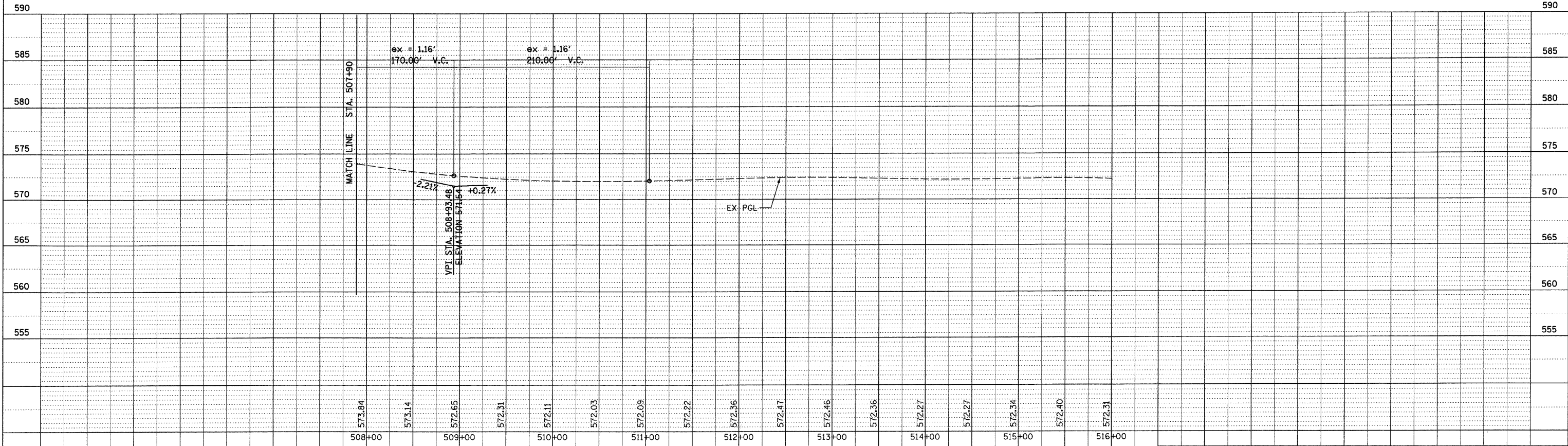
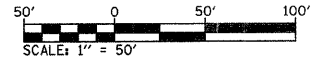
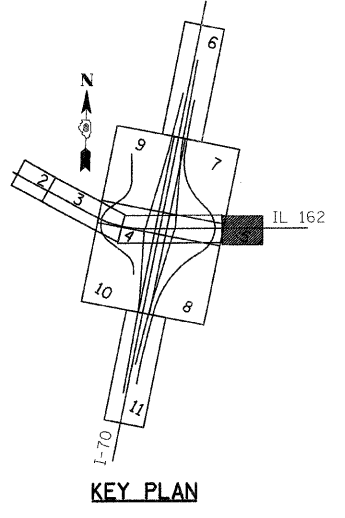
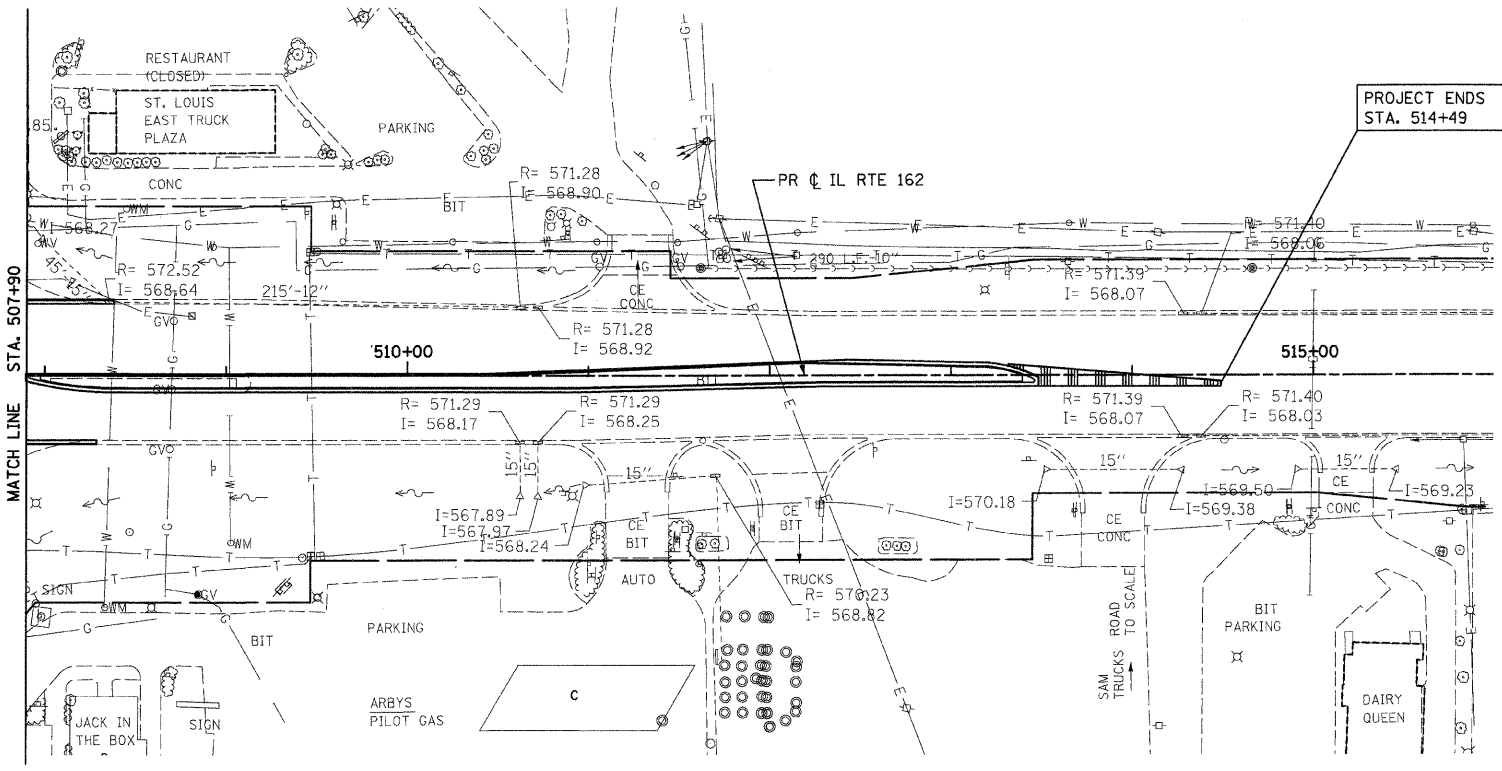
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FBI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	108
STA. 507+90		TO STA. 516+00		
CONTRACT NO. 76709				
• 60-10K, 60-10-4HB				

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOT CHECKED		
	NOTE BOOK		
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PROFILE	SURVEYED	BY	DATE
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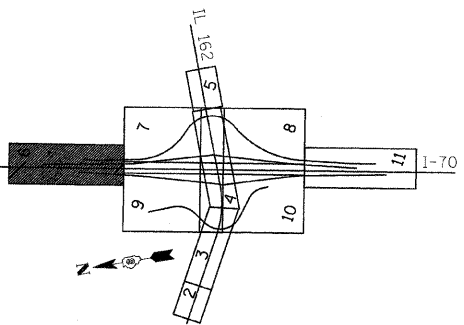


PROPOSED DRAINAGE PLAN - 5

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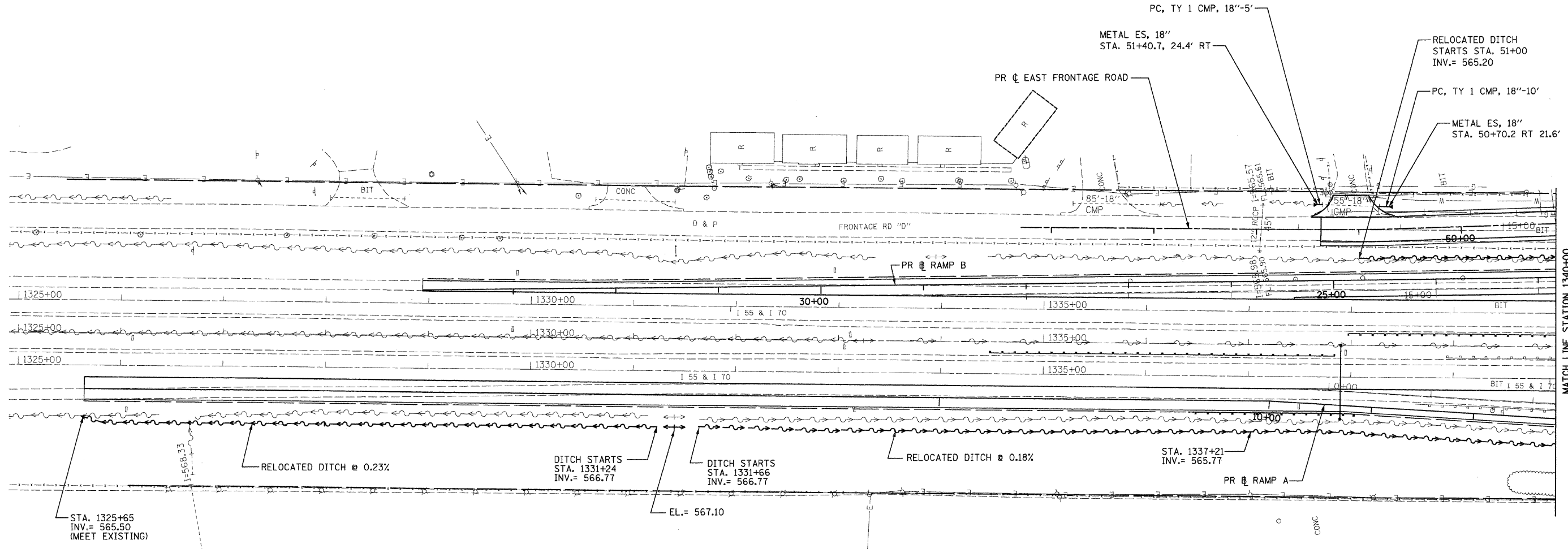


FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	109
STA. 1325+00		TO STA. 1340+00		
CONTRACT NO. 76709		• 60-10K, 60-10-4HB		



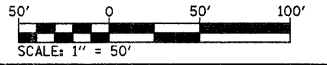
KEY PLAN

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	RT. OF WAY CHECKED		
	FILE NAME		



MATCH LINE STATION 1340+00

NOTE:  
1. FOR RAMP A DITCH PROFILE, SEE PROPOSED DRAINAGE PROFILE DRAWINGS.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
PROPOSED DRAINAGE PLAN - 6

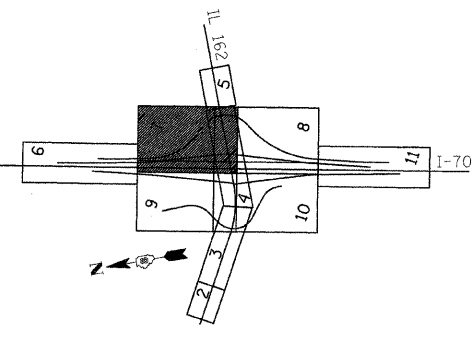
FAI ROUTE 70  
SECTION 60-10K, 60-10-4HB  
MADISON COUNTY

DRAWN BY: GRH  
PLOT DATE: \*DATE-TIME\*

REVISIONS	
NAME	DATE

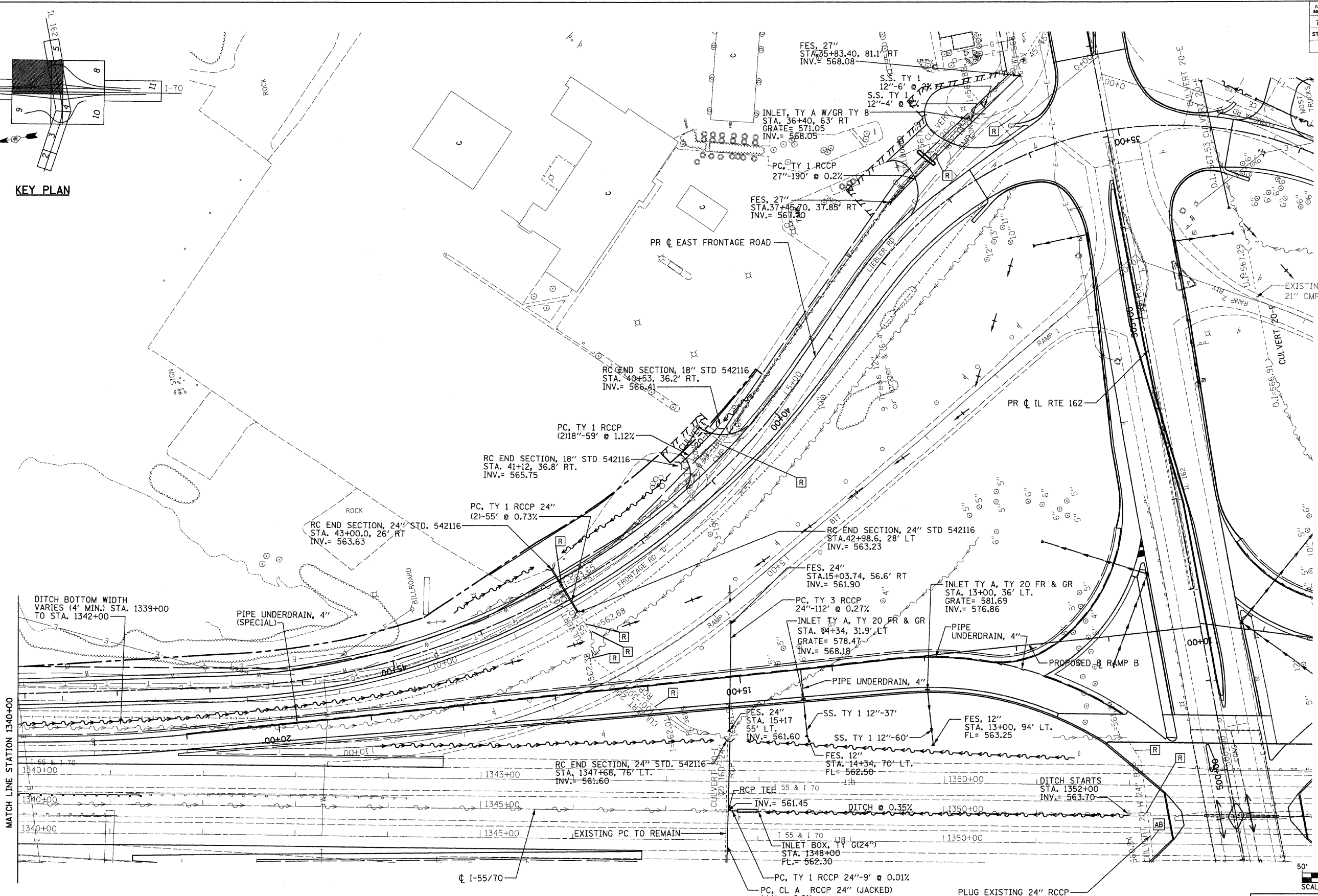
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FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	110
STA. 1340+00		TO STA. 1353+15.77		
CONTRACT NO. 76709		• 60-10K, 60-10-4HB		



KEY PLAN

PLAN	DATE
BY	
CHECKED	
APPROVED	
DESIGNED	
NOTED	
NO.	



- NOTE:**
- FOR STORM SEWER INFORMATION AT IL 162, SEE PROPOSED DRAINAGE PLAN-4.
  - FOR DITCH PROFILES, SEE PROPOSED DRAINAGE PROFILE DRAWINGS.
  - FOR PROPOSED SWALE INFORMATION, SEE INTERCHANGE GRADING PLAN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED DRAINAGE PLAN - 7**

FAI ROUTE 70  
 SECTION 60-10K, 60-10-4HB  
 MADISON COUNTY

DRAWN BY: GRH  
 PLOT DATE: \*DATE-TIME\*

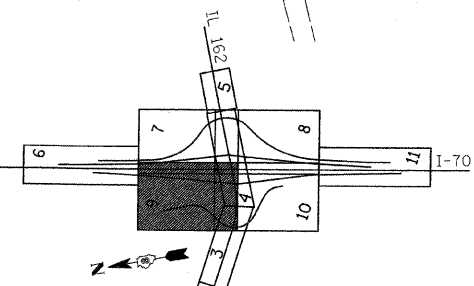
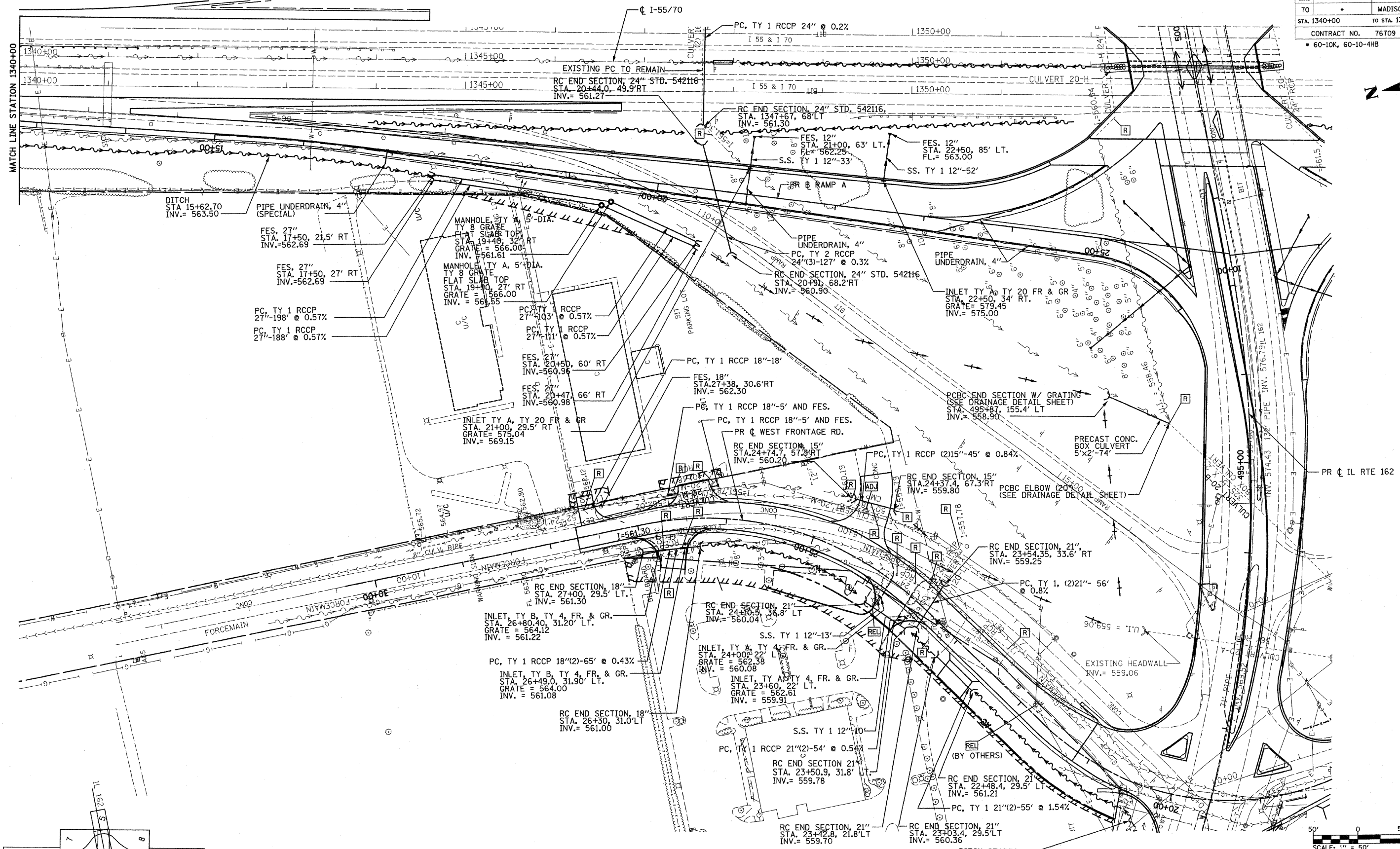
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FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	MADISON	420	112
STA. 1340+00		TO STA. 1353+15.77		
CONTRACT NO. 76709		* 60-10K, 60-10-4HB		

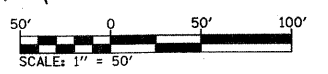


PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	REVISIONS	
	NO. OF DAYS CHECKED	
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KEY PLAN

- NOTE:
1. FOR STORM SEWER INFORMATION AT IL 162, SEE PROPOSED DRAINAGE PLAN 4.
  2. FOR DITCH PROFILES, SEE PROPOSED DRAINAGE PROFILE DRAWINGS.
  3. FOR PROPOSED SWALE INFORMATION, SEE INTERCHANGE GRADING PLAN.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
PROPOSED DRAINAGE PLAN - 9

FAI ROUTE 70  
SECTION 60-10K, 60-10-4HB  
MADISON COUNTY

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

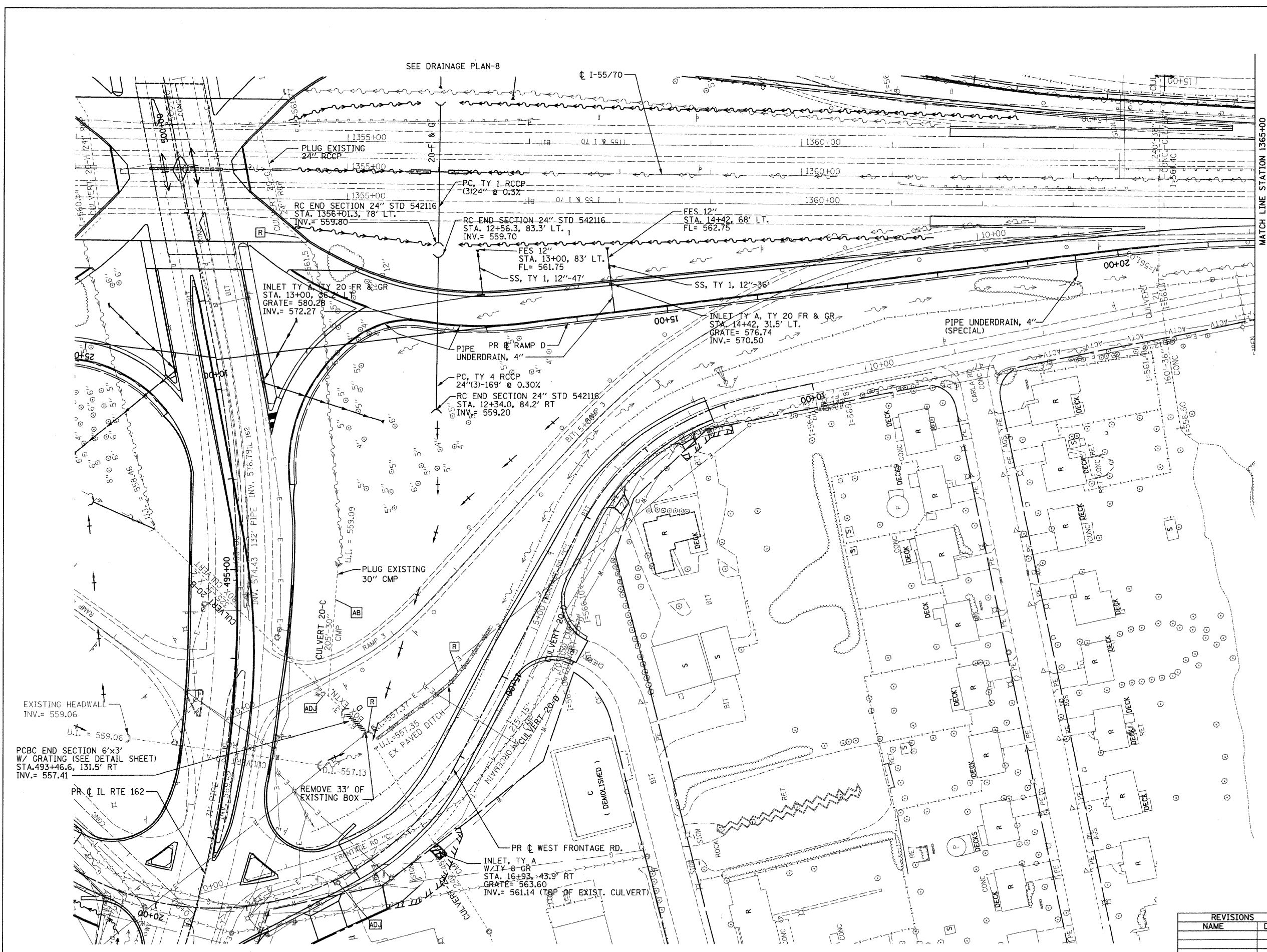
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NAME	DATE

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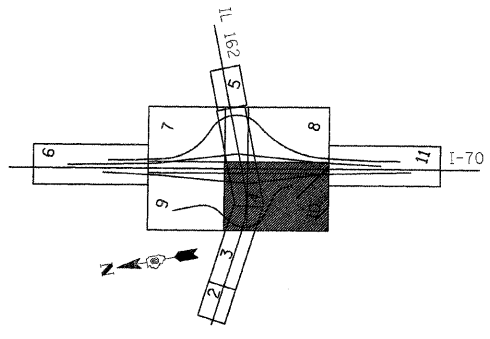
FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	MADISON	420	113
STA. 1353+15.77		TO STA. 1365+00		
CONTRACT NO. 76709				
• 60-10K, 60-10-4HB				



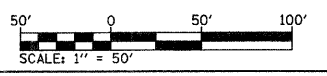
PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	DATE	



- NOTES:**
1. FOR STORM SEWER INFORMATION AT IL 162, SEE PROPOSED DRAINAGE PLAN-4.
  2. FOR DITCH PROFILES, SEE PROPOSED DRAINAGE PROFILE DRAWINGS.
  3. FOR PROPOSED SWALE INFORMATION, SEE INTERCHANGE GRADING PLAN.



**KEY PLAN**



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED DRAINAGE PLAN - 10**

FAI ROUTE 70  
SECTION 60-10K, 60-10-4HB  
MADISON COUNTY

DRAWN BY: GRH  
PLOT DATE: \*DATE-TIME\*

REVISIONS	
NAME	DATE

\*DATE-TIME\*  
\*DRAWN BY\*  
\*CHECKED BY\*  
\*DATE\*  
\*SCALE\*  
\*SHEET NO.\*

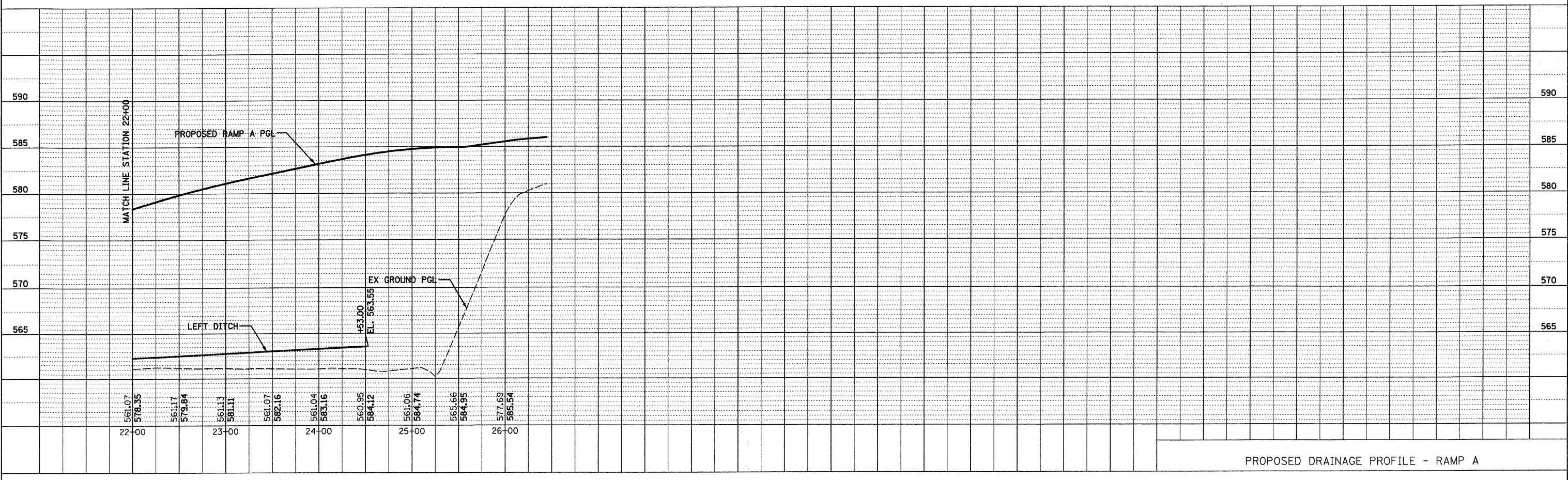
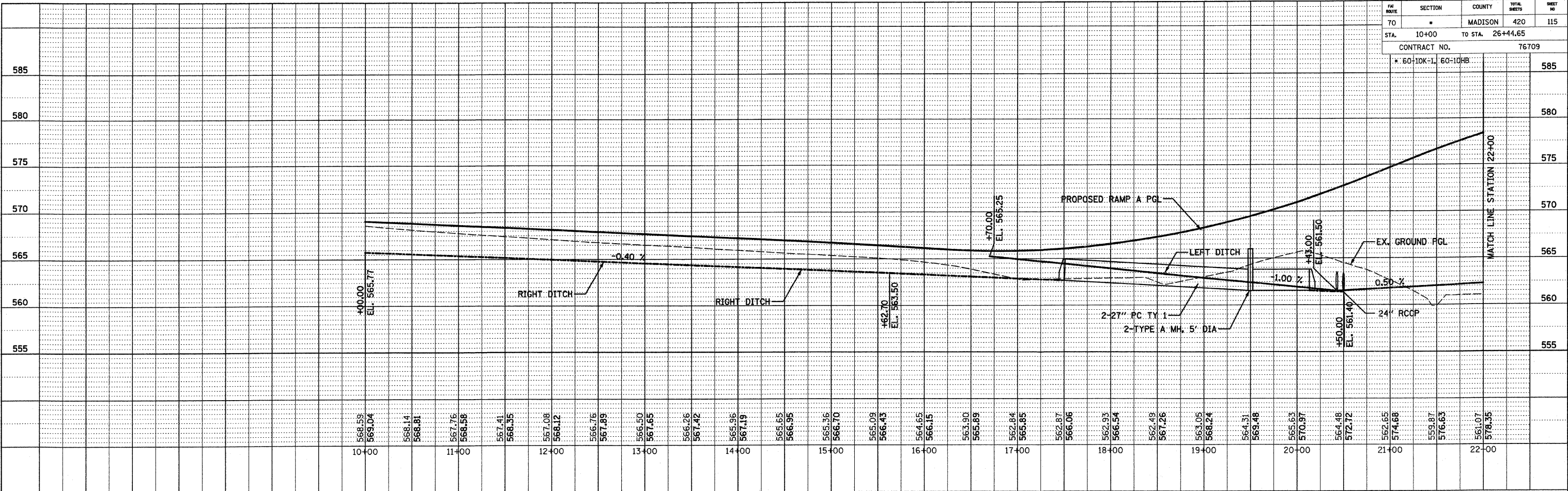


PLAN  
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 BY \_\_\_\_\_  
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PROFILE  
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 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 DATE \_\_\_\_\_

DATE-TIME  
 DATE-TIME  
 DATE-TIME

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MADISON	MADISON	420	115
CONTRACT NO. 76709			
* 60-10K-1, 60-10HB			

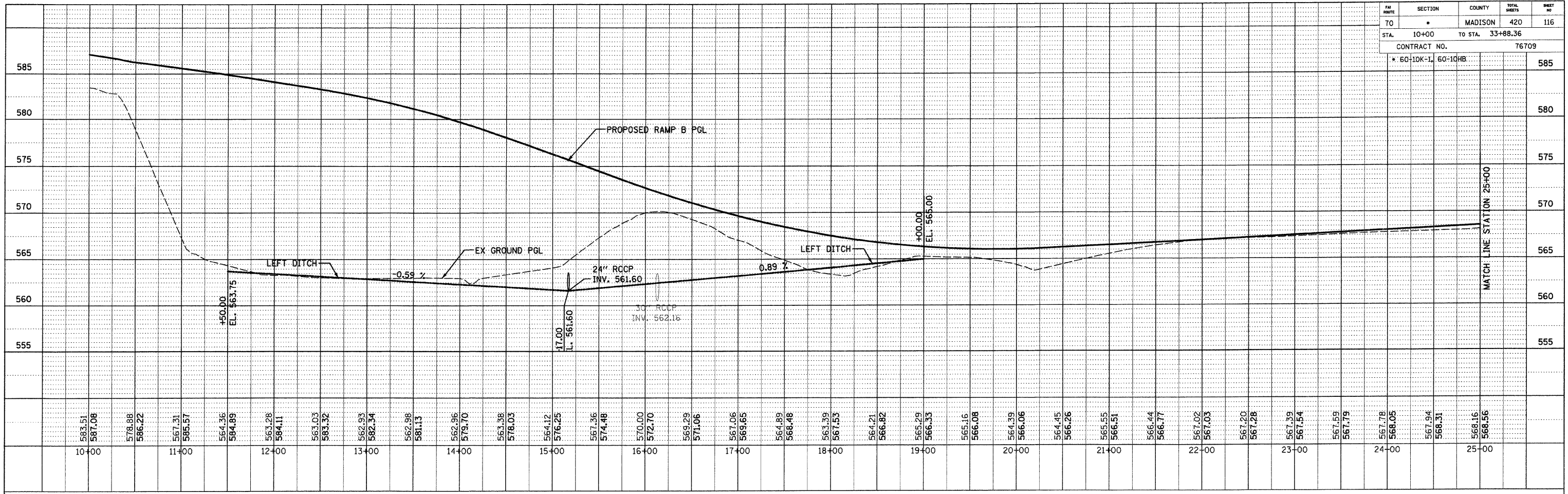


PROPOSED DRAINAGE PROFILE - RAMP A

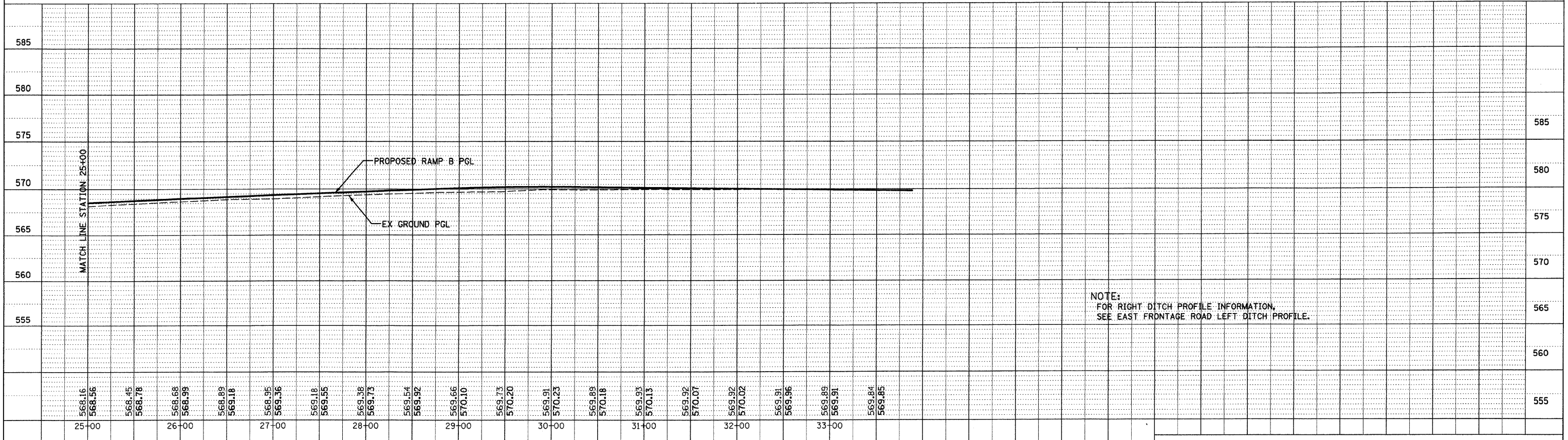
PLOT DATE: DATE-TIME

FM ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	116
STA. 10+00		TO STA. 33+88.36		
CONTRACT NO. 76709				
* 60-10K-1,	60-10HB			585

PLAN SURVEYED \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 P.T. OF DAY CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_ CADP FILE NAME \_\_\_\_\_



PROFILE SURVEYED \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATION CHFD \_\_\_\_\_



NOTE:  
 FOR RIGHT DITCH PROFILE INFORMATION,  
 SEE EAST FRONTAGE ROAD LEFT DITCH PROFILE.

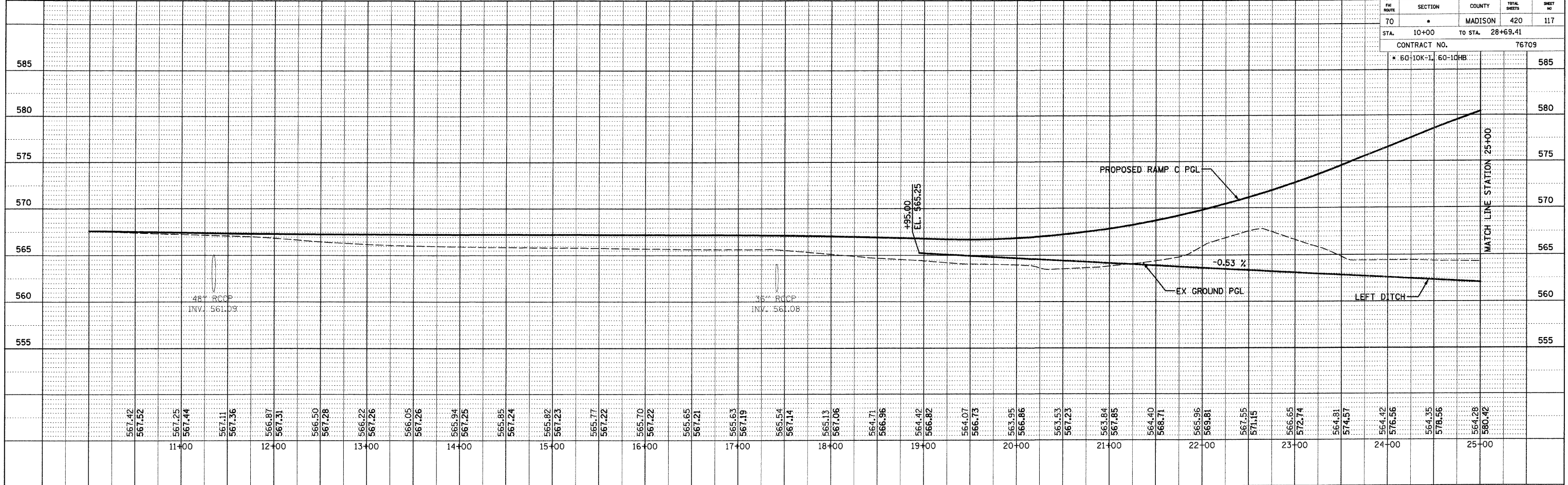
PROPOSED DRAINAGE PROFILE - RAMP B

#DATE#\*  
 #DATE-TIME#\*  
 #JOB-SPEC#\*

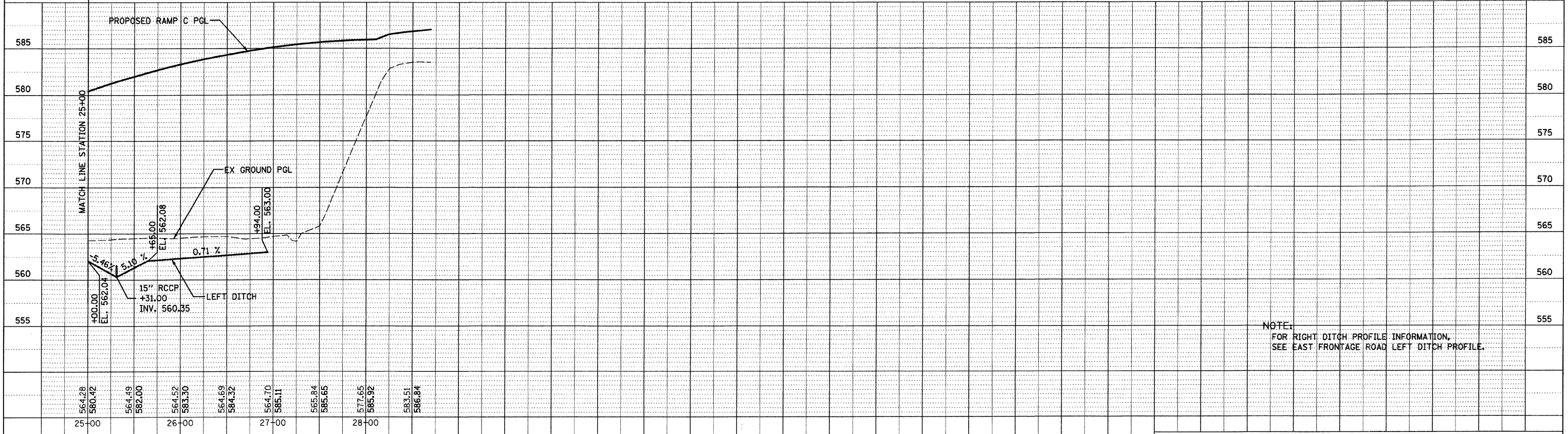


SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	MADISON	420	117
STA. 10+00 TO STA. 28+69.41		CONTRACT NO. 76709	
* 60:10K-L		* 60:10HB	

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	REVISIONS		
	DATE		
	BY		
	REVISIONS		
	DATE		
	BY		
	REVISIONS		
	DATE		
	BY		



PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	REVISIONS		
	DATE		
	BY		
	REVISIONS		
	DATE		
	BY		
	REVISIONS		
	DATE		
	BY		



NOTE:  
FOR RIGHT DITCH PROFILE INFORMATION,  
SEE EAST FRONTAGE ROAD LEFT DITCH PROFILE.

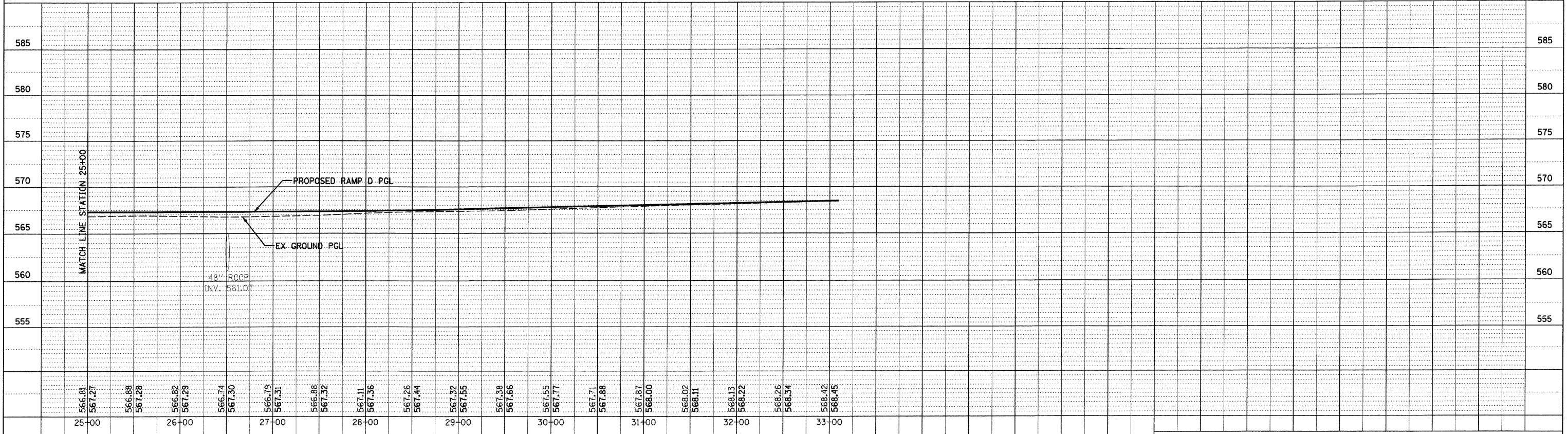
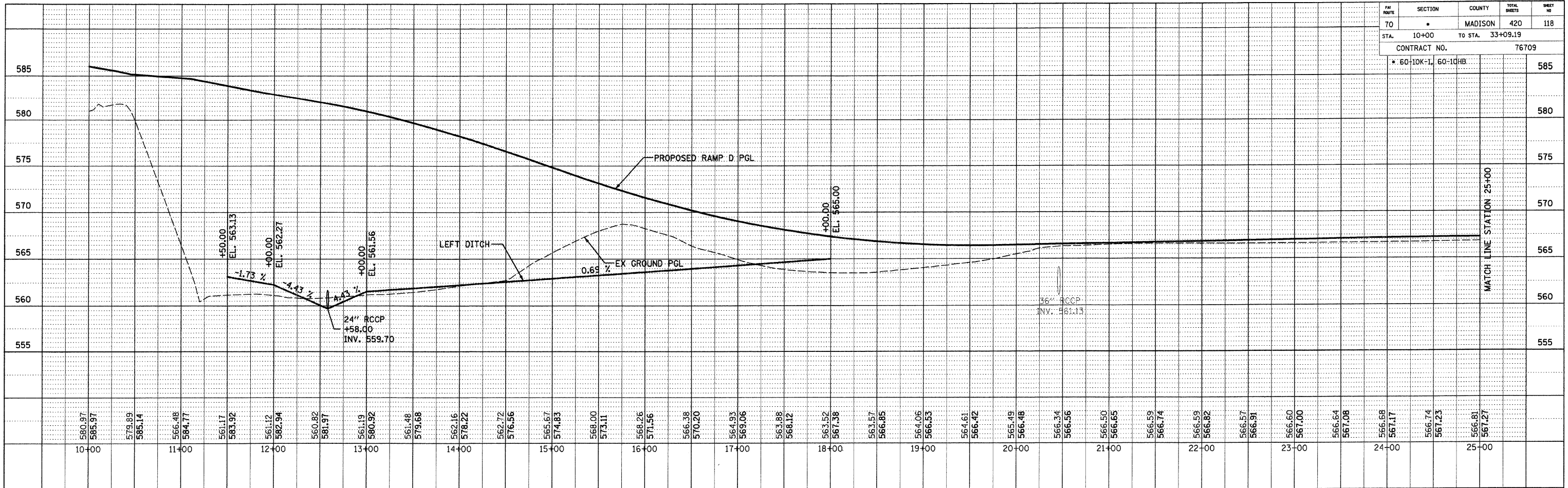
PROPOSED DRAINAGE PROFILE - RAMP C

\*DATE\*  
\*DATE-TIME\*  
\*OR-SPEC\*

FW	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	118
STA.	10+00	TO STA.	33+09.19	
CONTRACT NO.			76709	
* 60-10K-1, 60-10HB				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO. _____		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO. _____		



PROPOSED DRAINAGE PROFILE - RAMP D

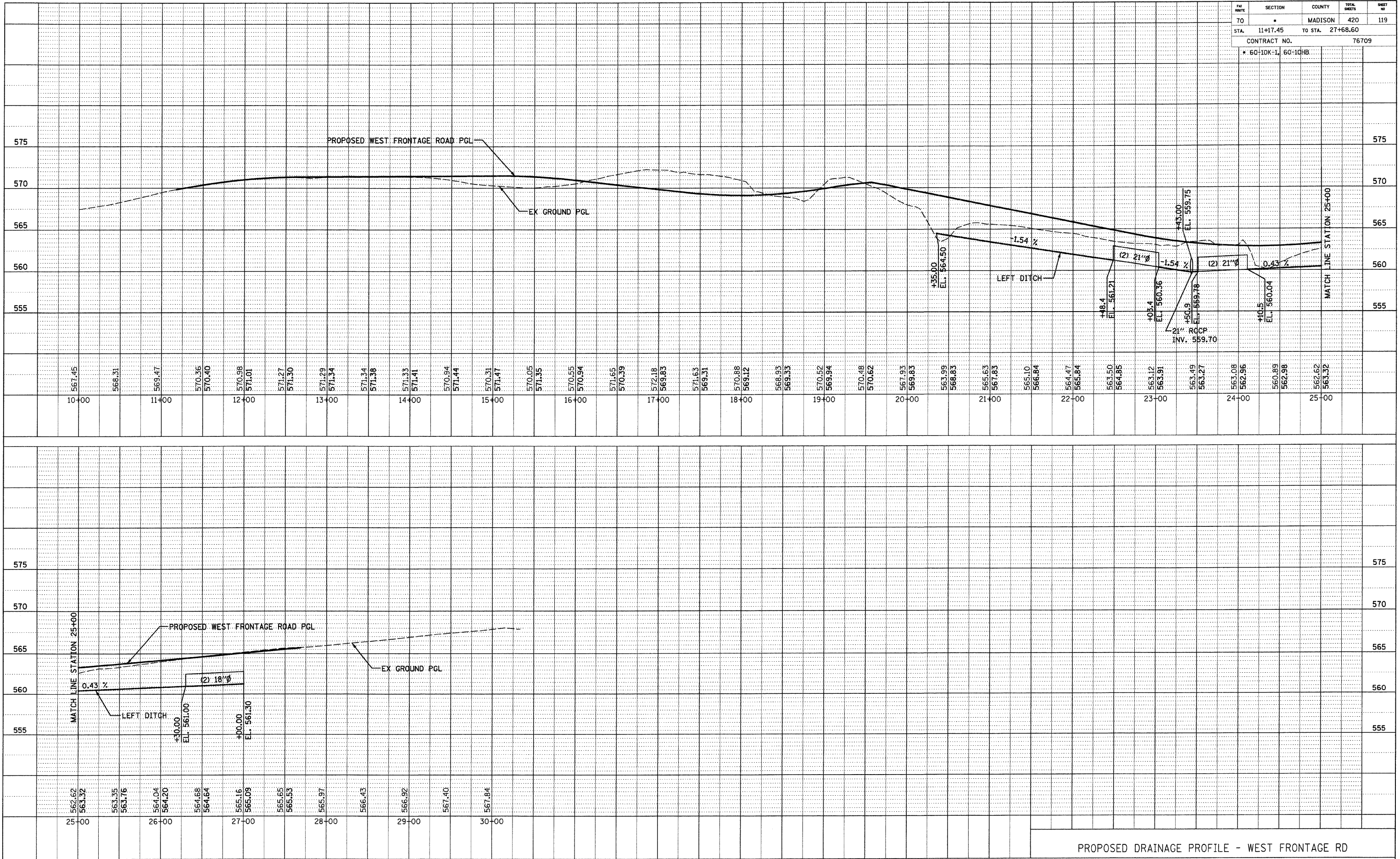
DATE: \*DATE-TIME\*  
 \*CON-SPEC\*

PLOT DATE: \*DATE-TIME\*

FBI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	119
STA. 11+17.45		TO STA. 27+68.60		
CONTRACT NO.				76709
* 60-10K-1, 60-10HB				

PLAN	SURVEYED	BY	DATE
PLANNED	PLANNED		
NOTE BOOK NO.	NOTE BOOK NO.		
PAID FILE NAME	PAID FILE NAME		

PROFILE	SURVEYED	BY	DATE
PLANNED	PLANNED		
NOTE BOOK NO.	NOTE BOOK NO.		
STRUCTURE NOTATION GRID	STRUCTURE NOTATION GRID		



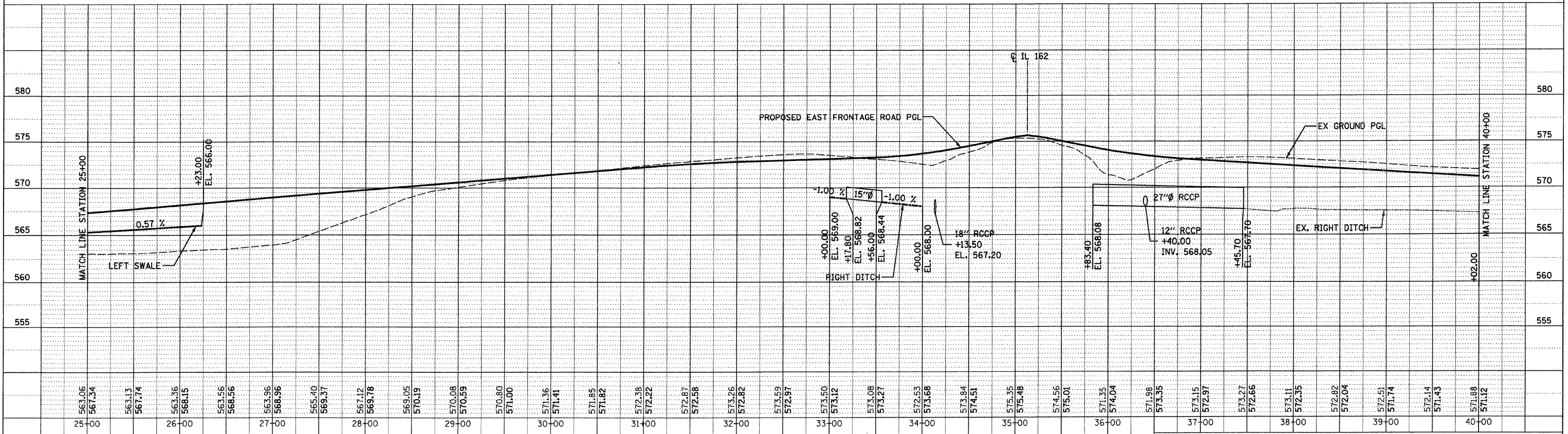
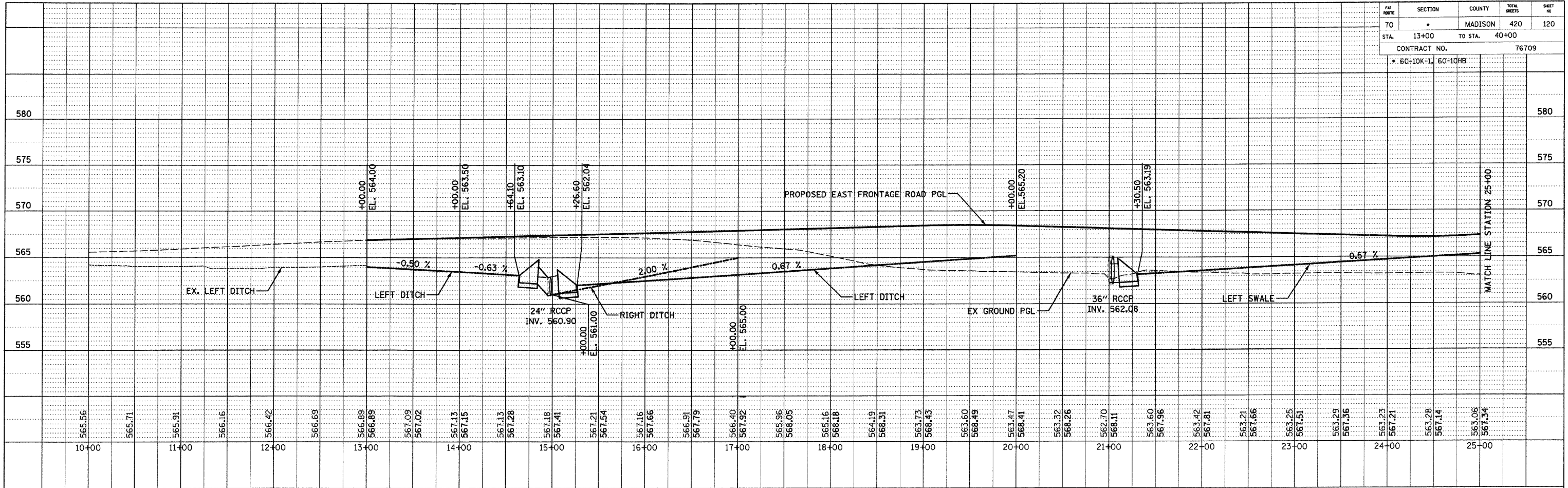
PROPOSED DRAINAGE PROFILE - WEST FRONTAGE RD

\*\*DATE\*\*  
\*DATE-TIME\*  
\*DGN-SPEC\*

PLAN SURVEYED BY: DATE:  
 PLOTTED BY: DATE:  
 NOTE BOOK NO. \_\_\_\_\_  
 RT. OF WAY CHECKED BY: \_\_\_\_\_  
 NO. \_\_\_\_\_ PWD FILE NAME: \_\_\_\_\_

PROFILE SURVEYED BY: DATE:  
 PLOTTED BY: DATE:  
 NOTE BOOK NO. \_\_\_\_\_  
 STA. NOTED BY: \_\_\_\_\_  
 NO. \_\_\_\_\_ STRUCTURE NOTATION: CHRD

FBI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	120
STA. 13+00		TO STA. 40+00		
CONTRACT NO. 76709				
* 60-10K-1, 60-10HB				



PROPOSED DRAINAGE PROFILE - EAST FRONTAGE RD - 1

DATE: \*DATE-TIME\*  
 PLOT DATE: \*DATE-TIME\*

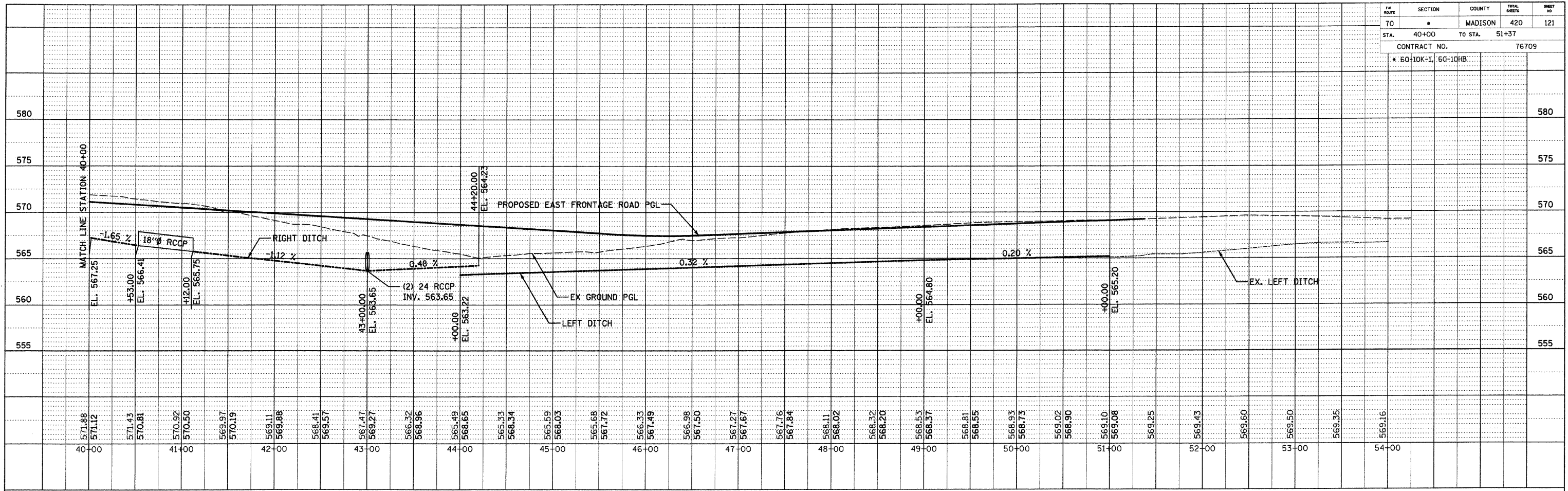
PLOT DATE: \*DATE-TIME\*

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

PROF (L) SURVEYED PLOTTED CHECKED  
 NO. BY DATE  
 NOTE BOOK NO. STRUCTURE NOTATION CHFD

DATE TIME  
 DATE TIME  
 SIGN SPEC

FW	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
TO	*	MADISON	420	121
STA.	40+00	TO STA.	51+37	
CONTRACT NO. 76709				
* 60-10K-1, 60-10HB				



PROPOSED DRAINAGE PROFILE - EAST FRONTAGE RD - 2

COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

TOTAL SHEETS	SHEET NO.
420	122

PART OF THE NW 1/4 OF SECTION 8, T3N, R7W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

STATION	OFFSET	NORTH	EAST
13+17.89	0.00' RT	750468.4854	2368958.7394
13+71.04	0.71' RT	750520.4907	2368969.7099
14+24.16	0.00' RT	750571.8400	2368983.4270
14+75.00	42.46' RT	750609.9970	2369037.5705
14+98.00	65.00' RT	750626.4009	2369065.2813
17+00.00	35.00' RT	750829.3002	2369088.4306
18+18.21	0.00' RT	751316.2790	2369114.5845
18+66.40	0.77' LT	751362.8267	2369127.0691
19+14.56	0.00' RT	751408.4171	2369142.5159

STATION	OFFSET	NORTH	EAST
19+91.06	0.00' RT	751328.9891	2368944.4045
20+26.54	0.00' RT	751153.8070	2369138.8900
20+26.54	40.00' RT	751143.4874	2369177.5359
20+75.10	2.35' LT	751245.1954	2368937.9854
21+58.96	0.00' RT	751162.6432	2368922.2465
25+08.44	40.00' RT	751562.3868	2369378.0262
25+68.57	108.48' LT	751677.4814	2369278.7823
495+74.21	35.52' RT	752292.9185	2368856.9415
1380+89.96	216.16' LT	749556.2539	2368871.8329

NE 1/4 SEC. 7  
T 3 N, R 7 W, 3rd P.M.

SEE SHEET 3

POC 8016192  
POC 8016192TE  
Brass Mon.  
NW Cor. Sec. 8  
T 3 N, R 7 W, 3rd PM  
495+74.21  
35.52' RT

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION (123.45)
- RECORDED DIMENSION (123.45)
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP

■ STAKING OF PROPOSED RIGHT OF WAY. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STATE OF ILLINOIS )  
COUNTY OF ) SS

THIS IS TO CERTIFY THAT I, THOMAS M. DRONE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 8, TOWNSHIP 3 NORTH, RANGE 7 WEST, OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED \_\_\_\_\_  
THOMAS M. DRONE, PLS #2273

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

SEE SHEET 2

PROP. CURVE EFR-1  
PI STA. = 13+71.04  
Δ = 3° 02' 40" (RT)  
D = 2° 51' 53" (RT)  
R = 2,000.00'  
T = 53.15'  
L = 106.27'  
E = 0.71'  
e = N/C  
T.R. = N/A  
S.E. RUN = N/A  
P.C. STA. = 13+17.89  
P.T. STA. = 14+24.16

PROP. CURVE RAMP-D1  
PI STA. = 20+75.10  
Δ = 6° 24' 48" (RT)  
D = 3° 49' 11" (RT)  
R = 1,500.00'  
T = 84.04'  
L = 167.90'  
E = 2.35'  
e = 4.90%  
T.R. = N/A  
S.E. RUN = 150'  
P.C. STA. = 19+91.06  
P.T. STA. = 21+58.96

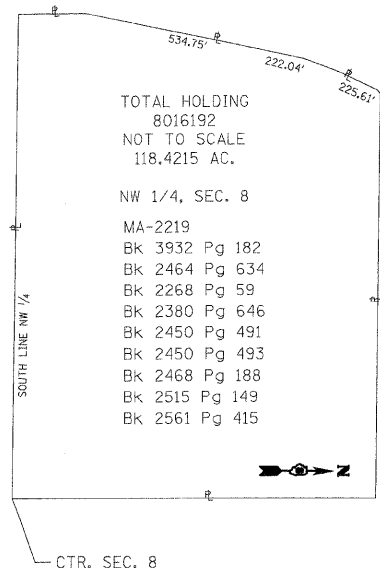
PROP. CURVE RAMP-C1  
PI STA. = 18+66.40  
Δ = 3° 40' 49" (RT)  
D = 3° 49' 11" (RT)  
R = 1,500.00'  
T = 48.19'  
L = 96.35'  
E = 0.77'  
e = N/C  
T.R. = N/A  
S.E. RUN = N/A  
P.C. STA. = 18+18.21  
P.T. STA. = 19+14.56

EXIST. CURVE FSE-EX3  
PI STA. 13+32.23  
Δ = 18° 17' 18" (LT)  
D = 3° 57' 05" (RT)  
R = 1,450.00'  
L = 462.83'  
E = 18.66'  
PC STA. 10+98.84  
PT STA. 15+61.66

EXIST. CURVE C20  
PI STA. 9+22.55  
Δ = 39° 44' 46" (RT)  
D = 8° 18' 13" (RT)  
T = 249.41'  
R = 690.00'  
L = 478.65'  
E = 43.69'  
PC STA. 6+73.14  
PT STA. 11+51.79

PROP. CURVE EFR-2  
PI STA. = 25+68.57  
Δ = 45° 16' 03" (RT)  
D = 4° 24' 27" (RT)  
R = 1,300.00'  
T = 542.04'  
L = 1,027.09'  
E = 108.48'  
e = N/C  
T.R. = N/A  
S.E. RUN = N/A  
P.C. STA. = 20+26.54  
P.T. STA. = 30+53.62

EXIST. CURVE FSE-EX2  
PI STA. 9+26.72  
Δ = 29° 19' 10" (LT)  
D = 8° 19' 35" (RT)  
T = 180.01'  
R = 688.13'  
L = 352.13'  
E = 23.16'  
PC STA. 7+46.71  
PT STA. 10+98.84



TOTAL HOLDING  
8016192  
NOT TO SCALE  
118.4215 AC.

- NW 1/4, SEC. 8
- MA-2219
- Bk 3932 Pg 182
- Bk 2464 Pg 634
- Bk 2268 Pg 59
- Bk 2380 Pg 646
- Bk 2450 Pg 491
- Bk 2450 Pg 493
- Bk 2468 Pg 188
- Bk 2515 Pg 149
- Bk 2561 Pg 415

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
8016192	THE BANK OF EDWARDSVILLE, TRUSTEE TRUST NO. 6103 OF JANUARY 8, 1990 MA-2219	118.4215 AC	0.4590 AC 19,996 SF		117.9624 AC	0.0090 AC 390 SF		SHAPING & GRADING	09-1-22-08-00-000-002.T01 09-1-22-08-00-000-002.T00	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAP ROUTE 568 (IL 162)  
SECTION 60-10K-1, 60-10-HB  
MADISON COUNTY  
JOB NO. R-98-016-00  
STATION 14+00 TO STATION 26+00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINGSVILLE, ILLINOIS 62234-6198

PART OF THE SW 1/4 OF SECTION 5 AND A PART OF THE NW 1/4 OF SECTION 8, T3N, R7W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

TOTAL SHEETS	420
SHEET NO.	123

Exist. Curve FSE-EX3  
 PI Sta. 13+32.23  
 $\Delta = 18^\circ 17' 18''$  (LT)  
 $D = 3^\circ 57' 05''$   
 $T = 233.40'$   
 $R = 1,450.00'$   
 $L = 462.83'$   
 $E = 18.66'$   
 PC Sta. 10+98.84  
 PT Sta. 15+61.66

Exist. Curve C20  
 PI Sta. 9+22.55  
 $\Delta = 39^\circ 44' 46''$  (RT)  
 $D = 8^\circ 18' 13''$   
 $T = 249.41'$   
 $R = 690.00'$   
 $L = 478.65'$   
 $E = 43.69'$   
 PC Sta. 6+73.14  
 PT Sta. 11+51.79

Exist. Curve FSE-EX2  
 PI Sta. 9+26.72  
 $\Delta = 29^\circ 19' 10''$  (LT)  
 $D = 8^\circ 19' 35''$   
 $T = 180.01'$   
 $R = 688.13'$   
 $L = 352.13'$   
 $E = 23.16'$   
 PC Sta. 7+46.71  
 PT Sta. 10+98.84

PROP. CURVE EFR-2  
 PI STA. = 25+68.57  
 $\Delta = 45^\circ 16' 03''$  (RT)  
 $D = 4^\circ 24' 27''$   
 $R = 1,300.00'$   
 $L = 542.04'$   
 $T = 1,027.09'$   
 $E = 108.48'$   
 $\theta = N/C$   
 T.R. = N/A  
 S.E. RUN = N/A  
 P.C. STA. = 20+26.54  
 P.T. STA. = 30+53.62

PROP. CURVE EFR-3  
 PI STA. = 36+23.49  
 $\Delta = 104^\circ 55' 23''$  (LT)  
 $D = 14^\circ 19' 26''$   
 $R = 400.00'$   
 $L = 520.57'$   
 $T = 732.50'$   
 $E = 256.50'$   
 $\theta = N/C$   
 T.R. = N/A  
 S.E. RUN = N/A  
 P.C. STA. = 31+02.93  
 P.T. STA. = 38+35.43

Exist. Curve C21  
 PI Sta. 15+34.39  
 $\Delta = 24^\circ 02' 54''$  (LT)  
 $D = 11^\circ 08' 49''$   
 $T = 109.48'$   
 $R = 514.00'$   
 $L = 215.74'$   
 $E = 11.53'$   
 PC Sta. 14+24.91  
 PT Sta. 16+40.65

Exist. Curve FSE-EX1  
 PI Sta. 2+99.87  
 $\Delta = 31^\circ 20' 54''$  (RT)  
 $D = 8^\circ 11' 06''$   
 $T = 196.42'$   
 $R = 700.00'$   
 $L = 382.99'$   
 $E = 27.04'$   
 PC Sta. 1+03.45  
 PT Sta. 4+86.44

COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

STATION	OFFSET	NORTH	EAST
20+26.54	0.00' RT	751153.8070	2369138.8900
24+60.47	0.44' LT	751547.0215	2369317.7709
24+83.09	4.52' RT	751562.8093	2369334.6708
25+08.44	40.00' RT	751562.3868	2369378.0262
27+68.37	32.12' RT	751755.3433	2369540.7665
28+12.47	40.00' RT	751777.7686	2369578.1412
30+53.62	0.00' RT	751946.6620	2369749.2570
31+02.93	0.00' RT	751971.1460	2369792.0490
36+23.49	256.50' RT	752229.6648	2370243.8872
495+74.21	35.52' RT	752292.9185	2368856.9415
523+18.86	26.00' RT	752265.8280	371605.2244

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
8016193	HCC, LIMITED PARTNERSHIP A TENNESSEE LIMITED PARTNERSHIP MA-2222	13.5200 AC	0.0990 AC 4,311 SF		13.4210 AC	0.0549 AC 2,390 SF		SHAPING & GRADING	09-1-22-08-00-000-001	
8016194	JACK IN THE BOX, INC. MA-2226	1.0583 AC			TE-A 0.0301 AC 1,309 SF	TE-B 0.0338 AC 1,474 SF		SHAPING & GRADING	09-1-22-08-00-000-001.T02	

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL
- 121.45
- 123.45 (COMP)
- (123.45)
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP

- STAKING OF PROPOSED RIGHT OF WAY. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF )

THIS IS TO CERTIFY THAT I, THOMAS M. DRONE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 5 AND 8, TOWNSHIP 3 NORTH, RANGE 7 WEST OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED \_\_\_\_\_  
 THOMAS M. DRONE, PLS #2273

SEE SHEET 5

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAP ROUTE 586 (IL 162)  
 SECTION 60-10K-1, 60-10-HB  
 MADISON COUNTY  
 JOB NO. R-98-016-00  
 STATION 24+00 TO STATION 38+00  
 SCALE: 1" = 50'  
 SHEET 2 OF 2  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS/DISTRICT 8  
 1102 EASTPORT PLAZA DRIVE  
 COLLINGSVILLE, ILLINOIS 62234-6198

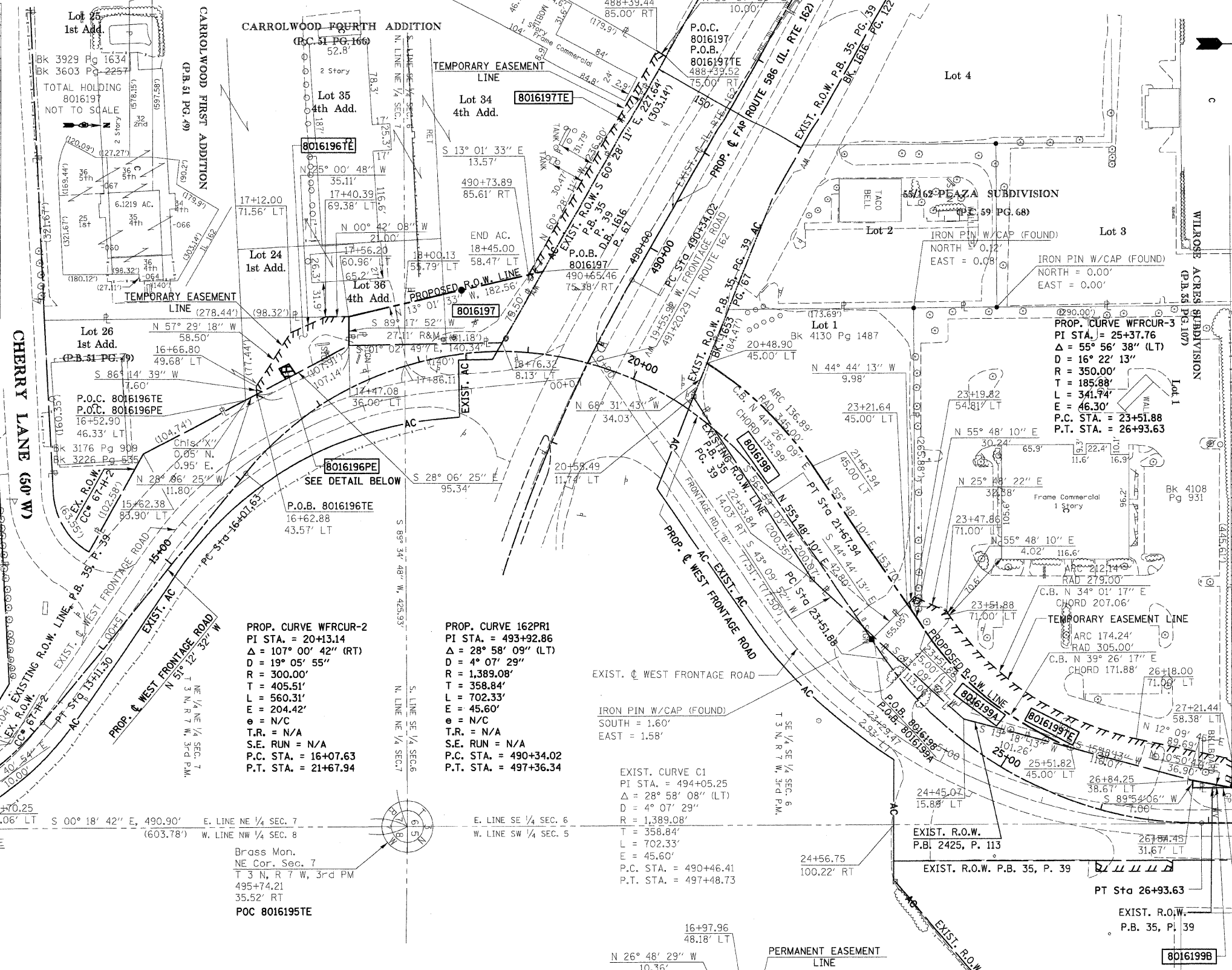
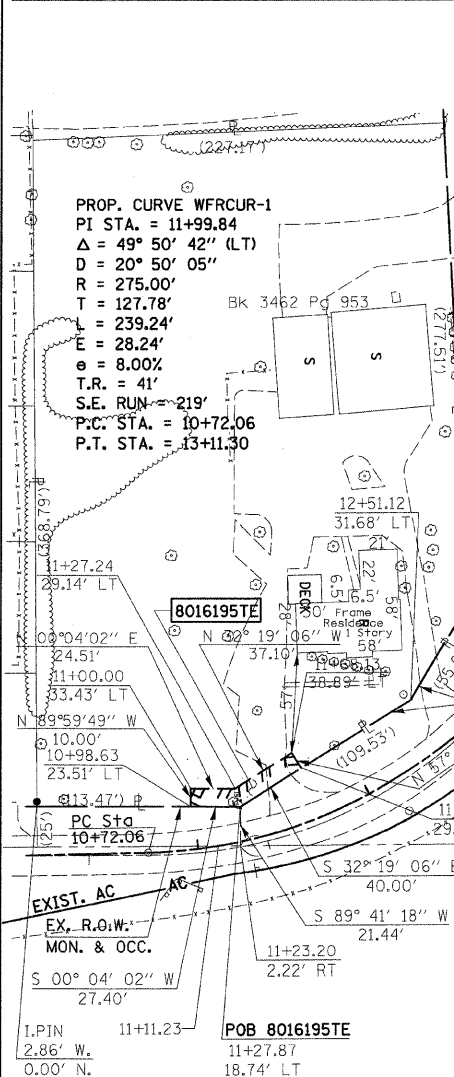
COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

PART OF THE SE 1/4 OF SECTION 6 & THE NE 1/4 OF SECTION 7, T3N, 77W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

TOTAL SHEETS	SHEET NO.
420	124

STATION	OFFSET	NORTH	EAST
10+72.06	0.00' LT	751750.8410	2368863.3930
11+11.23	0.00' LT	751789.8047	2368859.6792
13+11.30	0.00' LT	751958.6400	2368760.7540
16+07.63	0.00' LT	752144.2850	2368529.7850
17+47.08	36.00' LT	752238.3722	2368412.1669
17+56.20	60.96' LT	752238.0399	2368385.0590
17+86.11	0.00' LT	752289.7962	2368431.0253
18+00.13	55.79' LT	752289.3723	2368373.1835
18+76.32	8.13' LT	752378.6942	2368409.6026
490+65.46	75.38' RT	752415.9068	2368343.9103
490+73.89	85.61' RT	752402.6809	2368346.9701
19+55.92	0.00' LT	752457.3339	2368428.3786
20+48.90	45.00' LT	752566.3635	2368428.6152
20+55.49	11.74' LT	752553.9060	2368460.2870
21+67.94	45.00' LT	752663.4679	2368523.8262
21+67.94	0.00' LT	752626.2480	2368549.1180
22+53.84	14.03' RT	752662.9208	2368628.0530
23+21.64	45.00' LT	752749.8552	2368650.9550
23+29.47	2.93' LT	752719.4554	2368681.0768
23+51.88	0.00' LT	752729.6330	2368701.2610
23+51.88	45.00' LT	752766.8505	2368675.9656
24+45.07	15.89' LT	752801.9230	2368758.4230
25+51.82	45.00' LT	752899.5921	2368785.1488
26+84.25	38.67' LT	753011.5490	2368815.7850
26+84.45	31.67' LT	753011.5600	2368822.7850
26+93.63	0.00' LT	753019.9820	2368854.5450
27+21.51	31.75' LT	753047.7843	2368822.7267



**LEGEND**

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- END AC. CONTROL

STATE OF ILLINOIS )  
COUNTY OF ) SS

THIS IS TO CERTIFY THAT I, THOMAS M. DRONE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 6 & 7, TOWNSHIP 3 NORTH, RANGE 7 WEST, OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED \_\_\_\_\_

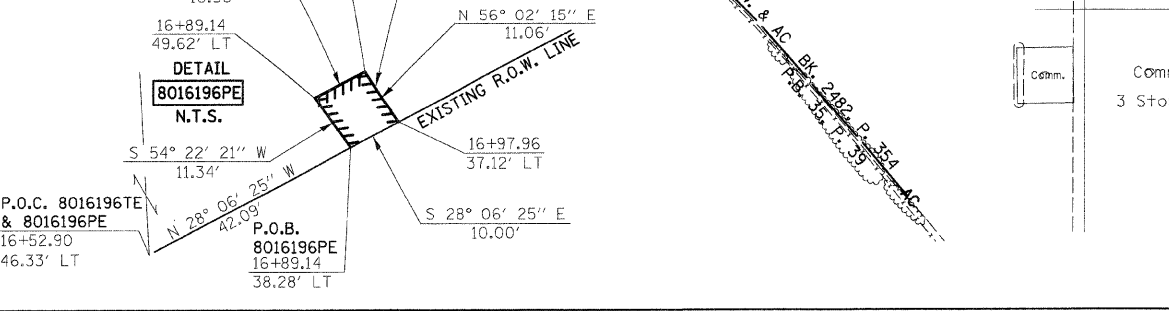
THOMAS M. DRONE, PLS #2273  
N 89° 42' 29" E  
26.63'

IRON PIN (FOUND)  
SOUTH = 0.05'  
WEST = 1.93'

27+21.51 P.O.B. 8016199B  
31.75' LT P.O.B. 8016199TE

Hurst-Rosche Engineers, Inc.  
2657 W. Lawrence  
Springfield, IL. 62704  
217-787-1199

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS TEMP	EASEMENTS PERM	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
8016195	FLO-SYSTEM PROCESS EQUIPMENT MA-2197	1.9128 AC				0.0148 AC 645 SF		SHAPING & GRADING	09-1-22-07-08-201-044	
8016196	RANDALL K. ACKERMAN AND CAROL A. ACKERMAN, AS JOINT TENANTS MA-2194, MA-2195	0.6853 AC				0.0620 AC 2,700 SF	0.0026 AC 113 SF	SHAPING & GRADING DRAINAGE & MAINT.	09-2-22-07-08-201-061 09-2-22-07-08-201-063	
8016197	KULWANT S. PADDA AND GURDEEP K. PADDA, AS JOINT TENANTS MA-3016.0, MA-3017.0, MA-3018.0	6.1219 AC	0.1602 AC 6,979 SF		5.9617 AC	0.0533 AC 2,323 SF		SHAPING & GRADING	09-2-22-07-08-201-060 -062, -064, -066, -067	
8016198	PRIME DEVELOPMENT, INC. MA-2207	0.9824 AC	0.3367 AC 14,667 SF		0.6457 AC				09-2-22-06-04-401-009	
8016199	CBOCS WEST, INC., A NEVADA CORPORATION MA-2201	2.7389 AC	A= 0.1106 AC 4,816 SF B= 0.0029 AC 127 SF		2.6254 AC	0.1981 AC 8,628 SF		SHAPING & GRADING	09-2-22-06-04-401-004	



ILLINOIS DEPARTMENT OF TRANSPORTATION

**PLAT OF HIGHWAYS**

FAP ROUTE 586 (IL 162)

SECTION 60-10K-1, 60-10-HB

MADISON COUNTY

JOB NO. R-98-016-00

STATION 10+70 TO STATION 27+21.51

SCALE: 1" = 50'

SHEET 3 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINGSVILLE, ILLINOIS 62234-6198

SHEET 1 OF 1 IS A COVER SHEET AND IS NOT RECORDED



COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

TOTAL SHEETS 420 SHEET NO. 125

PART OF THE SW 1/4 OF SECTION 5, T3N, R7W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

STATION	OFFSET	NORTH	EAST
15+43.67	0.00' RT	753361.9004	2369369.2033
16+33.02	0.00' LT	753276.3760	2369343.3633
17+07.98	48.52' RT	753220.7134	2369273.5481
18+34.69	51.65' RT	753101.5560	2369230.3340
18+39.96	33.34' RT	753090.7411	2369246.0248
18+47.01	54.10' RT	753090.6557	2369224.1009
18+48.60	32.35' RT	753082.2343	2369244.2233
19+47.23	43.87' RT	752992.3686	2369201.9693
20+23.16	89.12' RT	752934.7473	2369134.9478
26+93.63	0.00' LT	753019.9820	2368854.5450
495+74.21	35.52' RT	752292.9185	2368856.9415

PROP. CURVE WFRCUR-3  
 PI STA. = 25+37.76  
 $\Delta = 55^\circ 56' 38''$  (LT)  
 D = 16' 22' 13"  
 R = 350.00'  
 T = 185.88'  
 L = 341.74'  
 E = 46.30'  
 $\theta = N/C$   
 T.R. = N/A  
 S.E. RUN = N/A  
 P.C. STA. = 23+51.88  
 P.T. STA. = 26+93.63

Exist. Curve FNW-EX1  
 PI Sta. 5+26.78  
 $\Delta = 55^\circ 40' 23''$  (LT)  
 D = 12' 19' 18"  
 R = 245.55'  
 T = 465.00'  
 L = 451.83'  
 E = 60.85'  
 PC Sta. 2+81.23  
 PT Sta. 7+33.06

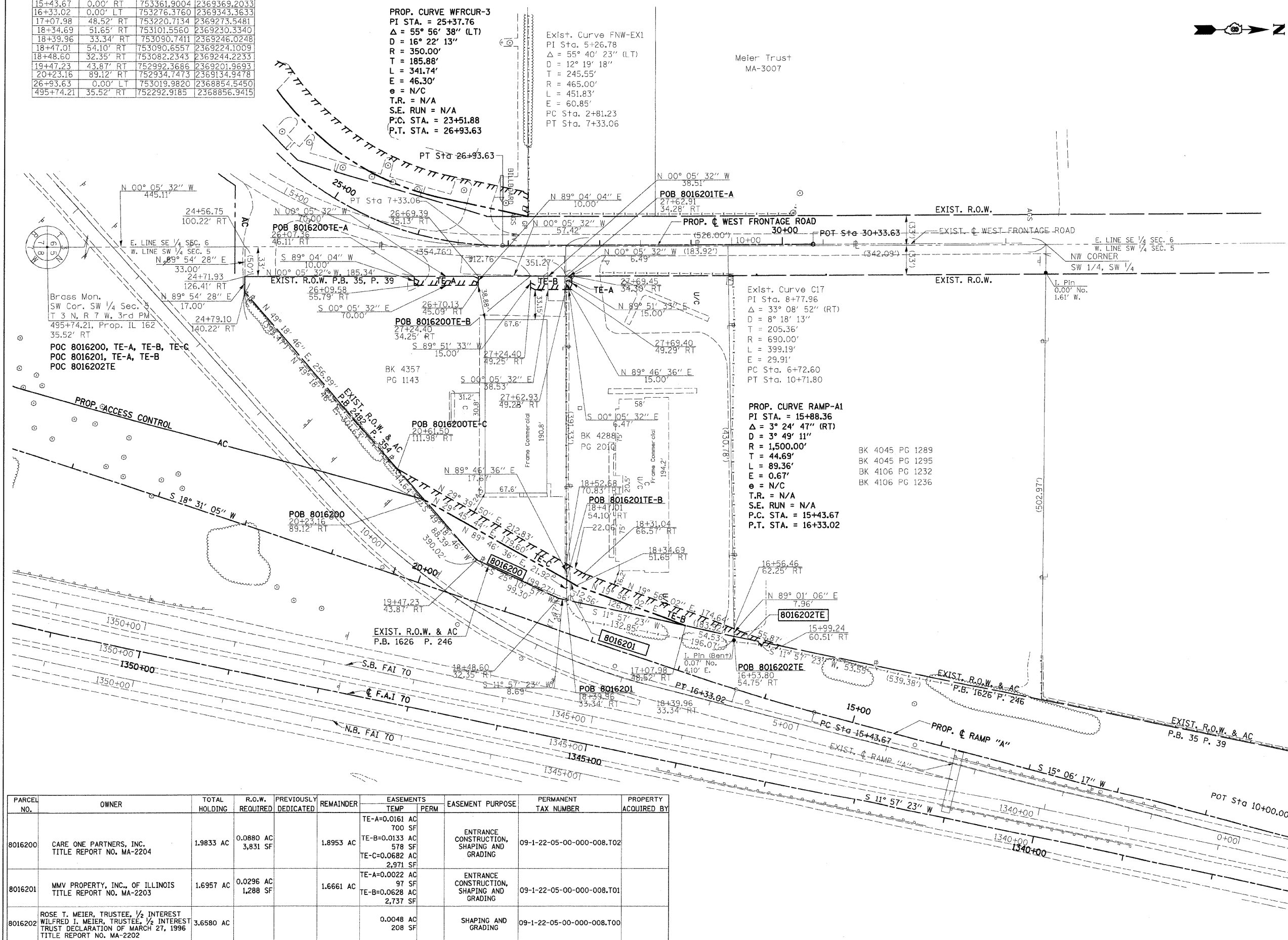
Meier Trust  
 MA-3007

**LEGEND**

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPL
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP

STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



STATE OF ILLINOIS )  
 COUNTY OF ) SS

THIS IS TO CERTIFY THAT I, THOMAS M. DRONE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 5, TOWNSHIP 3 NORTH, RANGE 7 WEST OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED \_\_\_\_\_  
 THOMAS M. DRONE, PLS #2273

Hurst-Rosche Engineers, Inc.  
 2657 W. Lawrence  
 Springfield, IL 62704  
 217-787-1199

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAP ROUTE 586 (IL 162)  
 SECTION 60-10K-1, 60-10-HB  
 MADISON COUNTY  
 JOB NO. R-98-016-00  
 STATION 15+99.24 TO STATION 24+56.75  
 SCALE: 1" = 50'  
 SHEET 4 OF 4  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS/DISTRICT B  
 1102 EASTPORT PLAZA DRIVE  
 COLLINSVILLE, ILLINOIS 62234-6198

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS TEMP	EASEMENTS PERM	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
8016200	CARE ONE PARTNERS, INC. TITLE REPORT NO. MA-2204	1.9833 AC	0.0880 AC 3,831 SF		1.8953 AC	TE-A=0.0161 AC 700 SF TE-B=0.0133 AC 578 SF TE-C=0.0682 AC 2,971 SF		ENTRANCE CONSTRUCTION, SHAPING AND GRADING	09-1-22-05-00-000-008.T02	
8016201	MMV PROPERTY, INC., OF ILLINOIS TITLE REPORT NO. MA-2203	1.6957 AC	0.0296 AC 1,288 SF		1.6661 AC	TE-A=0.0022 AC 97 SF TE-B=0.0628 AC 2,737 SF		ENTRANCE CONSTRUCTION, SHAPING AND GRADING	09-1-22-05-00-000-008.T01	
8016202	ROSE T. MEIER, TRUSTEE, 1/2 INTEREST WILFRED I. MEIER, TRUSTEE, 1/2 INTEREST TRUST DECLARATION OF MARCH 27, 1996 TITLE REPORT NO. MA-2202	3.6580 AC				0.0048 AC 208 SF		SHAPING AND GRADING	09-1-22-05-00-000-008.T00	

PART OF THE SW 1/4 OF SECTION 5, T3N, R7W, OF THE 3RD PM, MADISON COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

TOTAL SHEETS	SHEET NO.
420	126

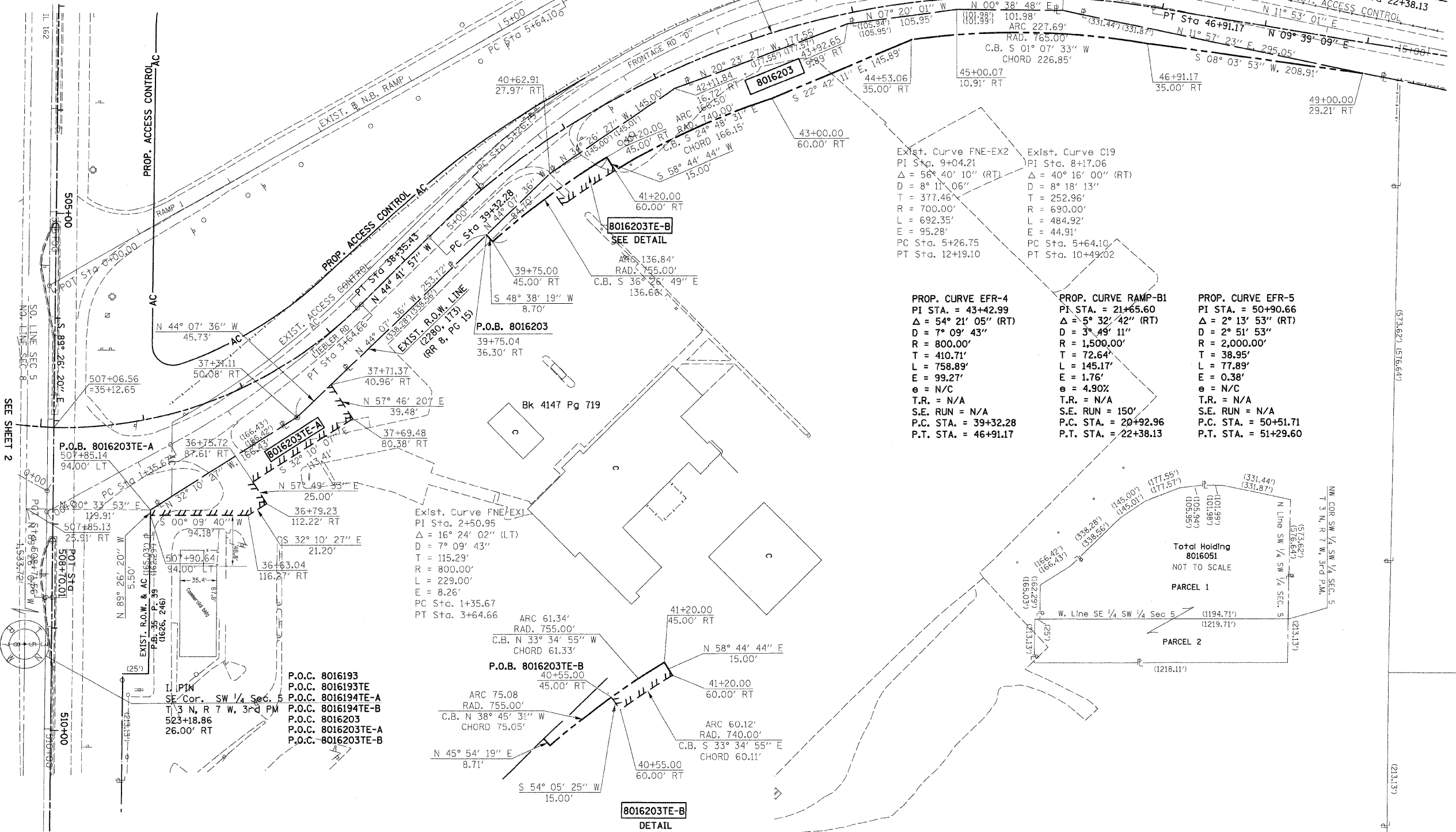
COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

STATION	COORDINATE TABLE	NORTH	EAST
507+06.56	0.00' RT	752307.6192	2369993.2613
523+18.86	26.00' RT	752265.8280	2371605.2244
38+35.43	0.00' RT	752599.6890	2369877.7290
39+32.28	0.00' RT	752668.5310	2369809.6060
39+75.04	36.30' RT	752723.8377	2369807.4828
39+75.00	45.00' RT	752729.5857	2369814.0115
41+20.00	45.00' RT	752839.5134	2369732.8272
41+20.00	60.00' RT	752847.2959	2369745.6502
43+00.00	60.00' RT	752998.1119	2369675.9360
44+53.06	35.00' RT	753132.6985	2369619.6284
46+91.17	0.00' LT	753365.3720	2369589.5810
46+91.17	35.00' RT	753359.5036	2369624.0855
49+00.00	29.21' RT	753566.3522	2369653.3943

**LEGEND**

- AC - PROPOSED ACCESS CONTROL
- - EXISTING CENTERLINE
- - EXISTING RIGHT OF WAY LINE
- - EXISTING EASEMENT LINE
- - PROPOSED CENTERLINE
- - PROPOSED RIGHT OF WAY LINE
- - PROPOSED TEMPORARY EASEMENT LINE
- - PROPOSED PERMANENT EASEMENT LINE
- - SECTION LINE
- - QUARTER SECTION LINE
- - QUARTER QUARTER SECTION LINE
- - PROPERTY (DEED) LINE
- - APPARENT PROPERTY LINE
- - MEASURED DIMENSION
- - COMPUTED DIMENSION
- - RECORDED DIMENSION
- - FOUND IRON PIPE OR IRON ROD
- - SET 5/8 INCH IRON ROD
- - PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- - CUT CROSS FOUND OR SET
- - SAME OWNERSHIP

**■** STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.  
**■** STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
8016203	ST. LOUIS EAST TRUCK PLAZA, INC. MA-2211	19.8637 AC	0.4653 AC 20,270 SF		19.3984 AC	TE-A 0.1640 AC 7,146 SF	TE-B 0.0209 AC 911 SF	SHAPING & GRADING	09-1-22-05-00-000-009.T01 09-1-22-05-00-000-009.T00	

STATE OF ILLINOIS )  
 COUNTY OF ) SS

THIS IS TO CERTIFY THAT I, THOMAS M. DRONE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 5, TOWNSHIP 3 NORTH, RANGE 7 WEST OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED \_\_\_\_\_  
 THOMAS M. DRONE, PLS #2273

Hurst-Rasche Engineers, Inc.  
 2657 W. Lawrence  
 Springfield, IL. 62704  
 217-787-1199

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAP ROUTE 586 (IL 162)  
 SECTION 60-10K-1, 60-10-HB  
 MADISON COUNTY  
 JOB NO. R-98-016-00

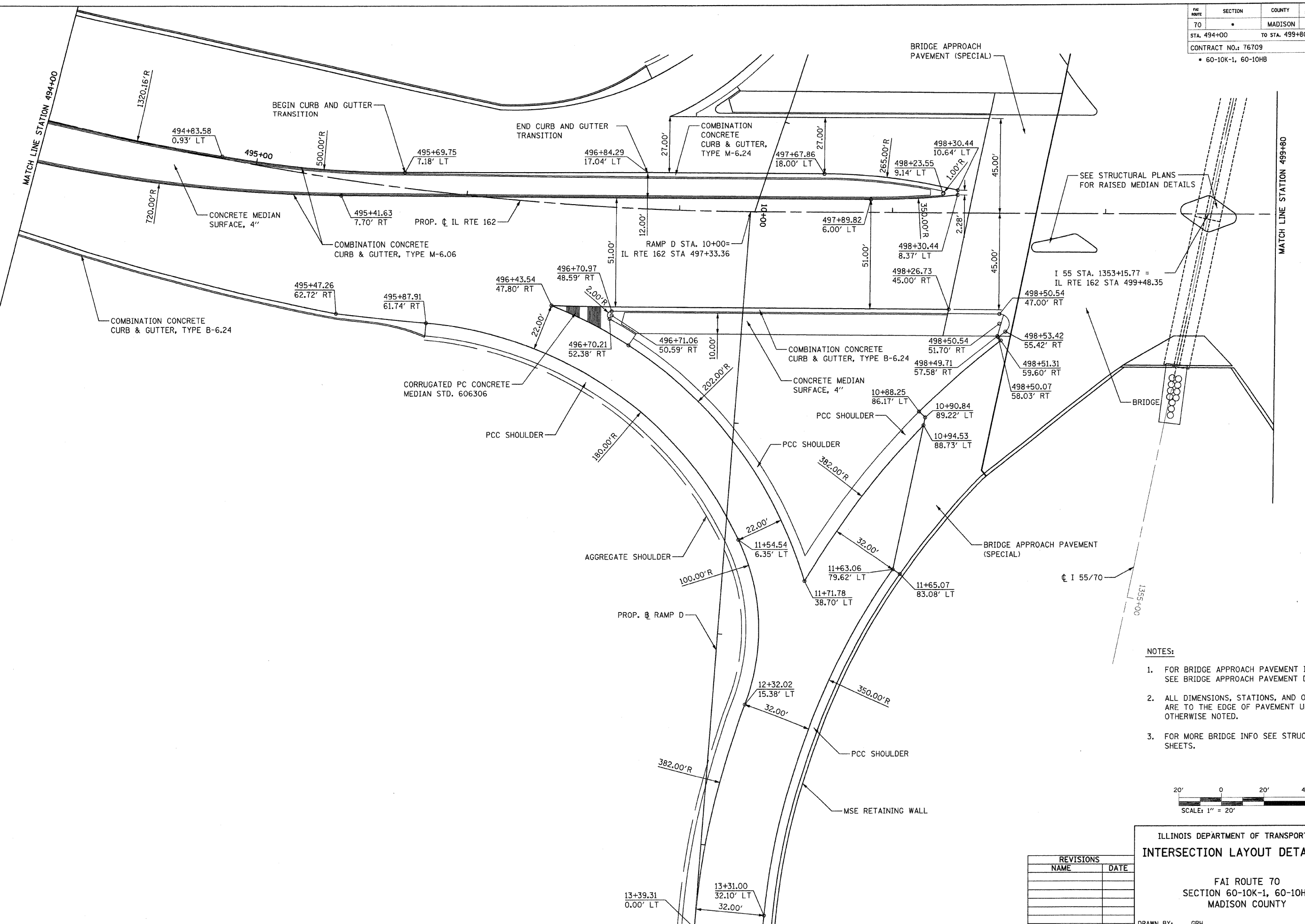
STATION 35+00 TO STATION 49+00  
 SCALE: 1" = 50'

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS/DISTRICT B  
 1102 EASTPORT PLAZA DRIVE  
 COLLINSVILLE, ILLINOIS 62234-6198

SHEET 5 OF  
 SHEET 1 OF IS A COVER SHEET AND IS NOT RECORDED

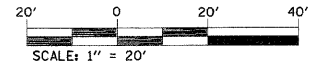


FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		MADISON	420	128
STA. 494+00		TO STA. 499+80		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				



DATE	BY
SURVEYED	ALIGNED
NOTE BOOK	RT. OF WAY CHECKED
NO.	FILE NAME

- NOTES:**
- FOR BRIDGE APPROACH PAVEMENT INFO SEE BRIDGE APPROACH PAVEMENT DETAILS.
  - ALL DIMENSIONS, STATIONS, AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  - FOR MORE BRIDGE INFO SEE STRUCTURAL SHEETS.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION LAYOUT DETAILS - 2**

REVISIONS	
NAME	DATE

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: GRH  
PLOT DATE: \*DATE-TIME\*

QUALITY TIME  
REF- 236c07201.dgn  
REF- 236c0202.dgn

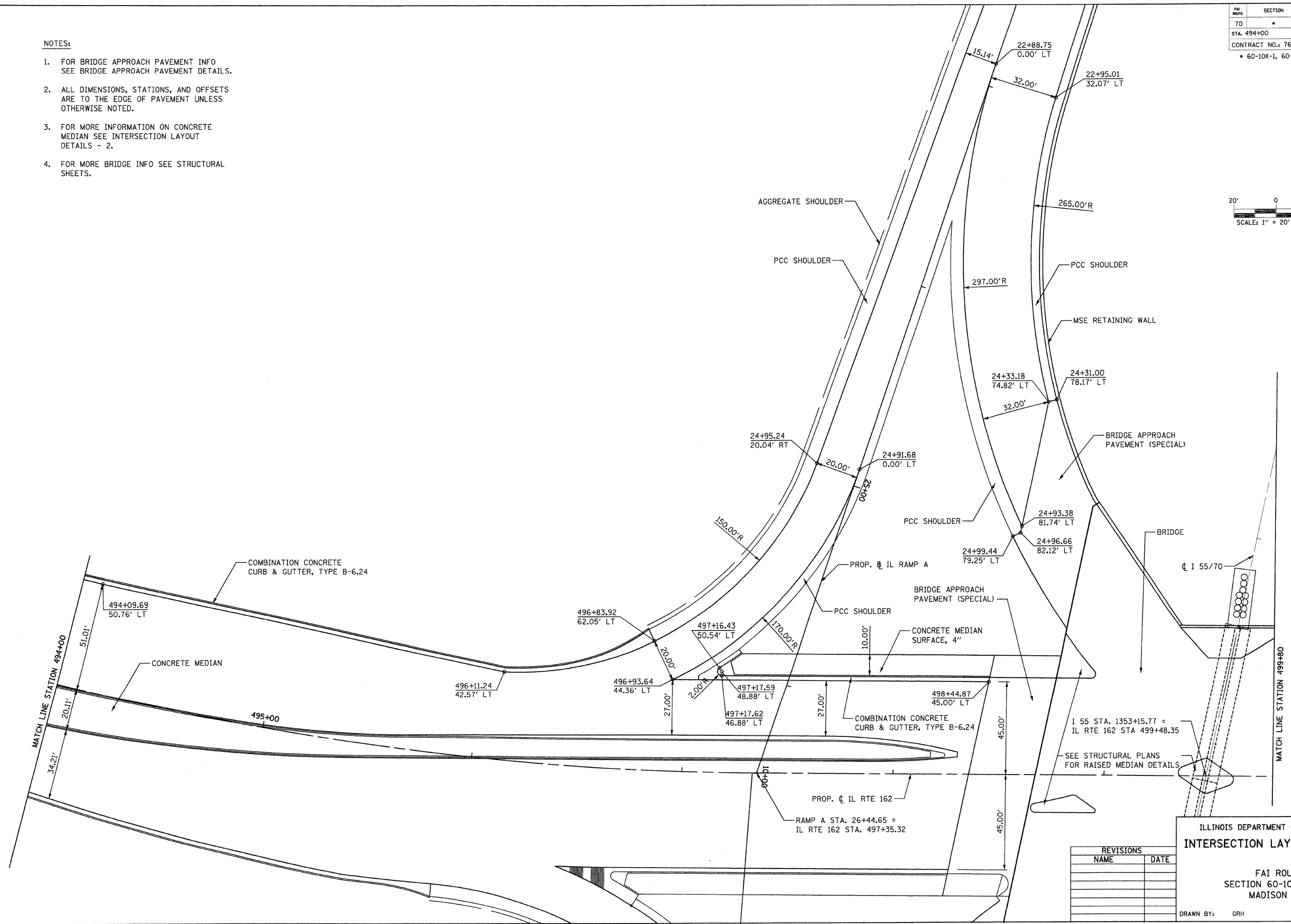
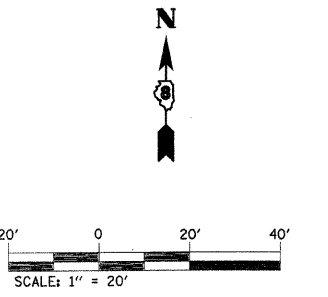


FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	130
STA. 494+00		TO STA. 499+80		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				

**NOTES:**

- FOR BRIDGE APPROACH PAVEMENT INFO SEE BRIDGE APPROACH PAVEMENT DETAILS.
- ALL DIMENSIONS, STATIONS, AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- FOR MORE INFORMATION ON CONCRETE MEDIAN SEE INTERSECTION LAYOUT DETAILS - 2.
- FOR MORE BRIDGE INFO SEE STRUCTURAL SHEETS.

PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	
NO.	RT. OF WAY CHECKED	
	FILE NAME	



REVISIONS	
NAME	DATE

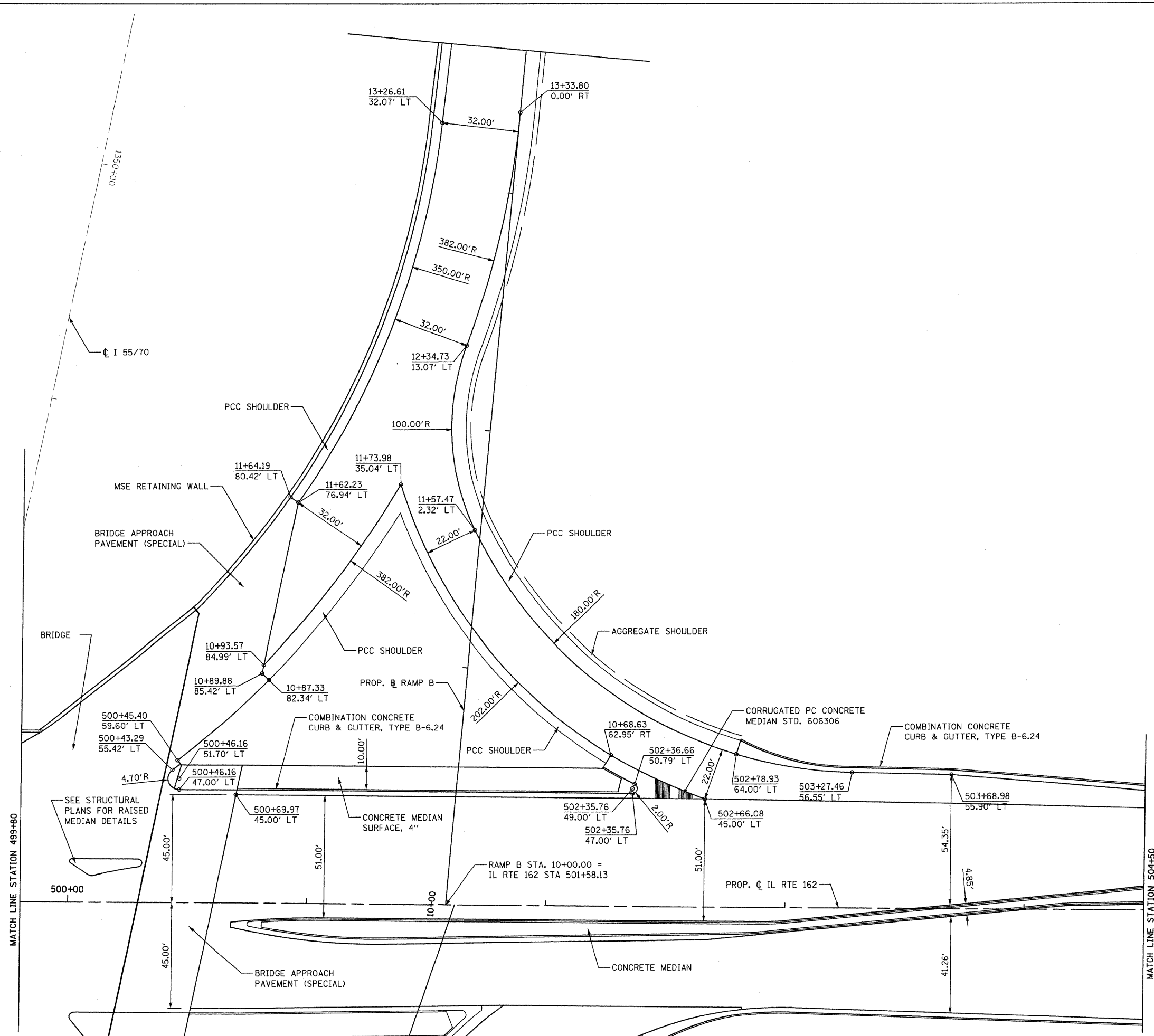
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION LAYOUT DETAILS - 4**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: GRH  
 PLOT DATE: \*DATE-TIME\*

SCALE: 1" = 20'  
 REF: 236C010.450  
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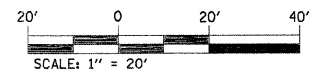
FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	131
STA. 499+80		TO STA. 504+50		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				



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



- NOTES:**
- FOR BRIDGE APPROACH PAVEMENT INFO SEE BRIDGE APPROACH PAVEMENT DETAILS.
  - ALL DIMENSIONS, STATIONS, AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  - FOR MORE INFORMATION ON CONCRETE MEDIAN SEE INTERSECTION LAYOUT DETAILS - 3.
  - FOR MORE BRIDGE INFO SEE STRUCTURAL SHEETS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION LAYOUT DETAILS - 5**

FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

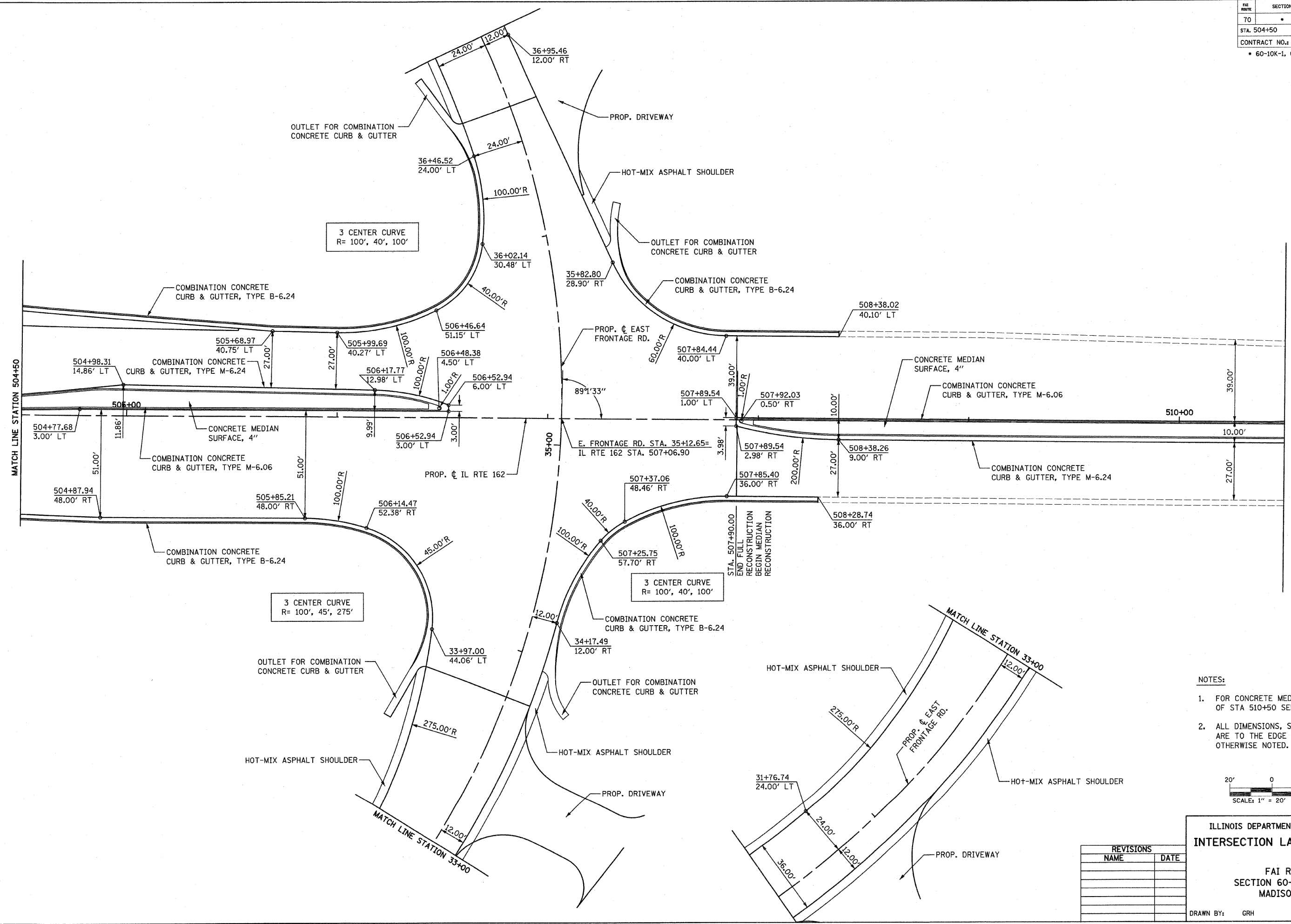
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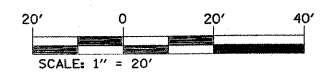
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 REF: 236c0102.dgn



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



- NOTES:
1. FOR CONCRETE MEDIAN INFORMATION EAST OF STA 510+50 SEE PLAN & PROFILE SHEETS.
  2. ALL DIMENSIONS, STATIONS, AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.



ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION LAYOUT DETAILS - 6**

FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

REVISIONS	
NAME	DATE

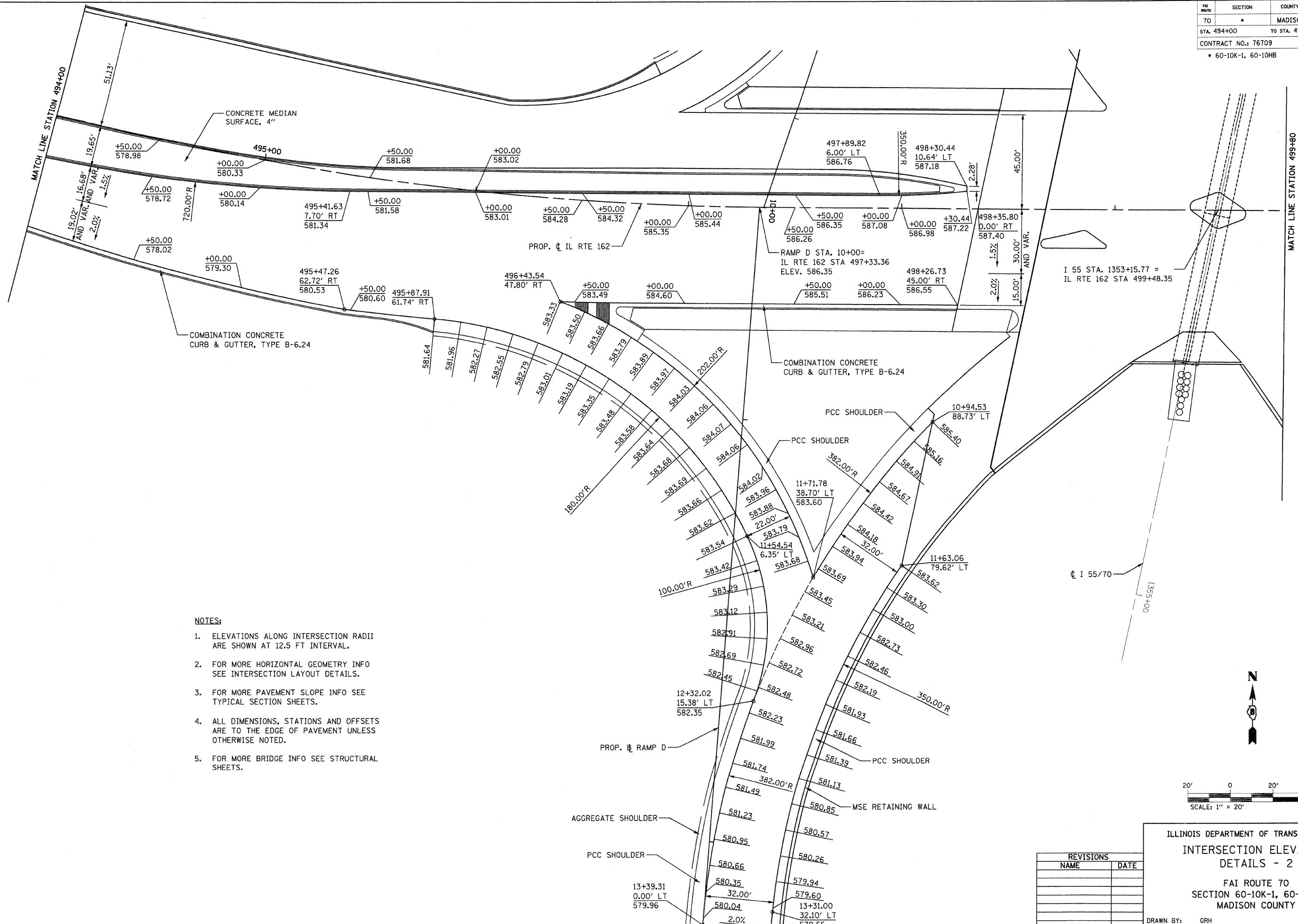
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\*DGN-SPEC\*  
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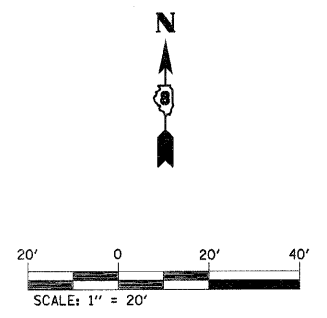




PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	
NO.	RT. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	



- NOTES:**
1. ELEVATIONS ALONG INTERSECTION RADII ARE SHOWN AT 12.5 FT INTERVAL.
  2. FOR MORE HORIZONTAL GEOMETRY INFO SEE INTERSECTION LAYOUT DETAILS.
  3. FOR MORE PAVEMENT SLOPE INFO SEE TYPICAL SECTION SHEETS.
  4. ALL DIMENSIONS, STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  5. FOR MORE BRIDGE INFO SEE STRUCTURAL SHEETS.



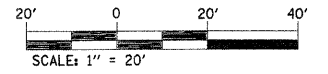
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION ELEVATION  
 DETAILS - 2**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: GRH  
 PLOT DATE: \*DATE-TIME\*

DATE-TIME: \*  
 REF: 236ccu201.dgn  
 REF: 236ccu20.dgn

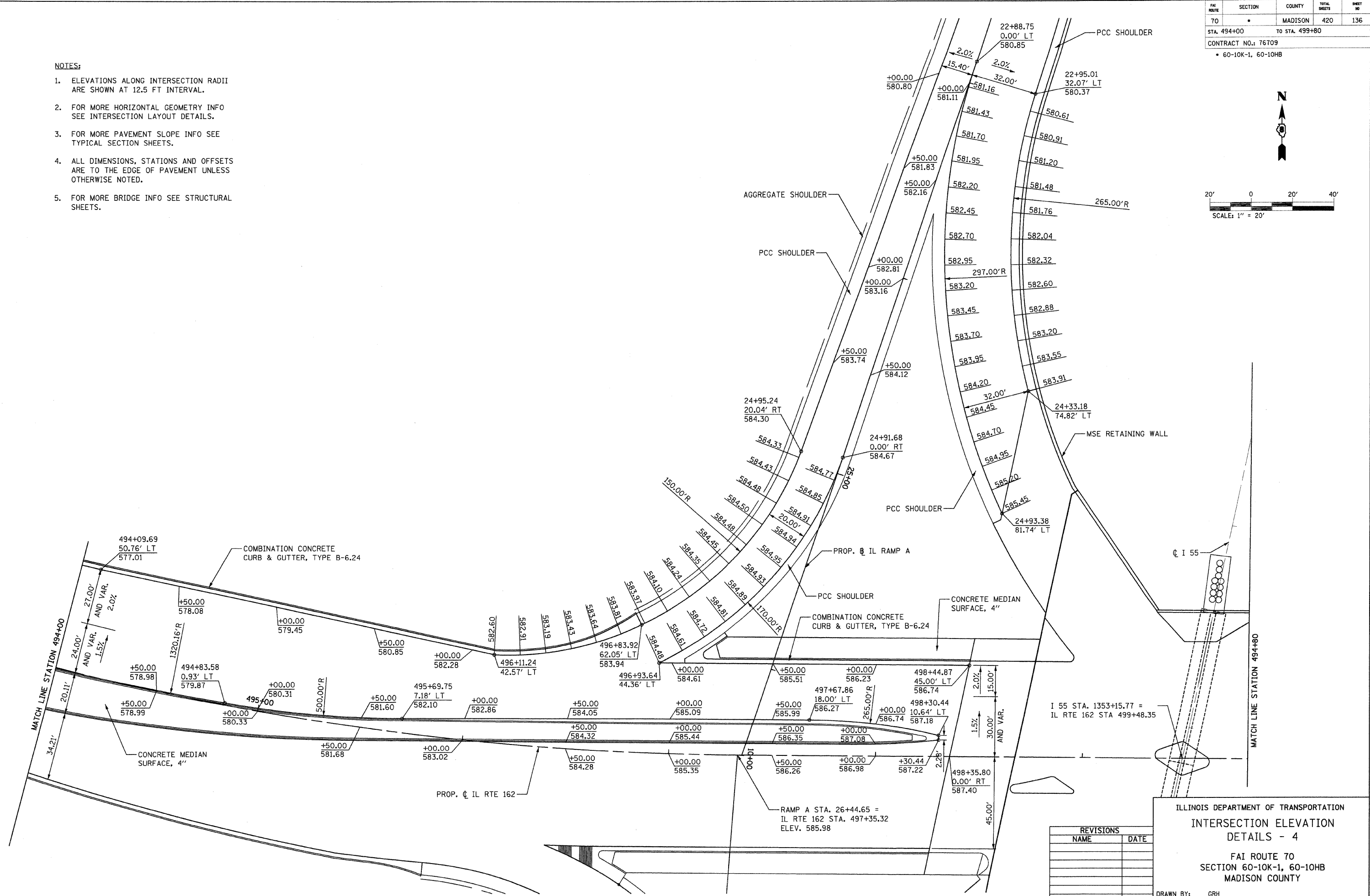


FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	136
STA. 494+00		TO STA. 499+80		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				



- NOTES:**
- ELEVATIONS ALONG INTERSECTION RADII ARE SHOWN AT 12.5 FT INTERVAL.
  - FOR MORE HORIZONTAL GEOMETRY INFO SEE INTERSECTION LAYOUT DETAILS.
  - FOR MORE PAVEMENT SLOPE INFO SEE TYPICAL SECTION SHEETS.
  - ALL DIMENSIONS, STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  - FOR MORE BRIDGE INFO SEE STRUCTURAL SHEETS.

PLANNED	DATE
DESIGNED	BY
CHECKED	BY
APPROVED	BY
NO. _____	DATE _____



REVISIONS	
NAME	DATE

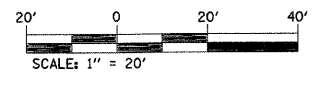
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION ELEVATION  
 DETAILS - 4**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

DRAWN BY: GRH  
 PLOT DATE: DATE-TIME

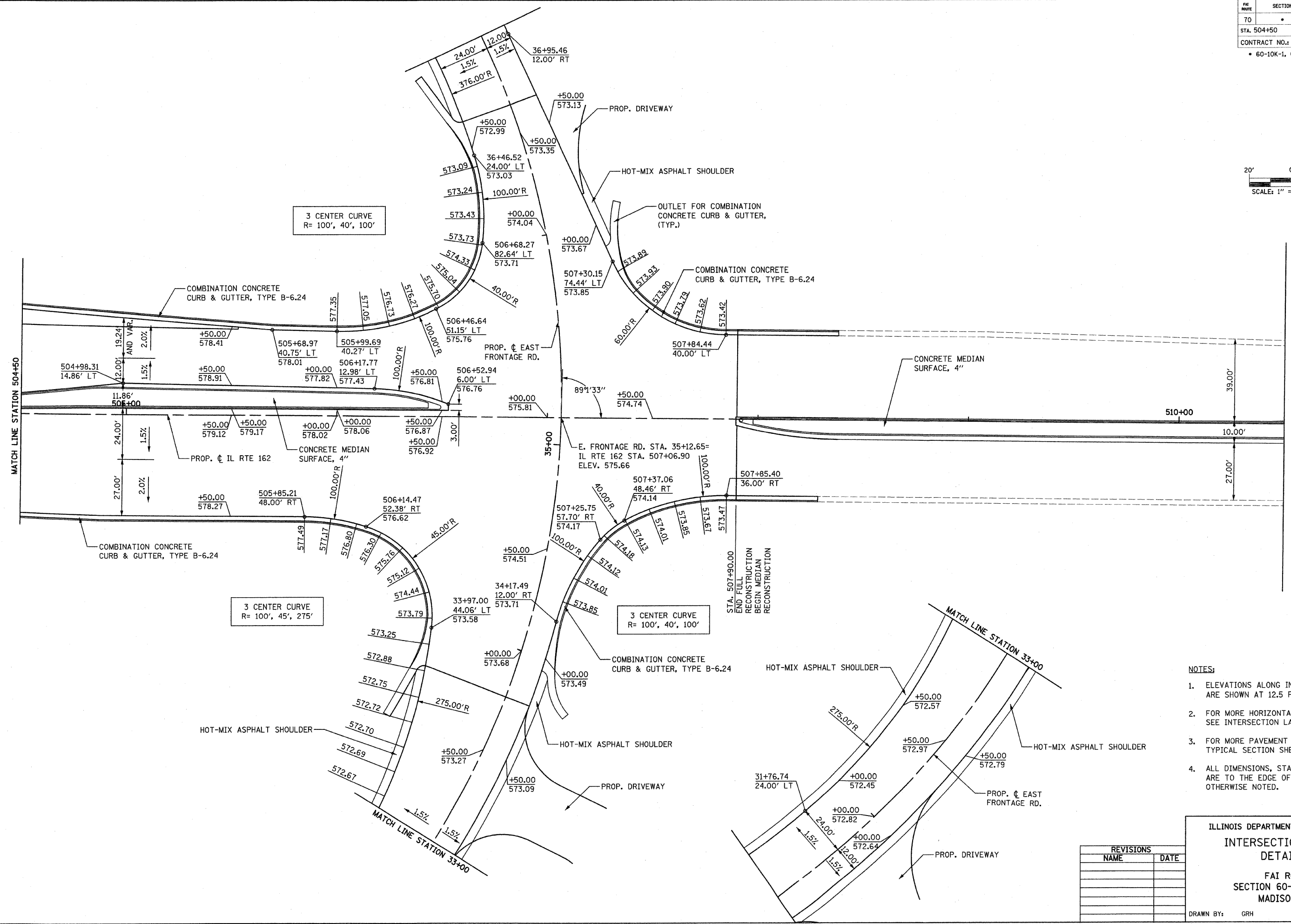
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FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	138
STA. 504+50		TO STA. 510+50		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	ASSEMBLED	
	CAD FILE NAME	
	NO.	



- NOTES:**
- ELEVATIONS ALONG INTERSECTION RADII ARE SHOWN AT 12.5 FT INTERVAL.
  - FOR MORE HORIZONTAL GEOMETRY INFO SEE INTERSECTION LAYOUT DETAILS.
  - FOR MORE PAVEMENT SLOPE INFO SEE TYPICAL SECTION SHEETS.
  - ALL DIMENSIONS, STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**INTERSECTION ELEVATION  
 DETAILS - 6**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

\*DIN-SPEC\*  
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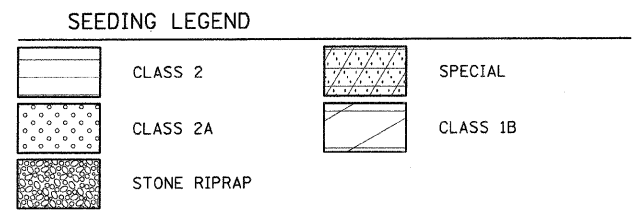
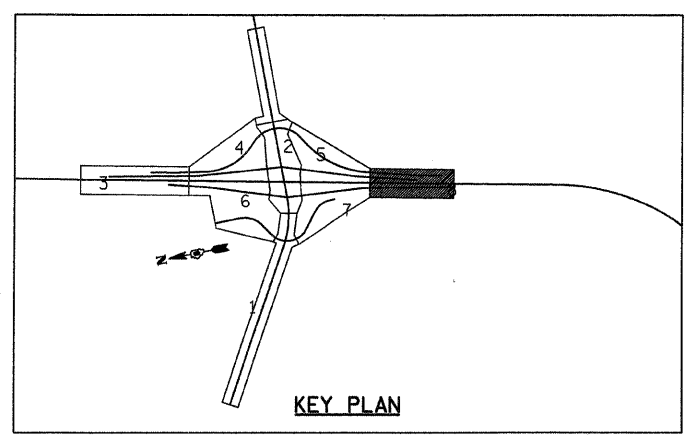




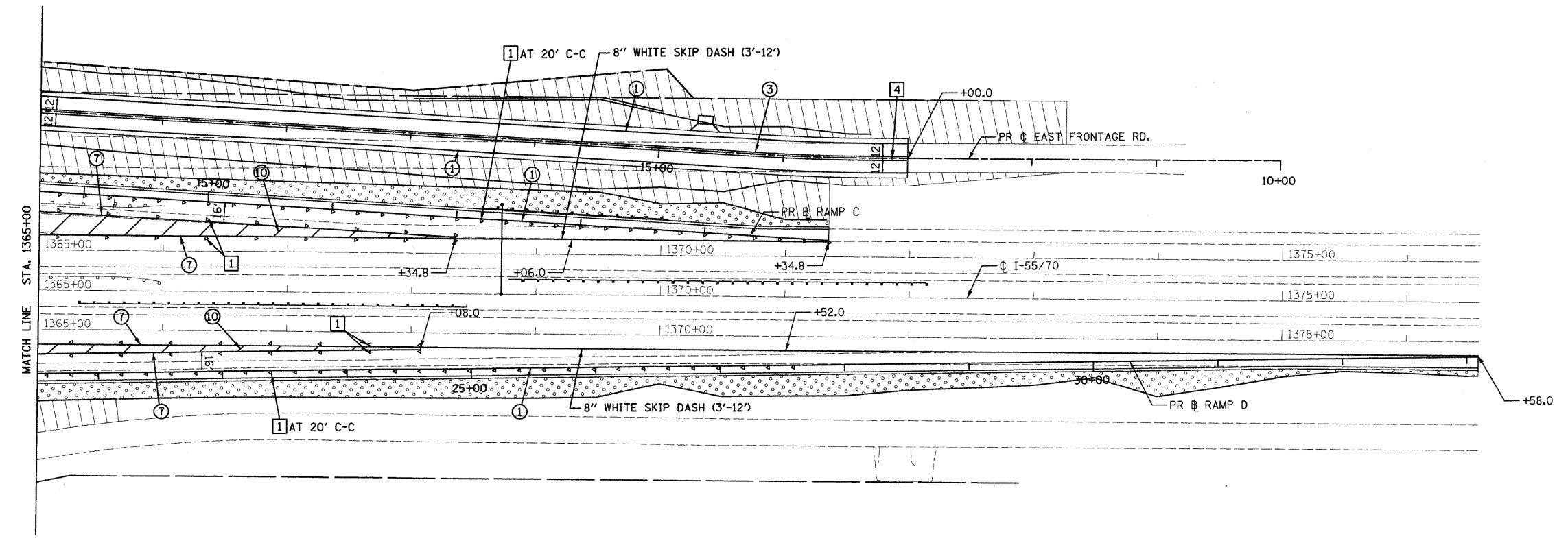




FILE ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	146
STA. 1365+00		TO STA. 1378+50		
CONTRACT NO. 76709				
• 60-10K, 60-10-4HB				



PLAN	SURVEYED	BY	DATE
	ADJUSTED		
	ALIGNED		
	CHECKED		
	BY		
	DATE		

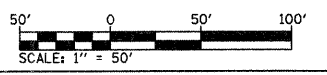


**PAVEMENT MARKING LEGEND**

- ① 4" WHITE SOLID
- ② 4" YELLOW SOLID
- ③ 4" DOUBLE YELLOW SOLID
- ④ 4" WHITE SKIP-DASH
- ⑤ 4" YELLOW SKIP-DASH
- ⑥ 4" WHITE DASHED
- ⑦ 8" WHITE SOLID
- ⑧ 12" YELLOW DIAGONAL-20'C-C
- ⑨ 12" WHITE DIAGONAL-20'C-C
- ⑩ 12" WHITE DIAGONAL-30'C-C
- ⑪ 24" STOP BAR (TYP.)
- ⑫ TURN ARROW WHITE
- ⑬ CURB MARKING (SEE DETAIL)

**RAISED REFLECTIVE PAVEMENT MARKER LEGEND**

- ① CRYSTAL ONE-WAY-40'C-C
- ② CRYSTAL ONE-WAY-80'C-C
- ③ AMBER ONE-WAY-40'C-C
- ④ AMBER TWO-WAY-40'C-C
- ⑤ PRISMATIC CURB REFLECTOR ON CURBS (SEE DETAIL)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED PAVEMENT MARKING AND SEEDING PLAN - 8**  
 FAI ROUTE 70  
 SECTION 60-10K, 60-10-4HB  
 MADISON COUNTY

DRAWN BY: GRH  
 PLOT DATE: \*DATE-TIME\*

\*DATE-TIME\*  
 \*JOB-SPEC\*  
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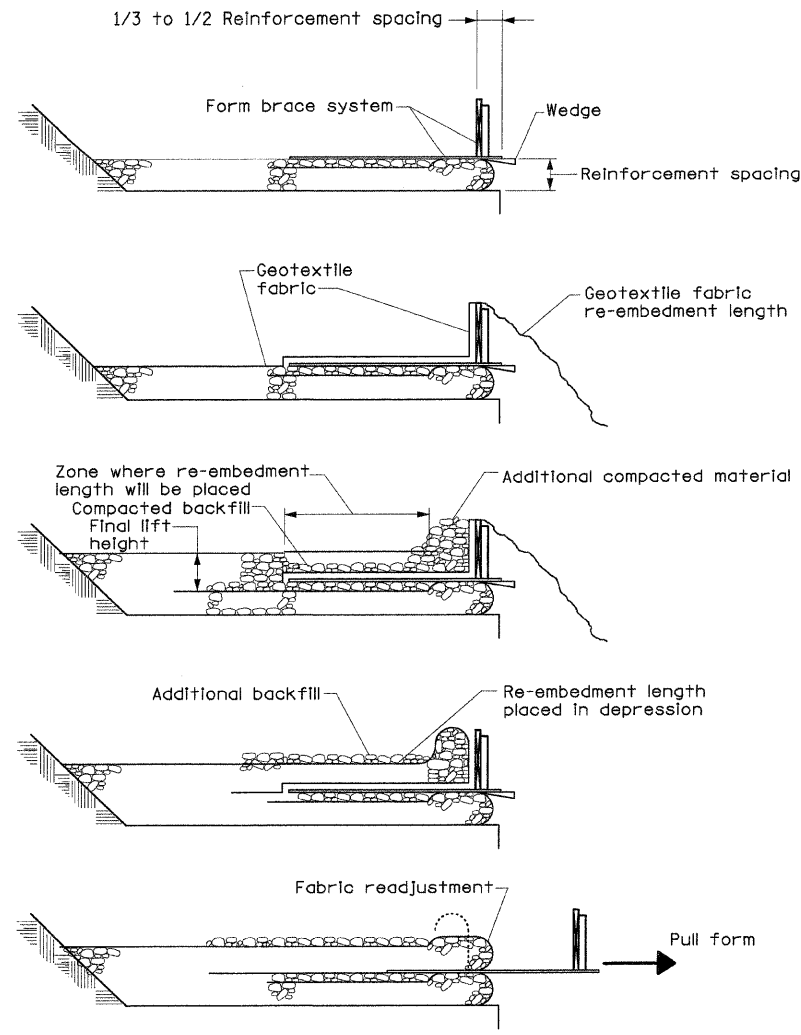
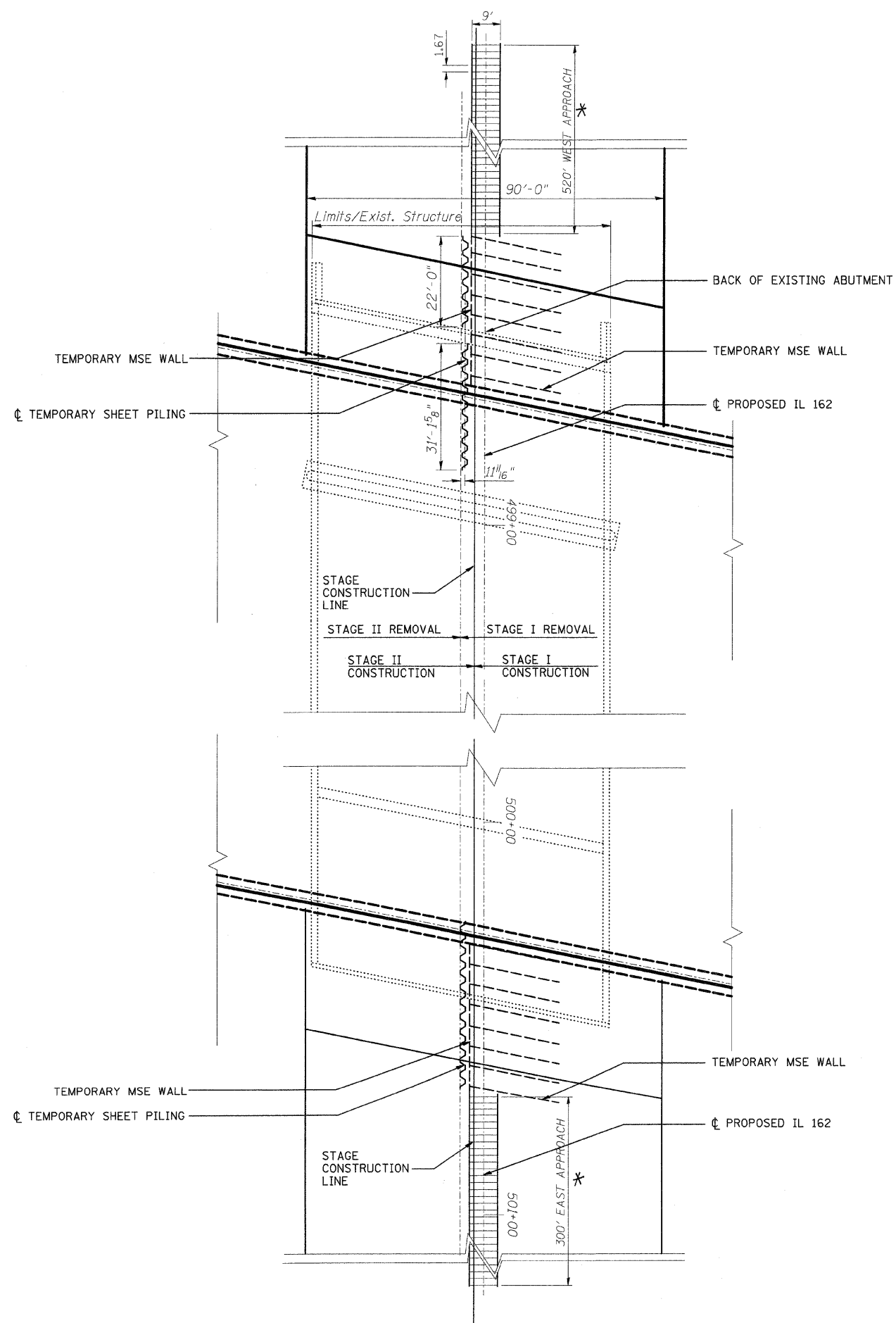






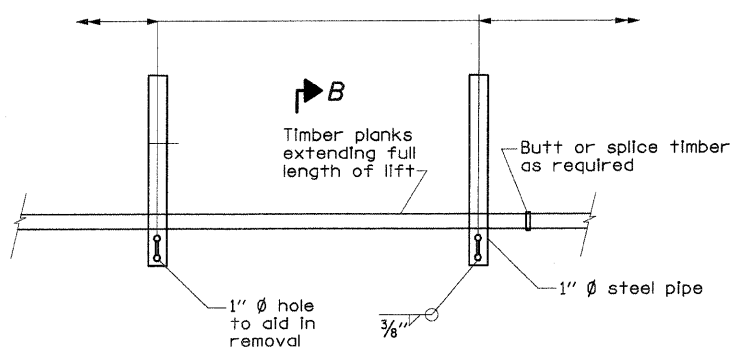


PLAN	DATE
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	

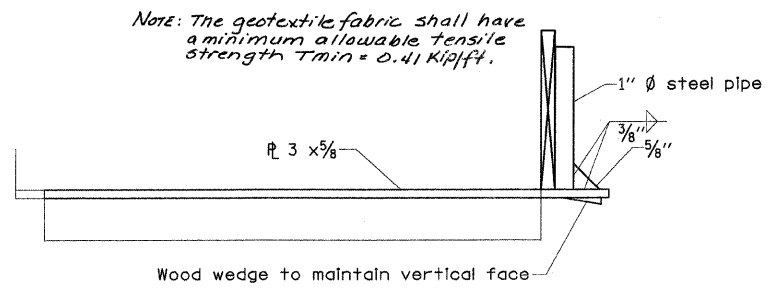


1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of 1/3 to 1/2 the reinforcement spacing.
2. Position fabric so that the required re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact backfill material in lifts to final lift height, create (3in.) depression in zone where re-embedment length will be located and place additional height of compacted material against form brace.
4. Fold fabric re-embedment length back over form brace into zone where depression was made in backfill and place additional compacted backfill (3 inches) to embed fabric and bring to final lift height.
5. Pull form brace outward allowing fabric face to slightly readjust to form tight round face and level with plan reinforcement spacing.

**GEOTEXTILE WALL CONSTRUCTION PROCEDURE**



**PLAN**  
**GEOTEXTILE TEMPORARY FORM BRACE DETAIL**



Note: The geotextile fabric shall have a minimum allowable tensile strength  $T_{min} = 0.41 \text{ kip/ft}$ .

**SECTION B-B**

\* Limits of Geotextile Retaining Wall

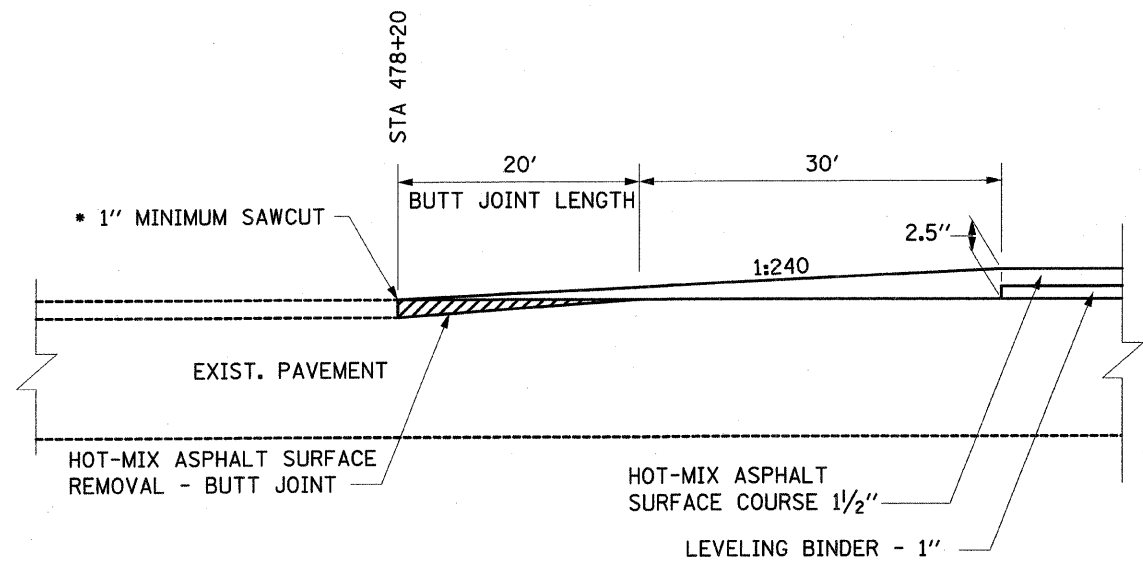
Rev.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GEOTEXTILE RETAINING WALL DETAIL**

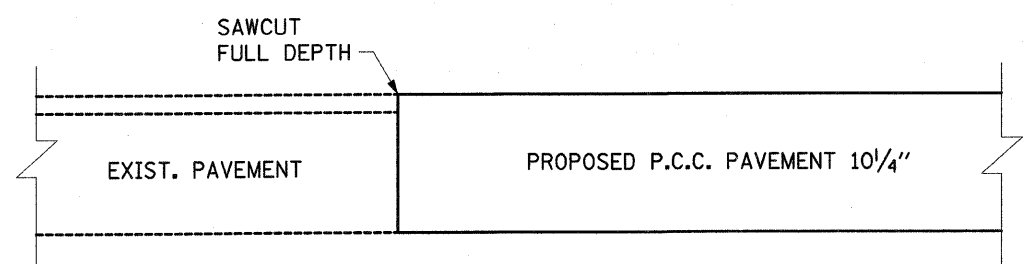
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: BTO  
PLOT DATE: \*DATE-TIME\*



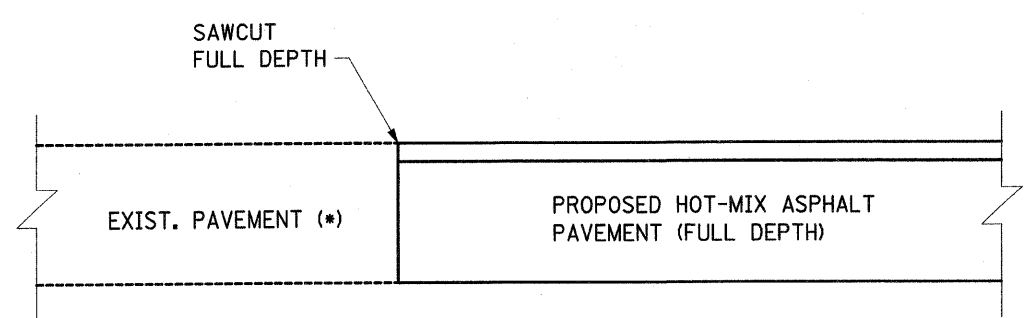
**HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT DETAIL**

\* COST OF SAWCUT INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



**TRANSITION AT STA 1325+65**  
(SOUTH BOUND AUXILARY LANE)

COST OF SAWCUT INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL

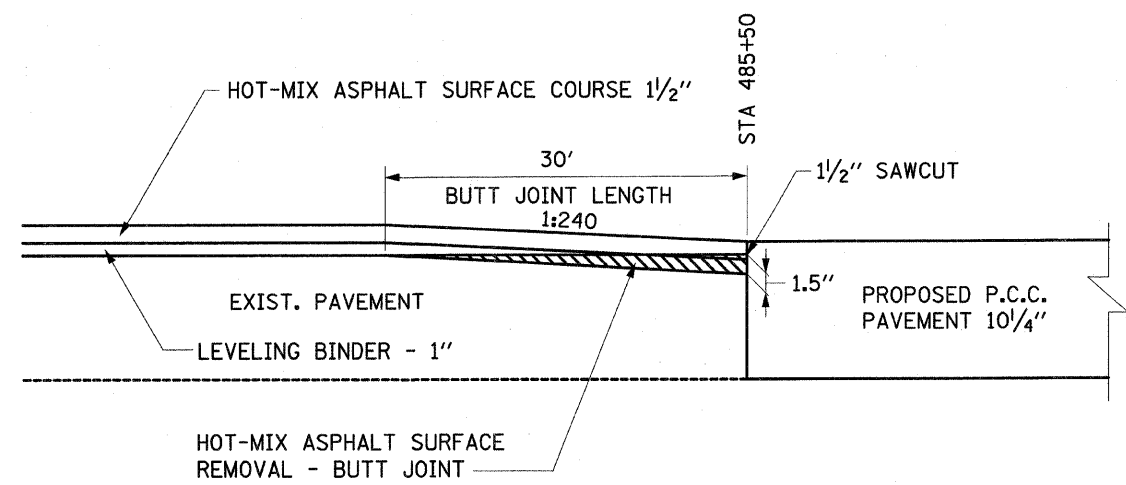


(\*) CONCRETE PAVEMENT AT STA 27+68.00

**TRANSITION DETAIL**

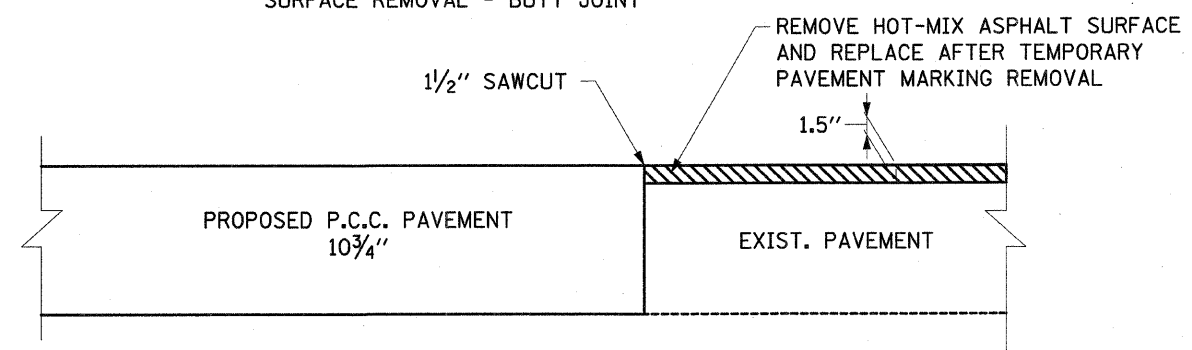
STA. 11+17.45	WEST FRONTAGE ROAD
STA. 27+68.60	
STA. 13+00.00	EAST FRONTAGE ROAD
STA. 51+37.00	

COST OF SAWCUT INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL



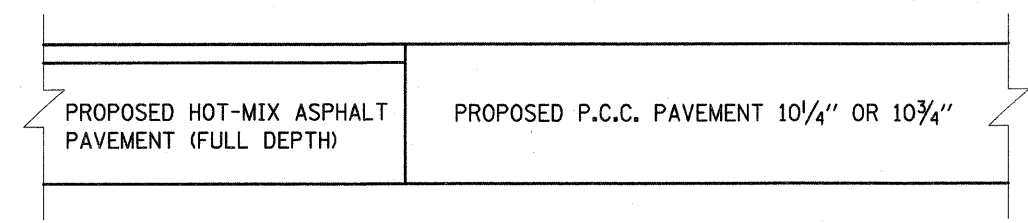
**TRANSITION AT STA 485+50**

COST OF SAWCUT INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



**TRANSITION AT STA 507+90**

COST OF SAWCUT INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL



**TRANSITION DETAIL**

STA. 17+73.45	WEST FRONTAGE ROAD
STA. 21+15.04	
STA. 33+77.28	EAST FRONTAGE ROAD
STA. 36+64.43	

REVISIONS	
NAME	DATE

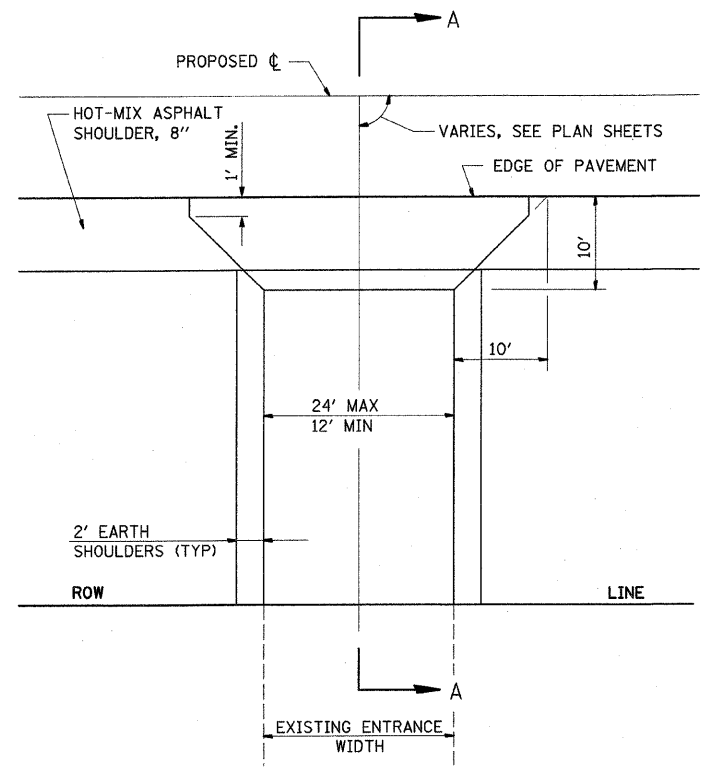
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BUTT JOINTS AND PAVEMENT DETAILS**  
  
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: GRH

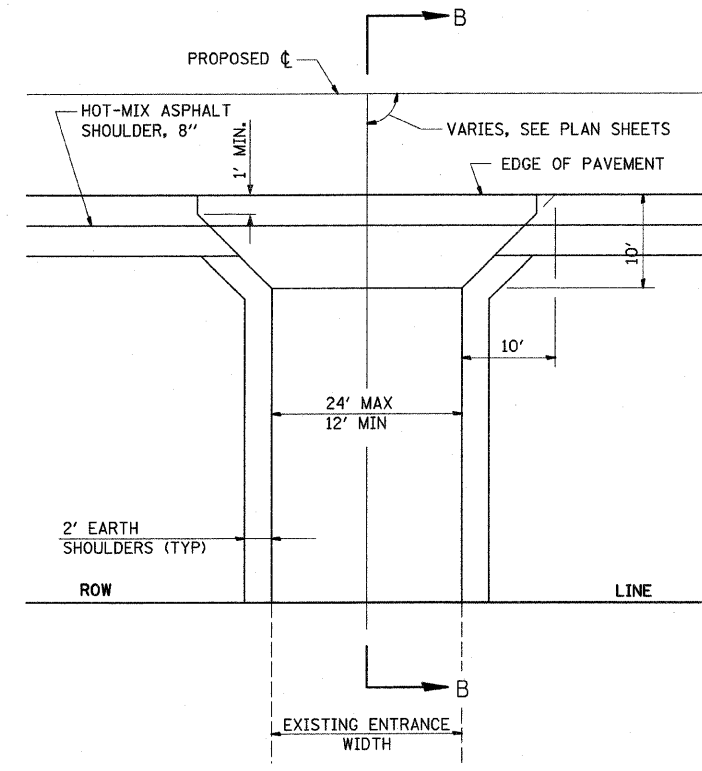
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DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 STRIPPED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_  
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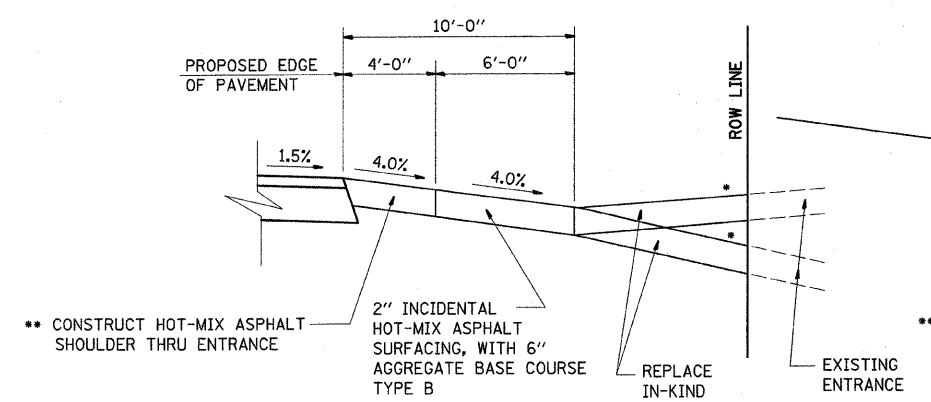




**PE DETAIL A**  
PRIVATE ENTRANCE ADJACENT TO HOT-MIX ASPHALT SHOULDER

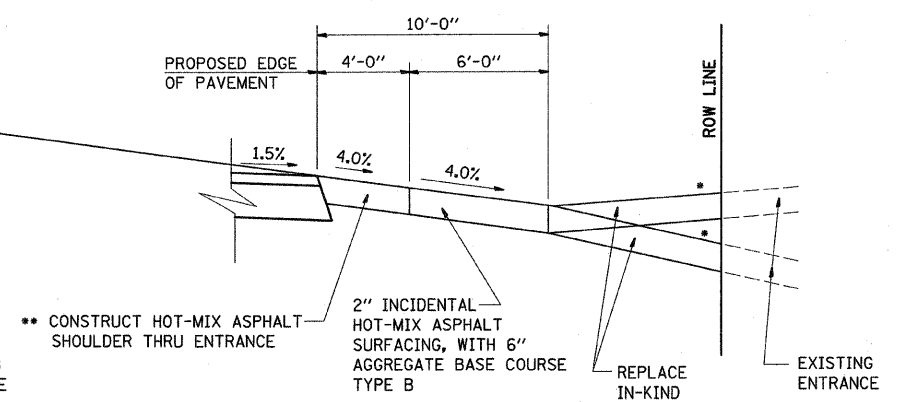


**PE DETAIL B**  
PRIVATE ENTRANCE ADJACENT TO COMBINATION HOT-MIX ASPHALT AND AGGREGATE SHOULDERS



**SECTION A-A**

- SEE CROSS SECTIONS FOR SLOPE
- OMIT AT CONCRETE ENTRANCES
- SEE PLANS FOR EXISTING SURFACE TYPE



**SECTION B-B**

- SEE CROSS SECTIONS FOR SLOPE
- OMIT AT CONCRETE ENTRANCES
- SEE PLANS FOR EXISTING SURFACE TYPE

"L" SEE SCHEDULE  
"W" SEE SCHEDULE

TYPE OF ENTRANCE	EXISTING MATERIAL	NEW ENTRANCE MATERIAL (BEYOND RADIUS RETURNS OR TAPERS)				
		PCC DRIVEWAY PAVEMENT (6")	PCC DRIVEWAY PAVEMENT (8")	INCIDENTAL HOT-MIX ASPHALT SURFACING, (2")	AGGREGATE BASE COURSE TYPE B (6")	AGGREGATE SURFACE COURSE TYPE B (6")
PRIVATE	CONCRETE	X				
	HMA			X	X	
	AGGREGATE					X
COMMERCIAL	CONCRETE		X			
	HMA		X			
	AGGREGATE		X			

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ENTRANCE DETAILS**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

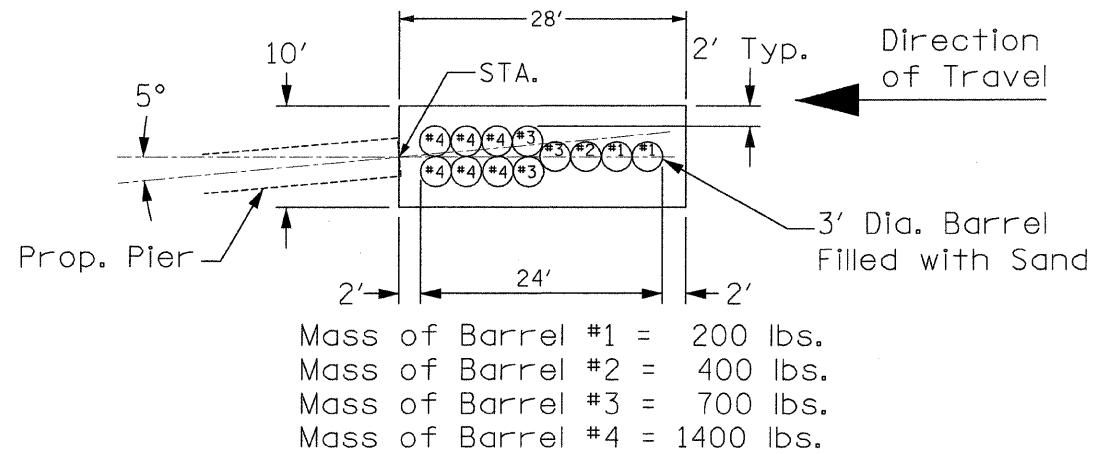
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PLOT DATE: \*DATE-TIME\*

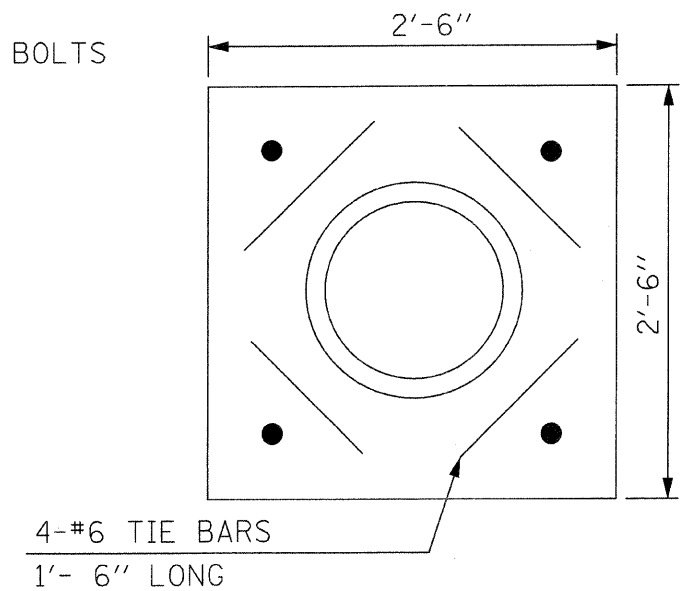
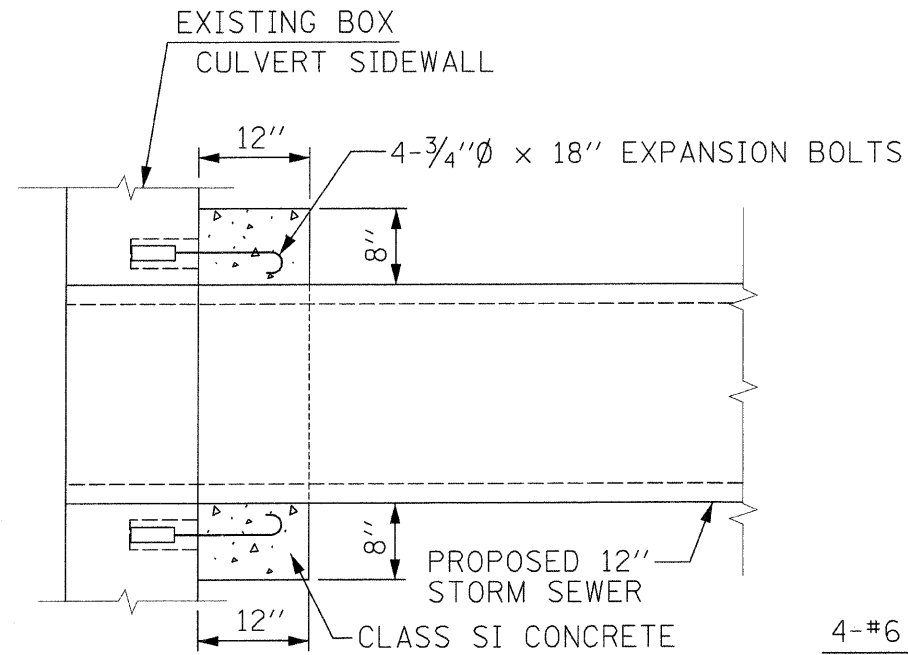
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NO.	NO.	DATE
NO.	NO.	DATE
NO.	NO.	DATE
NO.	NO.	DATE
NO.	NO.	DATE

•NON-SPEC•  
•REF-•  
•REF-•





**FREE STANDING SAND-FILLED  
CONTAINER-TYPE IMPACT ATTENUATOR**  
 STA. 1352+44 AND STA. 1353+88  
 NOT TO SCALE



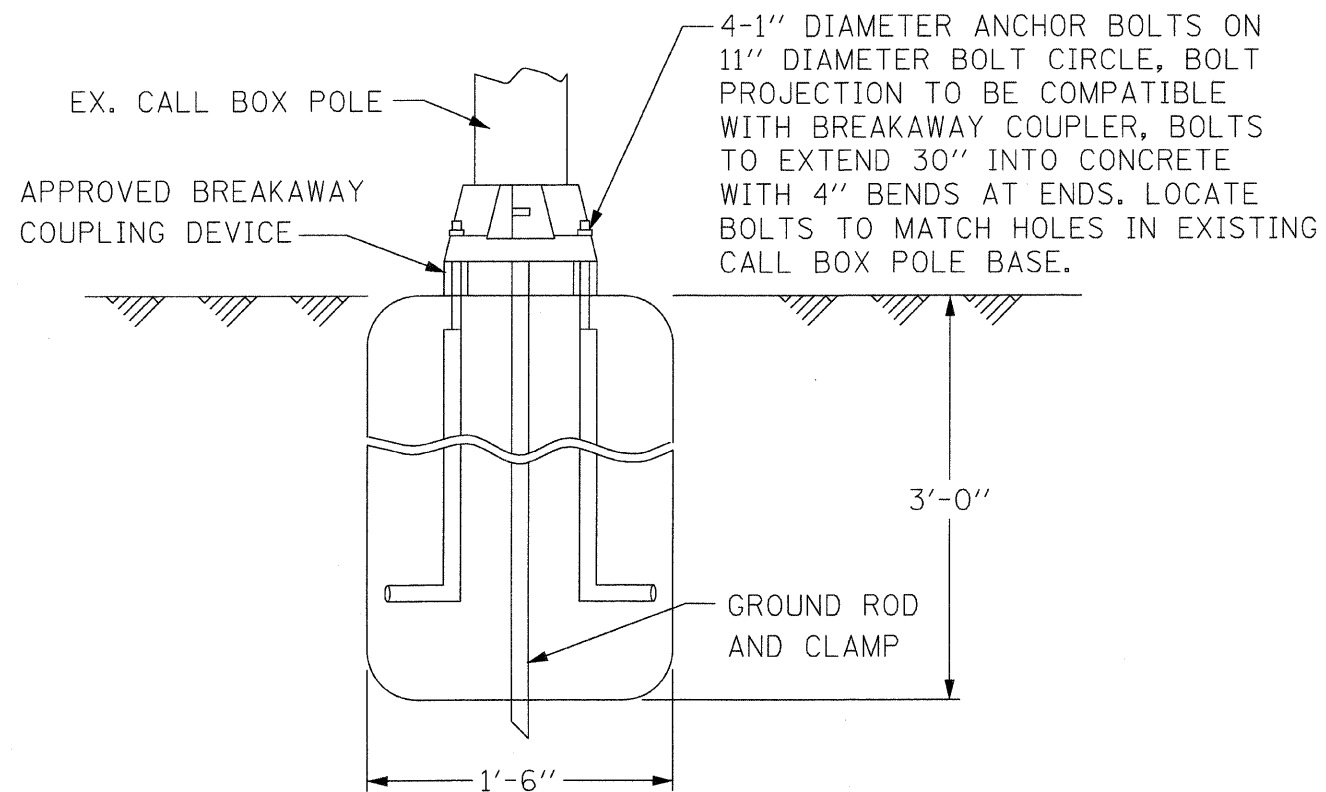
**END VIEW**

**SIDE VIEW**

SPAN X RISE	CL SI CONCRETE CU YD (EST)
5' x 2'	0.23

THE CONCRETE COLLAR, AS DETAILED, SHALL BE USED TO CONNECT PROP. 12" STORM SEWER TO THE EXISTING 5' x 2' BOX CULVERT. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

**DETAILS OF CONCRETE COLLAR**  
 NOT TO SCALE



**CALL BOX FOUNDATION DETAIL**  
 NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DETAILS**

FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

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

\*DATE-TIME\*  
 \*CON-SPEC\*  
 \*REF\*

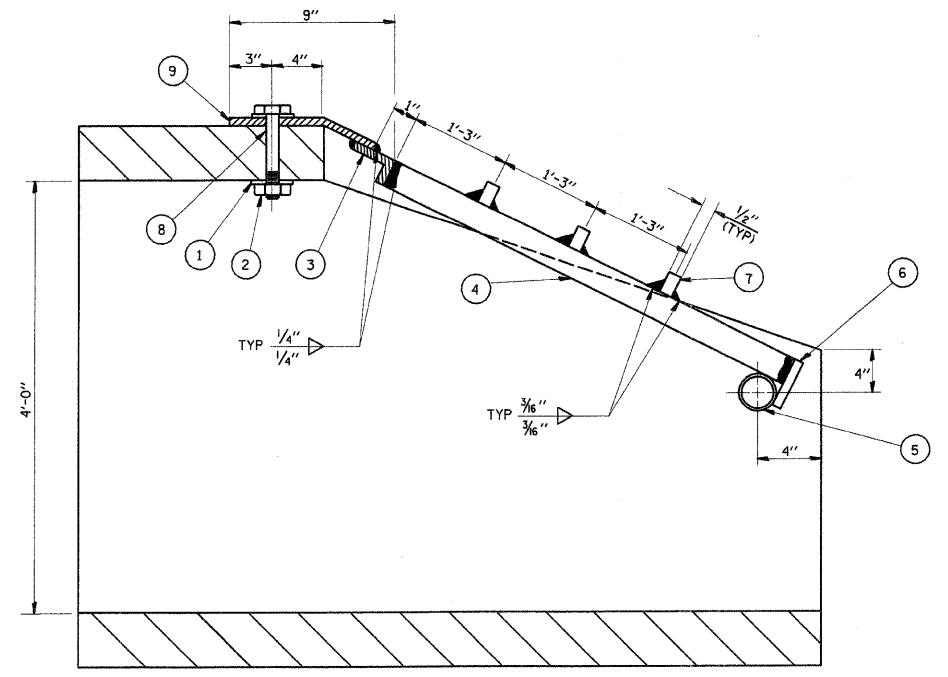
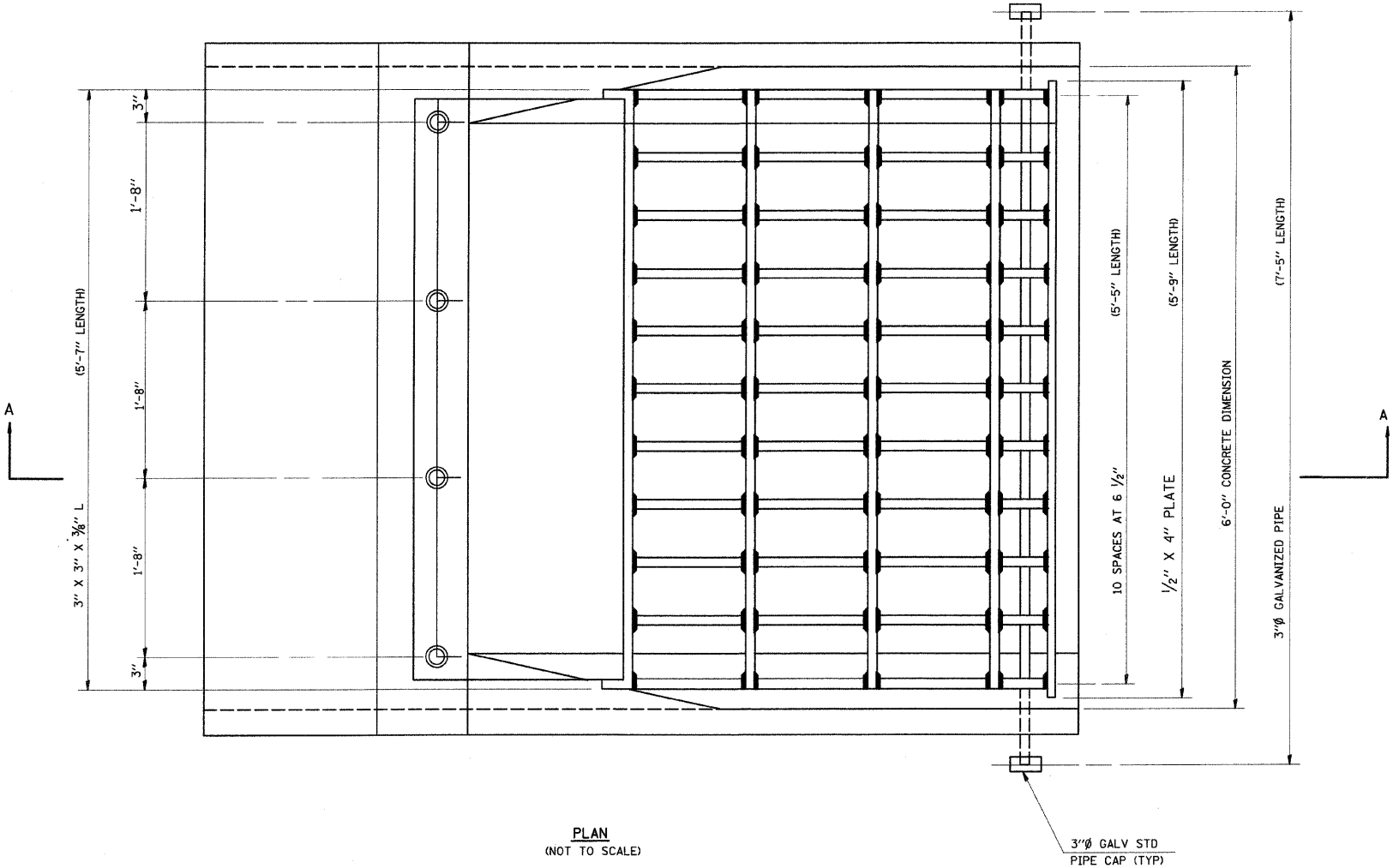






F&P ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	*	MADISON	420	159
STA.		TO STA.		
CONTRACT NO.: 76790				
• 60-10K-1, 60-10HB				

# GRATING FOR PRECAST CONCRETE BOX CULVERT END SECTION 6' X 4'



- LEGEND**
- ① 1/4" X 4" X 4" PLATE WASHER; 1 1/6" Ø HOLE
  - ② 1" Ø BOLT WITH FLAT WASHER AND HEX NUT
  - ③ L 3" X 3" X 3/8"
  - ④ 1/2" X 3" BAR (TYP)
  - ⑤ PROVIDE 3, 3/4" Ø HOLE THRU CONCRETE
  - ⑥ 1/2" X 4" BAR
  - ⑦ BARS 1/2" X 3/8" (TYP)
  - ⑧ 1/8" Ø HOLE THRU 3/8" PLATE; 1/4" Ø HOLE THRU CONCRETE
  - ⑨ 3/8" PLATE SHALL CONFORM TO SURFACE SHAPE OF CONCRETE END SECTION

- GENERAL NOTES**
1. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE IN ACCORDANCE WITH ARTICLE 706.04 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111.
  2. GALVANIZED STEEL PIPE SHALL BE IN ACCORDANCE WITH ARTICLE 706.27(B) OF THE STANDARD SPECIFICATIONS AND SHALL MEET THE REQUIREMENTS OF ASTM A-53, GRADE B.
  3. BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 706.27(F) OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232.
  4. ALL FABRICATION SHALL BE COMPLETE AND READY FOR ASSEMBLY BEFORE GALVANIZING.
  5. THE CORED HOLES IN THE CONCRETE END SECTIONS SHALL BE TO THE DIAMETERS NOTED. IF CONE-OUT ON THE OTHER END OF THE HOLE OCCURS THE HOLE SHALL BE FILLED WITH GROUT TO CORRECT DIAMETER OF THE HOLE.
  6. THE CONTRACT UNIT PRICE "EACH" FOR GRATING FOR CONCRETE END SECTION OF THE SIZE INDICATED SHALL INCLUDE FABRICATION AND INSTALLATION OF THE GRATING AS DETAILED HEREON, INCLUDING FABRICATION OF NECESSARY MOUNTING HOLE IN THE SECTION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GRATING FOR PRECAST  
CONCRETE BOX CULVERT  
END SECTION 6' X 4'**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

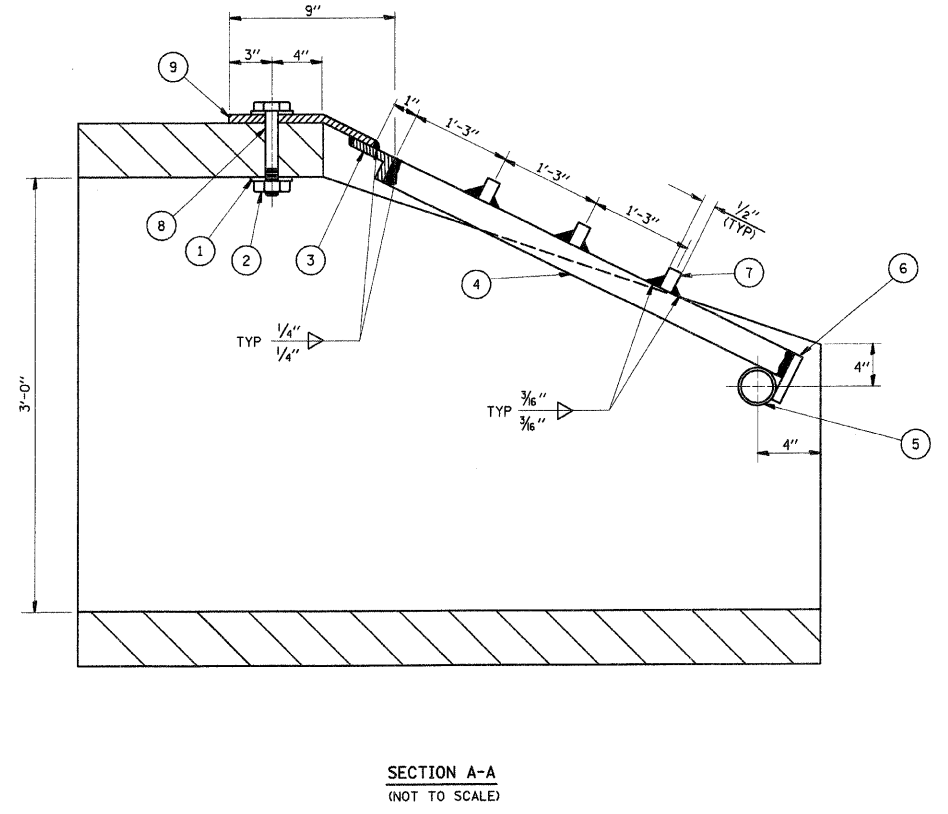
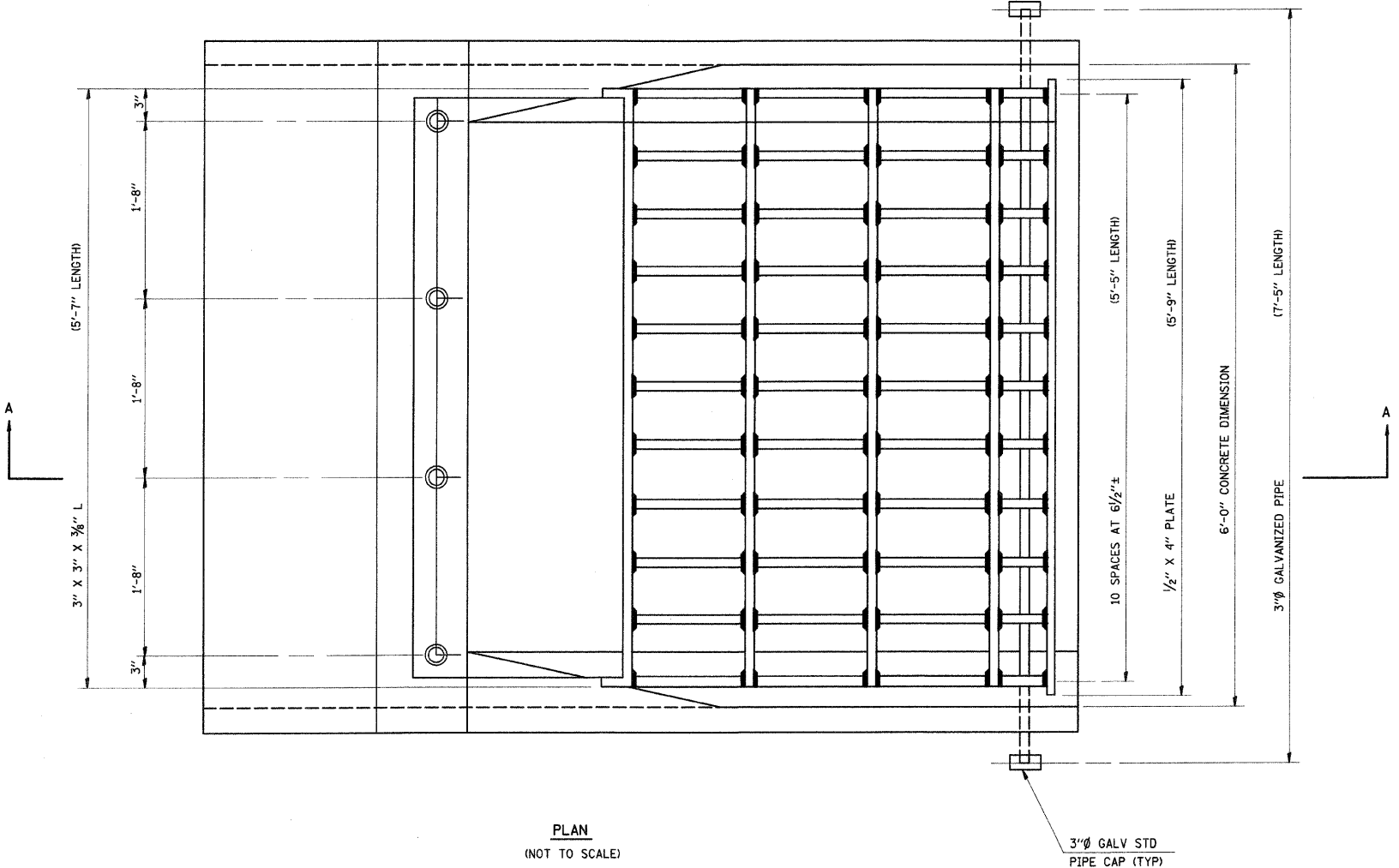
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PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
NO.	CHECKED		
	FILE NAME		



PIP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	MADISON	420	161
STA.	TO STA.			
CONTRACT NO.: 76790				
• 60-10K-1, 60-10HB				

# GRATING FOR PRECAST CONCRETE BOX CULVERT END SECTION 6' X 3'



- LEGEND**
- ① 1/4" X 4" X 4" PLATE WASHER; 1 1/6" Ø HOLE
  - ② 1" Ø BOLT WITH FLAT WASHER AND HEX NUT
  - ③ L 3" X 3" X 3/8"
  - ④ 1/2" X 3" BAR (TYP)
  - ⑤ PROVIDE 3, 3/4" Ø HOLE THRU CONCRETE
  - ⑥ 1/2" X 4" BAR
  - ⑦ BARS 1/2" X 3/8" (TYP)
  - ⑧ 1 1/8" Ø HOLE THRU 3/8" PLATE; 1 1/4" Ø HOLE THRU CONCRETE
  - ⑨ 3/8" PLATE SHALL CONFORM TO SURFACE SHAPE OF CONCRETE END SECTION

- GENERAL NOTES**
- STRUCTURAL STEEL SHAPES AND PLATES SHALL BE IN ACCORDANCE WITH ARTICLE 706.04 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-111.
  - GALVANIZED STEEL PIPE SHALL BE IN ACCORDANCE WITH ARTICLE 706.27(B) OF THE STANDARD SPECIFICATIONS AND SHALL MEET THE REQUIREMENTS OF ASTM A-53, GRADE B.
  - BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 706.27(F) OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232.
  - ALL FABRICATION SHALL BE COMPLETE AND READY FOR ASSEMBLY BEFORE GALVANIZING.
  - THE CORED HOLES IN THE CONCRETE END SECTIONS SHALL BE TO THE DIAMETERS NOTED. IF CONE-OUT ON THE OTHER END OF THE HOLE OCCURS THE HOLE SHALL BE FILLED WITH GROUT TO CORRECT DIAMETER OF THE HOLE.
  - THE CONTRACT UNIT PRICE "EACH" FOR GRATING FOR CONCRETE END SECTION OF THE SIZE INDICATED SHALL INCLUDE FABRICATION AND INSTALLATION OF THE GRATING AS DETAILED HEREON, INCLUDING FABRICATION OF NECESSARY MOUNTING HOLE IN THE SECTION.

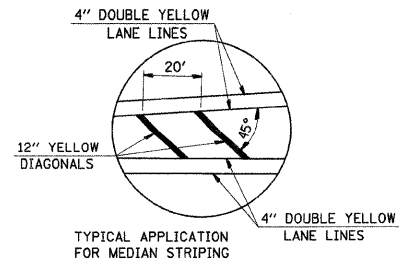
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GRATING FOR PRECAST CONCRETE BOX CULVERT END SECTION 6' X 3'**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

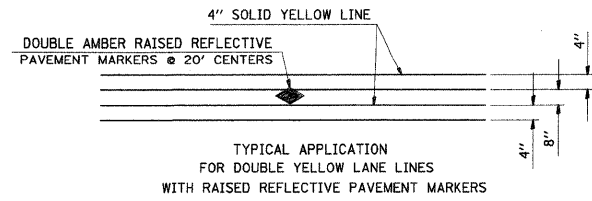
DRAWN BY: \_\_\_\_\_

DATE-TIME  
 PLOT DATE  
 REF.

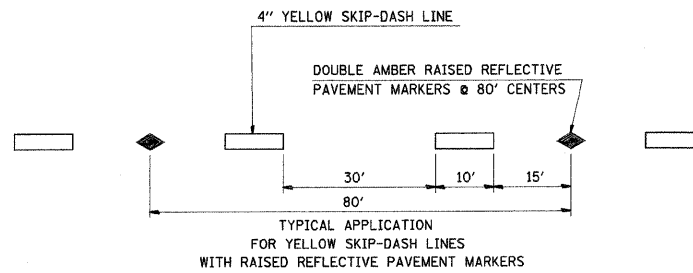
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70	•	MADISON	420	162
STA.	TO STA.			
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				



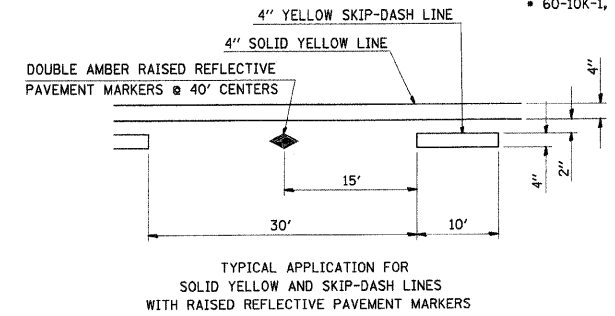
**DETAIL 'A'**  
NOT TO SCALE



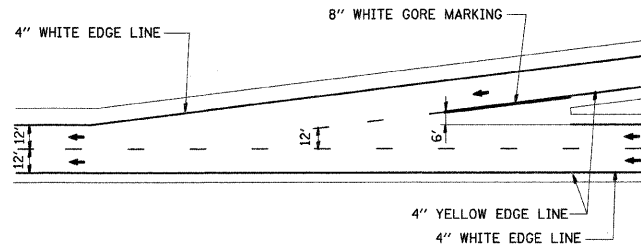
**DETAIL 'B'**



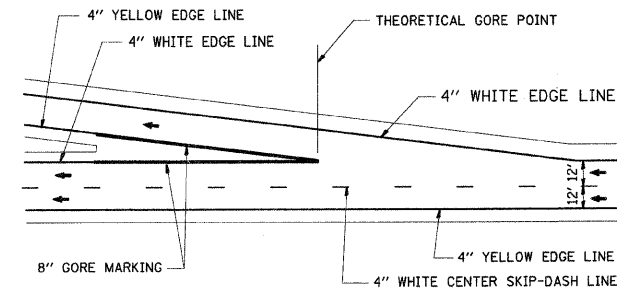
**DETAIL 'C'**



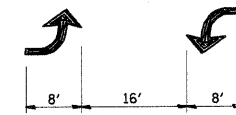
**DETAIL 'D'**



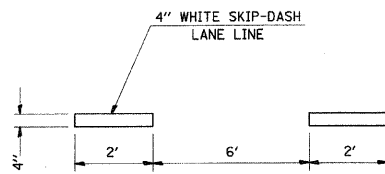
**TYPICAL ENTRANCE RAMP MARKINGS**



**TYPICAL EXIT RAMP MARKINGS**

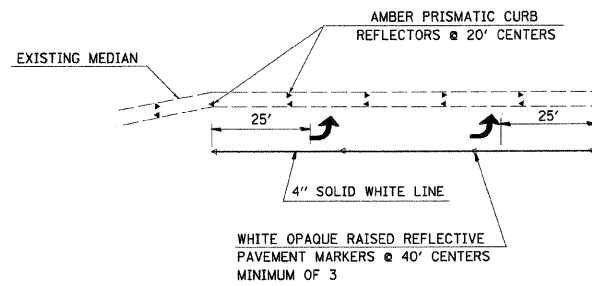


**DETAIL 'E'**



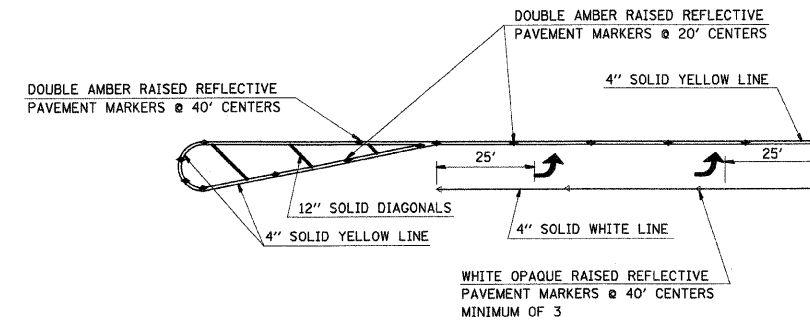
**TYPICAL APPLICATION FOR WHITE SKIP-DASH LANE LINES**

**DETAIL 'F'**



**TYPICAL APPLICATION FOR LEFT TURN LANE WITH PRISMATIC CURB REFLECTORS**

**DETAIL 'G'**



**TYPICAL APPLICATION FOR LEFT TURN LANE WITH RAISED REFLECTIVE PAVEMENT MARKERS**

**DETAIL 'H'**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING  
DETAILS**

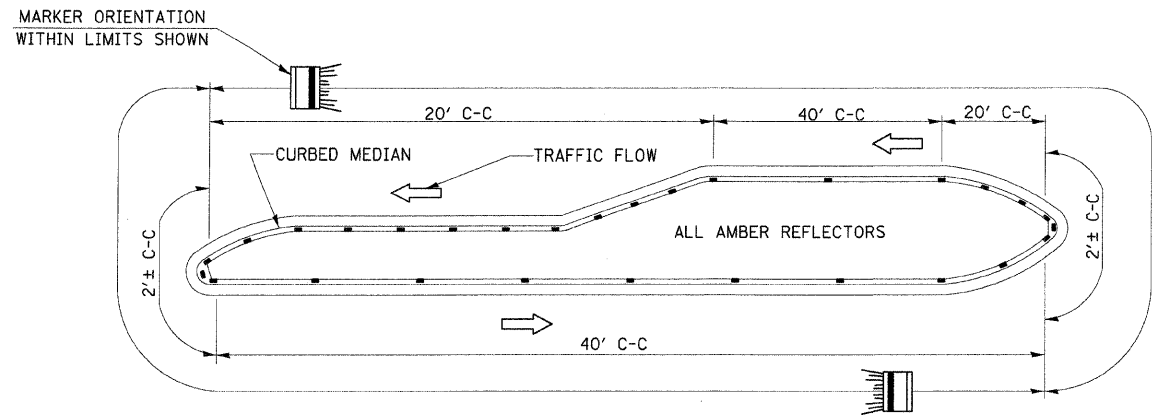
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

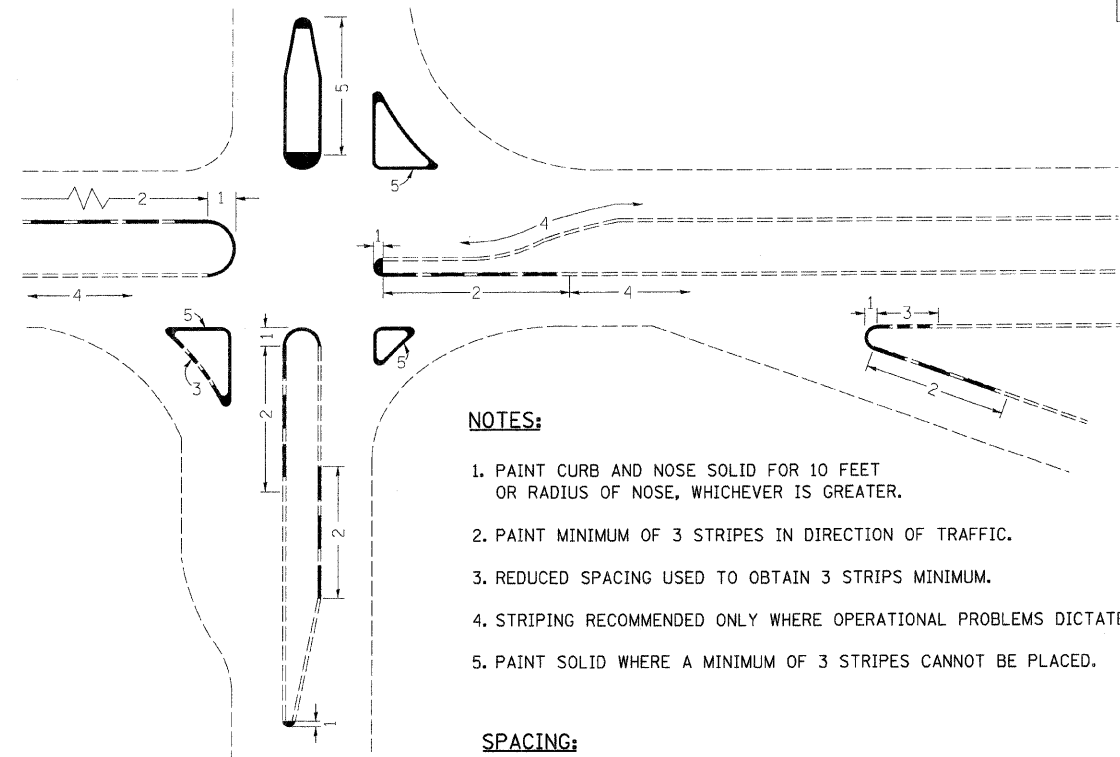
PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	RT. OF WAY CHECKED	
	POD FILE NAME	

\*DATE-TIME\*  
\*SHEET\*  
\*REF\*  
\*REF\*



**NOTES:**

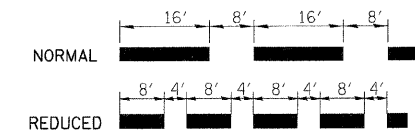
1. PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL AND POSITIONED SO THAT THE REFLECTIVE FACE IS FACING THE APPROACHING TRAFFIC.
2. PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3. PRISMATIC REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.



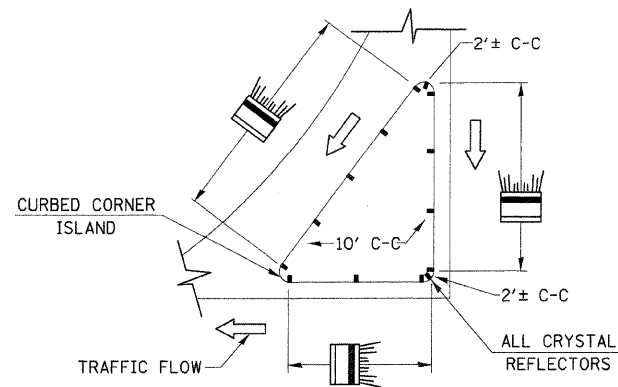
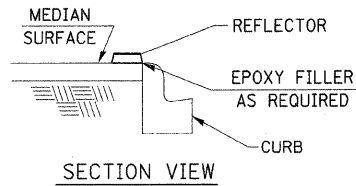
**NOTES:**

1. PAINT CURB AND NOSE SOLID FOR 10 FEET OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPES MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

**SPACING:**



**CURB MARKING**  
(NO SCALE)



**TYPICAL PLACEMENT OF PRISMATIC REFLECTORS ON CURBS**  
(NO SCALE)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING  
 DETAILS**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

DRAWN BY: GRH  
 PLOT DATE: \*DATE-TIME\*

PLAN  
 SURVEYED  
 NOTE BOOK  
 NO.

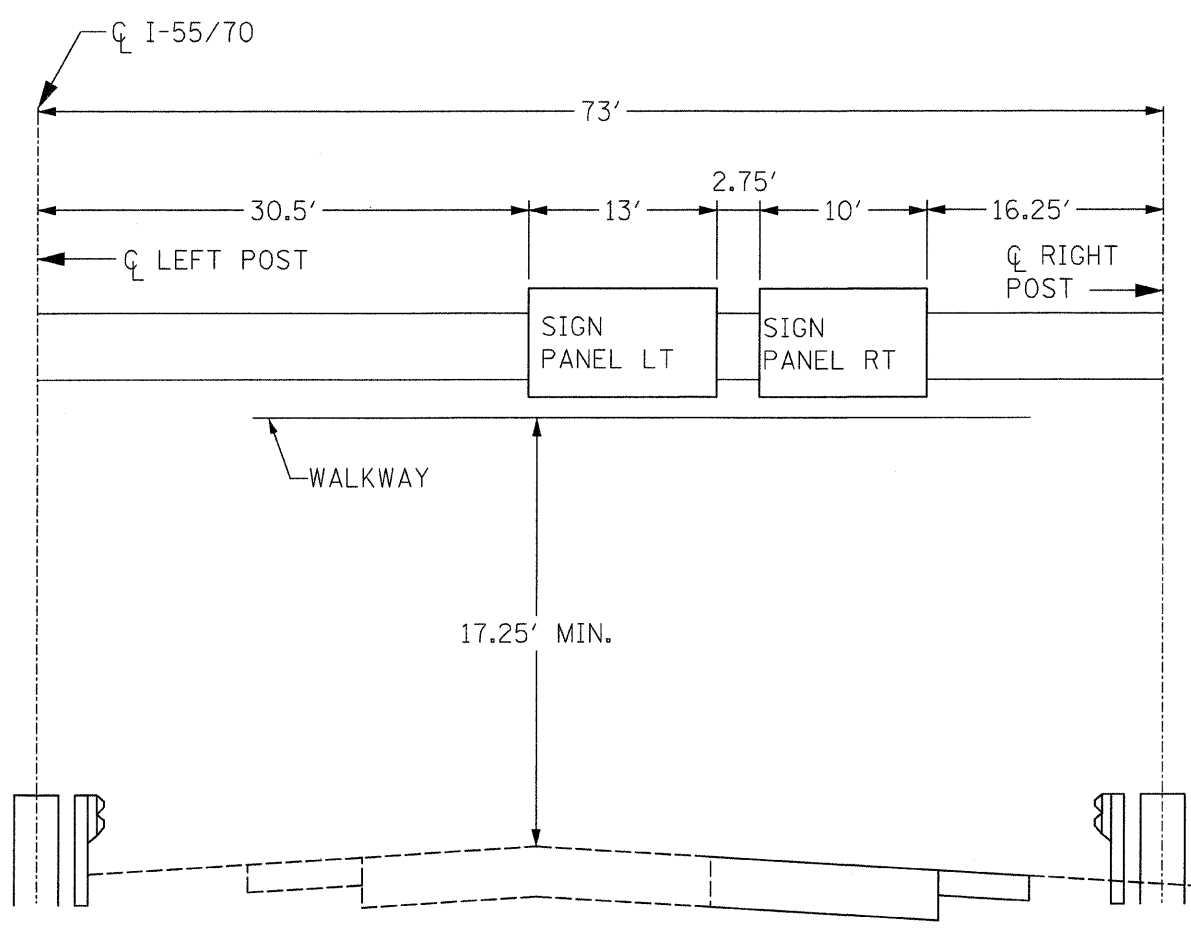
BY  
 DATE

ALIGNED  
 RT. OF WAY CHECKED  
 ROAD FILE NAME

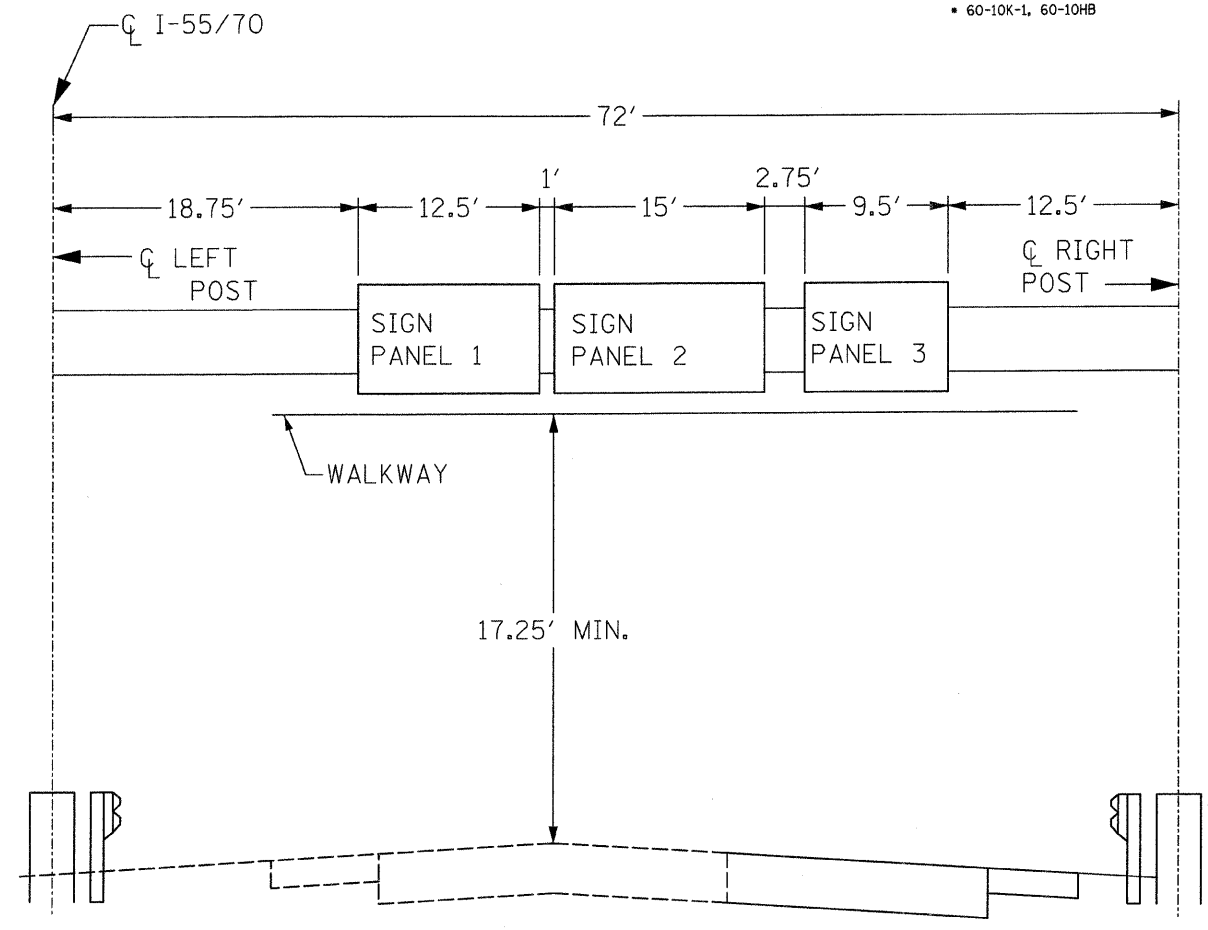
\*DATE-TIME\*  
 \*REF-SPEC\*  
 \*REF\*

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		MADISON	420	164
STA.		TO STA.		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				

PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNED	
NO.	RT. OF WAY CHECKED	
	POD FILE NAME	



STA. 1337+90 (SB)  
(LOOKING SOUTH)



STA. 1368+72 (NB)  
(LOOKING NORTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
OVERHEAD SIGN STRUCTURES  
SIGN PANEL PLACEMENT

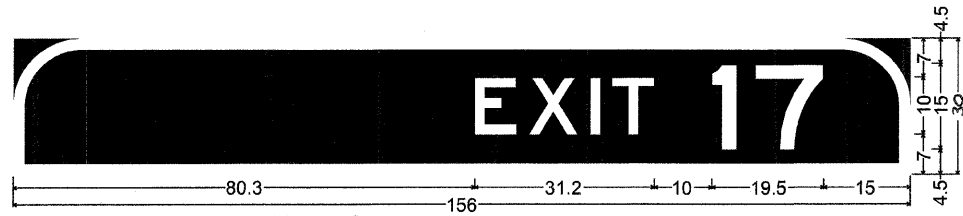
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: GRH



FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	165
STA.		TO STA.		
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				

PLAN	SURVEYED	DATE
NOTE BOOK NO.	BY	
	ALIGNED CHECKED	
	RT. OF WAY CHECKED	
	ROAD FILE MADE	



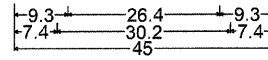
12.0" Radius, 2.0" Border, White on Green;  
[EXIT 17] E;



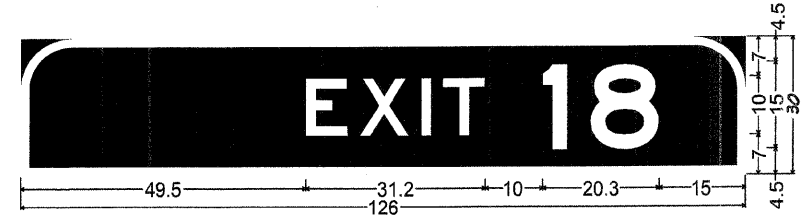
12.0" Radius, 2.0" Border, White on Green;  
[E] E [AST] E Mod; [St. Jacob] E Mod; [Highland] E Mod; [1] E [ MILE] E Mod;

SIGN PANEL LT

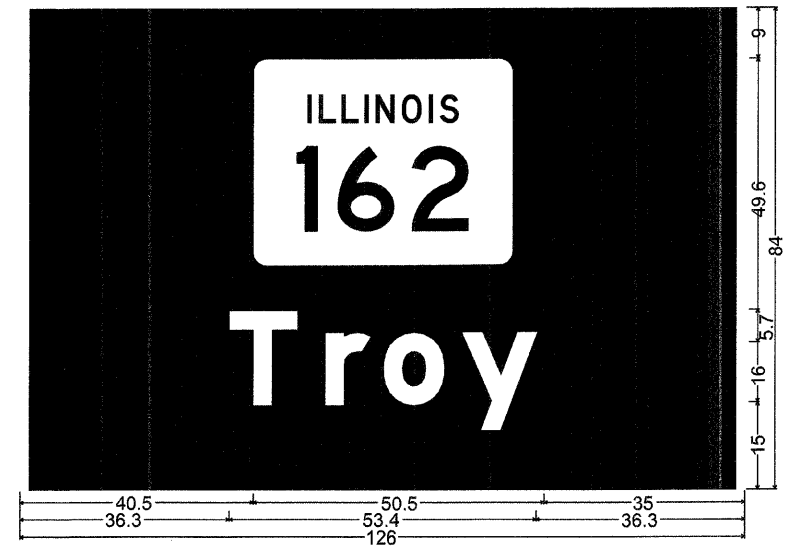
ILLINOIS  
162



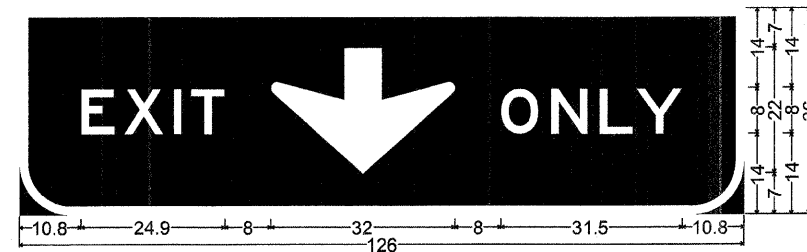
2.3" Radius, No border, White on White;  
[ILLINOIS] Black D; [162] Black D;



9.0" Radius, 2" Border, White on Green;  
[EXIT 18] E;



9.0" Radius, 2" Border, White on Green;  
STATEROUTE162;  
[Troy] E Mod;



9.0" Radius, 2" Border, Black on Yellow;  
[EXIT] E; Down Arrow 22.0" 270°; [ONLY] E;

SIGN PANEL RT

STA. 1337+90 (I-55/70 SB)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PROPOSED SIGN PANEL DETAILS

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: GRH

PLOT DATE: \*DATE-TIME\*

\*DATE-TIME\*  
\*REV-SPEC\*  
\*REF\*

FAI ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
70		MADISON	420	166
STA. TO STA.				
CONTRACT NO.: 76709				
• 60-10K-1, 60-10HB				

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

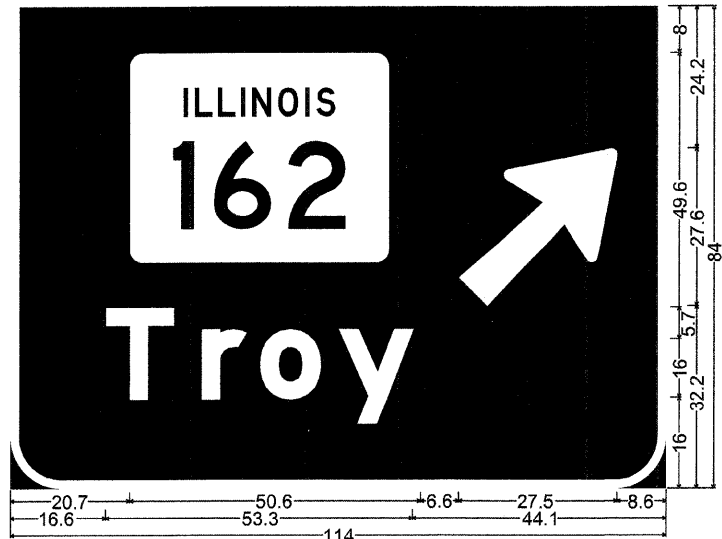


12.0" Radius, 2.0" Border, White on Green;  
 [NORTH] E; [Chicago] E Mod; Down Arrow 22.0" 270°;

SIGN PANEL 1

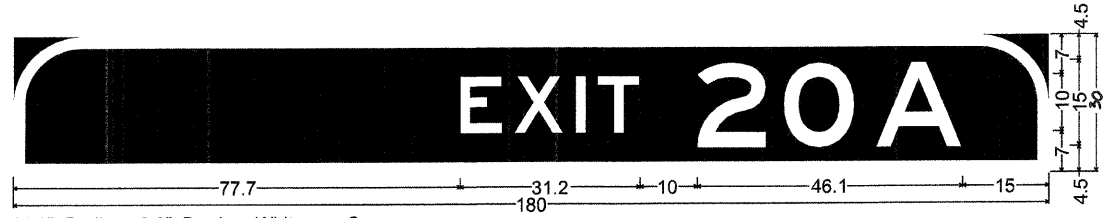


9.0" Radius, 1.5" Border, White on Green;  
 [EXIT 18] E;



9.0" Radius, 2" Border, White on Green;  
 STATEROUTE162;  
 [Troy] E Mod; Arrow 160 - 35.0" 45°;

SIGN PANEL 3



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 20A] E;



12.0" Radius, 2.0" Border, White on Green;  
 [EAST] E Mod; [Indianapolis] E Mod; [JCT] E Mod; Down Arrow 22.0" 270°; [1 MILE] E Mod;

SIGN PANEL 2

NOTE: THESE SIGNS SHALL BE FABRICATED  
 USING ZZ SHEETING AND CLEARVIEW FONT.

STA. 1368+72 (I-55/70 NB)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED SIGN PANEL DETAILS**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: GRH  
 PLOT DATE: DATE-TIME

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	#	MADISON	420	167
FED. ROAD DIST. NO. B	ILLINOIS	FED. AID PROJECT		

SHEET NO. 167  
SHEETS

60-10K-1, 60-10HB

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY  
WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

Field Units  
f' = 3,500 p.s.i.  
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

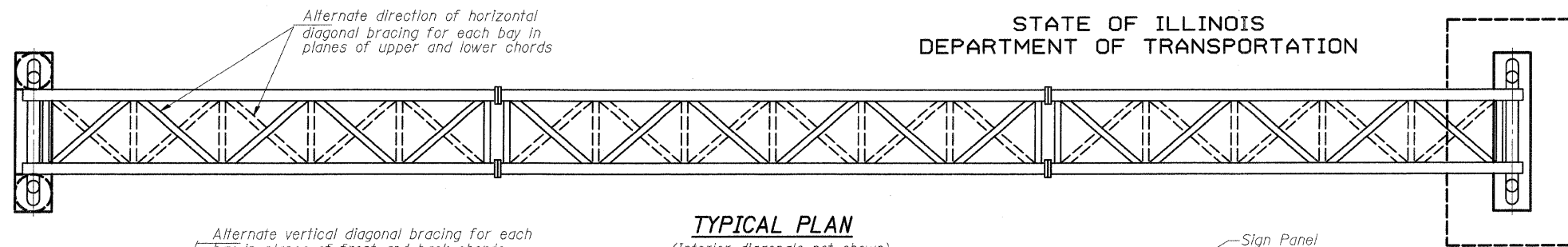
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

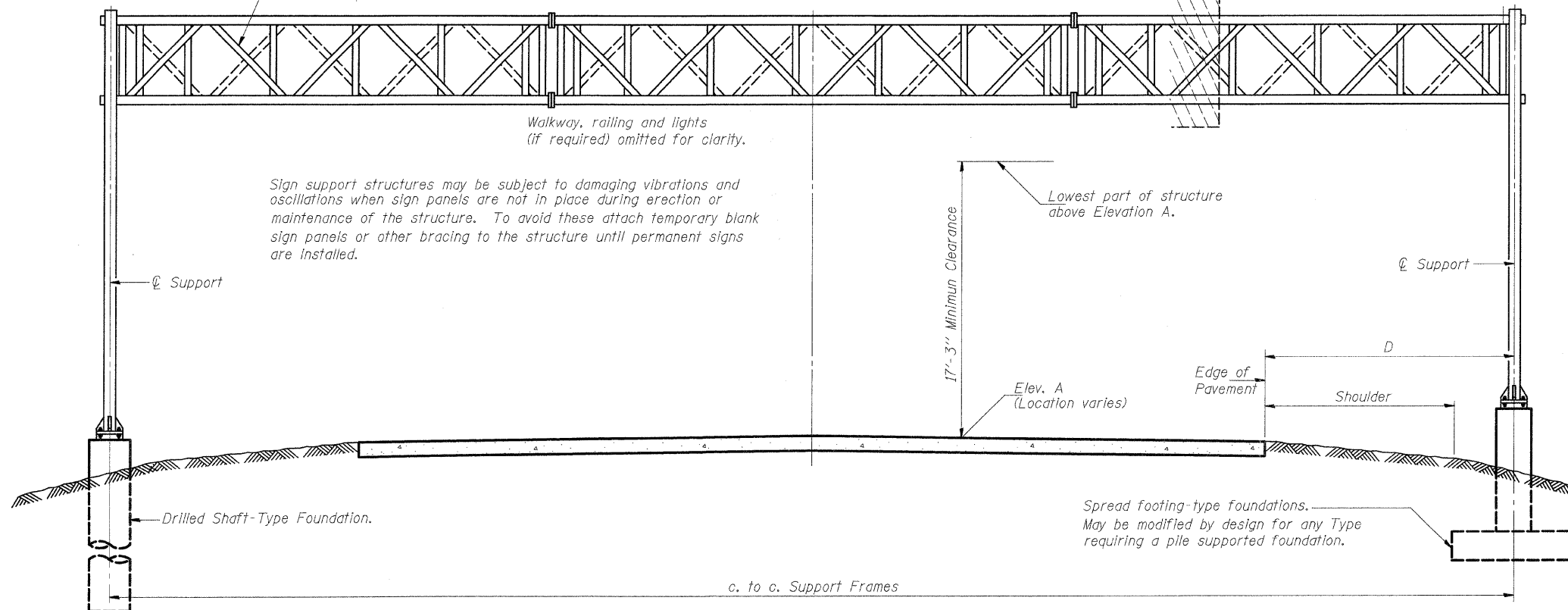
\*If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

OVERHEAD SIGN STRUCTURES  
GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL SUPPORTS

FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY

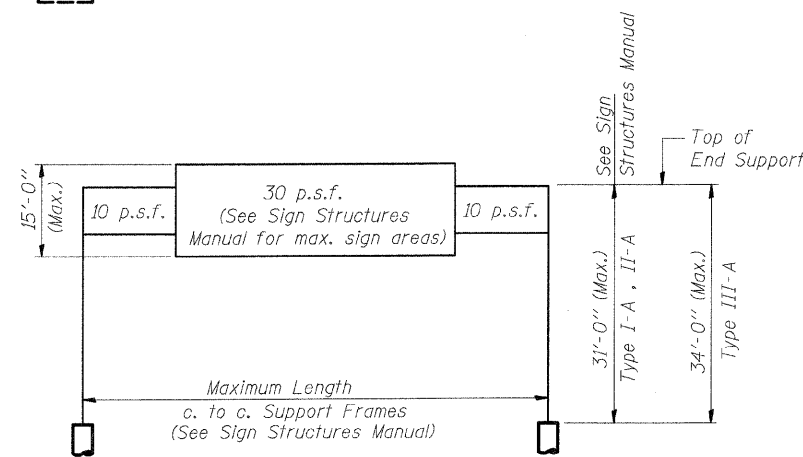


TYPICAL PLAN  
(Interior diagonals not shown)



TYPICAL ELEVATION  
(Looking at Face of Signs)\*\*

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
8S0601070L018.3	1337+90	I-A	73	569.22	13.4	14'	319
8S0601070R017.7	1368+72	I-A	72	567.62	12.6	11.5'	377

\*\*Looking upstation for structures with signs both sides.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	145'-0"
OVERHEAD SIGN STRUCTURE TYPE II-A (4'-6" x 5'-3")	Foot	-
OVERHEAD SIGN STRUCTURE TYPE III-A (5'-0" x 7'-0")	Foot	-
OVERHEAD SIGN WALKWAY TYPE A	Foot	103'-6"
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	27.6

NUMBER	REVISION	DATE

DESIGNED	-	BTO
CHECKED	-	JAN
DRAWN	-	BTO
CHECKED	-	JAN

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

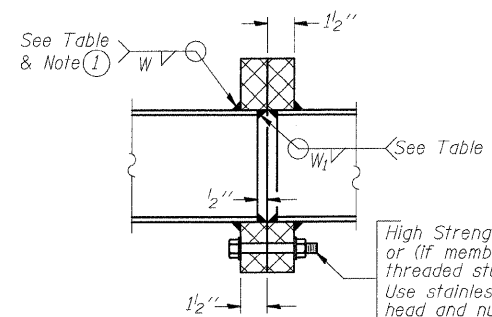
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	MADISON	420	168
FED. ROAD DIST. NO. B		ILLINOIS	FED. AID PROJECT	

SHEET NO. -  
- SHEETS

• 60-10K-1, 60-10HB

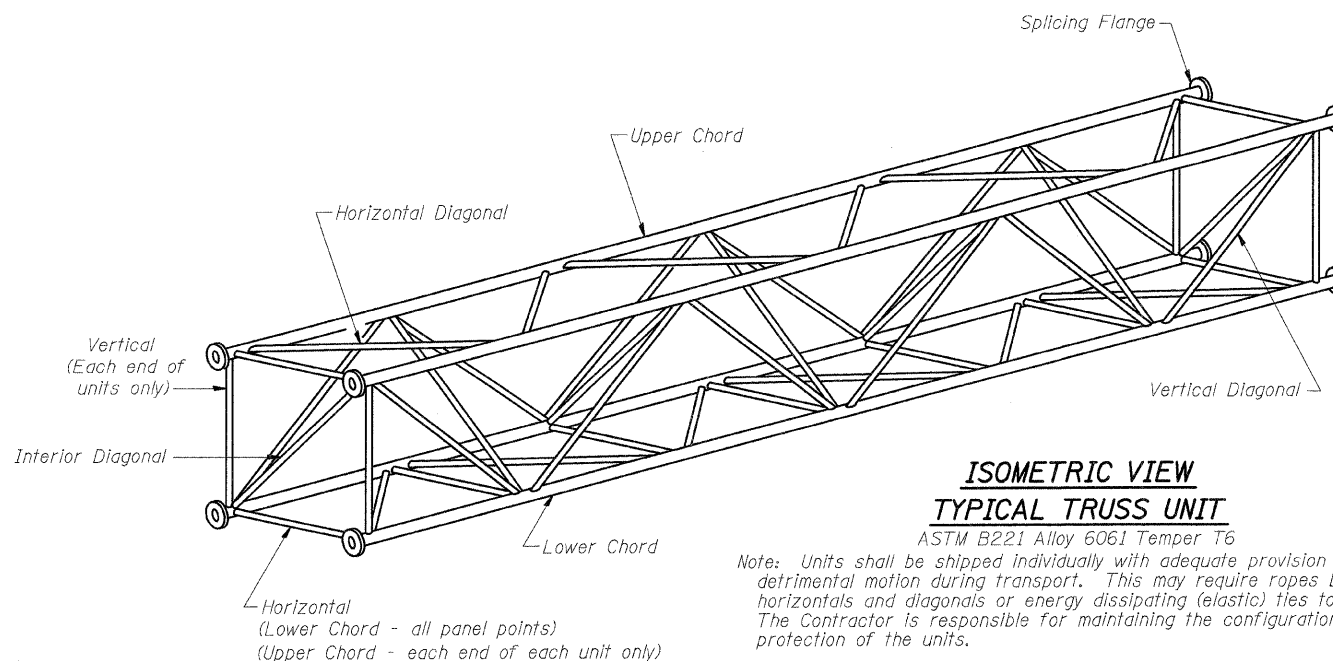
**TRUSS UNIT TABLE**

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals				Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L <sub>u</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall	Bolts			Weld Sizes		A	B		
														No./Splice	Dia.		W	W <sub>1</sub>				
8S0601070L018.3	1337+90	I-A	8	37'-2 1/2"	4'-5"	-	-	-	-	5"	5/8"	2 1/2"	5/8"	1 1/8"	6	1"	5/8"	1/4"	8 3/4"	11 3/4"		
8S0601070R017.7	1368+72	I-A	7	36'-10 1/2"	5'-0"	-	-	-	-	5"	5/8"	2 1/2"	5/8"	1 1/8"	6	1"	5/8"	1/4"	8 3/4"	11 3/4"		



**SECTION B-B**

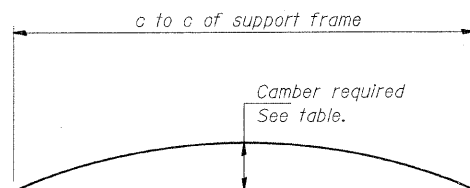
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



**ISOMETRIC VIEW  
TYPICAL TRUSS UNIT**

ASTM B221 Alloy 6061 Temper T6

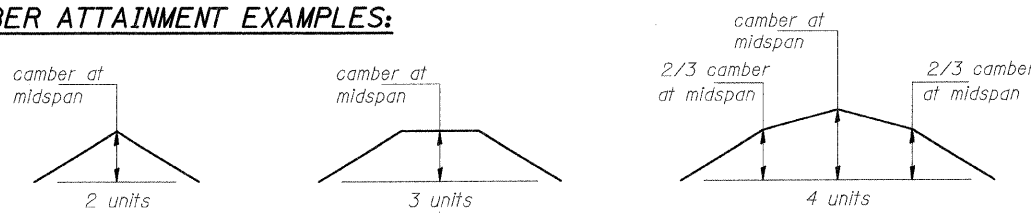
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



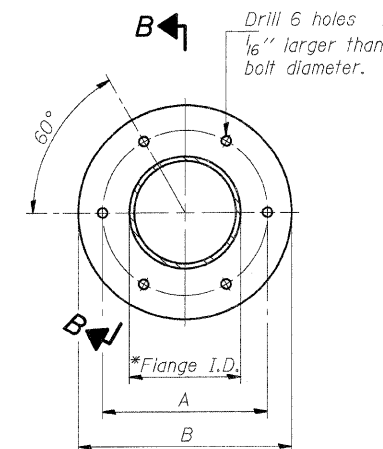
**CAMBER DIAGRAM**

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

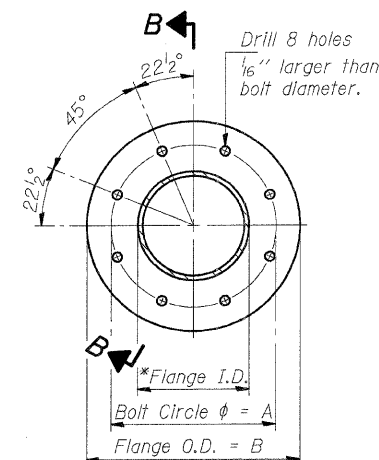
**CAMBER ATTAINMENT EXAMPLES:**



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



**TRUSS TYPES I-A, II-A, & III-A**



**TRUSS TYPES II-A & III-A**

**SPLICING FLANGES**

ASTM B221, Alloy 6061-T6  
or ASTM B209, Alloy 6061-T651

\*To fit O.D. of Chord with maximum gap of 1/16".

NUMBER	REVISION	DATE

DESIGNED	-	BTO
CHECKED	-	JAN
DRAWN	-	BTO
CHECKED	-	JAN

EXAMINED	20
PASSED	

ENGINEER OF STRUCTURAL SERVICES  
ENGINEER OF BRIDGES AND STRUCTURES

OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A and III-A

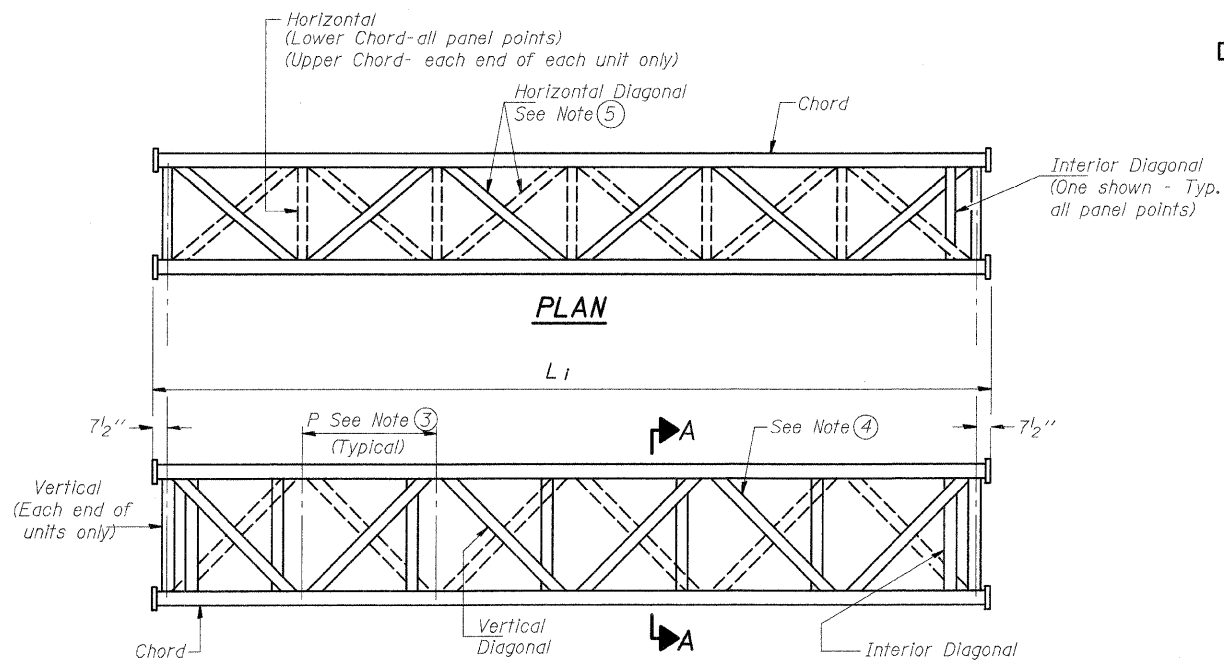
FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

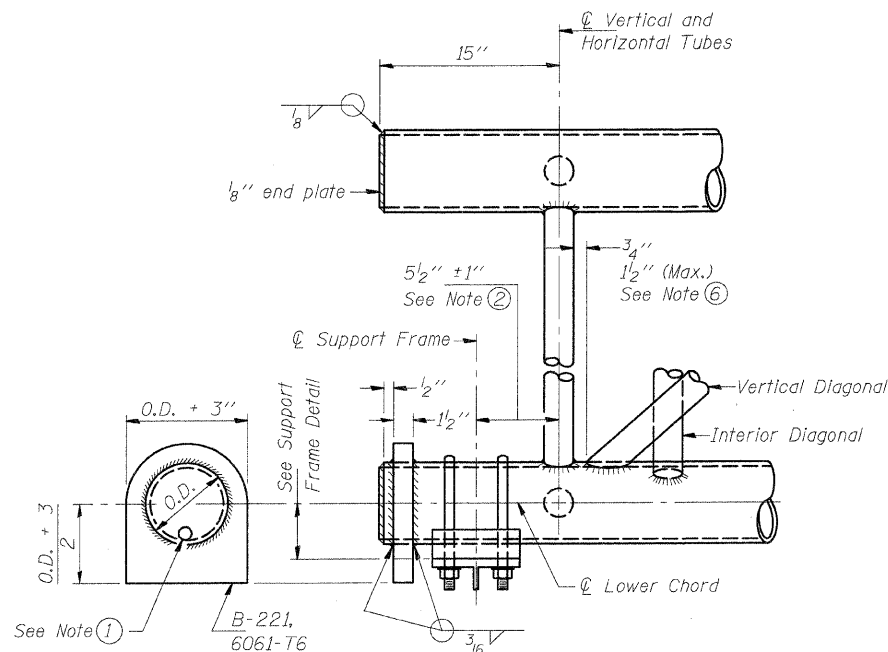
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	#	MADISON	420	169
FED. ROAD DIST. NO. 8		ILLINOIS	FED. AID PROJECT	

SHEET NO. 169  
- SHEETS

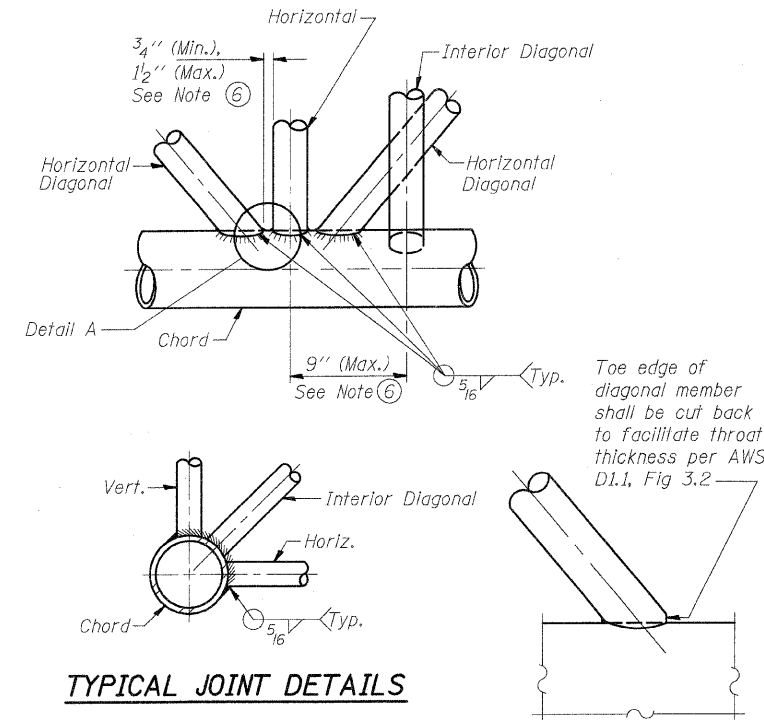
60-10K-1, 60-10HB



**ELEVATION  
TYPICAL INTERIOR UNIT**  
Even number of panels/interior unit required.

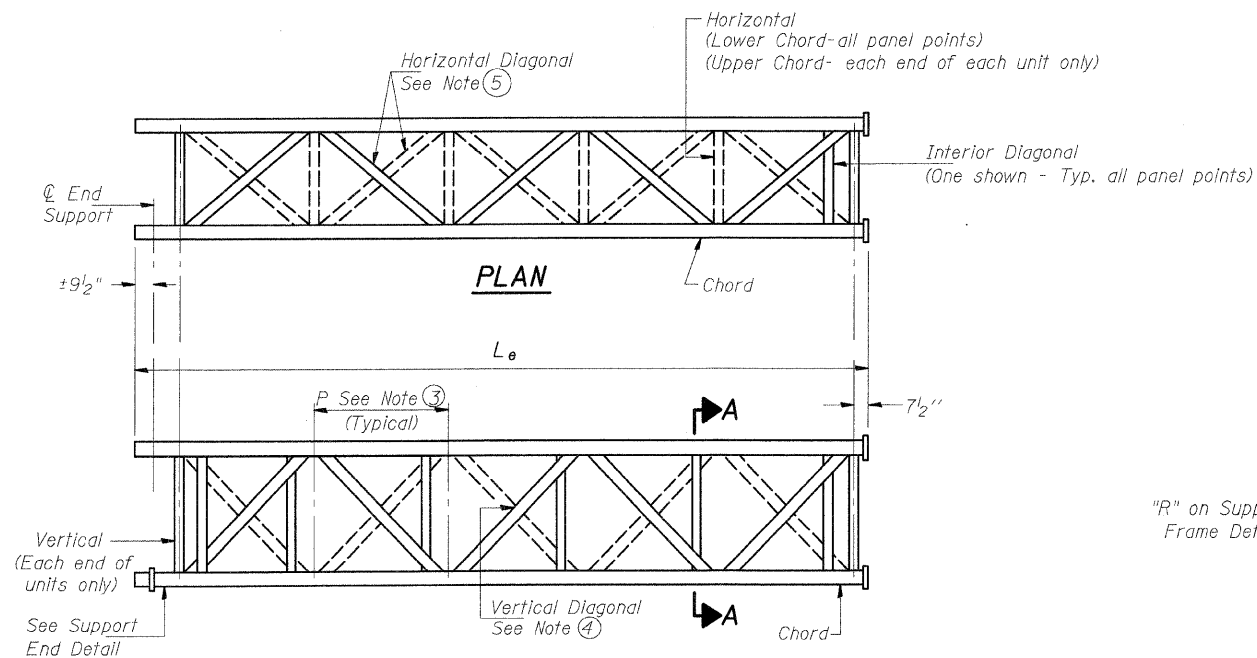


**SUPPORT END DETAIL FOR EXTERIOR UNIT**

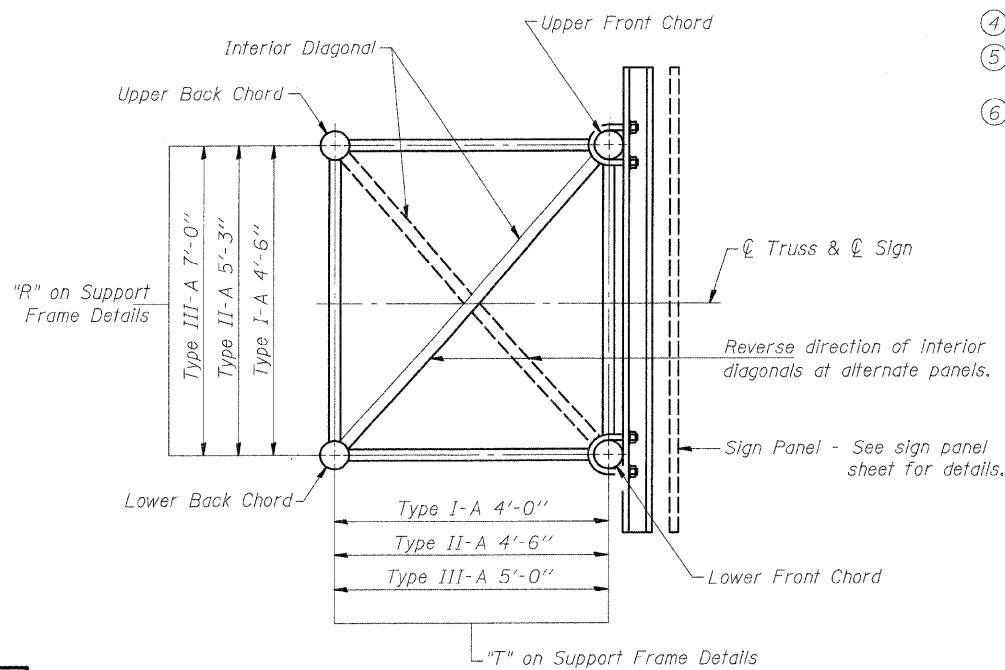


**TYPICAL JOINT DETAILS**

**DETAIL A**



**ELEVATION  
TYPICAL EXTERIOR UNIT**  
Even or odd number of panels/interior units allowed.



**SECTION A-A**

**NOTES**

- Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2"  $\phi$  drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- 5 1/2" end dimension may vary by  $\pm 1"$  to provide uniform panel spacing (P).
- Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- Vertical Diagonals in front and back face shall alternate.
- Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

**OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A and III-A**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY

DESIGNED	- BTO
CHECKED	- JAN
DRAWN	- BTO
CHECKED	- JAN

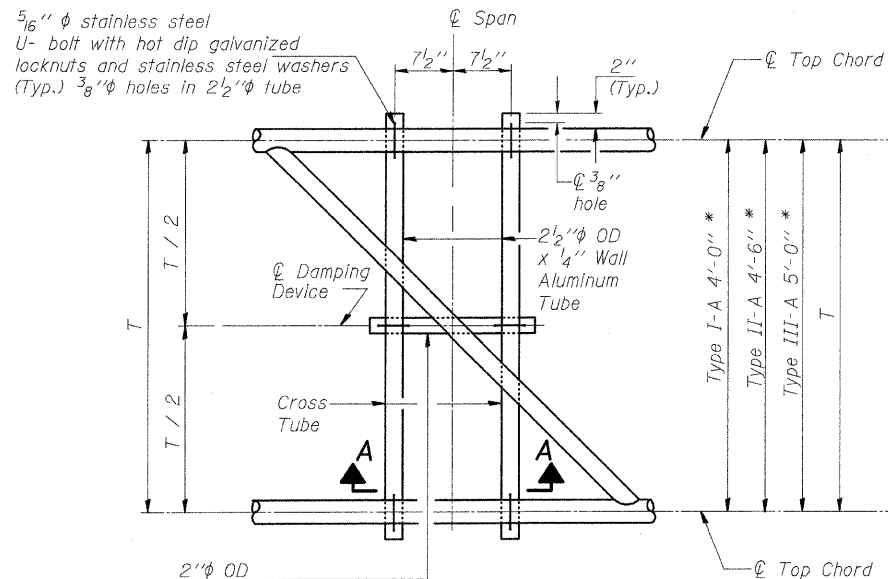
EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

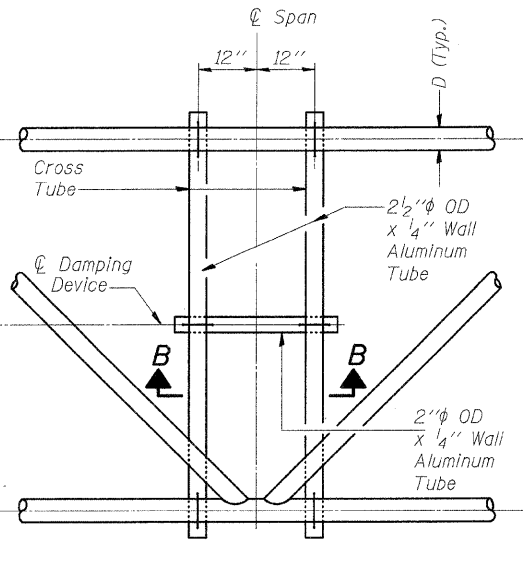
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

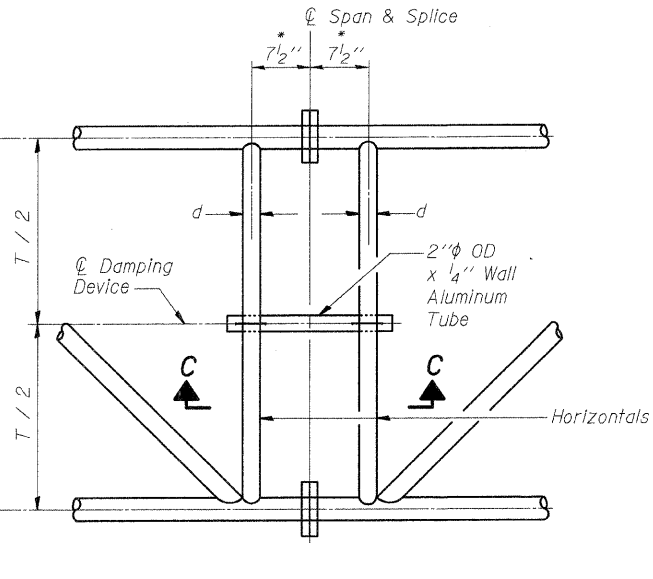
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
70	*	MADISON	420	170	- SHEETS
FED. ROAD DIST. NO. 8		ILLINOIS	FED. AID PROJECT		
• 60-10K-1, 60-10HB					



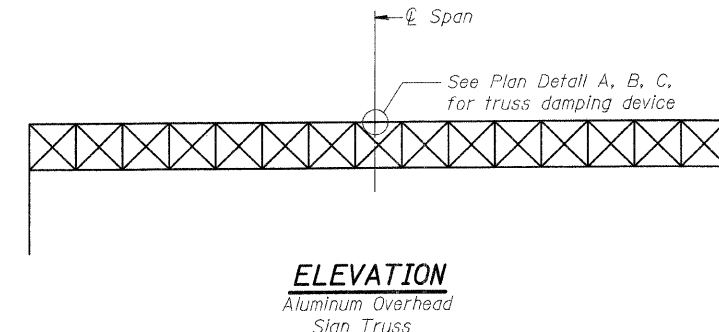
**PLAN DETAIL "A"**  
Span BETWEEN PANEL POINTS



**PLAN DETAIL "B"**  
Span AT PANEL POINT



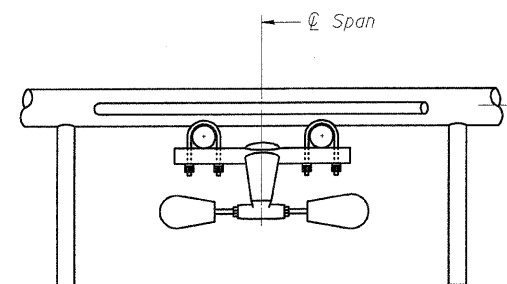
**PLAN DETAIL "C"**  
Span AT CHORD SPLICE



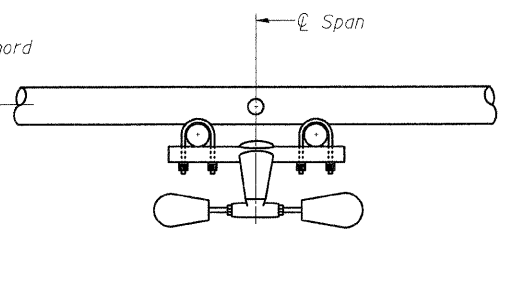
**ELEVATION**  
Aluminum Overhead Sign Truss

**NOTES**

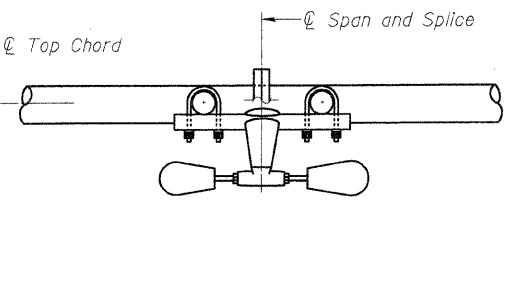
Damper: One damper per truss.  
(31 lbs. Stockbridge-Type Aluminum)  
Cost included in "Overhead Sign Structure..."  
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in "Overhead Sign Structure..."



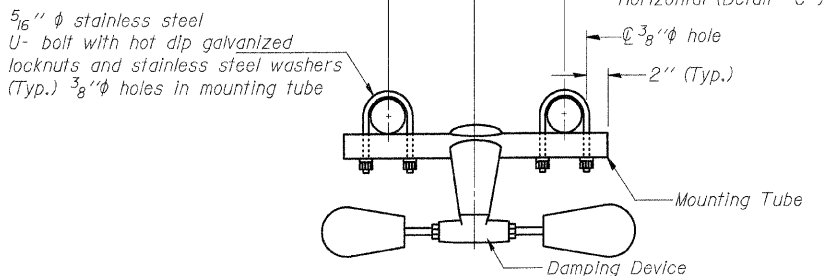
**SECTION A-A**



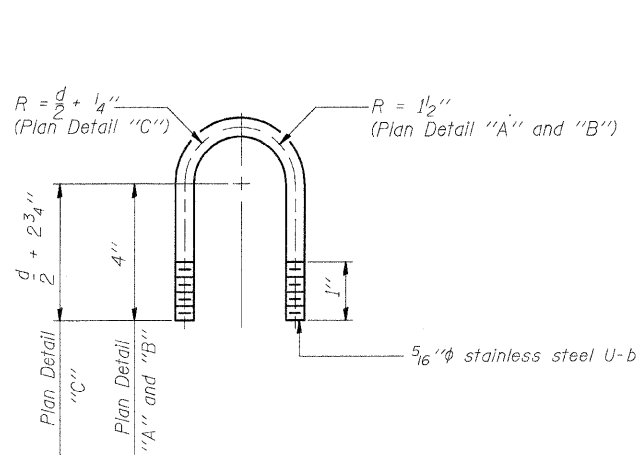
**SECTION B-B**



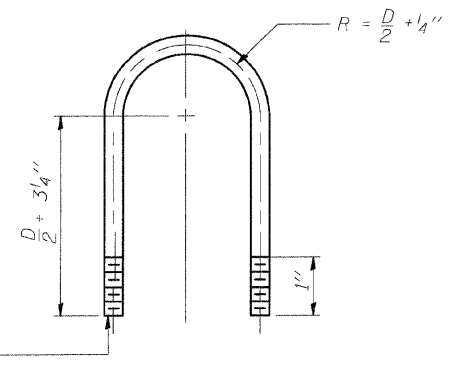
**SECTION C-C**



**TRUSS DAMPING DEVICE CONNECTION DETAIL**  
(Typical)



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
(Typical)



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**  
(Typical - Detail "A" and "B")

DESIGNED	-	BTO
CHECKED	-	JAN
DRAWN	-	BTO
CHECKED	-	JAN

EXAMINED	-	20
PASSED	-	ENGINEER OF STRUCTURAL SERVICES
	-	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-D 11/1/2002

**OVERHEAD SIGN STRUCTURE DAMPING DEVICE**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY



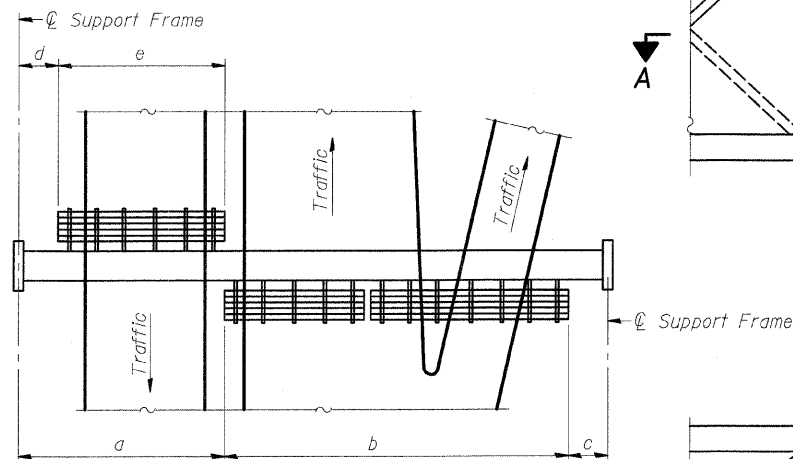
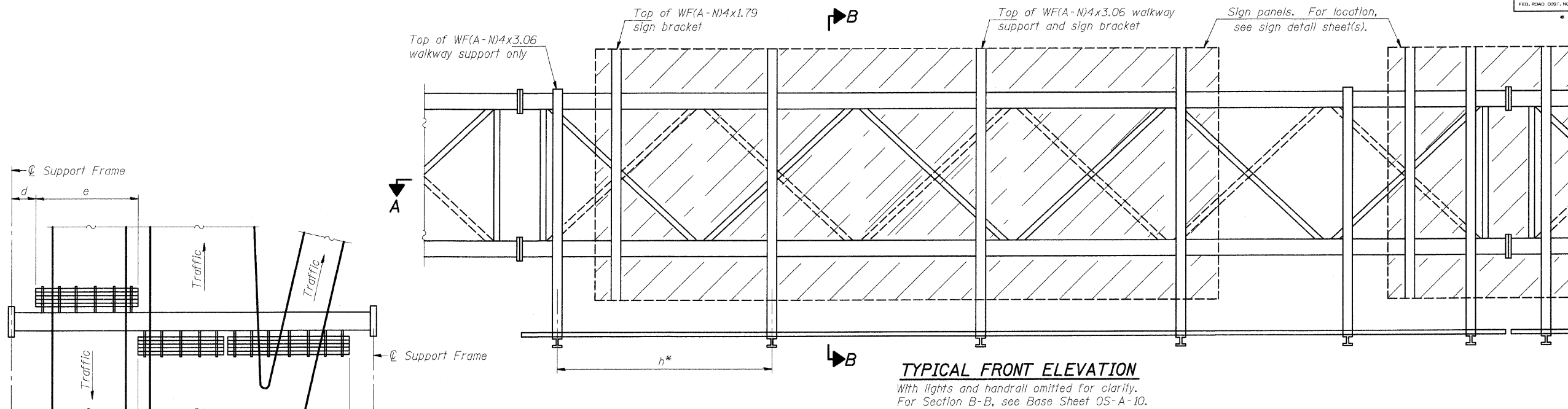




STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	MADISON	420	173
FED. ROAD DIST. NO. 6		ILLINOIS	FED. AID PROJECT*	
* 60-10K-1, 60-10HB				

SHEET NO. -  
- SHEETS



**PLAN**  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)

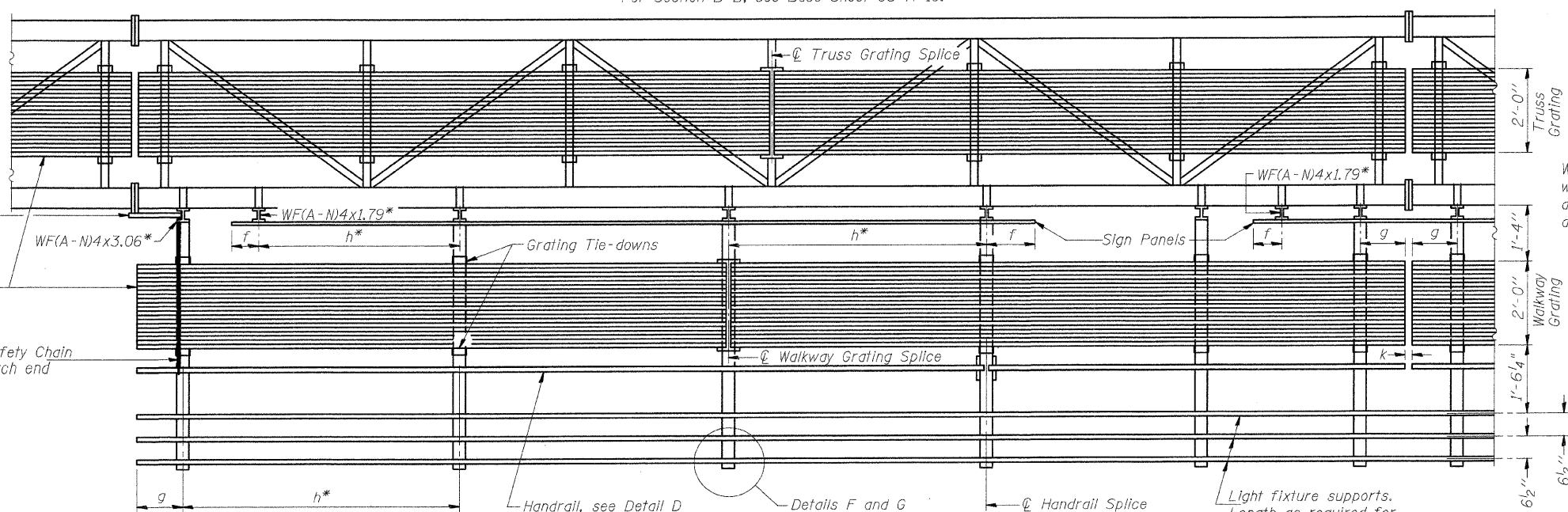
**BRACKET TABLE**

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

\*\*Alternate angle  
for safety chain  
attachment

Standard Aluminum  
Grating, see  
Details T and W

Safety Chain  
Each end



Walkway and Truss Grating  
width dimensions are nominal  
and may vary ±1/2" based on  
available standard widths.

Notes: \*Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

- f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)
- h = 6'-0" maximum (center to center of sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
- k = 2" maximum gap between adjacent walkway grating sections and handrail ends

\*\*If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10.  
For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11.

**SECTION A-A**

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating, handrail and light support splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
8S0601070L018.3	1337+90	13'-4"	52'-6"	7'-2"	-	-	52'-6"
8S0601070R017.7	1368+72	14'-4"	51'-0"	6'-8"	-	-	51'-0"

**OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY

DESIGNED -	BTO
CHECKED -	JAN
DRAWN -	BTO
CHECKED -	JAN

EXAMINED	20
PASSED	

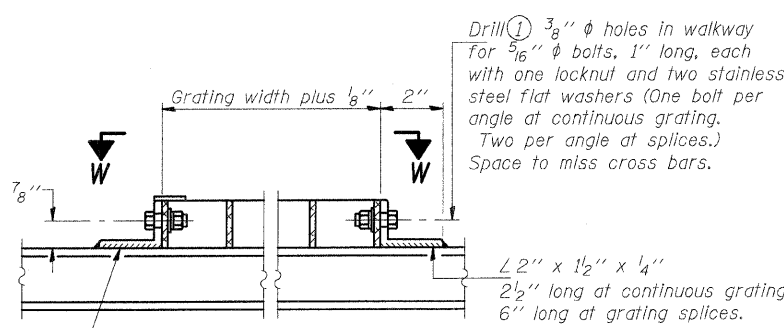
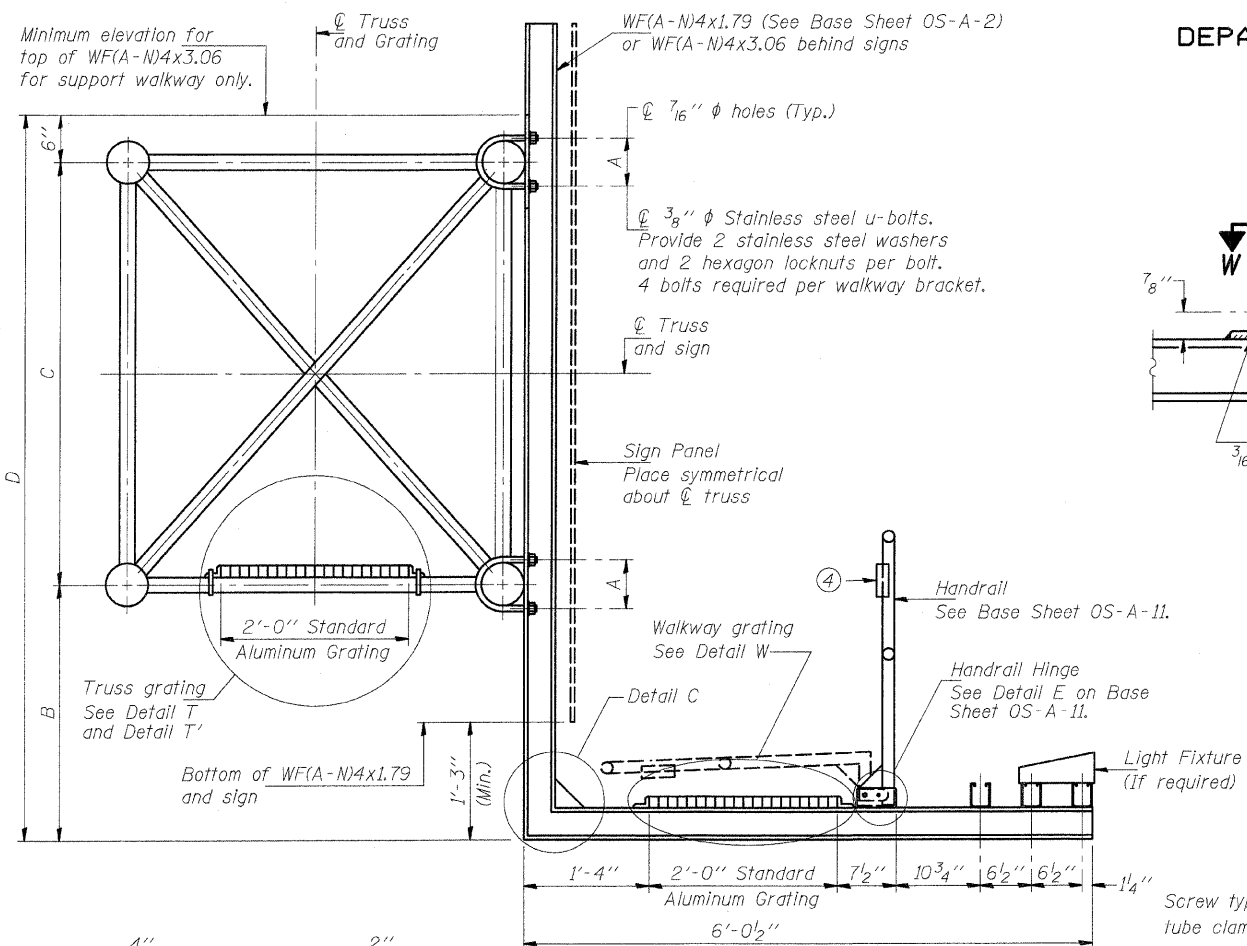
NUMBER	REVISION	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

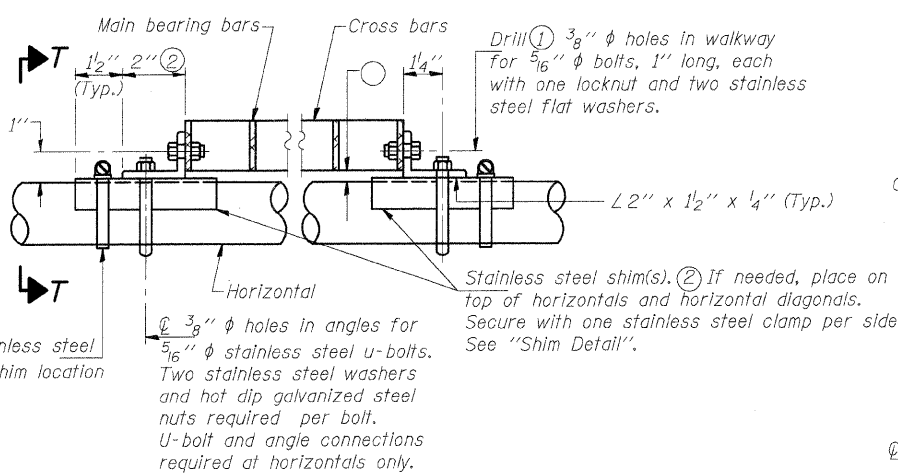
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	#	MADISON	420	174
FED. ROAD DIST. NO. 6		ILLINOIS	FED. AID PROJECT	

SHEET NO. -  
- SHEETS

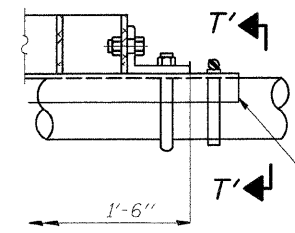
• 60-10K-1, 60-10HB



**DETAIL W**  
(Walkway grating)

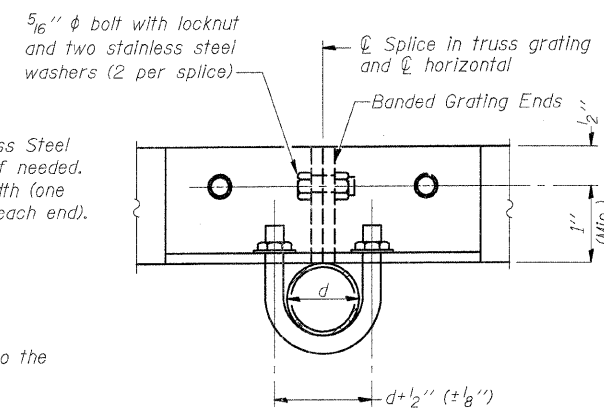


**DETAIL T**  
(Continuous Truss grating)

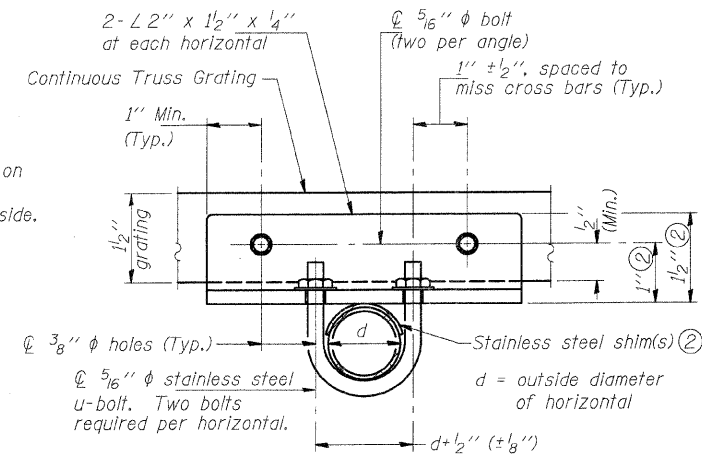


**DETAIL T'**

(Truss grating splice)  
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



**SECTION T'-T'**



**SECTION T-T**

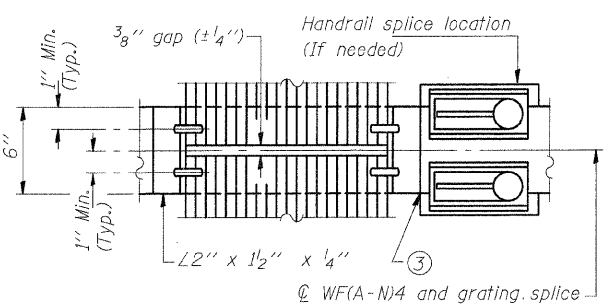
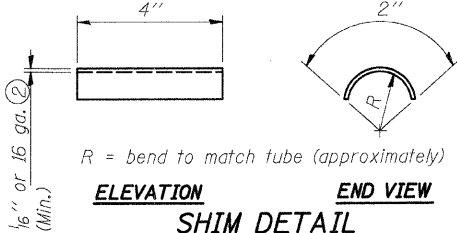
**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.  
Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

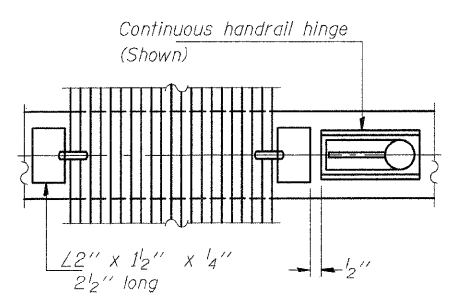
OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:  
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

**SECTION B-B**



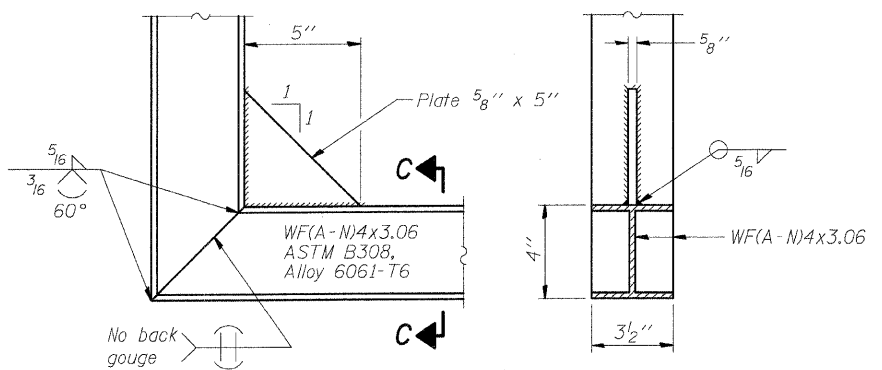
**(AT WALKWAY GRATING SPLICE)**



**(CONTINUOUS WALKWAY GRATING)**

**SECTION W-W**

**SECTION C-C**



**DETAIL C**

(See Detail P, Base Sheet OS-A-11.)

DESIGNED	- BTO
CHECKED	- JAN
DRAWN	- BTO
CHECKED	- JAN

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

Structure Number	Station	A	B	C	D
850601070L018.3	1337+90	5 5/8"	6'-0"	4'-6"	11'-0"
850601070R017.7	1368+72	5 5/8"	4'-9"	4'-6"	9'-9"

**OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS**

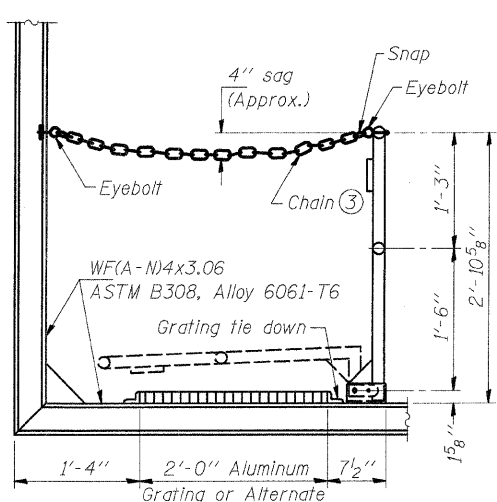
FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	*	MADISON	420	175
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT-		

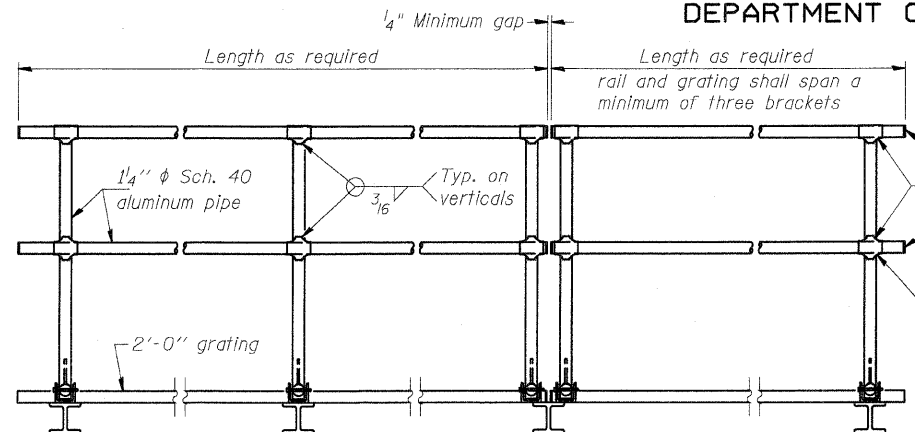
SHEET NO. -  
- SHEETS

60-10K-1, 60-10HB



**SIDE ELEVATION**

(Showing safety chain w/o sign)



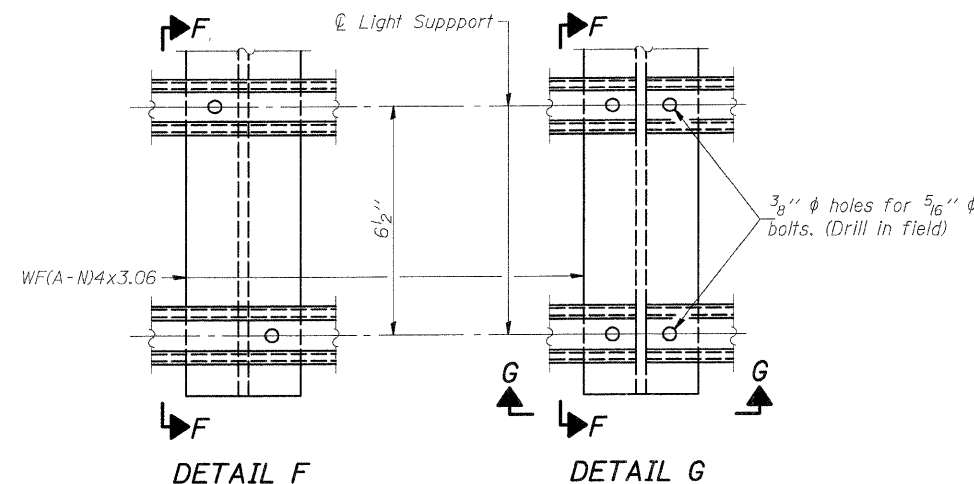
**FRONT ELEVATION**

**HANDRAIL DETAILS**

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

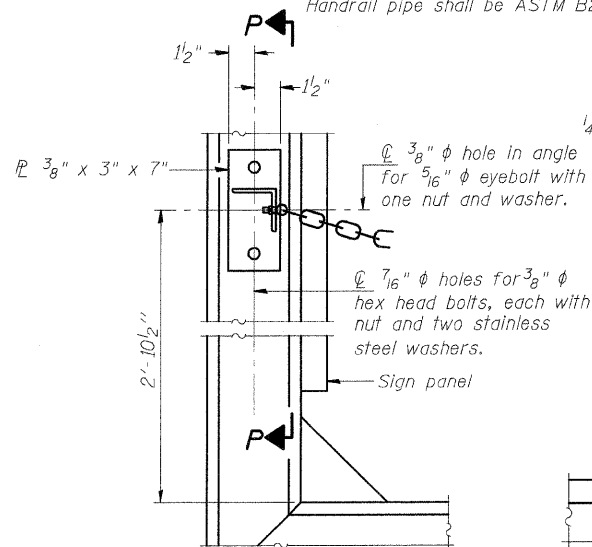
① Install standard force-fit end caps or weld 1/8 inch end plates with 1/8 inch c.f.w. and grind smooth. (All rail ends)

② Horizontal handrail member shall be continuous thru fitting. Provide 1/16 inch hole in fitting for 3/8 inch bolt. Field drill 1/16 inch hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16 inch eyebolts in 7/16 inch holes on top rail at ends only.)



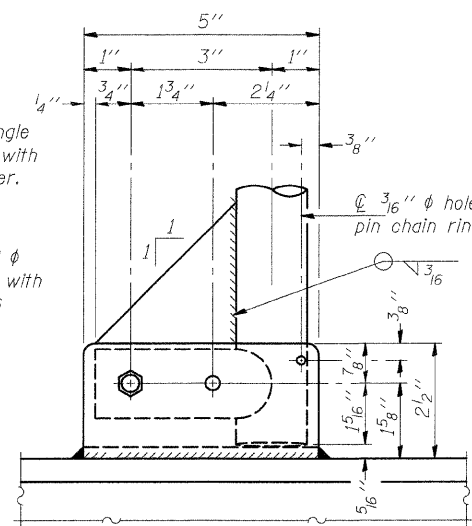
**DETAIL F**

**DETAIL G**

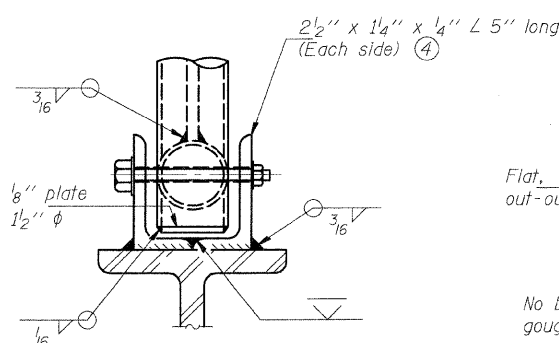


**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)  
Items not shown same as "Side Elevation" of "Handrail Details"

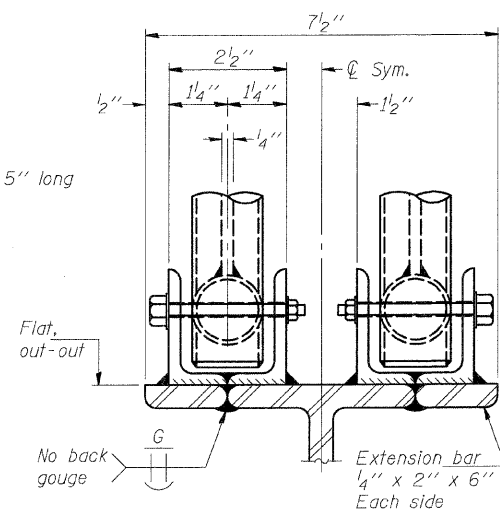


**SIDE ELEVATION**

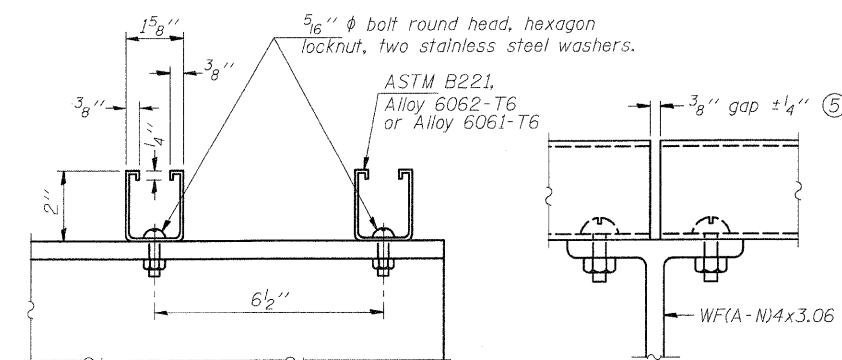


**FRONT ELEVATION**

See "ELEVATION" at right for dimensions.



**ELEVATION AT HANDRAIL JOINT** ④

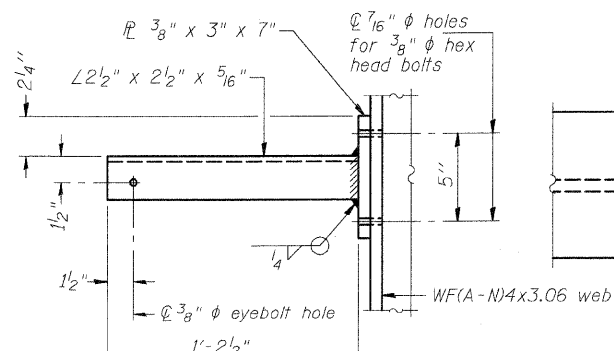


**SECTION F-F**

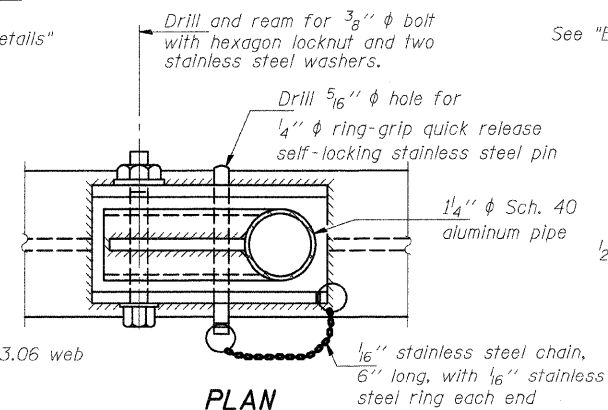
**SECTION G-G**

**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

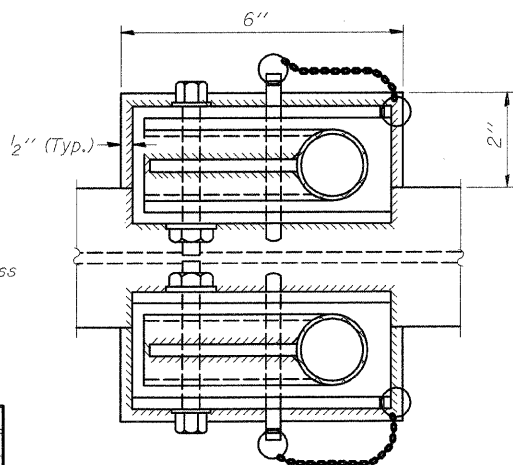
⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



**SECTION P-P**

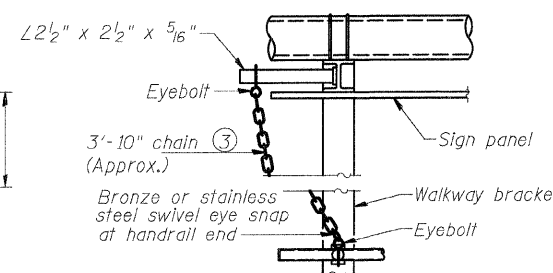


**PLAN DETAIL E HANDRAIL HINGE**



**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"

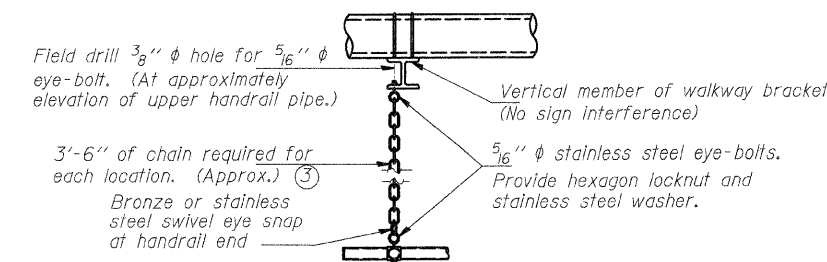


**ALTERNATE SAFETY CHAIN ATTACHMENT**

Details not shown similar to "Safety Chain" Details  
(Walkway omitted for clarity)

③ 3/16 inch galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



**SAFETY CHAIN**

One required for each end of each walkway.

**OVERHEAD SIGN STRUCTURES  
ALUMINUM HANDRAIL DETAILS**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY

DESIGNED	-	BTO
CHECKED	-	JAN
DRAWN	-	BTO
CHECKED	-	JAN

EXAMINED	-	20
PASSED	-	ENGINEER OF STRUCTURAL SERVICES
	-	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	#	MADISON	420	176
FED. ROAD DIST. NO. 6		ILLINOIS	FED. AID PROJECT-	
• 60-10K-1, 60-10HB				

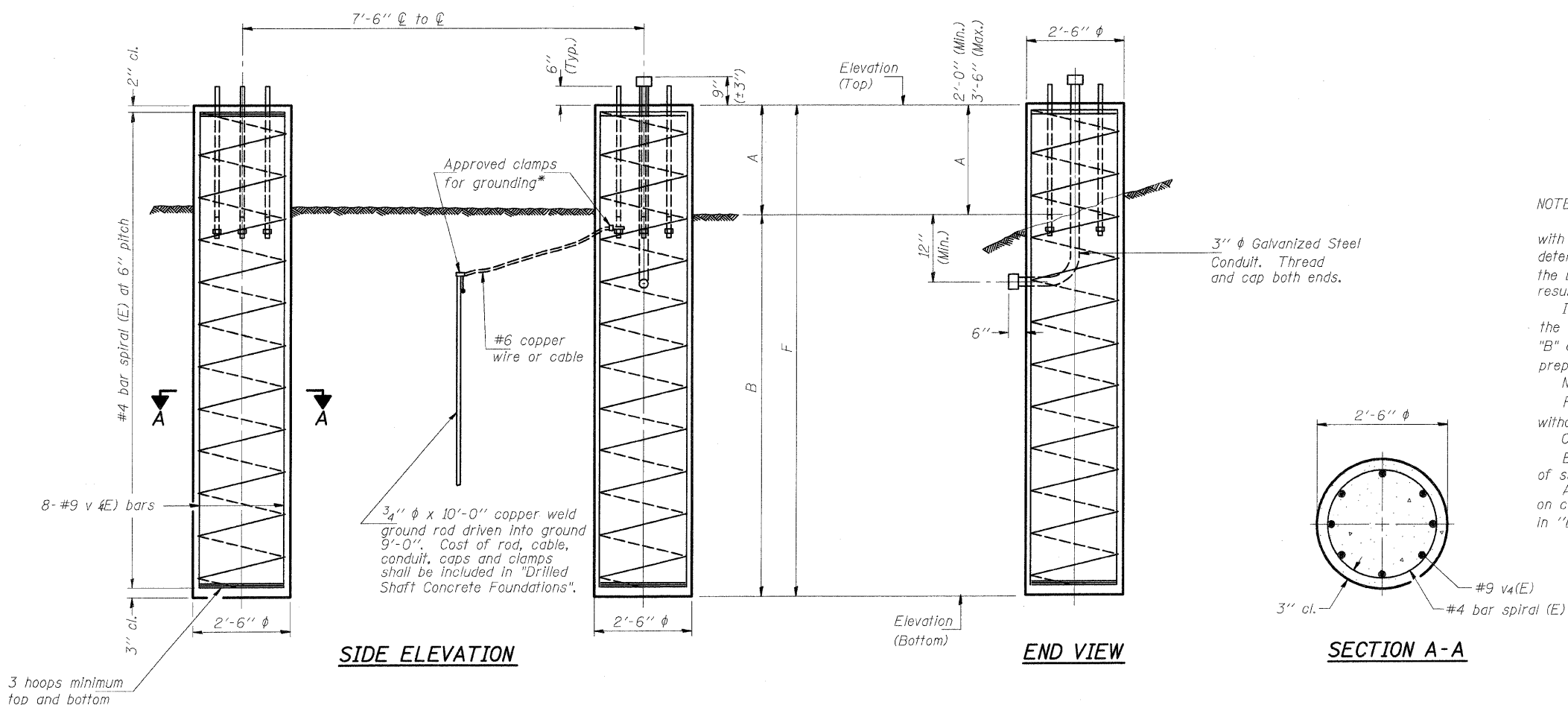
SHEET NO. -  
- SHEETS

For anchor rod size and placement, see Support Frame Detail Sheet.

\*Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar Number	Size	Length	Shape
v4(E)	#9	D less 5"	
#4 bar spiral (E) - see "SIDE ELEVATION"			



NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

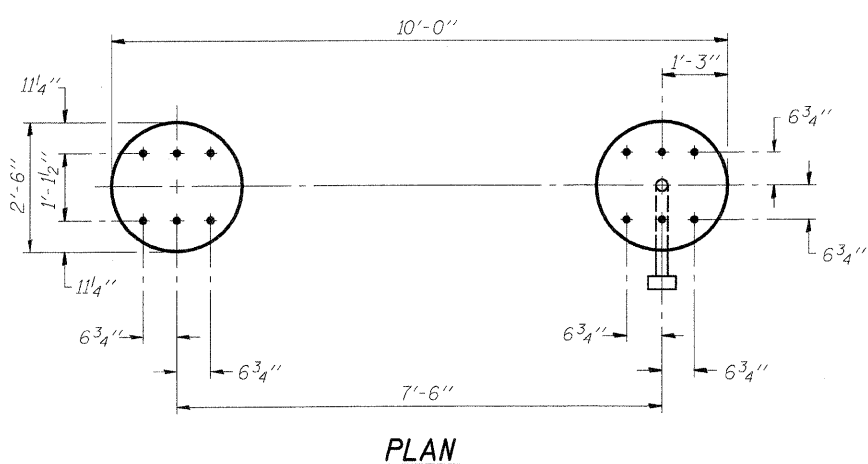
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".



Structure Number	Station	Left Foundation			Right Foundation			Class SI Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
850601070L018.3	1337+90	569.99	550.99	3'-6"	15'-6"	19'-0"	570.36	551.36	2'-0"	17'-0"	19'-0"	13.8
850601070R017.7	1368+72	568.08	549.08	2'-11 3/8"	16'-0 3/8"	19'-0"	568.08	549.08	2'-0"	17'-0"	19'-0"	13.8

DESIGNED	-	BTO
CHECKED	-	JAN
DRAWN	-	BTO
CHECKED	-	JAN

EXAMINED	20
PASSED	

NUMBER	REVISION	DATE

DETAILS FOR 8" Ø SUPPORT FRAME  
TYPE I-A TRUSS

OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS

FAI ROUTE 70  
SECTION 60-10K-1, 60-10-4HB  
MADISON COUNTY



FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10 (K-1,HB)	MADISON	420	178
STA. TO STA.				
CONTRACT NO.: 76709				

**GENERAL NOTES - ROADWAY LIGHTING**

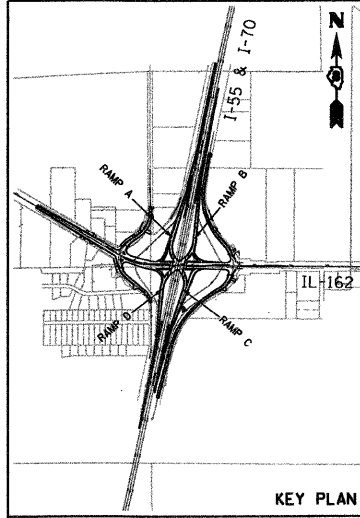
- SPLICING OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
- LEVELING NUTS SHALL BE INSTALLED FOR PLUMBING THE POLES. ALL POLES SHALL BE ERECTED PLUMB.
- LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE WIRING DIAGRAMS SHOWN IN THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE COST OF NUTS AND WASHERS REQUIRED FOR MOUNTING LIGHT POLES ON NEW AND EXISTING CONCRETE FOUNDATIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE LIGHT POLES.
- A SURGE PROTECTOR, FUSE BLOCK AND FUSES SHALL BE INSTALLED IN EACH LIGHT POLE AND SHALL BE WIRED AS SHOWN IN THE WIRING SCHEMATICS.
- NEW LIGHT POLE FOUNDATIONS SHALL BE SETBACK FROM THE ROADWAY SO THAT THERE IS 20 FEET BETWEEN THE EDGE OF PAVEMENT AND THE NEAR FACE OF THE ASSOCIATED LIGHT POLE TRANSFORMER BASE.
- ALL LIGHT POLE FOUNDATIONS TO BE CONSTRUCTED BY THIS CONTRACT SHALL BE CONCRETE.
- BURIED UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE ONLY. THE UTILITY OWNERS SHALL BE CONTACTED AND LOCATION ASSISTANCE REQUESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALUMINUM LIGHT POLES SHALL BE PROVIDED WITH TRANSFORMER BASES.
- ALL LIGHT POLES AND SIGN LUMINARIES SHALL BE FACTORY PAINTED GRAY.
- CONDUITS TO BE MOUNTED ON ALUMINUM AND/OR GALVANIZED STEEL SIGN TRUSSES SHALL BE ALUMINUM.
- ALL LUMINARIES FOR ROADWAY LIGHTING SHALL HAVE M-C-III DISTRIBUTION. BALLASTS SHALL BE MULTI-TAP. *MAG REG AND*
- ABANDON EXISTING UNIT DUCTS AND CABLES IN PLACE, AS SHOWN ON PLANS.
- TRENCH CABLE RUNS SHALL BE IN A STRAIGHT LINE BETWEEN TERMINAL POINTS WHERE FEASIBLE. TO PREVENT EROSION OF EMBANKMENTS INVOLVING HIGH FILLS AND STEEP SIDE SLOPES, THE CONTRACTOR SHALL NOT TRENCH DIRECTLY FROM POLE TO POLE, RATHER, AS DIRECTED BY THE ENGINEER, THE TRENCH SHALL EXTEND FROM THE POLE STRAIGHT DOWN THE SIDE SLOPE, RUN ALONG THE TOE OF THE SLOPE, AND THEN STRAIGHT UP THE SIDE SLOPE TO THE NEXT POLE. THE CONTRACTOR WILL BE COMPENSATED FOR THIS ADDITIONAL UNIT DUCT AT ITS AGREED CONTRACT UNIT PRICE.
- ALL CONDUIT TO BE PUSHED UNDER EXISTING PAVEMENT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 3'-6" TO AVOID CONFLICTS WITH EXISTING OR PROPOSED UNDERDRAIN. THE COST OF INSTALLING THE CONDUIT AT THIS DEPTH SHALL BE INCLUDED IN THE CONDUIT COST.
- THE CONTRACTOR WILL BE PAID TO LOCATE APPLICABLE CABLE RUNS OF THE EXISTING LIGHTING SYSTEM THAT WILL REMAIN IN SERVICE DURING AND UPON THE COMPLETION OF THIS PROJECT (PAY ITEM # 80300100). THE CONTRACTOR SHALL NOT LOCATE ANY CABLE RUNS THAT ARE TO BE ABANDONED UPON THE COMPLETION OF THIS PROJECT. IN THE EVENT THE CONTRACTOR DISRUPTS A CABLE THAT IS TO BE ABANDONED BUT IS CURRENTLY SERVICING AN EXISTING LUMINAIRE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPLICING THE CABLE. IN THIS CASE, SPLICES BELOW GRADE WILL BE PERMITTED.
- ALL NEW UNIT DUCT AND UNDERGROUND CONDUIT SHALL BE PLACED A MINIMUM OF 2'-6" BELOW THE FLOWLINE OF EXISTING DITCHES AND A MINIMUM OF 2'-0" BENEATH THE GROUND SURFACE AT OTHER LOCATIONS.
- UNLESS OTHERWISE NOTED:
  - EXISTING LIGHT POLES REMOVAL SHALL INCLUDE ALL WORK NECESSARY TO REMOVE LIGHT POLE FROM THE FOUNDATION PER APPLICABLE PORTIONS OF SECTION 842 OF THE STANDARD SPECIFICATIONS.
- NEW UNIT DUCT SHALL NOT BE INSTALLED LESS THAN 20 FEET FROM THE EDGE OF PAVEMENT.

**ROADWAY LIGHTING INDEX OF SHEETS**

LT-01	ROADWAY LIGHTING GENERAL NOTES, LEGENDS, & SHEET INDEX
LT-02	ROADWAY LIGHTING SCHEDULE OF QUANTITIES
LT-03	PROPOSED ROADWAY LIGHTING PLAN - IL-162 STA. 478+00 TO STA. 493+50
LT-04	PROPOSED ROADWAY LIGHTING PLAN - IL-162 STA. 493+50 TO STA. 509+00 - I-55/70 STA. 1348+50 TO STA. 1358+50
LT-05	PROPOSED ROADWAY LIGHTING PLAN - IL-162 STA. 509+00 TO STA. 525+00
LT-06	PROPOSED ROADWAY LIGHTING PLAN - I-55/70 STA. 1318+00 TO STA. 1334+00
LT-07	PROPOSED ROADWAY LIGHTING PLAN - I-55/70 STA. 1334+00 TO STA. 1348+50
LT-08	PROPOSED ROADWAY LIGHTING PLAN - I-55/70 STA. 1358+50 TO STA. 1373+00
LT-09	PROPOSED ROADWAY LIGHTING PLAN - I-55/70 STA. 1373+00 TO STA. 1388+00
LT-10	PROPOSED UNDERPASS LIGHTING PLAN, ELEVATION, & NOTES
LT-11	PROPOSED ROADWAY LIGHTING WIRING DIAGRAMS
LT-12	SIGN LIGHTING DETAILS
LT-13	CONTROL INSTALLATION TYPE CB-RCS-60
LT-14	CONTROL INSTALLATION TYPE CB-RCS-100
* LT-15	LIGHT POLE FOUNDATION
LT-16	LIGHT TOWER AND FOUNDATION

\* LT-15A POLE HANDHOLE WIRING  
LT-16A HIGH MAST LIGHT TOWER

LEGEND	PROPOSED	EXISTING
SERVICE INSTALLATION		
GROUND CABLE & GROUNDING CONNECTION		
GROUNDING ROD		
CONDUIT SPLICE		
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
JUNCTION BOX		
SPAN TRUSS		
CANTILEVER TRUSS		
LIGHTING CONTROLLER		
WOOD POLE; HEIGHT VARIES		
LIGHT UNIT; (IDOT) 400 WATT HPS, M-C-III LUMINAIRE 50' MOUNTING HEIGHT WITH 12' ARM		
LIGHT UNIT; (VILLAGE OF TROY) 400 WATT HPS, M-C-III LUMINAIRE 50' MOUNTING HEIGHT WITH 12' ARM		
HIGH MAST LIGHT UNIT; (5) 750 WATT HPS LUMINAIRE 100' POLE		
HIGH MAST LIGHT UNIT; (3) 750 WATT HPS LUMINAIRE 110' POLE		
UNDERPASS LIGHT UNIT; 150W HPS		
SIGN LIGHTING LUMINAIRE; 150W HPS		
LIGHT POLE & LUMINAIRE A = LIGHTING CONTROLLER NUMBER B = CIRCUIT DESIGNATION XX = FIXTURE NUMBER		
SIGN S = SIGN X = NUMBER		
GALVANIZED STEEL CONDUIT (GSC) IN TRENCH (T) OR PUSHED (P)		
CABLE DUCT OR UNIT DUCT		
2*4 XLP, 1*4 XLP-G-1.OP		
2*6 XLP, 1*6 XLP-G-1.OP		
2*6 XLP, 1*6 XLP-G-1.OP ATTACHED TO STRUCTURE, 1" DIA.		
2*10 XLP, 1*10 XLP-G-0.75P		
2*10 XLP-USE, 1*10 XLP-G IN CONDUIT, ATTACHED TO STRUCTURE, 1" DIA.		



PLAN	SURVEYED	DATE
NOTE BOOK	REVISIONS	
NO.	BY	

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Robert Swanson

LT-01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ROADWAY LIGHTING  
GENERAL NOTES, LEGENDS,  
& SHEET INDEX  
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: RPJ  
CHECKED BY: A. OSHANA, P.E.

Rev.

## ROADWAY LIGHTING SCHEDULE OF QUANTITIES

ITEM	UNIT OF MEASURE	TOTAL QUANTITIES	100% STATE	50% STATE, 50% CITY OF TROY
			I-55	IL RTE. 162
LOCATING UNDERGROUND CABLE	FOOT	1000		1000
ELECTRIC SERVICE INSTALLATION	EACH	4	2	2
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	198	86	112
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	889	252	637
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	357	357	
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	479	479	
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	95	95	
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	10	10	
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 8"	EACH	2	2	
HANDHOLE	EACH	2	2	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	20779	16246	4533
UNIT DUCT, 600V, 2-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	95	95	
UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	5220		5220
UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	18419	18419	
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1447	1447	
ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 1/C NO. 1/0	FOOT	691	306	385
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	116	87	29
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	16	16	
UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	10	10	
SIGN LIGHTING LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM	EACH	5	5	
LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 240VOLT	EACH	2		2
LIGHTING CONTROLLER TYPE CB-RCS 100 AMP - 480 VOLT	EACH	2	2	
LIGHT POLE, ALUMINUM, 50 FT. M.H., 12 FT. MAST ARM TRANSFORMER BASE	EACH	116	87	29
LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 3	EACH	2	2	
LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 5	EACH	2	2	
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	812	609	203
LIGHT TOWER FOUNDATION	FOOT	72	72	
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	15	15	
REMOVAL OF LIGHTING CONTROLLER	EACH	1		1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1		1

POLE FOUNDATION, REMOVED  
REMOVAL OF ELECTRIC SERVICE INSTALLATION

EACH 15 15  
EACH 1

REVISIONS	
NAME	DATE

LT-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ROADWAY LIGHTING  
SCHEDULE OF QUANTITIES

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

PLAN	DATE
NO.	
BY	
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BY	
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Robert Swanson

Rev.

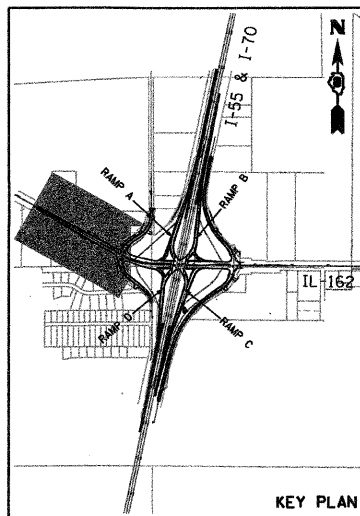
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60-10 (K-1,HB)	MADISON	420	180
STA. TO STA.			
CONTRACT NO.: 76709			

**NOTES:**

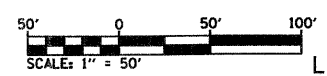
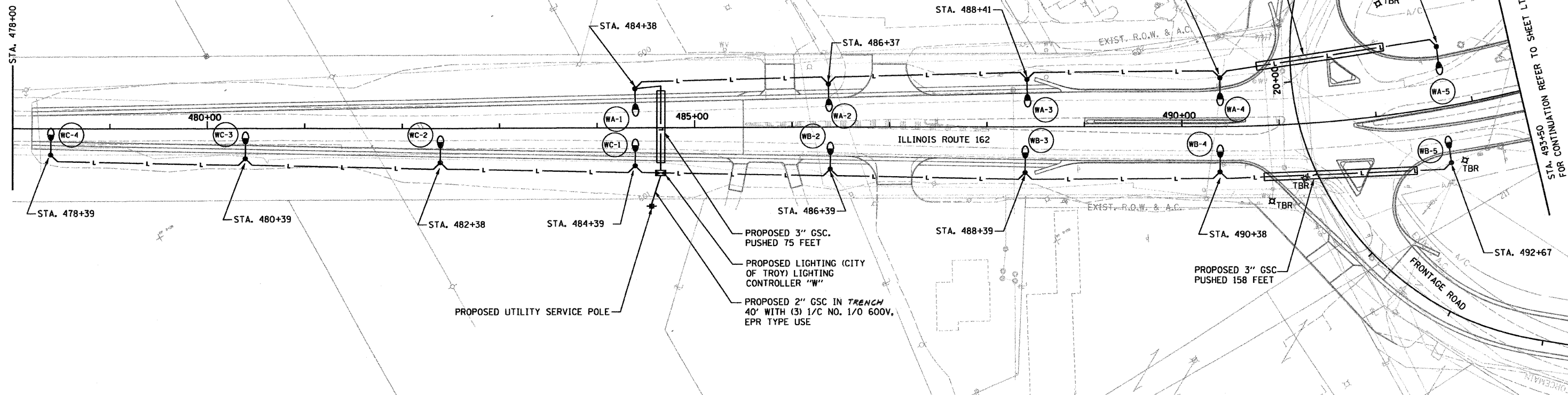
1. ALL UNIT DUCT ON THIS SHEET SHALL BE 6" (2" 6 XLP, 1" 6 XLP G, 1.0 P) UNLESS NOTED OTHERWISE.

**LEGEND**

- TBR - TO BE REMOVED
- REMOVE POLE
- REMOVE AND SALVAGE LUMINAIRE
- REMOVE FOUNDATION



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LT-03

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**PROPOSED ROADWAY LIGHTING PLAN**  
**IL-162 STA. 478+00 TO STA. 493+50**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

REVISIONS	
NAME	DATE

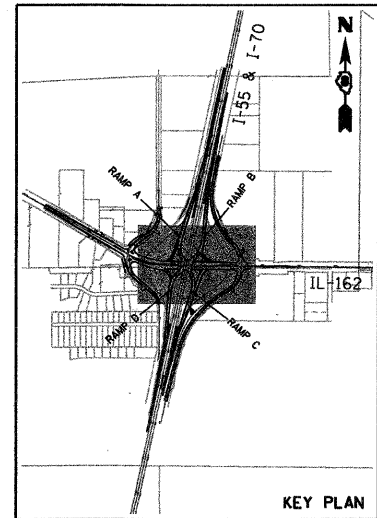
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Robert Swanson



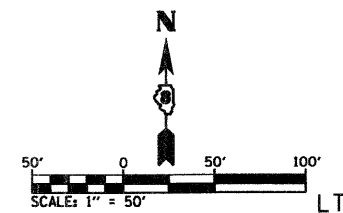
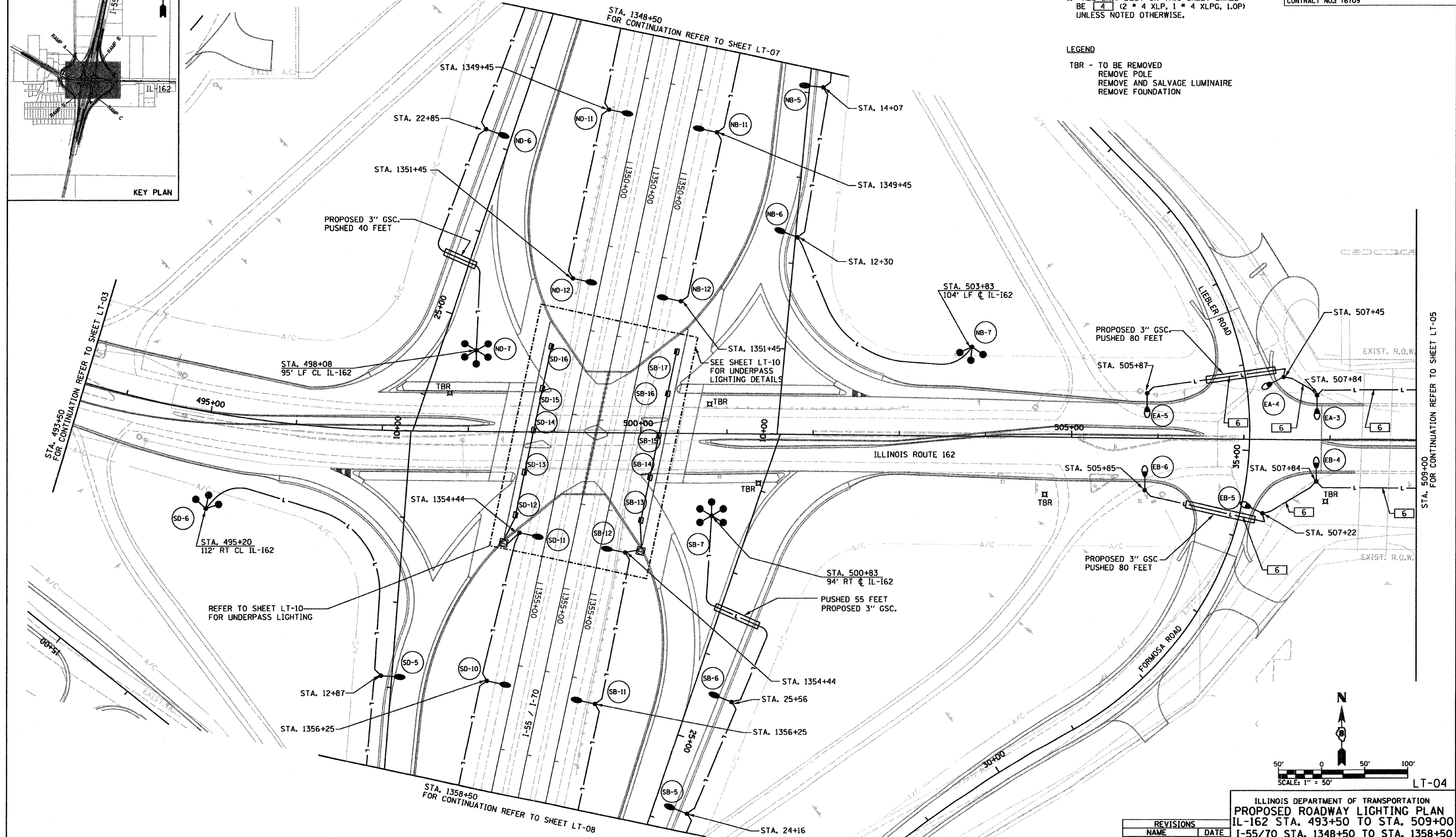
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60-10 (K-1,HB)	MADISON	420	181

**NOTES:**  
 1. ALL UNIT DUCT ON THIS SHEET SHALL BE 4" (2" x 4" XLP, 1" x 4" XLPG, 1.0P) UNLESS NOTED OTHERWISE.

**LEGEND**  
 TBR - TO BE REMOVED  
 REMOVE POLE  
 REMOVE AND SALVAGE LUMINAIRE  
 REMOVE FOUNDATION



DATE	BY	REVISION



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY LIGHTING PLAN**  
 IL-162 STA. 493+50 TO STA. 509+00  
 I-55/70 STA. 1348+50 TO STA. 1358+50  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

DRAWN BY: RPJ CHECKED BY: A. OSHANA, P.E.

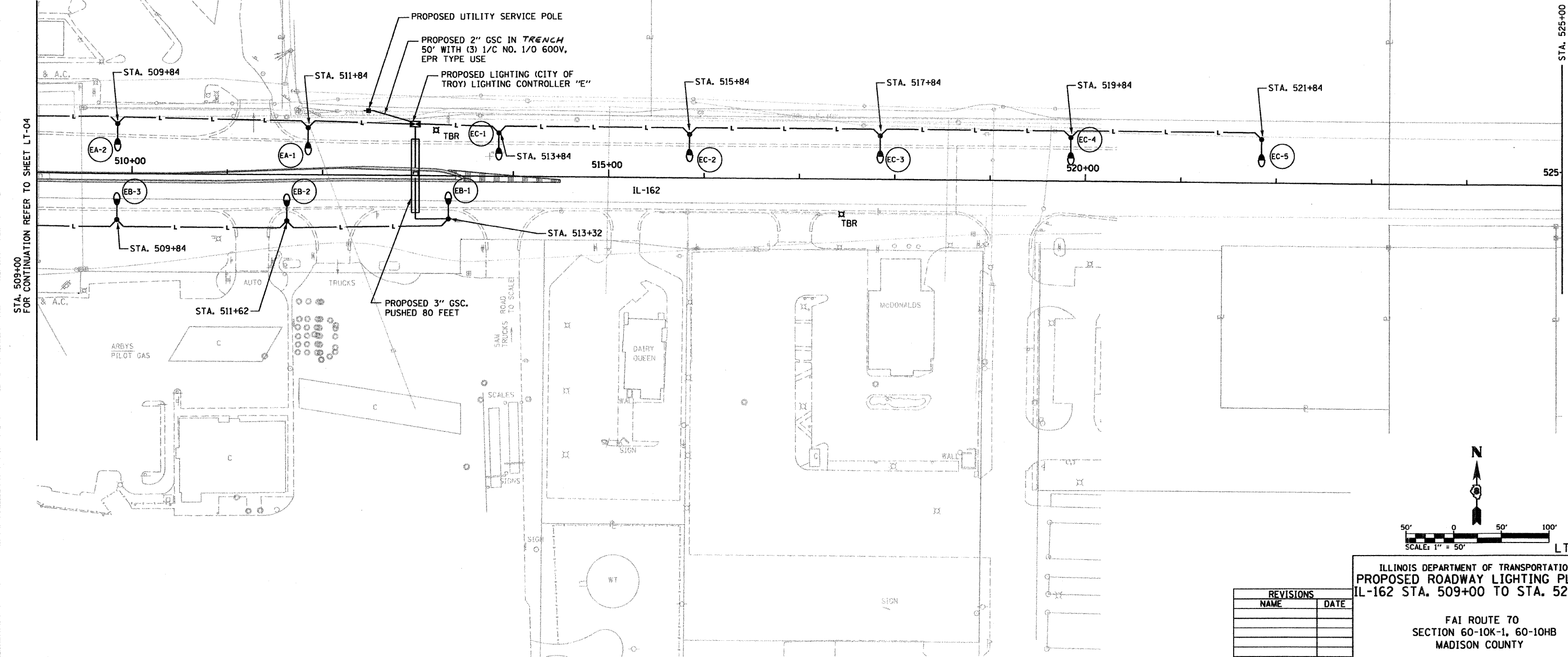
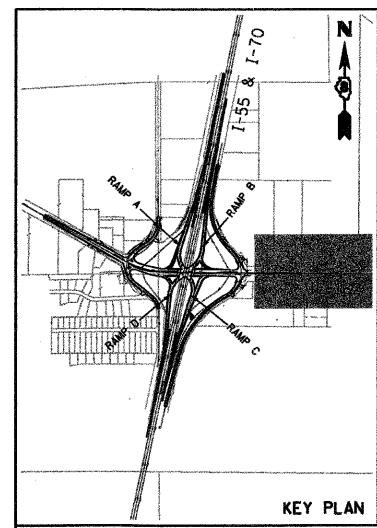
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FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-10 (K-1,HB)	MADISON	420	182
STA.	TO STA.			
CONTRACT NO.: 76709				

**NOTES:**  
 1. ALL UNIT DUCT ON THIS SHEET SHALL BE 6" (2" \* 6" XLP, 1" \* 6" XLPG, 1.0P) UNLESS NOTED OTHERWISE.

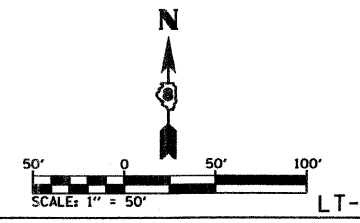
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 TBR - TO BE REMOVED  
 REMOVE POLE  
 REMOVE AND SALVAGE LUMINAIRE  
 REMOVE FOUNDATION

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STA. 509+00  
 FOR CONTINUATION REFER TO SHEET LT-04

STA. 525+00



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROPOSED ROADWAY LIGHTING PLAN  
 IL-162 STA. 509+00 TO STA. 525+00

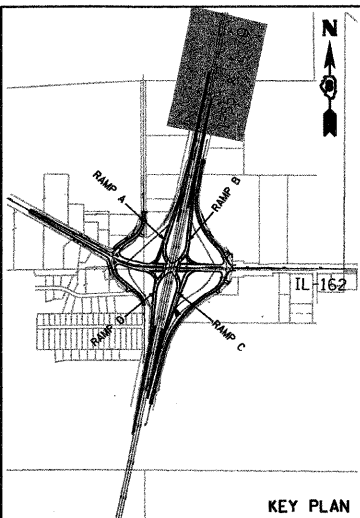
FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

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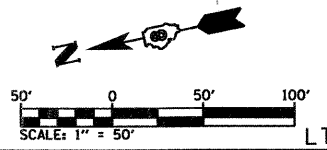
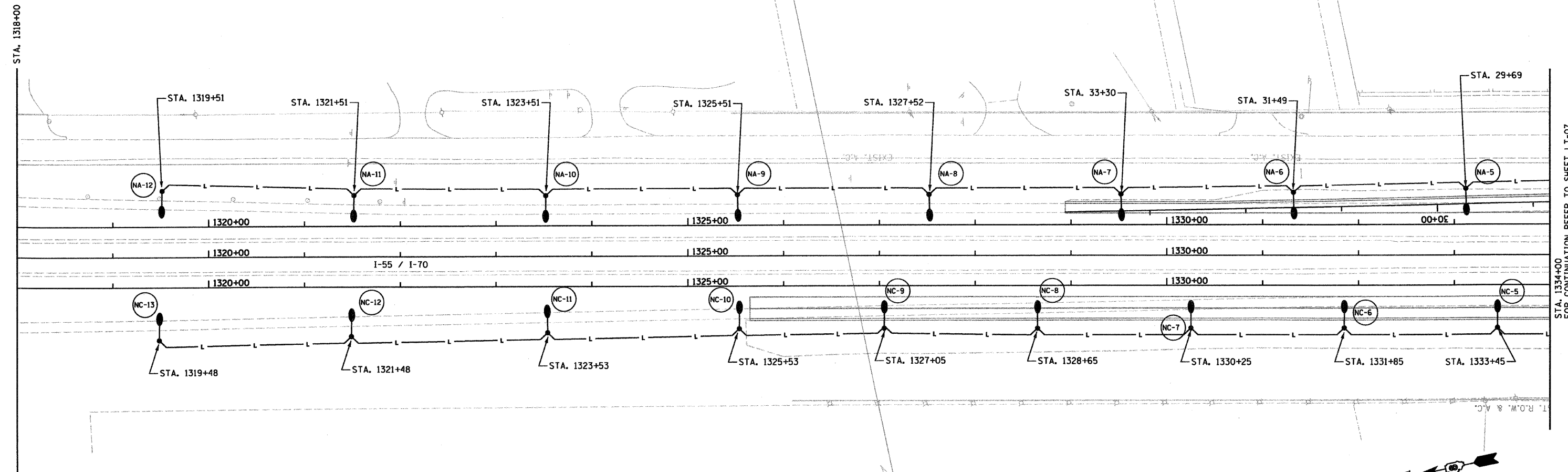
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 Robert J. Swanson

F&P NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10 (K-1,HB)	MADISON	420	183
STA.		TO STA.		
CONTRACT NO.: 76709				

**NOTES:**  
 1. ALL UNIT DUCT ON THIS SHEET SHALL BE 4 (2 \* 4 XLP, 1 \* 4 XLPG, 1.0P) UNLESS NOTED OTHERWISE.



PLAN	DATE	BY
REVISION		
NOTE BOOK		
NO.		



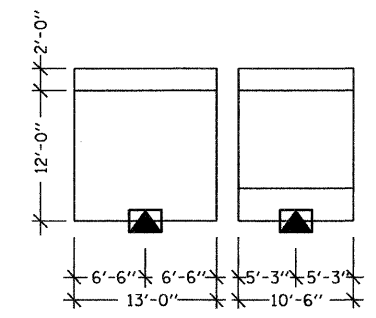
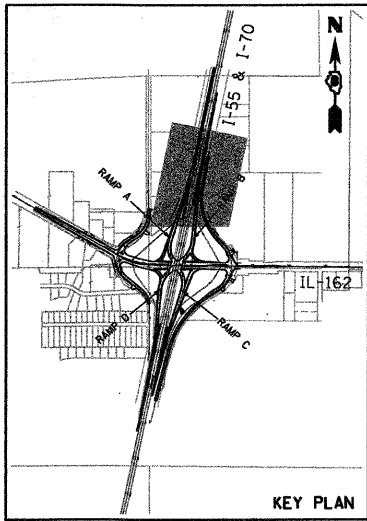
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY LIGHTING PLAN**  
 I-55/70 STA. 1318+00 TO STA. 1334+00  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

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STA. 1334+00  
 FOR CONTINUATION REFER TO SHEET LT-07

PLAN	NO.
DATE	
BY	
CHECKED	
DESIGNED	
IN CHARGE	
PROJECT	

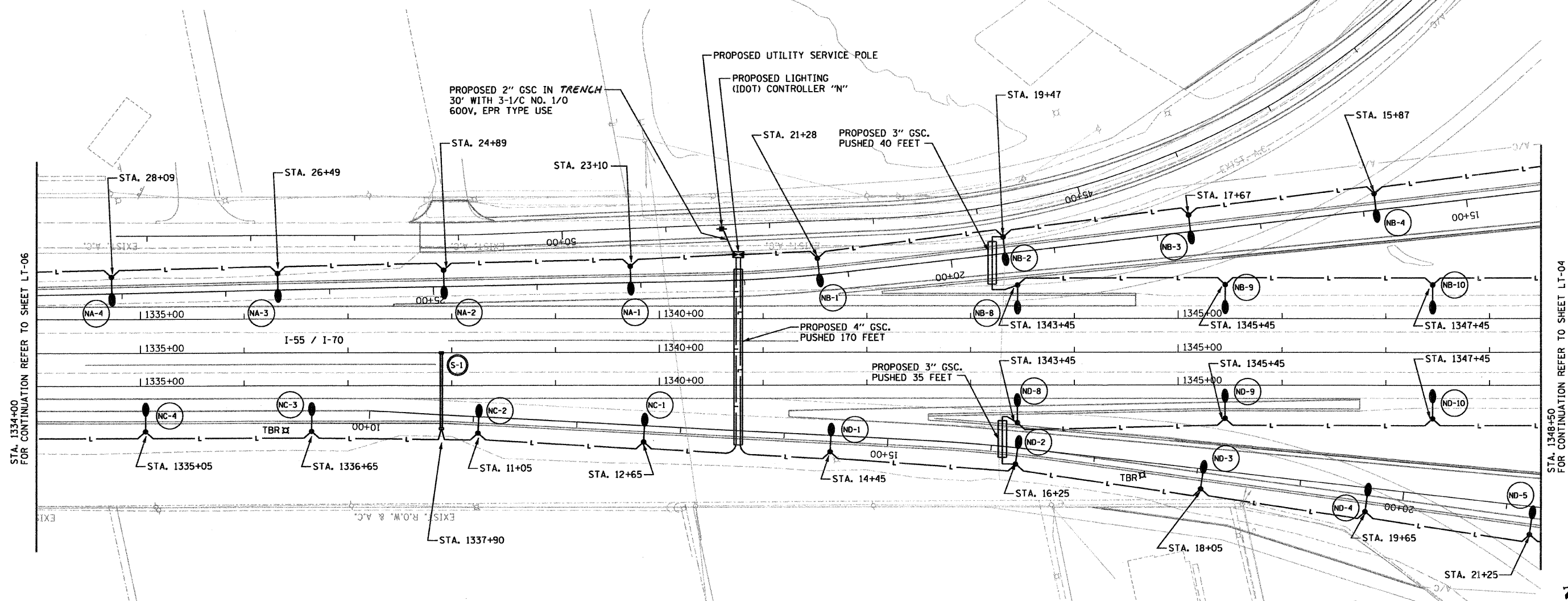


**SIGN S-1 - SOUTHBOUND I-55/70**  
NOT TO SCALE

**NOTES:**  
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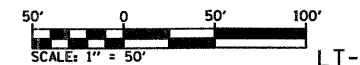
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60-10 (K-1,HB)	MADISON	420	184
CONTRACT NO.: 76709			

**LEGEND**  
TBR - TO BE REMOVED  
REMOVE POLE  
REMOVE AND SALVAGE LUMINAIRE  
REMOVE FOUNDATION



STA. 1334+00 FOR CONTINUATION REFER TO SHEET LT-06

STA. 1348+50 FOR CONTINUATION REFER TO SHEET LT-04



LT-07

REVISIONS	
NAME	DATE

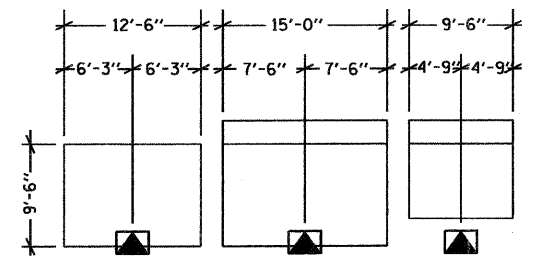
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY LIGHTING PLAN**  
I-55/70 STA. 1334+00 TO STA. 1348+50  
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY  
DRAWN BY: RPJ CHECKED BY: A. OSHANA, P.E.

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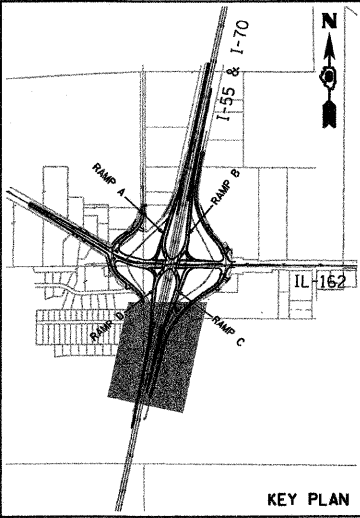
F&P NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-10 (K-1,HB)	MADISON	420	185
STA.	TO STA.			
CONTRACT NO.: 76709				

NOTES:  
 1. ALL UNIT DUCT ON THIS SHEET SHALL BE 4" (2" 4 XLP, 1" 4 XLPG, 1.0P) UNLESS NOTED OTHERWISE.

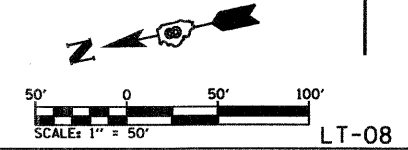
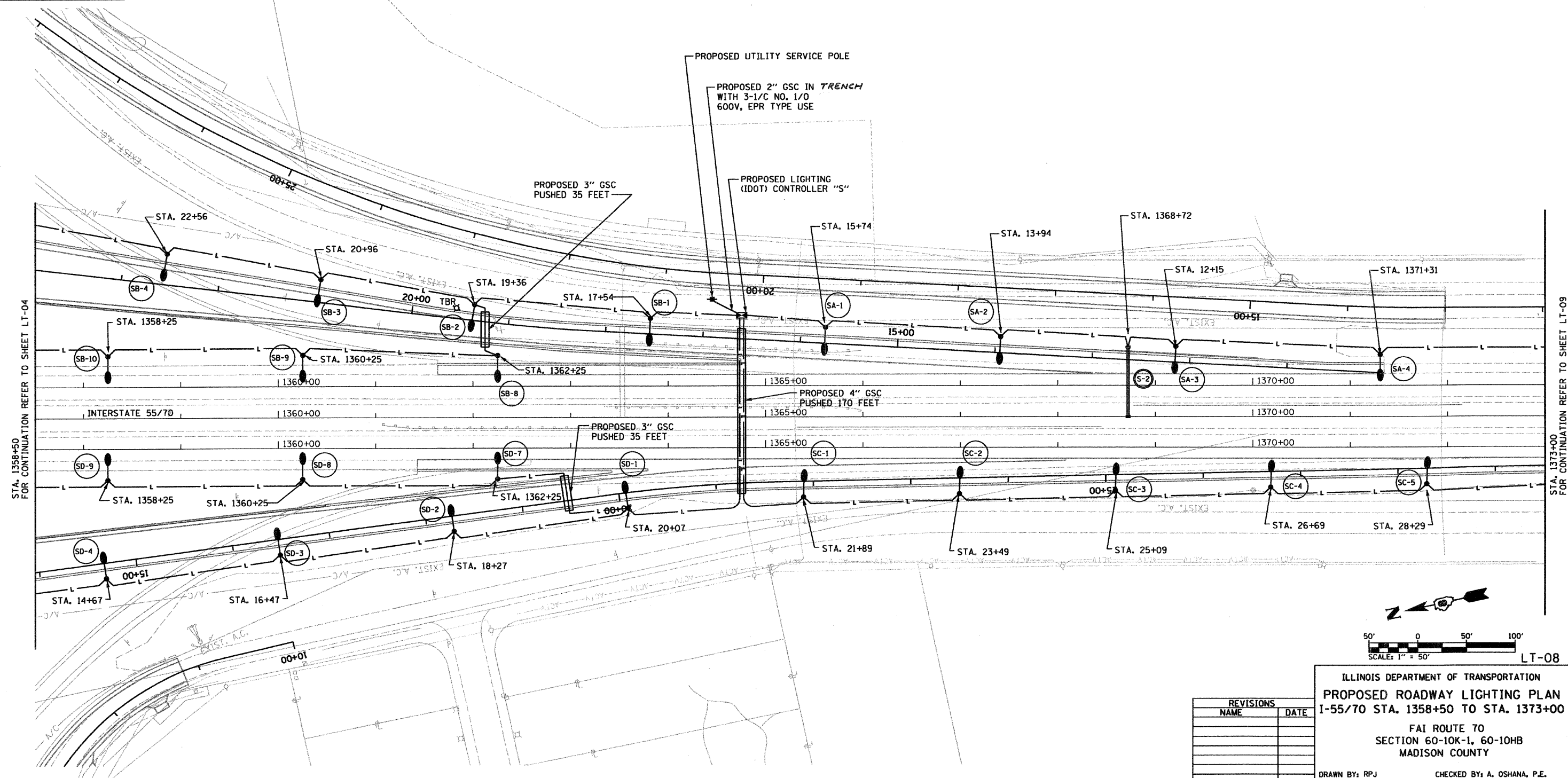
LEGEND  
 TBR - TO BE REMOVED  
 REMOVE POLE  
 REMOVE AND SALVAGE LUMINAIRE  
 REMOVE FOUNDATION



SIGN S-2 - NORTHBOUND I-55/70  
 NOT TO SCALE



PLAN	DATE
BY	
CHECKED	
NO.	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY LIGHTING PLAN**  
 I-55/70 STA. 1358+50 TO STA. 1373+00  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

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F&P ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10 (K-1,HB)	MADISON	420	186
STA.		TO STA.		
CONTRACT NO.: 76709				

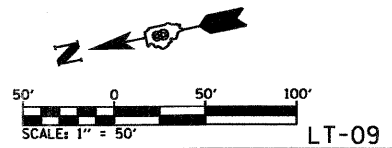
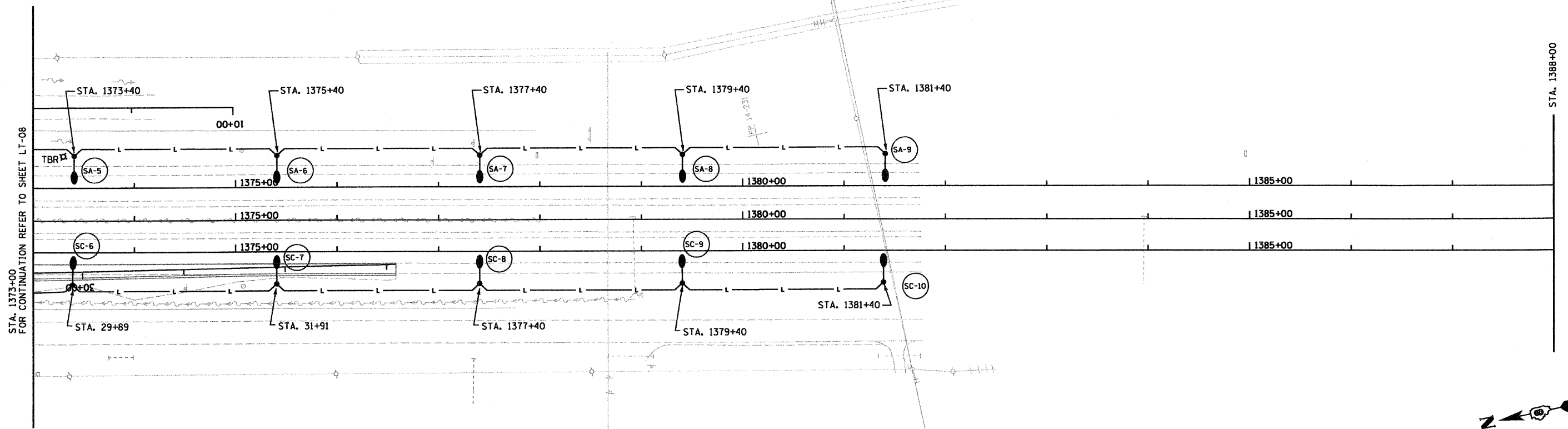
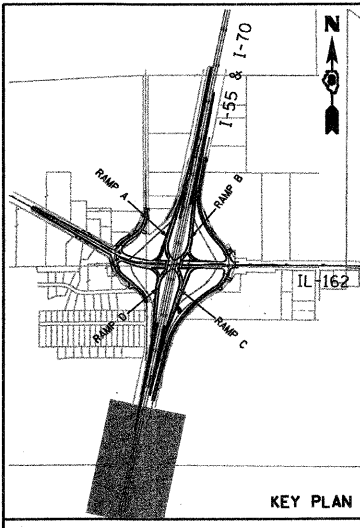
**NOTES:**

1. ALL UNIT DUCT ON THIS SHEET SHALL BE 4 (2 \* 4 XLP, 1 \* 4 XLPG, 1.0P) UNLESS NOTED OTHERWISE.

**LEGEND**

TBR - TO BE REMOVED  
 REMOVE POLE  
 REMOVE AND SALVAGE LUMINAIRE  
 REMOVE FOUNDATION

PLAN	NO.	DATE
REVISION	NO.	DATE
BY		
CHECKED		
DATE		



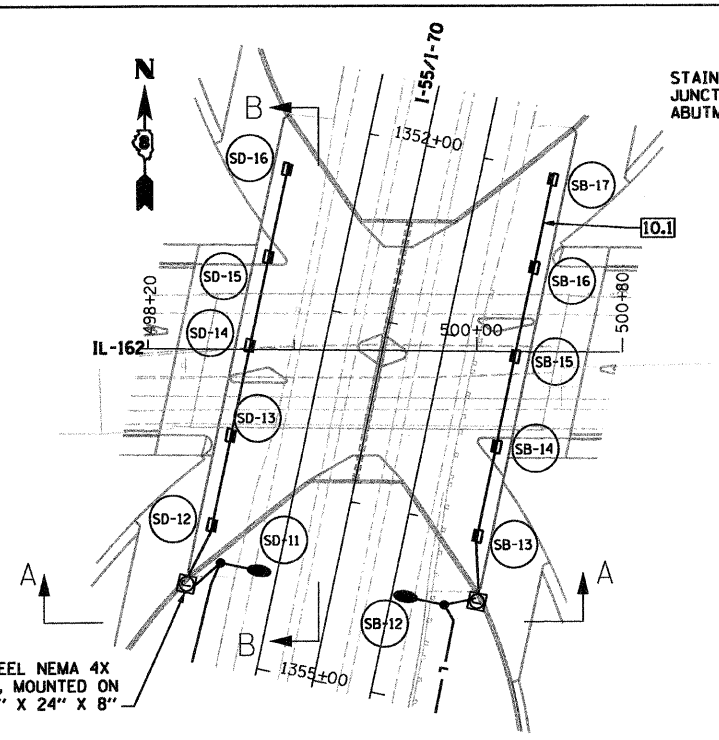
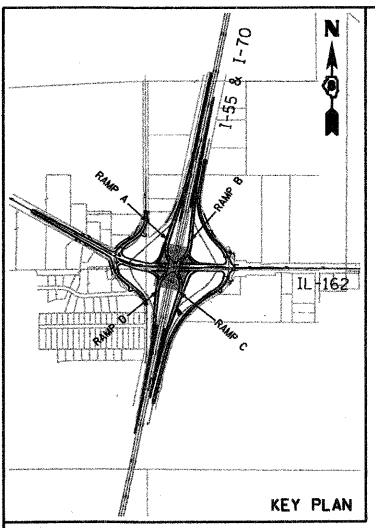
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY LIGHTING PLAN**  
 I-55/70 STA. 1373+00 TO STA. 1388+00  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

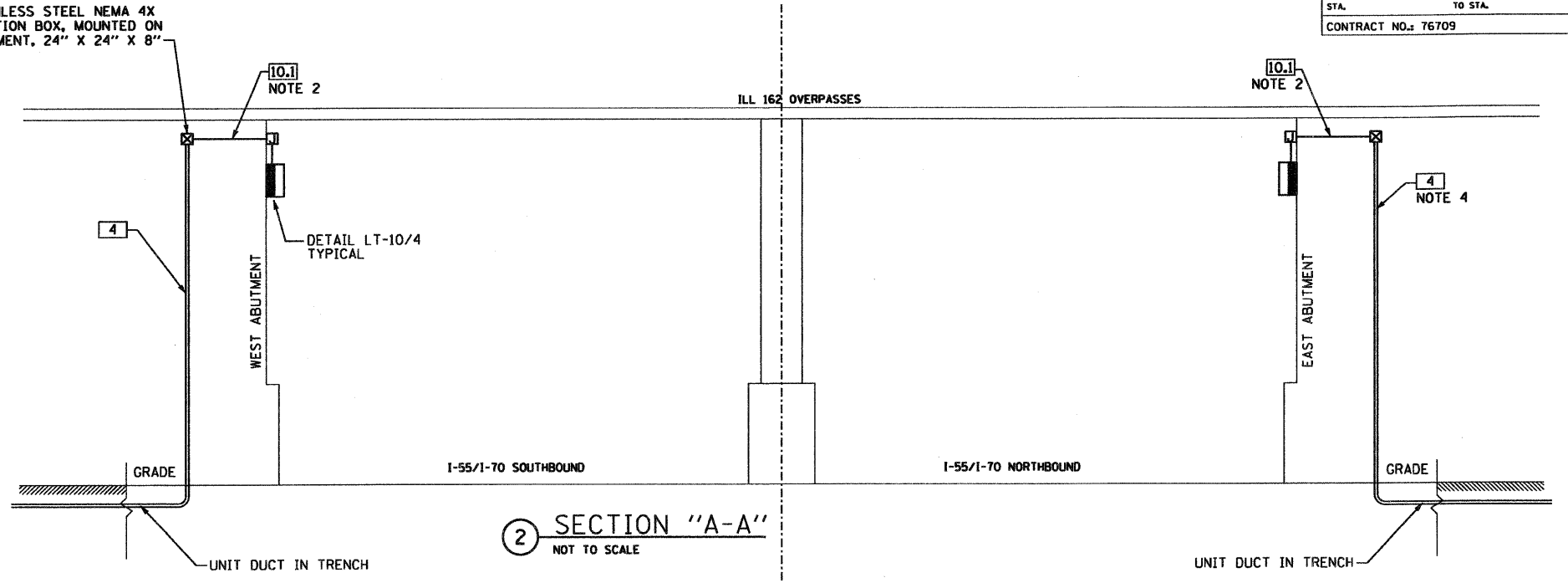
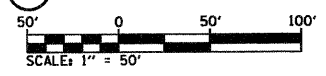
XXXXXX - IDOT IL 162 over I-55.70 revisions  
 236-LI-09.dgn  
 1/28/2009 1:08:44 PM  
 Robert Swanson

F&P ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO 60-10 (K-1,HB)	MADISON	420	187	
STA.	TO STA.			
CONTRACT NO.: 76709				

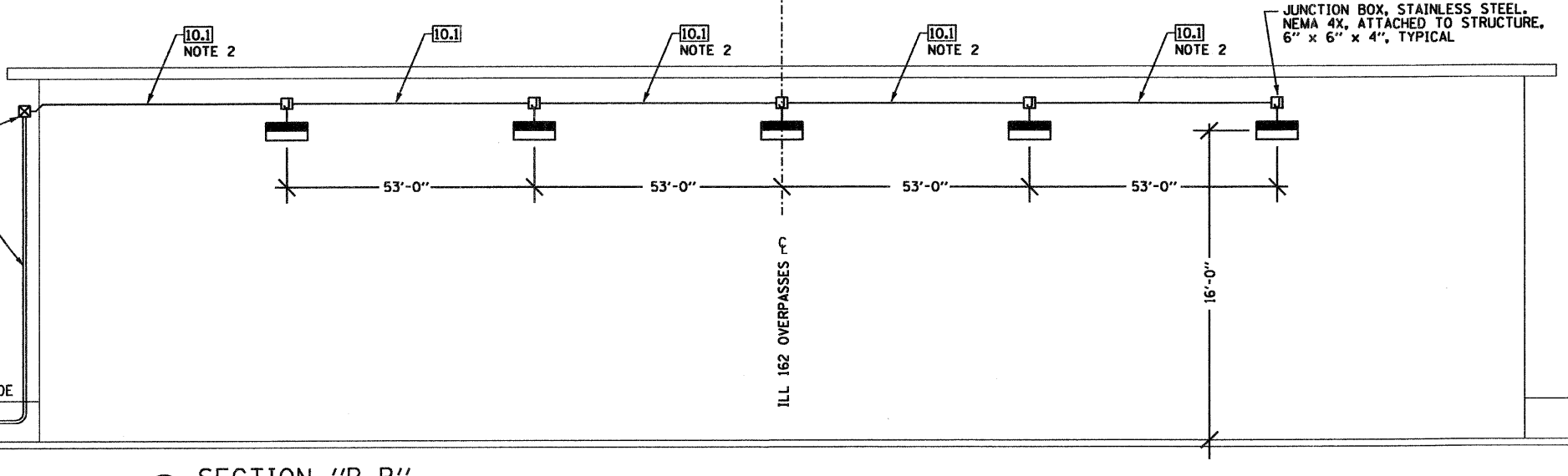
PLAN	NO.	DATE	BY
REVISION			
NOTE BOOK			
NO.			



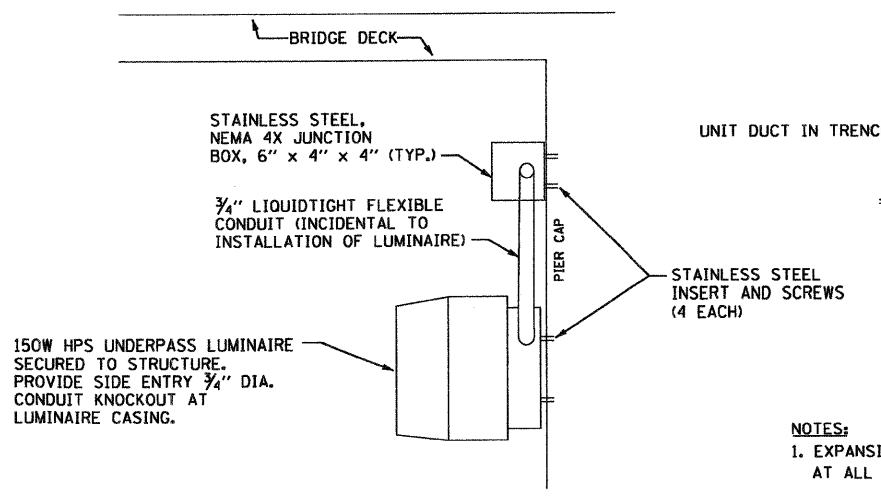
1 PROPOSED UNDERPASS LIGHTING PLAN



2 SECTION "A-A" NOT TO SCALE



3 SECTION "B-B" NOT TO SCALE



4 LUMINAIRE MOUNTING NOT TO SCALE

- NOTES:
- EXPANSION FITTINGS SHALL BE FURNISHED AND INSTALLED IN CONDUIT RUNS AT ALL STRUCTURAL EXPANSION JOINTS.
  - PVC COATED CONDUIT CLAMP AND CLAMP BACK ON 5'-0" CENTERS (TYPICAL). ATTACH WITH EXPANSION ANCHORS (MIN. 2" LONG). EXPANSION ANCHORS SHALL BE HOT DIPPED GALVANIZED AS MADE BY PARTABOLT KWIK-BOLT OR WE-JIT, OR APPROVED EQUAL.
  - EXPANSION FITTINGS AT WALL JOINTS SHALL BE O.Z. GEDNEY TYPE DX EXPANSION-DEFLECTION FITTINGS OR APPROVED EQUAL ALLOWING A MOVEMENT OF 3/4" IN ALL DIRECTIONS AND A DEFLECTION OF 30 DEG. FROM NORMAL IN ALL DIRECTIONS.
  - 3" GALVANIZED RIGID CONDUIT ATTACHED TO STRUCTURE FROM EAST IRON JUNCTION BOX TO GRADE. *← STAINLESS STEEL*

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED UNDERPASS LIGHTING PLAN, ELEVATION, & NOTES**

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

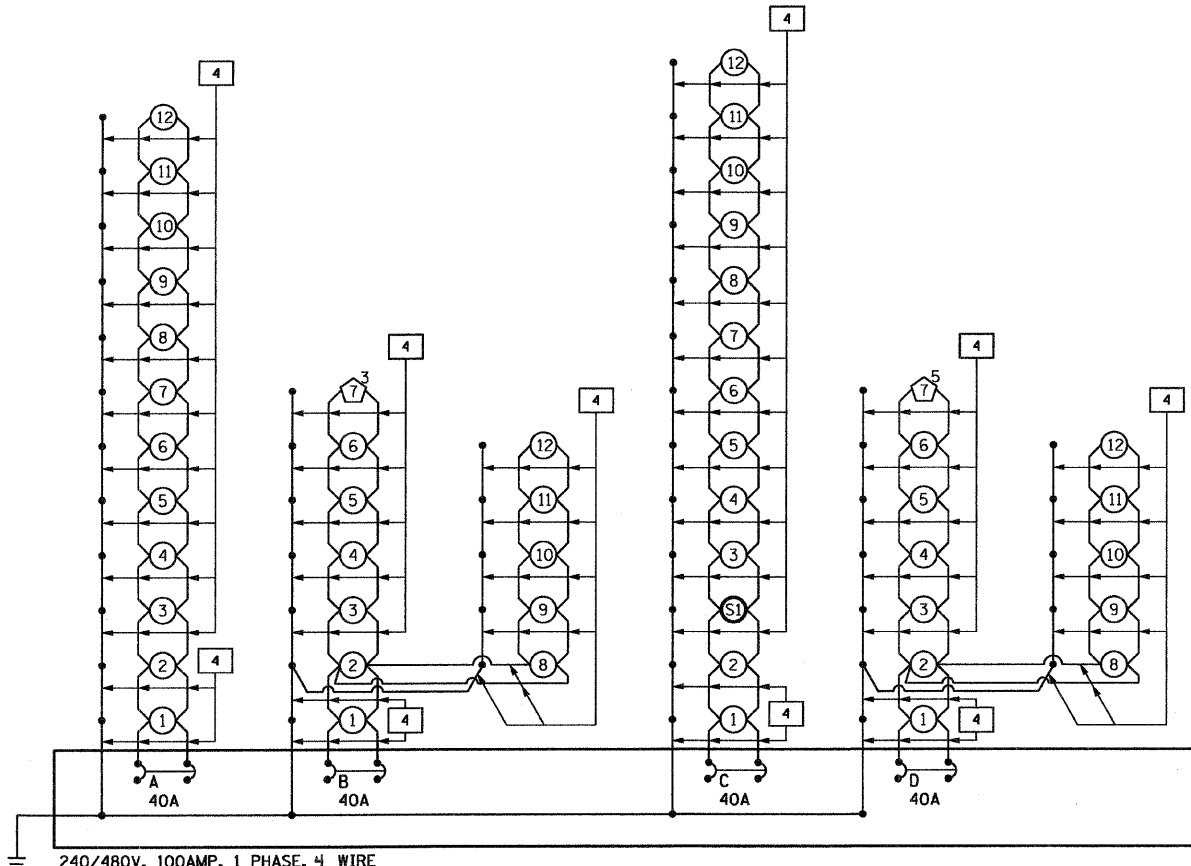
DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

XXXXXX - IDOT IL 162 over I-55,70 revisions  
236-LT-10 - Underpass.c  
1/28/2009 1:52:00 PM  
Robert Swanson

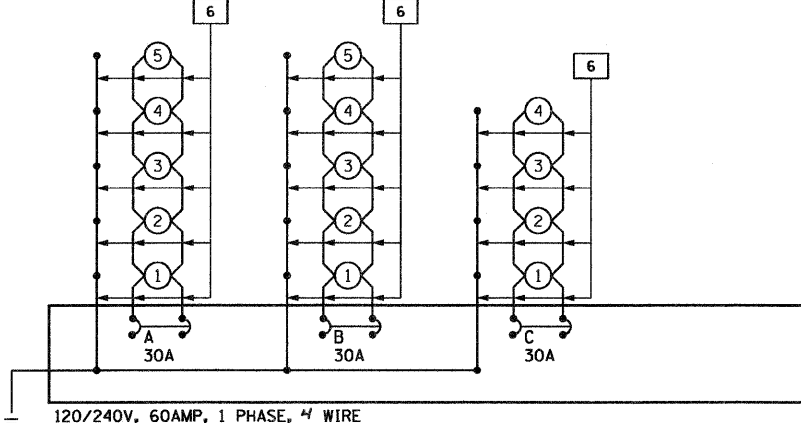
LT-10

WIRING LEGEND	
4	2*4 XLP, 1*4 XLP G 1.0P
6	2*6 XLP, 1*6 XLP G 1.0P
6.1	2*6 XLP, 1*6 XLP G 1.0P ATTACHED TO STRUCTURE, 1" DIA.
10	2*10 XLP, 1*10 XLP G 0.75P
10.1	2*10 XLP-USE, 1*10 XLP G IN CONDUIT, ATTACHED TO STRUCTURE, 1" DIA.
(X)	(1) 400 WATT FIXTURE; POLE MTD.
(X) <sup>5</sup>	(5) 750 WATT FIXTURES; HIGH MAST
(X) <sup>3</sup>	(3) 750 WATT FIXTURES; HIGH MAST
(X)	(1) 150 WATT FIXTURE; UNDERPASS
(S1)	(2) 150 WATT FIXTURES; SIGN LIGHTING
(S2)	(3) 150 WATT FIXTURES; SIGN LIGHTING

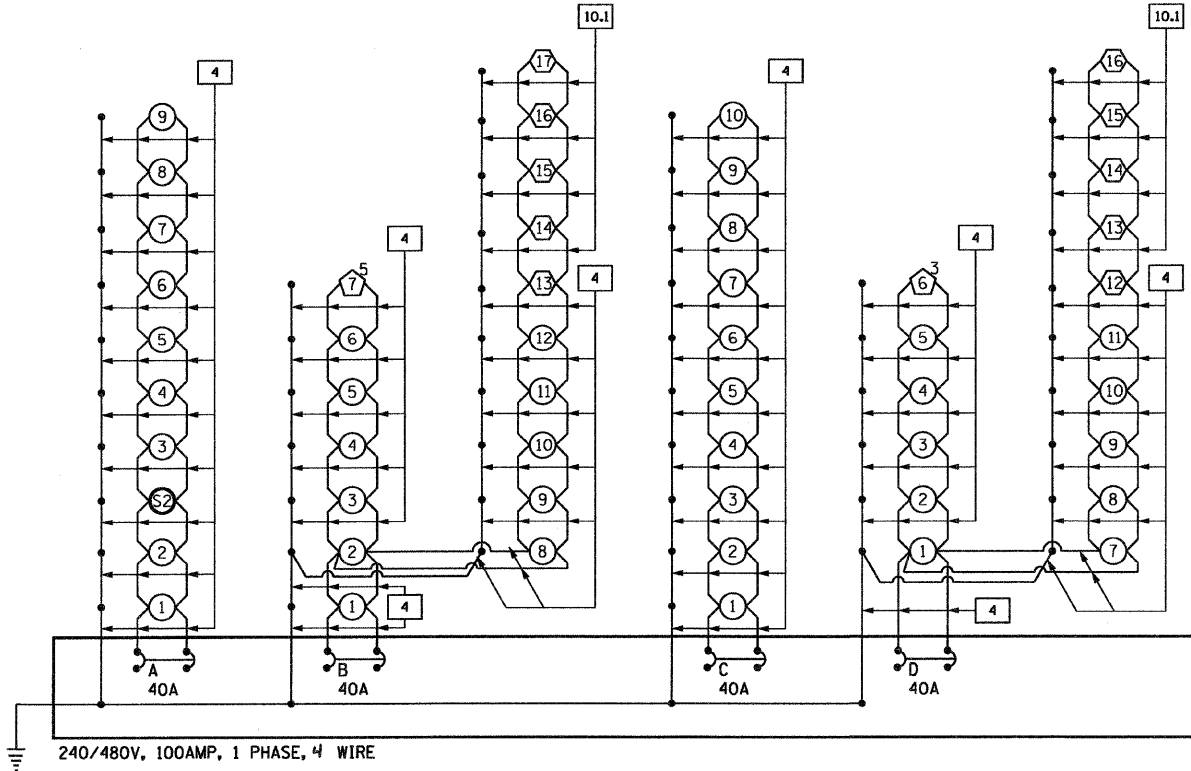
PLAN	DATE
BY	
REVISIONS	
NOTED	
NO.	



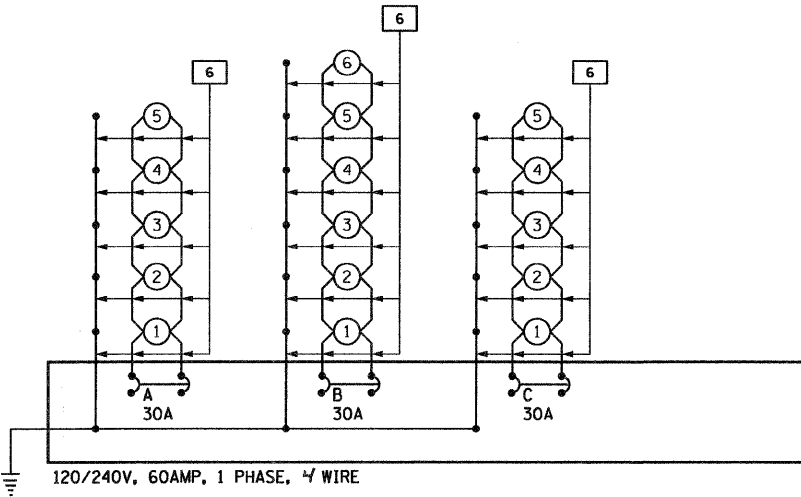
LIGHTING CONTROLLER "N" (IDOT)



LIGHTING CONTROLLER "W" (CITY OF TROY)



LIGHTING CONTROLLER "S" (IDOT)



LIGHTING CONTROLLER "E" (CITY OF TROY)

CONTROLLER "N" 480 VOLT, 1 P (IDOT)		CONTROLLER "S" 480 VOLT, 1 P (IDOT)		CONTROLLER "W" 240 VOLT, 1 P (CITY OF TROY)		CONTROLLER "E" 240 VOLT, 1 P (CITY OF TROY)	
CIRCUIT	WATTS	CIRCUIT	WATTS	CIRCUIT	WATTS	CIRCUIT	WATTS
A	5,940	A	5,025	A	2,475	A	2,475
B	8,145	B	10,895	B	2,475	B	2,970
C	7,005	C	4,950	C	1,980	C	2,475
D	9,945	D	5,520	D	-	D	-
TOTAL	31,035	TOTAL	26,390	TOTAL	6,390	TOTAL	7,920

REVISIONS	
NAME	DATE

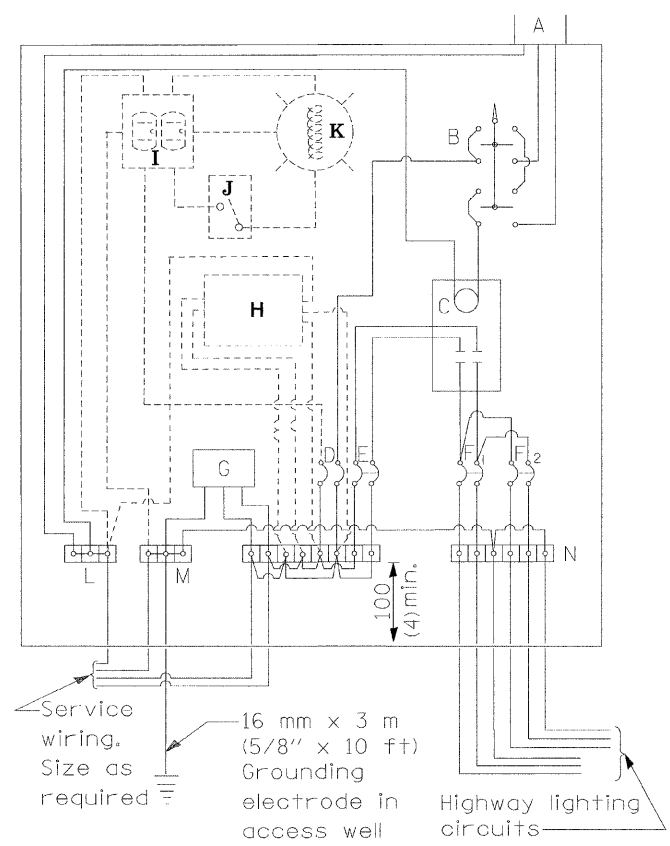
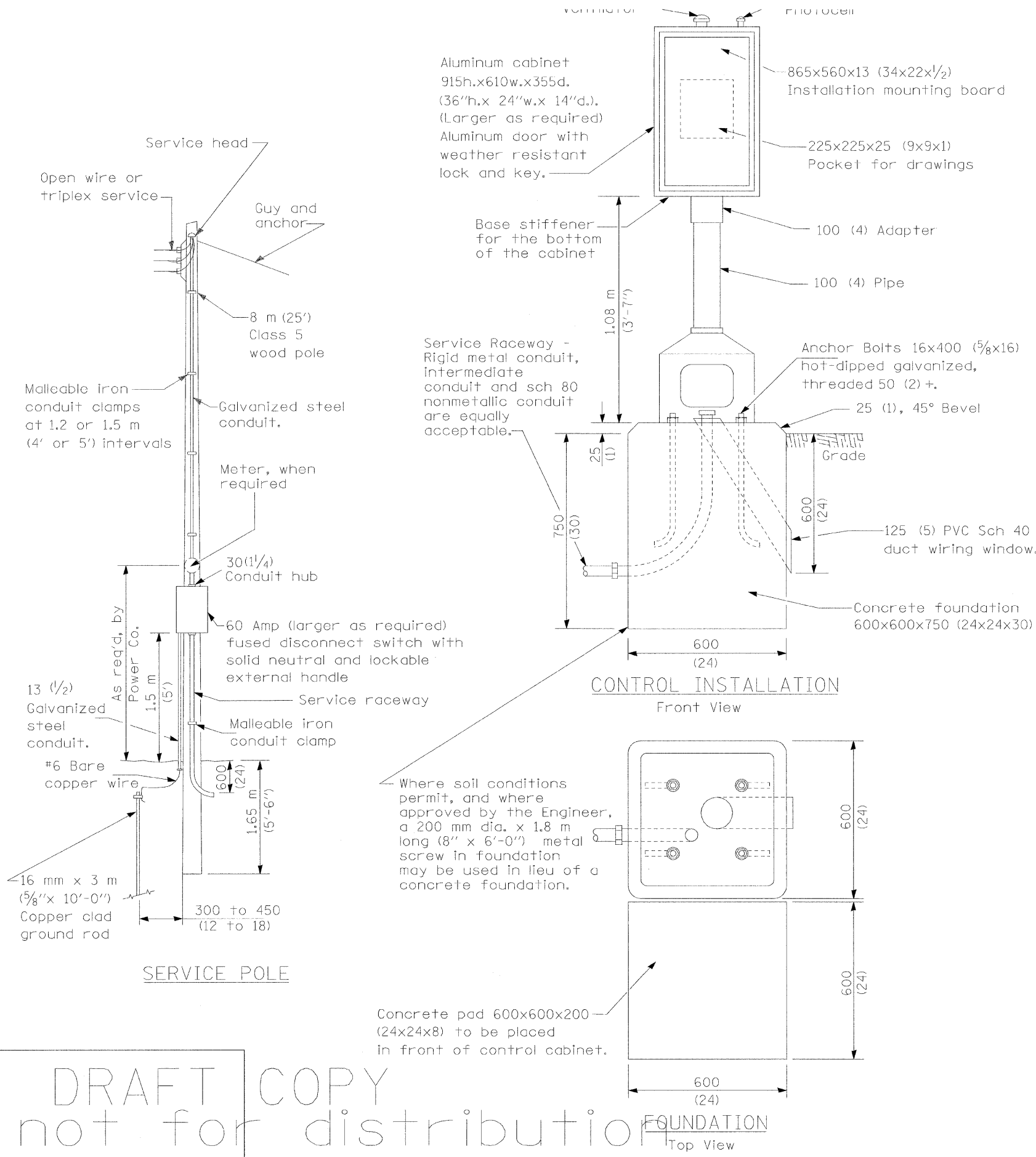
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY LIGHTING  
 WIRING DIAGRAMS**  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY

DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

XXXXXX - IDOT IL 162 over 1-55.70 revisions  
 236-LT-11 - Wiring Diagrams.dgn  
 1/28/2009  
 11:03:36 PM  
 Robert Swanson







- MATERIALS**
- A Photocell w/ integral surge arrester (remote mount in urban areas)
  - B 3 position selector switch HAND-OFF-AUTO
  - C 2 pole, 100 amp\*, electrically held contactor, 120V operating coil
  - D 15 amp, 1 pole, circuit breaker
  - E 60 amp\*, 2 pole, main circuit breaker
  - F 20 amp\*, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
  - G Surge arrester
  - H Transformer (see notes), 1 KVA\*, 240/480V primary, 120/240V sec, single phase
  - I GFCI duplex receptacle
  - J Single pole, single throw switch
  - K Shielded security fixture with 100W lamp
  - L Neutral bar
  - M Equipment ground bar
  - N Terminal block (typ)
- (\* = Size larger as needed)

**CONTROL SCHEMATIC**

**GENERAL NOTES**

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, when specified.

For 480 V service, a step down transformer (dashed lines) is required.

Raceways shall terminate 75 (3) above top of concrete foundation.

Label equipment ground buss and neutral buss.

240 V. SERVICE

480 V. SERVICE

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

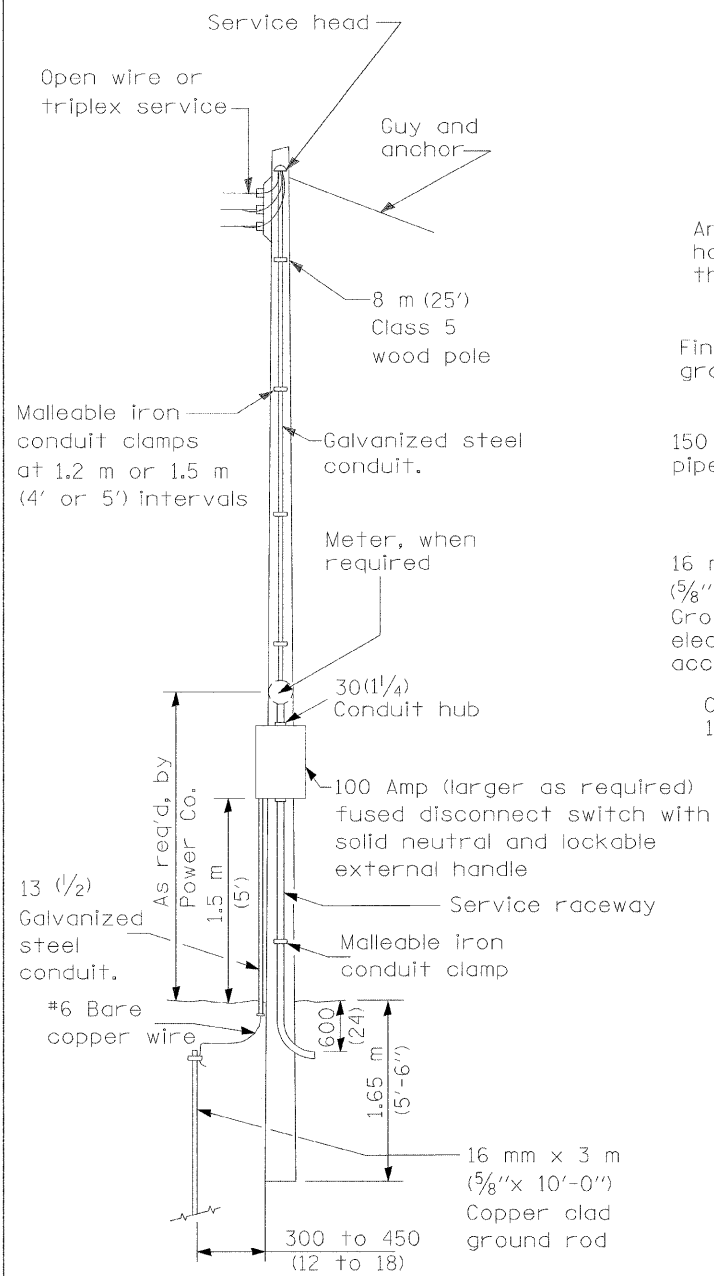
LT-13

DATE	REVISIONS
1/20/06	Corrected
1/31/08	Cabinet size increased
2/3/09	Surge arrester wiring

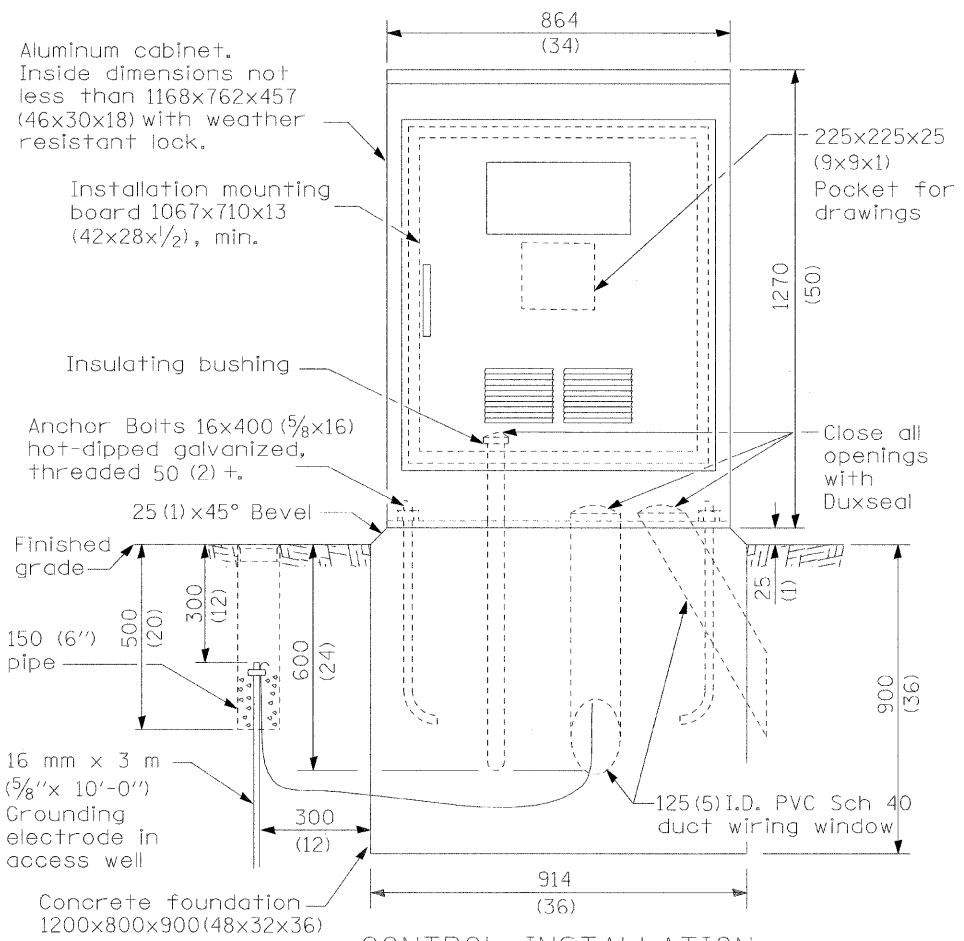
**CONTROL INSTALLATION  
Pedestal Mount Cabinet**

**DRAFT**

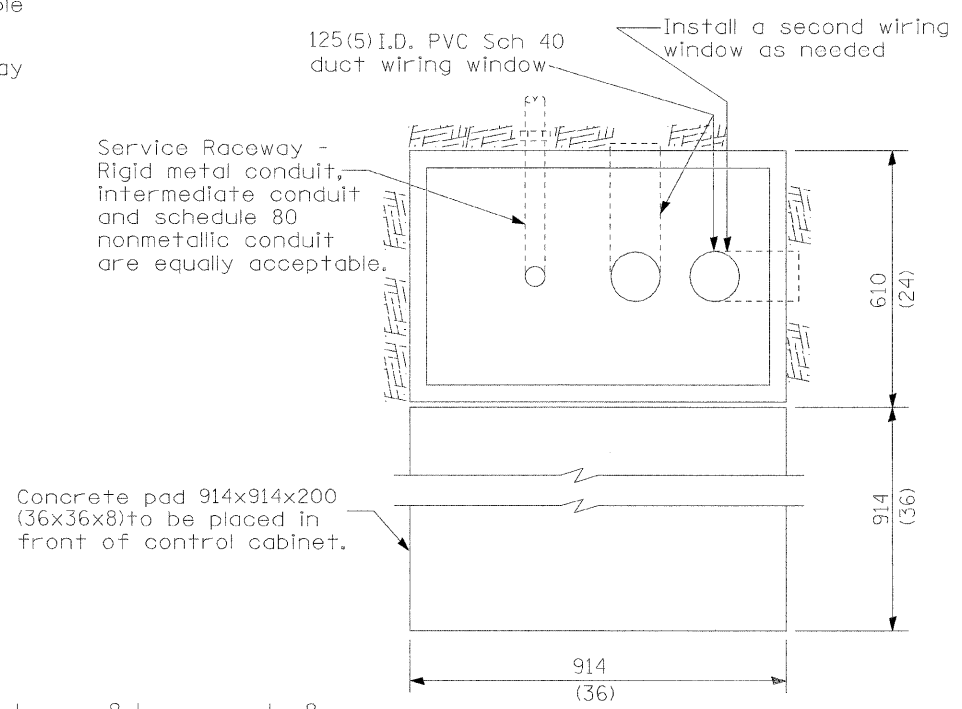
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not for distribution



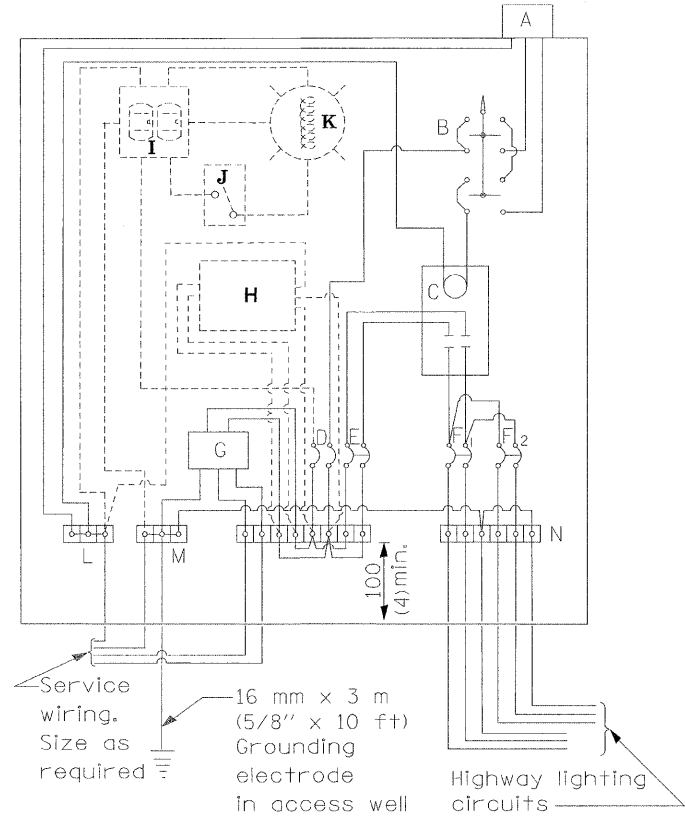
SERVICE POLE



CONTROL INSTALLATION (FRONT VIEW)



FOUNDATION (TOP VIEW)



CONTROL SCHEMATIC

MATERIALS

- A Photocell w/ integral surge arrester (remote mount in urban areas)
  - B 3 position selector switch HAND-OFF-AUTO
  - C 100 amp\* electrically held contactor, 120V operating coil
  - D 15 amp, 1 pole, circuit breaker
  - E 100 amp\*, 2 pole, main circuit breaker
  - F 20 amp\*, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
  - G Surge arrester
  - H Transformer (see notes), 1 KVA\*, 240/480V primary, 120/240V sec, single phase
  - I GFCI duplex receptacle
  - J Single pole, single throw switch
  - K Shielded security fixture with 100W lamp
  - L Neutral bar
  - M Equipment ground bar
  - N Terminal block (typ)
- (\* = Size larger as needed)

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, when specified.

For 480 V service, a step down transformer (dashed lines) is required. Raceways shall terminate 75 (3) above top of concrete foundation.

Label equipment ground buss and neutral buss.

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

- 240 V. SERVICE
- 480 V. SERVICE

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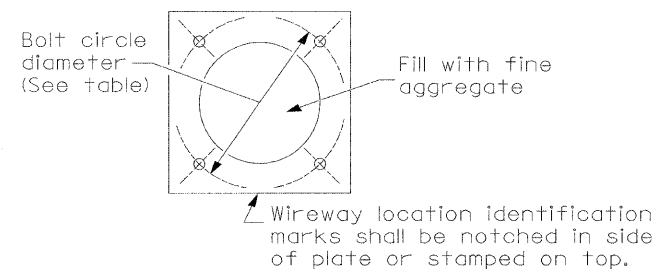
DATE	REVISIONS
	Corrected 1/19/06

CONTROL INSTALLATION Base Mount Cabinet

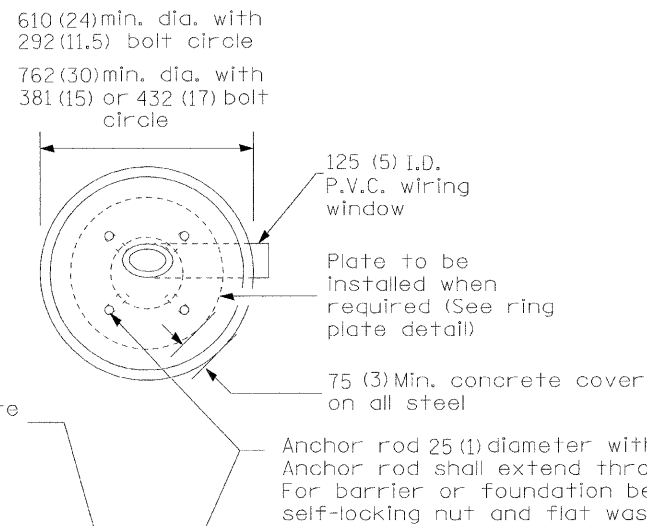
DRAFT

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
<9.1 m (30')	292 (11.5)	220 (8 7/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11.5)	220 (8 7/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8 7/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8 7/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8 7/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

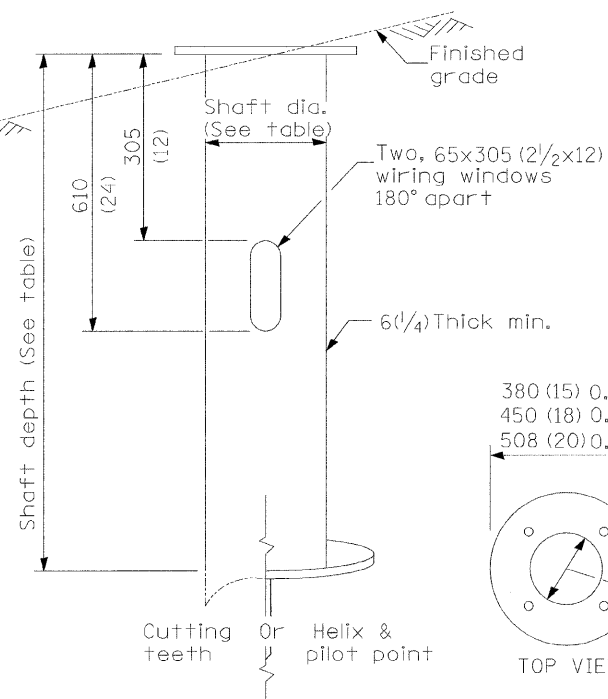
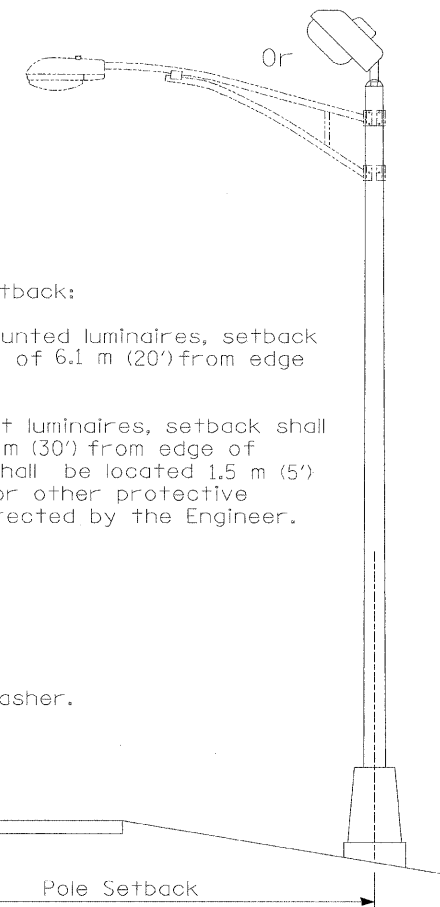
- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 7/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

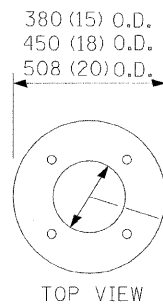


**Pole Foundation Setback:**  
 For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.  
 For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.



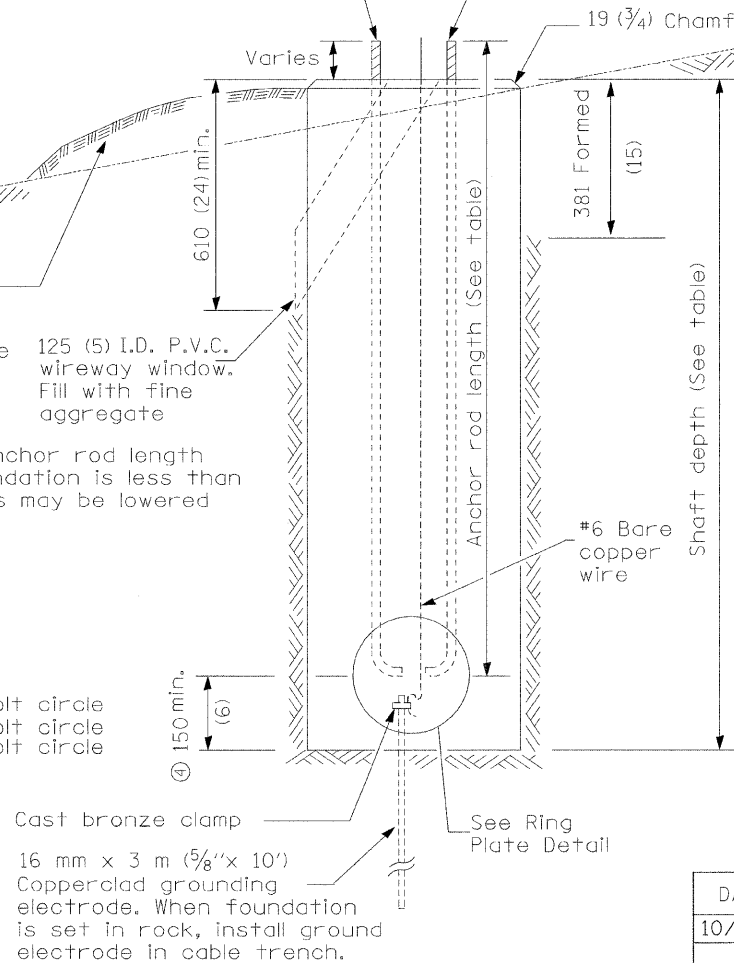
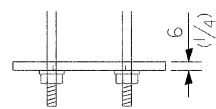
Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).



**STEEL FOUNDATION**

**RING PLATE DETAIL**  
 (When rock is encountered and foundation is shallower)



**CONCRETE FOUNDATION**

**Notes:**

- 1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
- 2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- 3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
- 4) Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
- 5) TB3-17 transformer base is not to be used on metal foundation

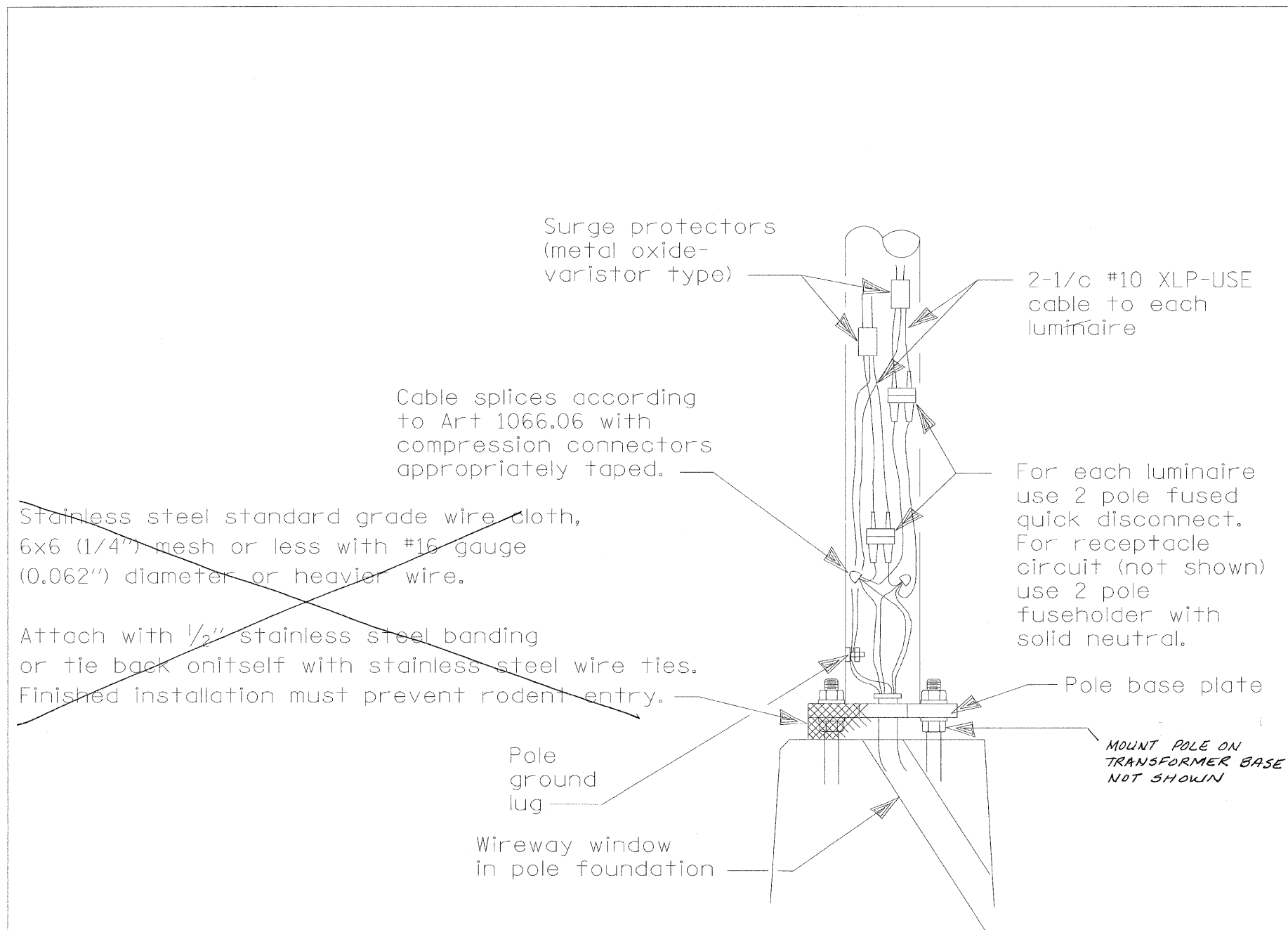
All dimensions are in millimeters (inches) unless otherwise shown.

DATE	REVISIONS
10/7/02	Bridge Office depth calc.

**LIGHT POLE FOUNDATION**

LGT007-836

LT -15



# WIRING DETAIL

NO SCALE

## GENERAL NOTES

All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

All cable splices shall be taped unless another method has been specifically approved by the Engineer.

For example purposes the pole is shown on an anchor base. If the pole is required to be set on a breakaway base, consult the Standard Specifications.

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

LT-15A.

DATE	REVISIONS
7/31/08	Updated

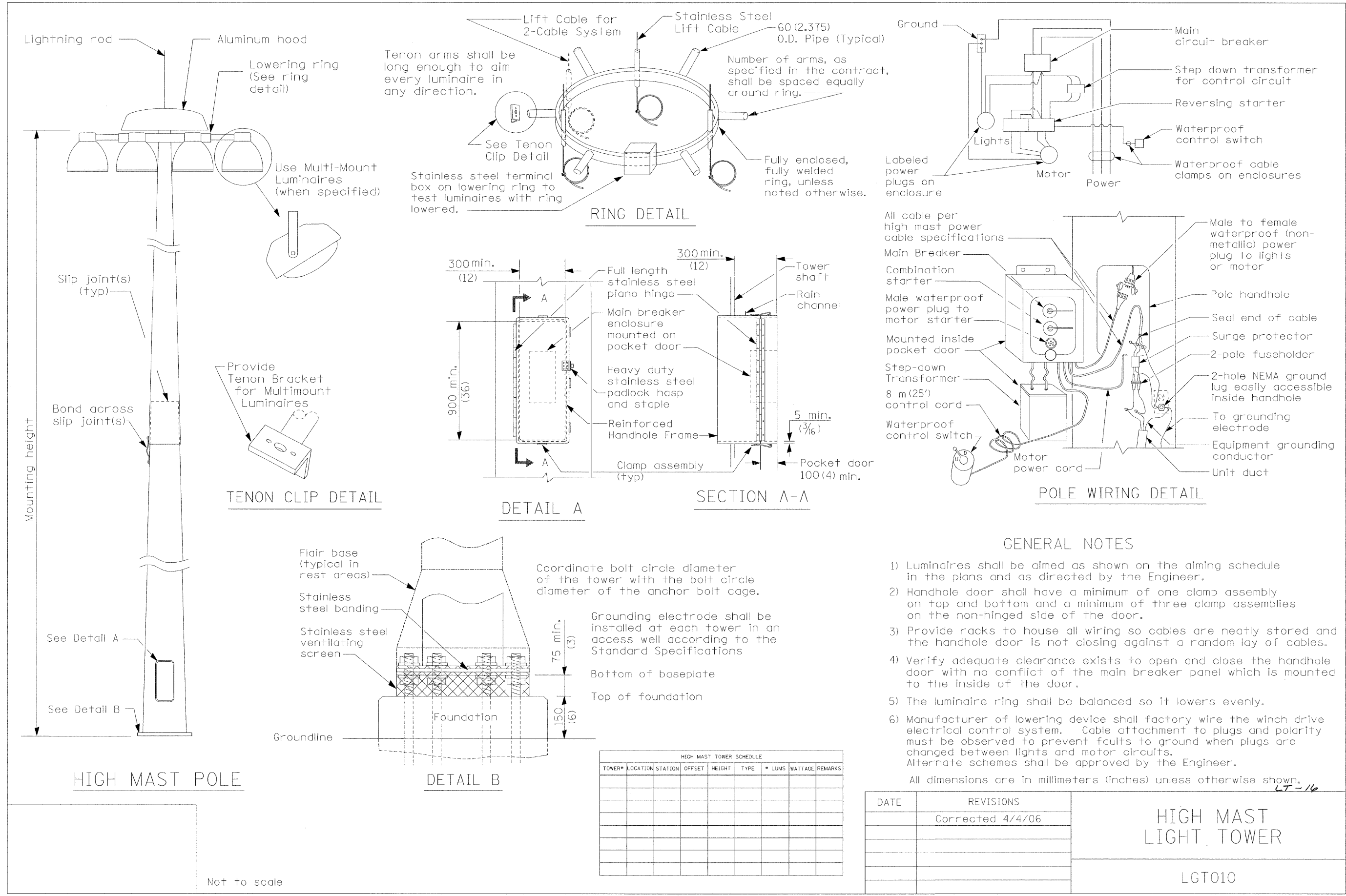
POLE HANDHOLE WIRING

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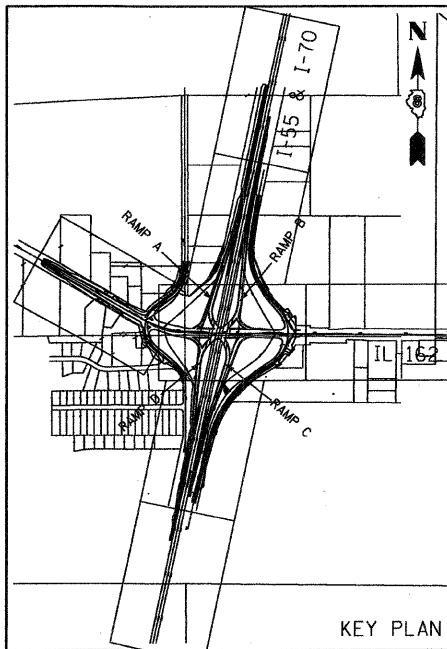
LGT008A.DGN

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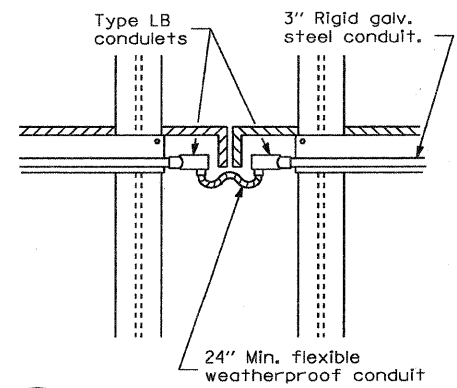




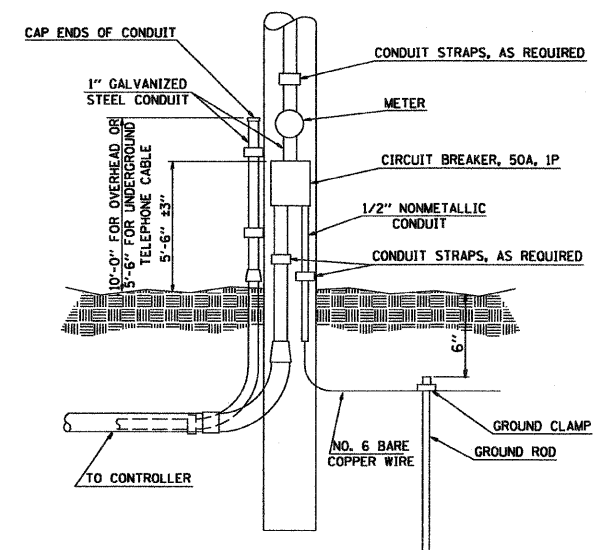
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10 (K-1,HB)	MADISON	420	194
STA.		TO STA.		
CONTRACT NO.: 76709				



ABBREVIATIONS	
ATS	ATTACHED TO STRUCTURE
CCO	CALL CARRY OVER
CD	CALL DELAY
CT	COMMON TRENCH
EC	EMBEDDED CONDUIT
GSC	GALVANIZED RIGID STEEL CONDUIT
GRS	
RCS	
DIA.	DIAMETER
FT.	FOOT
IN.	INCH
N.T.S.	NOT TO SCALE
TBR	TO BE REMOVED
U.N.O.	UNLESS NOTED OTHERWISE



TS-01  
2  
EXPANSION JOINT DETAIL  
NOT TO SCALE  
(USE SAME METHOD TO BYPASS OTHER OBSTRUCTIONS)



TS-01  
1  
SERVICE INSTALLATION TYPE A MODIFIED  
NOT TO SCALE

**GENERAL NOTES - TRAFFIC SIGNALS**

- ALL SIGNAL HEADS SHALL BE POLYCARBONATE WITH 12" LENSES. MOUNTING SHALL BE UNPAINTED ALUMINUM. THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTORS.
- BACKPLATES SHALL BE ABS PLASTIC.
- THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLE SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLES.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER, UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- ALL INDUCTION LOOP DETECTOR AMPLIFIERS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE. THEY SHALL BE RACK MOUNTED.
- SLOPE HANDHOLE COVERS TO MATCH THE PROPOSED GRADE ELEVATION. ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(B)). THE CAST-IN-PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC".
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS.
- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J. U. L. I. E. AT (800) 892-0123 OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
- LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
- ABANDON EXISTING CONDUITS AND CABLES AS SHOWN ON THE PLANS. ENDS OF EXISTING CONDUIT TO BE ABANDONED SHALL BE PLUGGED TO PREVENT WATER SEEPAGE.
- THE CONTRACTOR SHALL FABRICATE, DELIVER, AND INSTALL STREET NAME SIGNS AT THE SPECIFIED LOCATIONS. THE SIGNS AND INSTALLATION SHALL CONFORM TO SECTION 720 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL ITEMS AND STANDARD 720016.
- THE CONTRACTOR SHALL INSTALL THE STREET NAME SIGNS ON THE MAST ARMS AS SHOWN ON PLANS.
- CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY. CONDUIT SPLICES WILL BE CONSIDERED PART OF THE NEW INSTALLATION.

**SHEET INDEX - TRAFFIC SIGNALS**

TS-01	TRAFFIC SIGNALS GENERAL NOTES, LEGENDS, SHEET INDEX, & DETAILS
TS-02	TRAFFIC SIGNALS SCHEDULE OF QUANTITIES
TS-03	PROPOSED TRAFFIC SIGNALS PLAN IL 162 @ FORMOSA RD./FRONTAGE RD.
TS-04	PROPOSED TRAFFIC SIGNALS CABLE PLAN IL 162 @ FORMOSA RD./FRONTAGE RD.
TS-05	PROPOSED TRAFFIC SIGNALS PLAN IL 162 @ I-55/70 SPDI
TS-06	PROPOSED TRAFFIC SIGNALS CABLE PLAN IL 162 @ I-55/70 SPDI
TS-07	PROPOSED TRAFFIC SIGNALS PLAN IL 162 @ LIEBLER RD./FORMOSA RD.
TS-08	PROPOSED TRAFFIC SIGNALS CABLE PLAN IL 162 @ LIEBLER RD./FORMOSA RD.
TS-09	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT, HANDHOLES & CONCRETE FOUNDATIONS
TS-10	MONOTUBE SIGNAL STRUCTURE

**SHEET INDEX - ASSORTED STRUCTURAL DRAWINGS**

1 OF 4	MONOTUBE SPAN STRUCTURE ELEVATIONS, NOTES & CAMBER DETAILS
2 OF 4	MONOTUBE SPAN STRUCTURE GENERAL PLAN & ELEVATION
3 OF 4	MONOTUBE SPAN STRUCTURE BASE PLATE & ARM CONNECTION DETAILS
4 OF 4	MONOTUBE SPAN STRUCTURE BASE PLAT & ARM CONNECTION DETAILS
S-16 OF S-68	DECK PLAN - IL 162
S-21 OF S-68	DECK CROSS SECTION - IL 162
S-25 OF S-68	ELECTRICAL DETAILS
S-26 OF S-68	NORTH & SOUTH ISLAND DETAILS
S-59 OF S-68	PIER PLAN & ELEVATIONS - STAGE 1
S-60 OF S-68	PIER PLAN & ELEVATIONS - STAGE 2
S-61 OF S-68	PIER DETAILS

LEGEND	PROPOSED	EXISTING
SERVICE INSTALLATION		
GROUND CABLE AND GROUNDING ROD		
GROUNDING CONNECTION		
CONDUIT SPLICE		
CABLE		
GALVANIZED STEEL CONDUIT (T) INDICATES IN TRENCH (P) INDICATES PUSHED		
HANDHOLE		
DOUBLE HANDHOLE		
JUNCTION BOX		
LIGHTING CONTROLLER		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
DETECTOR LOOP		
ADVANCED DETECTOR LOOP INTERCONNECT SYSTEMS DETECTOR LOOP		
SIGN ON SIGNAL POLE / MAST ARM		
DETECTOR LOOP LEAD-IN SPLICE		
NUMBER OF CONDUCTORS OR FIBER OPTIC STRANDS		
GEOMETRICALLY PROGRAMMED LOUVER (G.P.L.)		
LEFT TURN - GREEN		
LEFT TURN - YELLOW		
TRAFFIC SIGNAL SECTION 12" - GREEN		
SIGNAL FACE WITH BACKPLATE RED YELLOW GREEN YELLOW LEFT GREEN LEFT		

REVISIONS	
NAME	DATE

TS-01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SIGNALS, GENERAL  
NOTES, LEGENDS, SHEET INDEX,  
& DETAILS  
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: \_\_\_\_\_ CHECKED BY: A. OSHANA, P.E.

PLAN NO. 1  
 DATE 1/28/2009  
 BY ROBERT SWANSON  
 CHECKED BY  
 APPROVED BY

XXXXX.XXX - IDOT IL 162 over I-55, 70 revisions  
 236-TS-01.dgn  
 1/28/2009 5:11:33 PM  
 ROBERT SWANSON

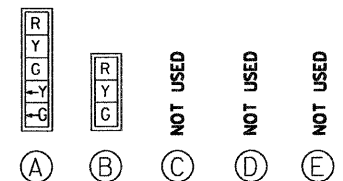




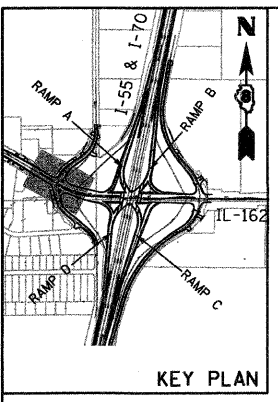
MAP SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-10 (K-1,HB)	MADISON	420	196
STA.	TO STA.			
CONTRACT NO.: 76709				

**TRAFFIC SIGNALS LEGEND**

- PROPOSED
- CONTROLLER
  - SERVICE INSTALLATION
  - GALVANIZED STEEL CONDUIT  
(T) INDICATES IN TRENCH  
(P) INDICATES PUSHED
  - HANDHOLE
  - DOUBLE HANDHOLE
  - SIGNAL POST
  - MAST ARM ASSEMBLY AND POLE, STEEL
  - SIGNAL HEAD
  - SIGNAL HEAD WITH BACKPLATE
  - SIGN ON SIGNAL POLE / MAST ARM
  - DETECTOR LOOP
  - ADVANCED DETECTOR LOOP  
INTERCONNECT SYSTEMS DETECTOR LOOP

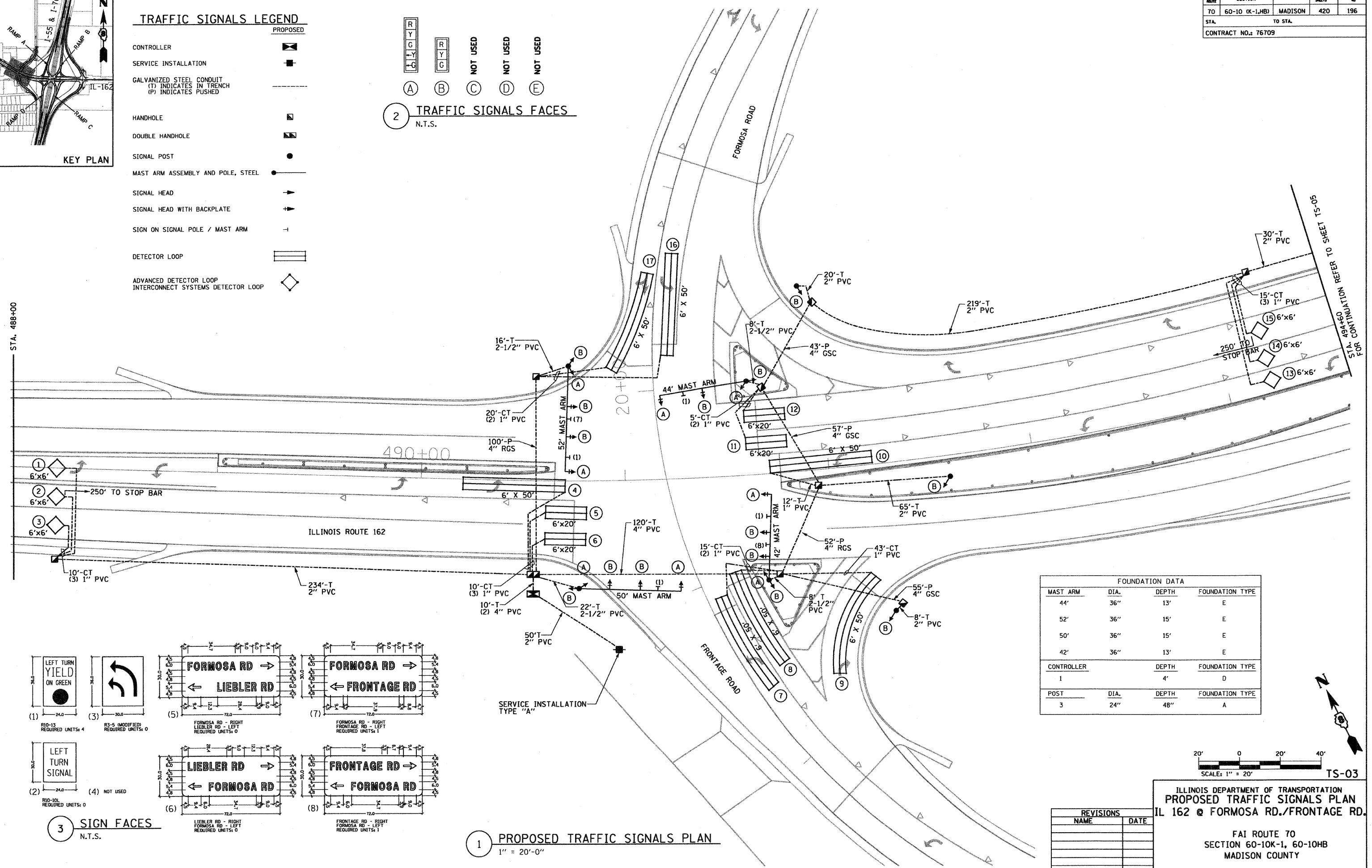


**2 TRAFFIC SIGNALS FACES**  
N.T.S.

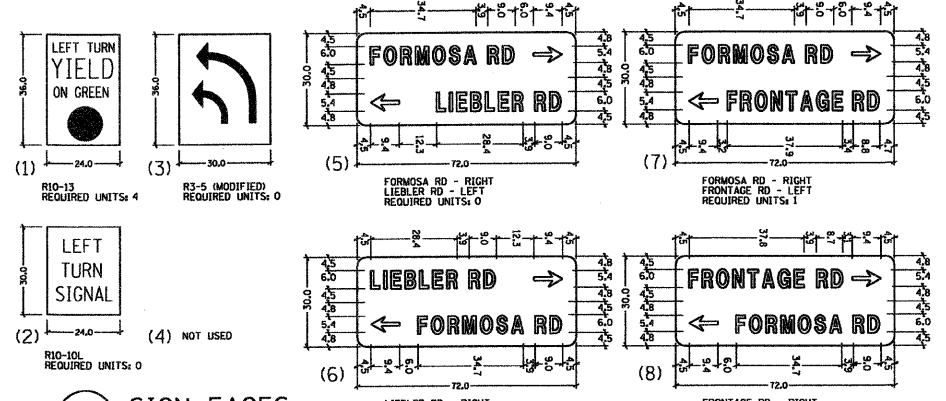


DATE	BY	REVISION

STA. 488+00

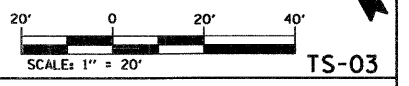


MAST ARM	DIA.	DEPTH	FOUNDATION TYPE
44'	36"	13'	E
52'	36"	15'	E
50'	36"	15'	E
42'	36"	13'	E
CONTROLLER	DEPTH		FOUNDATION TYPE
1	4'		D
POST	DIA.	DEPTH	FOUNDATION TYPE
3	24"	48"	A



**3 SIGN FACES**  
N.T.S.

**1 PROPOSED TRAFFIC SIGNALS PLAN**  
1" = 20'-0"



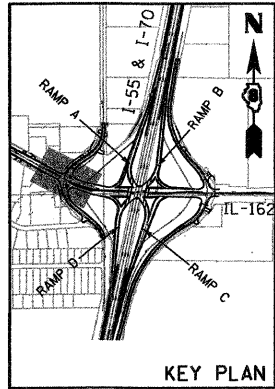
REVISIONS	
NAME	DATE

TS-03  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
PROPOSED TRAFFIC SIGNALS PLAN  
IL 162 @ FORMOSA RD./FRONTAGE RD.

FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY  
DRAWN BY: RPJ CHECKED BY: A. OSHANA, P.E.

XXXX.XXX - IDOT IL 162 over I-55, 70 revisions  
 236-15-03 West\_Plan.dgn  
 1/28/2009 5:14:30 PM  
 Robert Swanson

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60-10 (K-1)HB	MADISON	420	197
STA. TO STA.		CONTRACT NO.: 76709	



PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	↙	→	↘	↓	↑	←	↘	↑
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

**PHASE DESIGNATION LEGEND**

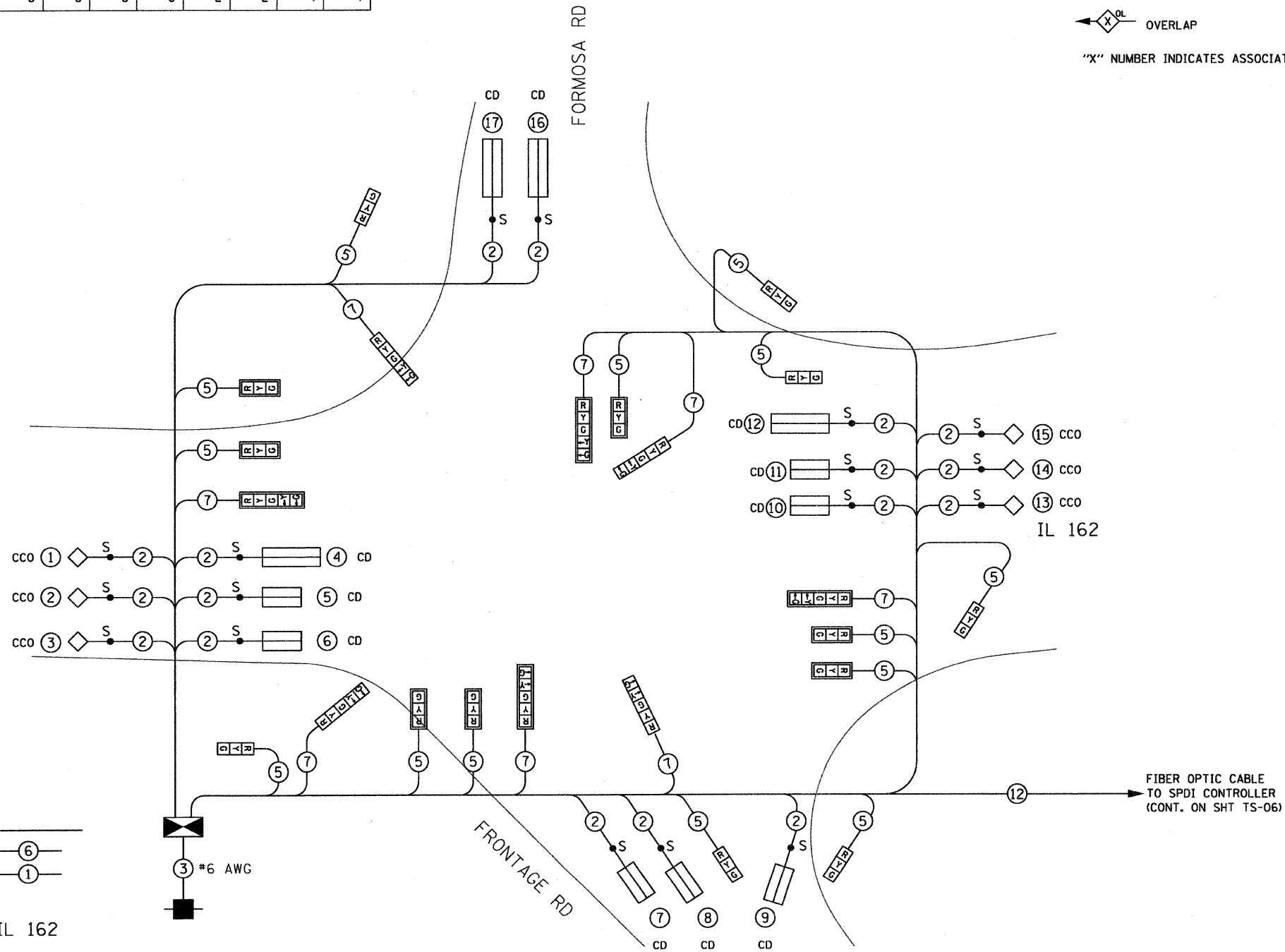
- SINGLE ENTRY PHASE
  - DUAL ENTRY PHASE
  - OVERLAP
- "X" NUMBER INDICATES ASSOCIATED PHASE

**CABLE PLAN LEGEND**

- CONTROLLER
- SERVICE INSTALLATION
- DETECTOR LOOPS
- DETECTOR LOOP LEAD-IN SPLICE
- NUMBER OF CONDUCTORS OR FIBER OPTIC STRANDS
- LEFT TURN - YELLOW
- LEFT TURN - GREEN
- TRAFFIC SIGNAL SECTION 12" - GREEN
- GEOMETRICALLY PROGRAMMED LOUVER (G.P.L.)
- SIGNAL FACE WITH BACKPLATE
  - RED
  - YELLOW
  - GREEN
  - YELLOW LEFT
  - GREEN LEFT
- CALL DELAY
- CALL CARRY OVER

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS IL-162 @ WEST FRONTAGE ROAD						
LOOP No. (3)	PHASE	LOOP SIZE	NO. OF TURNS	INDUCTANCE (MICROHENRIES)	RESISTANCE (OHMS)	
1	2	6'x6'	5	241	2.3	
2	2	6'x6'	5	238	2.2	
3	2	6'x6'	5	238	2.1	
4	5	6'x50' 0	3-6-3	347	2.6	
5	2	6'x20' 0	4-8-4	267	1.6	
6	2	6'x20' 0	4-8-4	266	1.6	
7	3	6'x50' 0	3-6-3	365	3.3	
8	8	6'x50' 0	3-6-3	367	3.2	
9	8	6'x50' 0	3-6-3	367	3.3	
10	1	6'x50' 0	3-6-3	381	3.5	
11	6	6'x20' 0	4-8-4	397	3.2	
12	6	6'x20' 0	4-8-4	396	3.1	
13	6	6'x6'	5	307	4.1	
14	6	6'x6'	5	309	4.1	
15	6	6'x6'	5	309	4.0	
16	7	6'x50' 0	3-6-3	377	3.4	
17	4	6'x50' 0	3-6-3	374	3.3	

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES



FIBER OPTIC CABLE TO SPDI CONTROLLER (CONT. ON SHT TS-06)

1 PROPOSED TRAFFIC SIGNALS CABLE PLAN  
N.T.S.

2 PHASE DESIGNATION DIAGRAM  
N.T.S.

REVISIONS	
NAME	DATE

TS-04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PROPOSED TRAFFIC SIGNALS  
CABLE PLAN  
IL 162 @ FORMOSA RD./FRONTAGE RD.  
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY

DRAWN BY: RPJ      CHECKED BY: A. OSHANA, P.E.

DATE	BY	REVISION

XXXXXX - DOT IL 162 over I-55.70 revisions  
236-TS-04-West-Cable.dgn  
1/28/2009 5:15:48 PM  
Robert Swanson

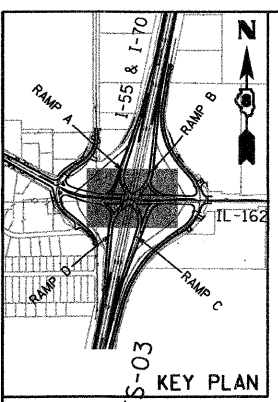
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60-10 (K-1,HB)	MADISON	420	198
CONTRACT NO.: 76709			

FOUNDATION DATA			
MAST ARM	DIA.	DEPTH	FOUNDATION TYPE
2-16"	30"	10'	E
POST	DIA.	DEPTH	FOUNDATION TYPE
6-14"	24"	6'	A
FOUNDATION IN BRIDGE DECK, SPECIAL			
CONTROLLER	DEPTH	FOUNDATION TYPE	
1	4"	D	

NOTE:  
1. REFER TO SHEET TS-10 FOR SIGNAL MOUNTING ON MONOTUBE

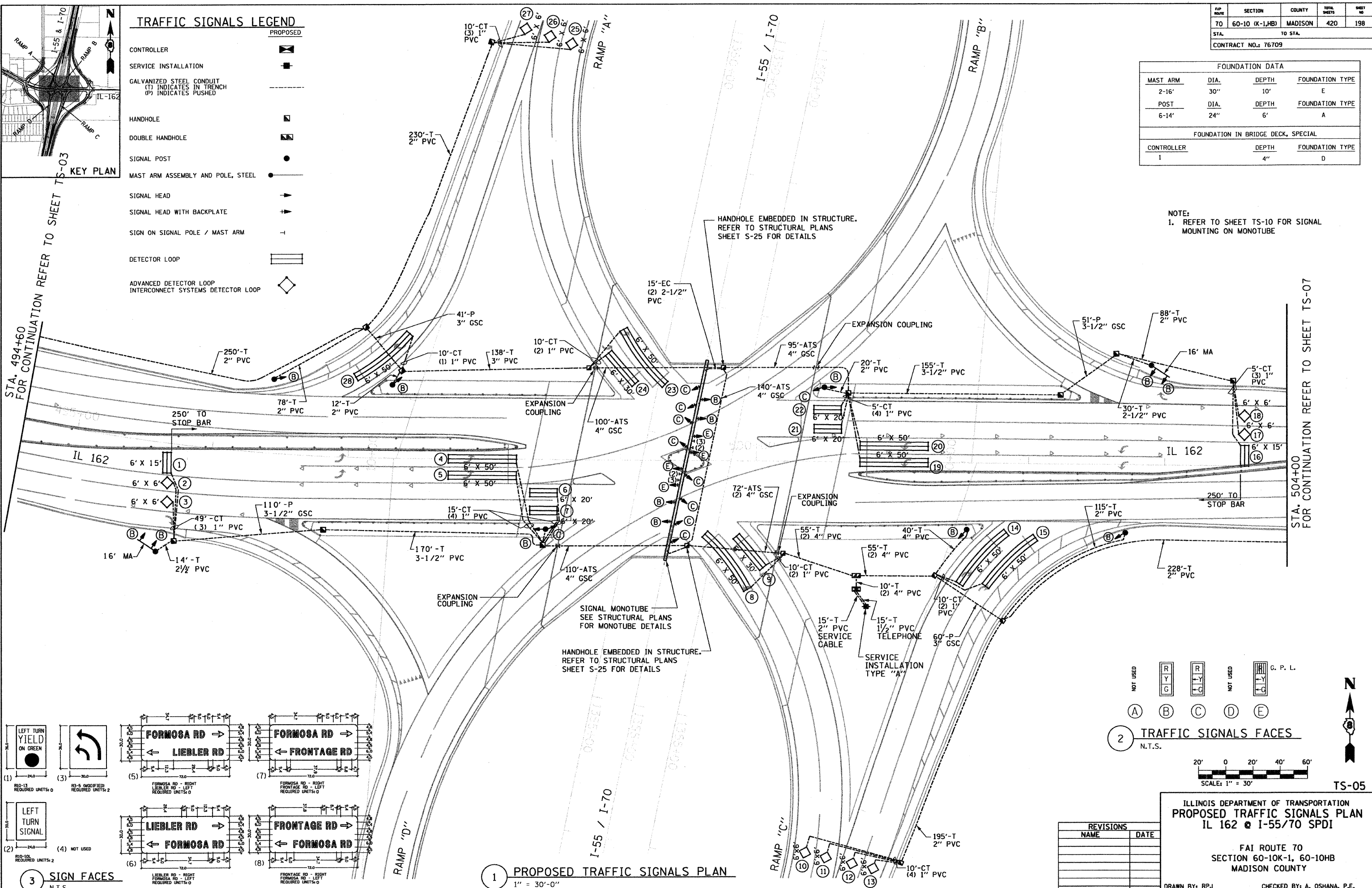
### TRAFFIC SIGNALS LEGEND

- PROPOSED**
- CONTROLLER
  - SERVICE INSTALLATION
  - GALVANIZED STEEL CONDUIT (T) INDICATES IN TRENCH (P) INDICATES PUSHED
  - HANDHOLE
  - DOUBLE HANDHOLE
  - SIGNAL POST
  - MAST ARM ASSEMBLY AND POLE, STEEL
  - SIGNAL HEAD
  - SIGNAL HEAD WITH BACKPLATE
  - SIGN ON SIGNAL POLE / MAST ARM
  - DETECTOR LOOP
  - ADVANCED DETECTOR LOOP INTERCONNECT SYSTEMS DETECTOR LOOP



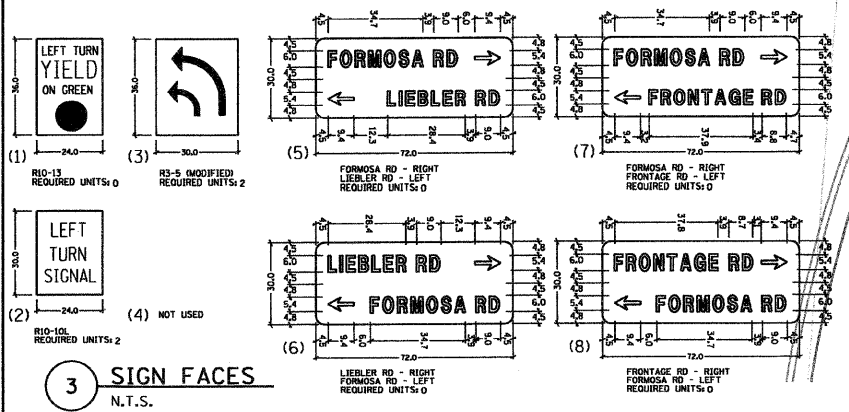
STA. 494+60 FOR CONTINUATION REFER TO SHEET TS-03

STA. 504+00 FOR CONTINUATION REFER TO SHEET TS-07



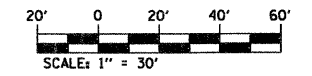
DATE	BY	REVISION

XXXXXX - 1001 IL 162 over I-55.70 revisions  
235-TS-05-Center\_Plan.dgn  
1/28/2009 5:19:57 PM  
Robert Swanson



1 PROPOSED TRAFFIC SIGNALS PLAN  
1" = 30'-0"

2 TRAFFIC SIGNALS FACES  
N.T.S.



REVISIONS	
NAME	DATE

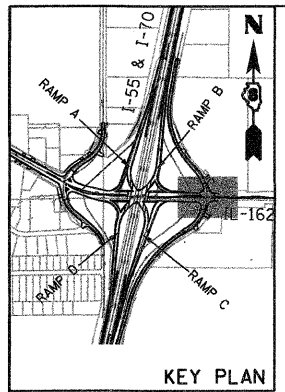
ILLINOIS DEPARTMENT OF TRANSPORTATION  
PROPOSED TRAFFIC SIGNALS PLAN  
IL 162 @ I-55/70 SPDI  
FAI ROUTE 70  
SECTION 60-10K-1, 60-10HB  
MADISON COUNTY  
DRAWN BY: RPJ CHECKED BY: A. OSHANA, P.E.

TS-05



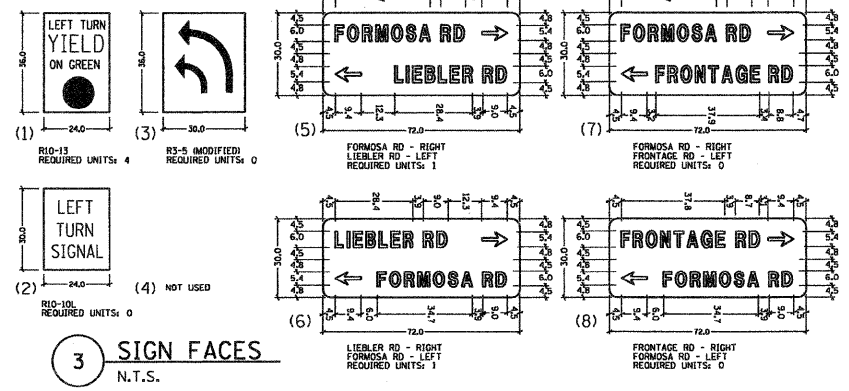
DATE	BY	REVISION

XXXXX.XXX - 100T IL 162 over I-55.70 revisions  
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 Robert L Swanson

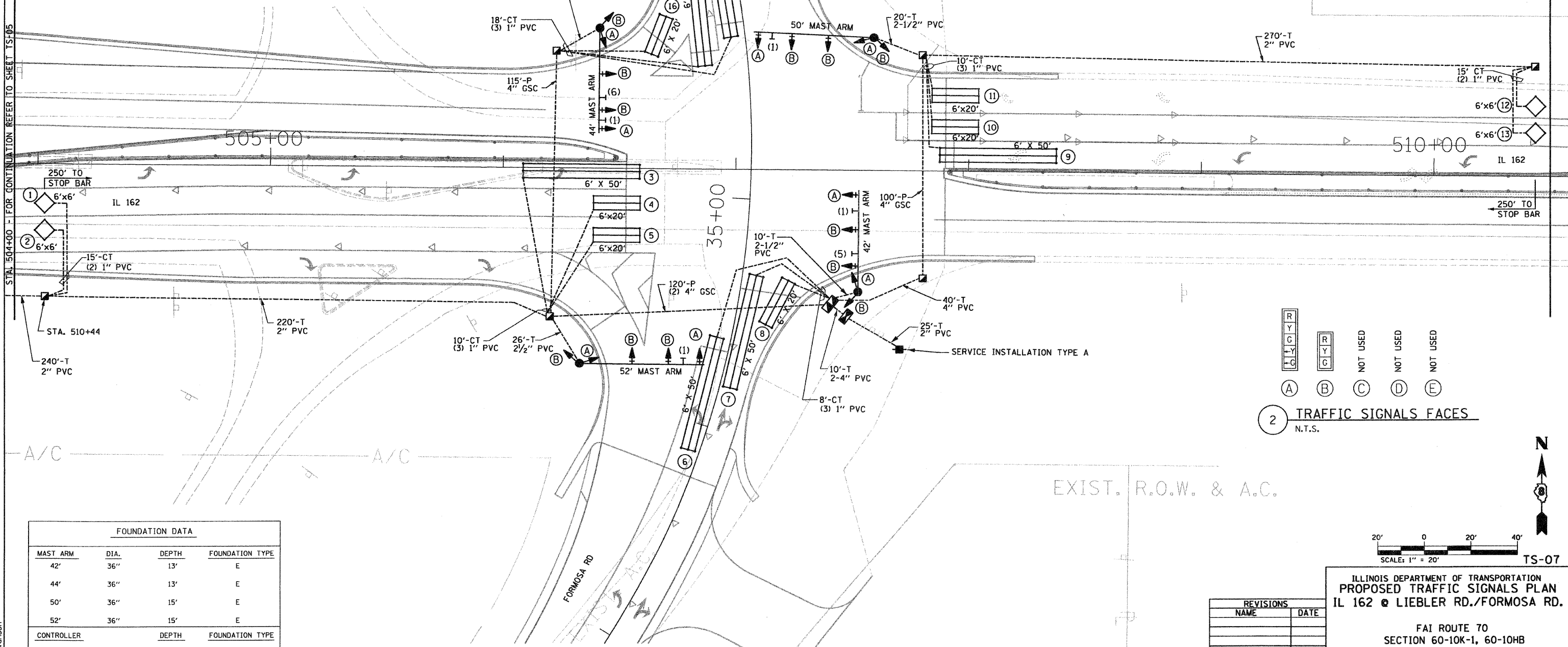


**TRAFFIC SIGNALS LEGEND**

- PROPOSED
- CONTROLLER [Symbol]
  - SERVICE INSTALLATION [Symbol]
  - GALVANIZED STEEL CONDUIT (T) INDICATES IN TRENCH (P) INDICATES PUSHED
  - HANDHOLE [Symbol]
  - DOUBLE HANDHOLE [Symbol]
  - SIGNAL POST [Symbol]
  - MAST ARM ASSEMBLY AND POLE, STEEL [Symbol]
  - SIGNAL HEAD [Symbol]
  - SIGNAL HEAD WITH BACKPLATE [Symbol]
  - SIGN ON SIGNAL POLE / MAST ARM [Symbol]
  - DETECTOR LOOP [Symbol]
  - ADVANCED DETECTOR LOOP INTERCONNECT SYSTEMS DETECTOR LOOP [Symbol]

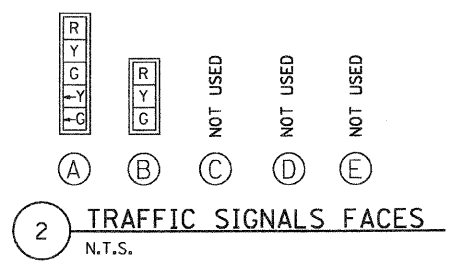


APP. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-10 (K-1,HB)	MADISON	420	200
STA. 504+00		TO STA. 510+50		
CONTRACT NO.: 76709				

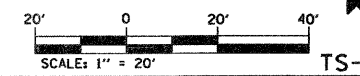


FOUNDATION DATA			
MAST ARM	DIA.	DEPTH	FOUNDATION TYPE
42'	36"	13'	E
44'	36"	13'	E
50'	36"	15'	E
52'	36"	15'	E
CONTROLLER	DEPTH	FOUNDATION TYPE	
1	4'	D	

1 PROPOSED TRAFFIC SIGNALS PLAN  
 1" = 20'-0"



2 TRAFFIC SIGNALS FACES  
 N.T.S.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROPOSED TRAFFIC SIGNALS PLAN  
 IL 162 @ LIEBLER RD./FORMOSA RD.  
 FAI ROUTE 70  
 SECTION 60-10K-1, 60-10HB  
 MADISON COUNTY  
 DRAWN BY: RPJ CHECKED BY: A. OSHANA, P.E.

STA. 510+50

TS-07