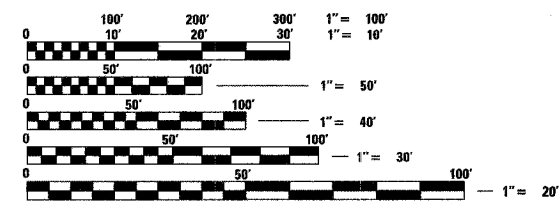


INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, AND LEGEND
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS - EXISTING
- 5 TYPICAL SECTIONS - PROPOSED
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- 8-12 MAINTENANCE OF TRAFFIC - ADVANCED WARNING SIGNS & STAGES OF CONSTRUCTION
- 13 PLAN AND PROFILE SHEETS
- 14-15 DRAINAGE SHEETS
- 16-17 INTERSECTION GEOMETRIC DETAIL SHEETS
- 18 PAVEMENT MARKING SHEETS
- 19 REMOVAL SHEETS
- 20-23 TRAFFIC SIGNAL SHEETS
- 24 MISCELLANEOUS DETAIL SHEET
- 25-28 CROSS SECTIONS

STANDARDS

STD. NO.	
000001-04	780001-01
001001	805001
001006	814001
280001-02	857001
420001-05	877001-02
420111-01	878001-03
420701-01	880006
424001-03	886001
442101-05	886006
602701	BLR 22-4
606001-02	
666001	
701301-02	
701311-02	
701501-03	
701606-04	
701701-04	
701801-03	
702001-05	
720016-01	



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

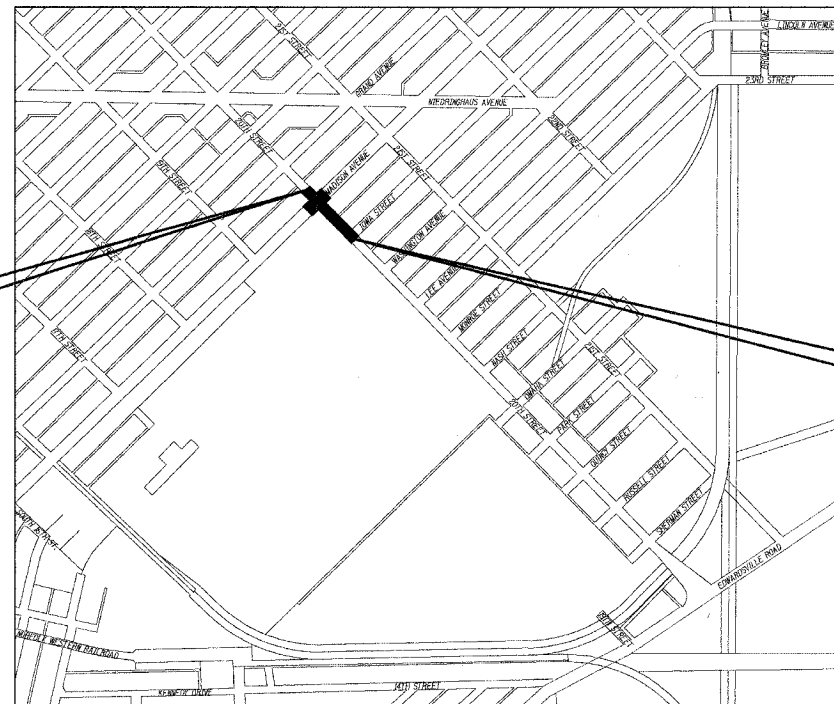
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

DESIGN DESIGNATION
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
ADT: 10,600 (2006) 14,575 (2026)
DHV: 1169 (2026)
DESIGN SPEED: 30 MPH

CONTRACT NO. 97251

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
CITY OF GRANITE CITY
F.A.U. 9089 (20TH STREET) RECONSTRUCTION
PHASE I
MADISON COUNTY
FEDERAL PROJECT NO. M-5011 (178)
JOB. NO. C-98-350-04
SECTION NO. 02-00180-01-PV

PLAN 1" = 20'
PROFILE HORIZ. 1" = 20'
PROFILE VERT. 1" = 5'
CROSS SECTIONS 1" = 10' HORIZ.
1" = 5' VERT.



BEGIN PROJECT
STATION 106 + 00.00

END PROJECT
STATION 110 + 34.87

LOCATION MAP
SCALE: 1" = 600'
NET LENGTH OF PROJECT: 434.87 FEET - 0.082 MILES
SECTION 19, T. 3 N., R. 9 W., 3RD P.M.



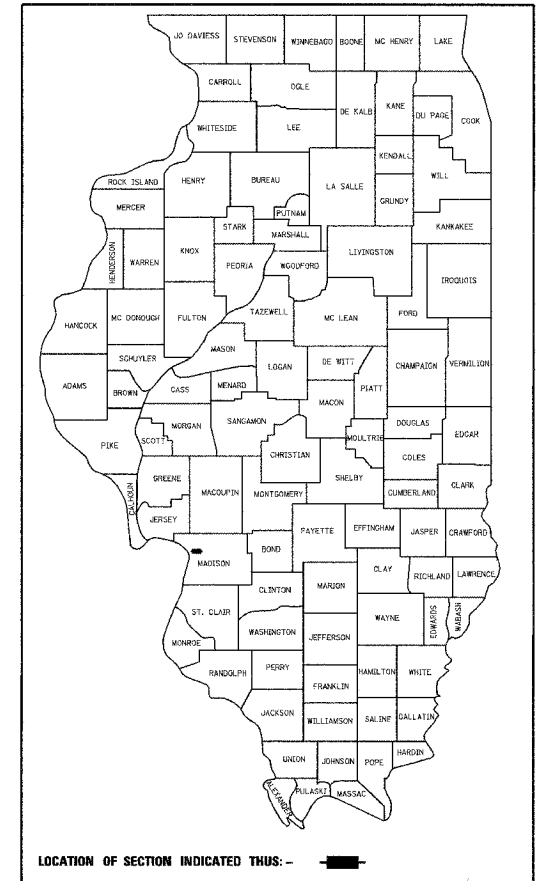
Expires 11-30-05

Brian F. Kulick 3/15/05
BRIAN F. KULICK, P.E. No. 49936 DATE
(Printed by Authority of the State of Illinois)
Job No. E030204



Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1325
Granite City, Illinois 62040
Phone: (618) 877-1400 / (618) 452-5535
Fax: (618) 452-5541
100 North Research Drive
Edwardsville, Illinois 62025
Phone: (618) 659-0900 / (618) 659-0800
Fax: (618) 659-0841

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	1
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97251				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *March 15 20 05*
Carol J. [Signature]
LOCAL AGENCY OFFICIAL

PASSED *April 8 20 05*
Jennifer Obayendo
LOCAL ROADS AND STREETS ENGINEER

APPROVED *April 9 20 05*
Mary C. Lamie
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	601
20800150	TRENCH BACKFILL	CU YD	301
28000500	INLET AND PIPE PROTECTION	EACH	13
30200650	PROCESSING MODIFIED SOILS 12"	SQ YD	2995
30201500	LIME	TON	74
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	2995
35101400	AGGREGATE BASE COURSE, TYPE B	TON	117
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	32
40600990	TEMPORARY RAMP	SQ YD	524
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	2769
42001200	PAVEMENT FABRIC	SQ YD	2769
42001300	PROTECTIVE COAT	SQ YD	3487
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	81
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	4106
44000100	PAVEMENT REMOVAL	SQ YD	3078
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	126
44000300	CURB REMOVAL	FOOT	839
44000600	SIDEWALK REMOVAL	SQ FT	2900
44003100	MEDIAN REMOVAL	SQ FT	1028
55080070	STORM SEWERS, CLASS B, TYPE 1, 15"	FOOT	218
55080090	STORM SEWERS, CLASS B, TYPE 1, 18"	FOOT	63
55080110	STORM SEWERS, CLASS B, TYPE 1, 21"	FOOT	75
55080340	STORM SEWERS, CLASS B, TYPE 2, 12"	FOOT	79
55080360	STORM SEWERS, CLASS B, TYPE 2, 15"	FOOT	34
55080380	STORM SEWERS, CLASS B, TYPE 2, 18"	FOOT	44
55080400	STORM SEWERS, CLASS B, TYPE 2, 21"	FOOT	63
55080410	STORM SEWERS, CLASS B, TYPE 2, 24"	FOOT	75
55100300	STORM SEWER REMOVAL, 8"	FOOT	30
55100500	STORM SEWER REMOVAL, 12"	FOOT	33
60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2
60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	11
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4

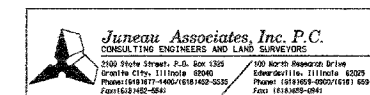
SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
60500060	REMOVING INLETS	EACH	2
60500305	FILLING INLETS	EACH	5
60600605	CONCRETE CURB, TYPE B	FOOT	96
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	594
60605900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12	FOOT	290
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
* 70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1650
* 70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	270
* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3258
* 70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	580
* 70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	162
* 70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	543
72000100	SIGN PANEL-TYPE 1	SQ FT	19
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1542
* 78002100	PREFORMED PLASTIC PAVEMENT MARKING, TYPE A - LETTERS AND SYMBOLS	SQ FT	270
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1824
* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	580
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	162
* 80500100	SERVICE INSTALLATION, TYPE A	EACH	1
* 81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	76
* 81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	10
* 81400400	CONCRETE HANDHOLE	EACH	1
* 81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	86
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	895
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	966
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1629
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	560
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1020
* 87301815	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 3C	FOOT	22
* 87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
* 87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1

*Specialty Item

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
* 87900100	DRILL EXISTING FOUNDATION	EACH	1
* 87900200	DRILL EXISTING HANDHOLE	EACH	9
* 88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	8
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	10
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1819
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1480
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
XX004949	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE	TON	38
XX004951	CONCRETE STAIRS	L SUM	1
* X0301183	GEOMETRICALLY PROGRAMMED LOUVER	EACH	2
* X0323336	LED SIGNAL FACE RETROFIT, RED BALL	EACH	6
* X0323337	LED SIGNAL FACE RETROFIT, GREEN BALL	EACH	6
* X0323418	LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	6
* X0323420	LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	2
* X0323421	LED SIGNAL FACE RETROFIT, WALK SIGNAL	EACH	1
* X0323422	LED SIGNAL FACE RETROFIT, DON'T WALK SIGNAL	EACH	1
* X8801310	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
* X8801350	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
* X8801415	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
* X8810395	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1 FACE, BRACKET MOUNTED	EACH	3
* X8810495	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2 FACE, BRACKET MOUNTED	EACH	2
* X8880010	ADA PEDESTRIAN PUSH-BUTTON	EACH	8
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	250
XX104100	CONNECTION TO EXISTING MANHOLE	EACH	3



SUMMARY OF QUANTITIES
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

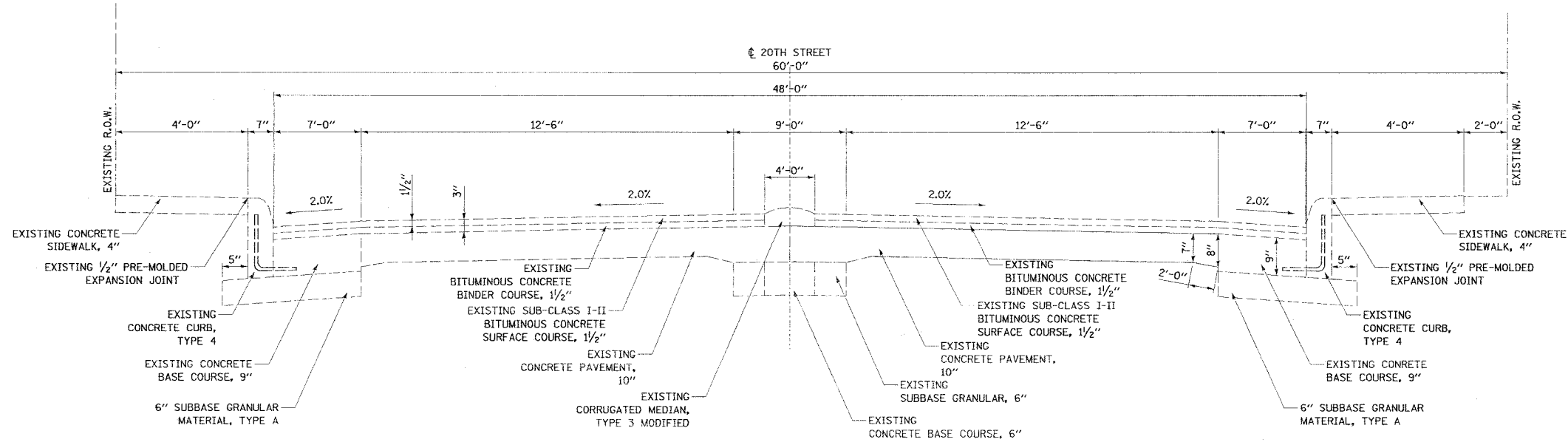
REVISIONS			
NO.	DATE	BY	REMARKS

DSN. BY: BFK	DATE: 2/18/05	SHEET 3
DWN. BY: JJB	DATE: 2/18/05	
CHKD: BFK	DATE: 2/18/05	
DWG. NO.	JOB NO. 030204	DGN. NAME: SUMQTY OF 28 SHTS

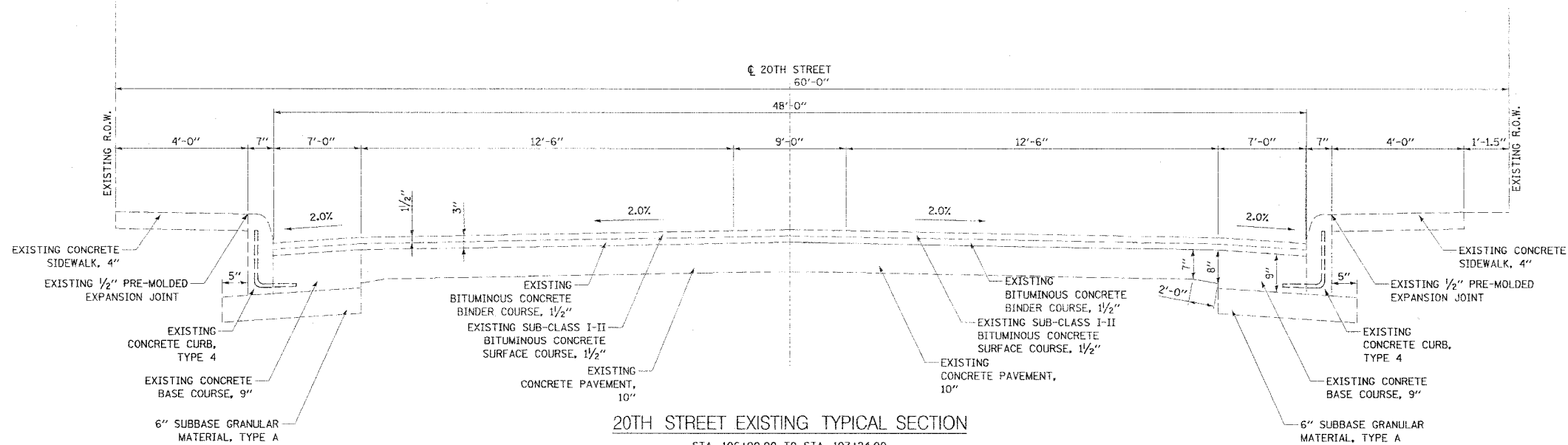
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	4
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97251				

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

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



20TH STREET EXISTING TYPICAL SECTION
 STA. 107+24.00 TO STA. 109+70.00
 (NOT TO SCALE)



20TH STREET EXISTING TYPICAL SECTION
 STA. 106+00.00 TO STA. 107+24.00
 STA. 109+70.00 TO STA. 110+34.87
 (NOT TO SCALE)

Junau Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 2300 Stone Street, P.O. Box 1325
 Granite City, Illinois 62040
 Phone: (618) 377-4400 / (618) 377-5222
 Fax: (618) 377-5211

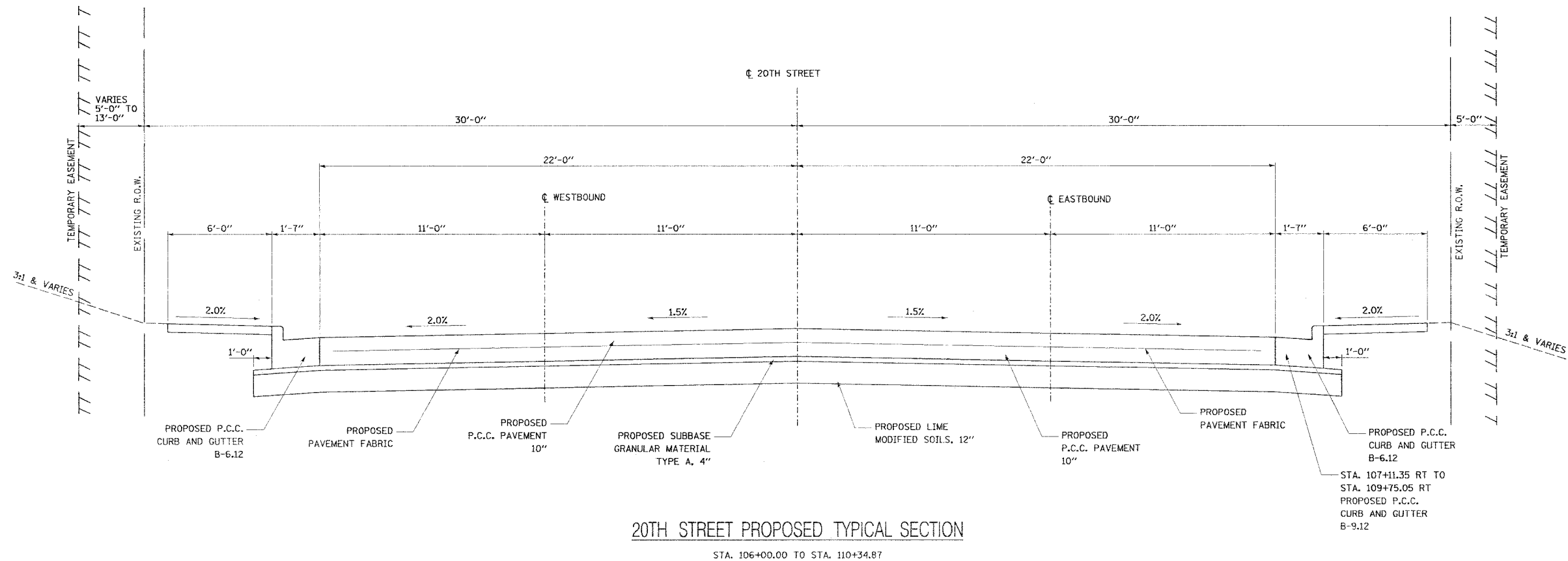
EXISTING TYPICAL SECTIONS
 F.A.U. ROUTE 9089
 20TH STREET (PHASE I)
 GRANITE CITY, ILLINOIS
 SECTION No. 02-00180-01-PV

REVISIONS				SCALE:	
NO.	DATE	BY	REMARKS	N.T.S.	
				DSN. BY:	BFK DATE: 2/18/05
				DWN. BY:	WRC DATE: 2/18/05
				CHKD:	BFK DATE: 2/18/05
DWG. NO.				JOB NO.	E030204
				DGN. NAME:	11P-EX
				OF 28 SHTS	4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	5
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 91251				

FINAL SURVEYED SURVEY PLOTTED NOTE BOOK TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEYED SURVEY PLOTTED NOTE BOOK TEMPLATE AREAS CHECKED	BY	DATE



20TH STREET PROPOSED TYPICAL SECTION
STA. 106+00.00 TO STA. 110+34.87

NOTE:
MAXIMUM TRANSVERSE JOINT SPACING FOR 10" P.C.C. PAVEMENT IS 15.0'.

<p>20TH STREET STRUCTURAL DESIGN TRAFFIC</p> <p>STRUCTURAL DESIGN TRAFFIC DESIGN YEAR: 2006 DESIGN YEAR ADT: 12430</p> <p>ROAD/STREET CLASSIFICATION: CLASS I</p> <p>PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE PV = 50% SU = 50% MU 50%</p> <p>TRAFFIC FACTOR = 3.99</p> <p>MINIMUM SOIL SUPPORT IBS = 3.0 (ASSUMED)</p> <p>PAVEMENT STRUCTURE MATERIALS:</p> <p>RIGID PAVEMENT - 10" JOINTED REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 4" GRANULAR SUB-BASE</p>
--

Jureau Associates, Inc. P.C.
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2100 State Street, P.O. Box 1325
Granite City, Illinois 62040
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100 North Research Drive
Granite City, Illinois 62040
Phone: (618) 957-0500 FAX: (618) 957-0541

PROPOSED TYPICAL SECTIONS
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: N.T.S.		SHEET	
DSN. BY: SAS	DATE: 2/18/05	5	
DWN. BY: SAS	DATE: 2/18/05		
CHK'D: BFK	DATE: 2/18/05		
DWG. NO. E030204	DEN. NAME: TYP-PROP	OF 28 SHTS	

PAVING SCHEDULE

LOCATION	PROCESS MODIFIED SOILS 12 IN (SQ YD)	LIME (TON)	PC CONC PAVEMENT 10 IN (SQ YD)	SUB BASE GRANULAR TY A 4 IN (SQ YD)	PAVEMENT FABRIC (SQ YD)	3" INCIDENTAL BIT SURF, SP (TON)	TYPE B-10" AGG BASE CSE (TON)	BIT MATL PR CT (GALLON)
20TH STREET-PHASE 1								
STA. 106+00.00 TO STA. 110+34.87	2995.4	74.1	2769.4	2995.4	2769.4			
STA. 110+34.87 TO STA. 110+59.87						21.8	74	32.4
TOTAL	2995	74	2769	2995	2769	22	74	32

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-) (CU YD)
20TH STREET-PHASE 1				
STA. 106+00.00 TO STA. 110+34.87	601	451	14	+437
TOTAL	601	451	14	+437

STORM SEWER SCHEDULE

LOCATION	RCCP TYPE 1 CLASS B (FOOT)			RCCP TYPE 2 CLASS B (FOOT)				TRENCH BACKFILL (CU YD)	
	15"	18"	21"	12"	15"	18"	21"		24"
20TH STREET-PHASE 1									
STA. 106+27.31 - 22.80' RT TO STA. 106+27.00 - 23.12' LT		43						8	
STA. 107+23.23 - 43.74' RT TO STA. 107+49.92 - 28.93' RT				28				9	
STA. 106+27.00 - 23.12' LT TO STA. 107+32.94 - 23.12' LT		103						20	
STA. 107+32.94 - 23.12' LT TO STA. 107+69.93 - 23.12' LT					34			14	
STA. 107+49.92 - 28.93' RT TO STA. 108+24.04 - 22.78' RT								30	
STA. 107+69.93 - 23.12' LT TO STA. 108+35.62 - 23.12' LT		63						24	
STA. 108+24.13 - 22.45' RT TO STA. 109+01.98 - 22.44' RT			75					58	
STA. 108+35.62 - 23.14' LT TO STA. 108+24.04 - 22.78' RT					44			13	
STA. 109+02.05 - 22.44' RT TO STA. 109+67.98 - 21.77' RT						63		56	
STA. 109+67.98 - 21.77' RT TO STA. 110+27.78 - 21.77' RT							56	53	
STA. 109+73.84 - 22.77' LT TO STA. 110+06.51 - 16.70' LT				27				3	
STA. 110+36.20 - 23.11' LT TO STA. 110+06.51 - 16.70' LT				24				3	
STA. 110+27.78 - 21.77' RT TO STA. 110+05.32 - 10.79' RT							19	10	
TOTAL	218	63	75	79	34	44	63	75	301

INLET PIPE PROTECTION SCHEDULE

LOCATION	DISTANCE	INLET PIPE PROTECTOR (EA)
20TH STREET-PHASE 1		
STA. 106+27.00 LT	23.12	1
STA. 106+27.31 RT	22.80	1
STA. 107+23.23 RT	43.74	1
STA. 107+32.94 LT	32.12	1
STA. 107+49.92 RT	28.93	1
STA. 107+69.93 LT	23.12	1
STA. 108+24.13 RT	22.45	1
STA. 108+35.63 LT	23.14	1
STA. 109+01.98 RT	22.44	1
STA. 109+67.98 RT	21.77	1
STA. 109+73.84 LT	23.11	1
STA. 110+36.20 LT	23.11	1
STA. 110+27.78 RT	21.77	1
TOTAL		13

COMBINATION CONCRETE CURB AND GUTTER

LOCATION	C & G TYPE B-6.12 (FOOT)	C & G TYPE B-9.12 (FOOT)	CURB TYPE B (FOOT)
20TH STREET-PHASE 1			
STA. 105+80.85-29.45' RT TO STA. 106+30.33-28.98' RT			50
STA. 105+58.48-25.54' RT TO STA. 106+34.01-23.00' RT	76		
STA. 106+34.01-23.00' RT TO STA. 106+49.00-40.27' RT	26		
STA. 107+11.35-73.97' RT TO STA. 107+50.72-29.40' RT		65	
STA. 107+50.72-29.40' RT TO STA. 108+05.16-23.00' RT		55	
STA. 108+05.16-23.00' RT TO STA. 109+75.05-23.00' RT		170	
STA. 109+75.05-23.00' RT TO STA. 109+78.95-32.00' RT	4		
STA. 109+78.95-23.00' RT TO STA. 109+87.95-32.00' RT	14		
STA. 110+07.88-32.00' RT TO STA. 110+16.88-23.00' RT	14		
STA. 110+16.88-23.00' RT TO STA. 110+34.87-23.00' RT	18		
STA. 110+34.87-23.00' RT TO STA. 110+59.87-24.13' RT			25
STA. 105+28.33-24.69' LT TO STA. 106+33.95-23.00' LT	106		
STA. 106+33.95-23.00' LT TO STA. 106+48.90-39.70' LT	25		
STA. 107+11.43-39.85' LT TO STA. 107+20.10-43.85' LT	11		
STA. 107+11.43-39.85' LT TO STA. 107+26.13-23.03' LT	25		
STA. 107+26.13-23.03' LT TO STA. 107+98.98-23.00' LT	73		
STA. 107+98.98-23.00' LT TO STA. 108+02.71-29.58' LT	9		
STA. 108+30.63-29.58' LT TO STA. 108+40.63-29.58' LT	19		
STA. 108+54.44-30.08' LT TO STA. 108+59.44-23.00' LT	10		
STA. 108+59.44-23.00' LT TO STA. 109+75.74-23.00' LT	116		
STA. 109+75.74-23.00' LT TO STA. 109+91.02-38.00' LT	24		
STA. 110+19.00-38.00' LT TO STA. 110+34.88-23.00' LT	24		
STA. 110+34.88-23.00' LT TO STA. 110+59.87-23.58' LT			21
TOTAL	594	290	96

PROTECTIVE COAT SCHEDULE

LOCATION	AREA (SQ YD)
20TH STREET-PHASE 1	
PORTLAND CEMENT CONCRETE PAVEMENT	2769
COMBINATION CURB AND GUTTER, B-6.12	196
DRIVEWAY PAVEMENT	81
4" PCC SIDEWALK	441
TOTAL	3487

ENTRANCE SCHEDULE

LOCATION	"W" WIDTH (FOOT)	"L" LENGTH (FOOT)	PCC DRIVEWAY PAVEMENT	BITUMINOUS DRIVEWAY PAVEMENT	
			8" (SQ YD)	3" INCIDENTAL BIT SURF, SP (TON)	TYPE B-8" AGG BASE CSE (TON)
20TH STREET-PHASE 1					
CE @ 108+17.97 LT	25.9	16.80	24.5	8.1	22.0
ALLEY @ 108+47.21 LT	11.8	18.48	35.9		
CE @ 109+98.50 RT	17.9	22.81	20.7	7.6	20.7
TOTAL			81	16	43

MANHOLE AND INLET SCHEDULE

LOCATION	MANHOLE TYPE A 4' DIA. TYPE 11 F&G (EACH)	INLET TYPE B	
		FLAT SLAB TOP TYPE 11 F&G (EACH)	TYPE 11 F&G (EACH)
20TH STREET-PHASE 1			
STA. 106+27.00 - 23.12' LT		1	
STA. 106+27.31 - 22.80' RT		1	
STA. 107+23.23 - 43.74' RT		1	
STA. 107+32.94 - 32.12' LT		1	
STA. 107+49.92 - 28.93' RT		1	
STA. 107+69.93 - 23.12' LT		1	
STA. 108+24.13 - 22.45' RT		1	
STA. 108+35.63 - 23.14' LT		1	
STA. 109+01.98 - 22.44' RT		1	
STA. 109+67.98 - 21.77' RT	1		
STA. 109+73.84 - 23.11' LT			1
STA. 110+36.20 - 23.11' LT		1	
STA. 110+27.78 - 21.77' RT	1		
TOTAL	2	10	1

TEMPORARY RAMP SCHEDULE

LOCATION	AREA (SQ YD)
20TH STREET-PHASE 1	
STA. 106+00.00 TO STA. 106+20.00	98
STA. 106+79.62 - 53.97' RT TO STA. 106+79.62 - 73.97' RT	134
STA. 106+80.17 - 19.70' LT TO STA. 103+80.17 - 39.70' LT	136
STA. 110+05.01 - 18.00' LT TO STA. 110+05.01 - 38.00' LT	58
STA. 110+14.87 TO STA. 110+34.87	98
TOTAL	524

SIDEWALK SCHEDULE

LOCATION	PCC SIDEWALK 4" (SQ FT)
20TH STREET-PHASE 1	
STA. 105+58.48-26.13' RT TO STA. 106+48.43-40.27' RT	556.3
STA. 107+11.93-73.97' RT TO STA. 109+87.15-30.08' RT	1694.4
STA. 110+08.68-30.08' RT TO STA. 110+34.87-29.58' RT	149.5
STA. 106+33.37-23.58' LT TO STA. 106+48.32-39.70' LT	139.8
STA. 107+12.01-43.27' LT TO STA. 108+02.13-30.08' LT	616.5
STA. 108+31.21-29.58' LT TO STA. 108+40.05-29.58' LT	44.7
STA. 108+55.02-29.58' LT TO STA. 109+88.08-30.08' LT	810.0
STA. 110+21.95-30.08' LT TO STA. 110+34.88-23.58' LT	94.9
TOTAL	4106

F.A.U. SECTION COUNTY TOTAL SHEETS SHEET No.
 9089 02-00180-01-PV MADISON 28 6
 ILLINOIS FED. AID PROJECT
 CONTRACT NO. 97251



QUANTITY SCHEDULES
 F.A.U. ROUTE 9089
 20TH STREET (PHASE I)
 GRANITE CITY, ILLINOIS
 SECTION NO. 02-00180-01-PV

REVISIONS				SCALE: NOT TO SCALE			
NO.	DATE	BY	REMARKS	DSN. BY:	DATE:	CHKD. BY:	DATE:
				BFK	2/18/05	BFK	2/18/05
				JUB	2/18/05	JUB	2/18/05
				BFK	2/18/05	BFK	2/18/05
DWG. NO.				JOB NO. 030204	DGN. NAME: COMSCH	OF 28 SHTS	

BY: _____ DATE: _____
 FINAL SURVEY PLOTTED
 ROUTE BOOK TEMPLATE AREAS CHECKED
 NO.

BY: _____ DATE: _____
 ORIGINAL SURVEY PLOTTED
 ROUTE BOOK TEMPLATE AREAS CHECKED
 NO.

STRIPING SCHEDULE

LOCATION	TYPE	EPOXY				THERMOPLASTIC		PREFORMED PLASTIC LETTERS & SYMBOLS (SQ FT)
		4" YELLOW (FOOT)	4" WHITE (FOOT)	6" WHITE (FOOT)	12" WHITE (FOOT)	4" YELLOW (FOOT)	4" WHITE (FOOT)	
20TH STREET-PHASE 1 STA. 105+28.28 TO STA. 106+00.00	EDGE LINE						113	
	DOUBLE CENTER LINE					164		
	LANE LINES						82	
	ARROWS							104
	SKIP-DASH 10'-30'						18	
STA. 106+00.00 TO STA. 110+34.87	EDGE LINE		748			50	50	
	STOP BARS				162			
	SKIP-DASH 10'-30'		151			8		
	DOUBLE CENTER LINE	739						
	LANE LINES		186					
	ARROWS							104
	CROSSWALKS			580				
MADISON AVENUE STA. 502+48.32 TO STA. 503+37.12	EDGE LINE						178	
	SKIP-DASH 10'-30'						36	
	DOUBLE CENTER LINE					178		
	LANE LINES						89	
	ARROWS							31
STA. 504+50.78 TO STA. 505+62.96	EDGE LINE						185	
	SKIP-DASH 10'-30'						55	
	DOUBLE CENTER LINE					224		
	LANE LINES						112	
	ARROWS							31
TOTAL		739	1085	580	162	624	918	270

PAVEMENT REMOVAL

LOCATION	AREA (SQ YD)
20TH STREET-PHASE 1	
STA. 105+28.31-23.69' LT TO STA. 105+99.98-22.00' LT	19.8
STA. 105+58.48-24.54' RT TO STA. 106+00.00-22.00' RT	8.1
STA. 106+00.00 TO STA. 110+34.87	2819.7
STA. 107+10.43-39.85' LT TO STA. 107+16.80-43.91' LT	1.0
STA. 107+16.84-33.43' LT TO STA. 107+21.18-33.02' LT	4.3
STA. 107+20.64-33.10' LT TO STA. 108+03.71-28.05' LT	14.4
STA. 108+03.71-28.05' LT TO STA. 108+29.63-27.97' LT	54.1
STA. 108+29.63-27.97' LT TO STA. 108+41.63-28.44' LT	3.4
STA. 108+41.63-28.44' LT TO STA. 108+53.44-28.08' LT	26.0
STA. 110+34.87 TO STA. 110+59.87	126.7
TOTAL	3078

DRIVEWAY PAVEMENT REMOVAL

LOCATION	AREA (SQ YD)
20TH STREET-PHASE 1	
STA. 106+05.13 RT	27.3
STA. 107+48.11 LT	15.3
STA. 108+17.97 LT	14.2
STA. 108+47.21 LT	9.2
STA. 109+98.50 RT	59.7
TOTAL	126

MEDIAN REMOVAL

LOCATION	AREA (SQ FT)
20TH STREET-PHASE 1	
STA. 107+23.96 TO STA. 109+70.02	977
STA. 110+46.62 TO STA. 110+59.87	51
TOTAL	1028

CURB REMOVAL

LOCATION	CURB TYPE B (FOOT)
20TH STREET-PHASE 1	
STA. 105+58.47-24.94' RT TO STA. 105+75.82-24.96' RT	17
STA. 106+36.57-25.61' RT TO STA. 106+48.96-40.33' RT	21
STA. 107+11.36-73.97' RT TO STA. 109+88.31-29.27' RT	307
STA. 110+11.42-24.39' RT TO STA. 110+34.87-24.22' RT	23
STA. 110+34.87-24.22' RT TO STA. 110+59.87-24.13' RT	25
STA. 105+28.33-24.69' LT TO STA. 106+48.97-39.70' LT	129
STA. 107+10.80-40.05' LT TO STA. 107+69.39-23.39' LT	69
STA. 107+99.66-23.47' LT TO STA. 109+91.01-38.00' LT	199
STA. 110+19.03-38.00' LT TO STA. 110+34.87-23.45' LT	24
STA. 110+34.87-23.45' LT TO STA. 110+59.87-23.53' LT	25
TOTAL	839

CONNECT TO EXISTING MANHOLE

LOCATION	CONNECT TO EXISTING MANHOLE (EACH)
20TH STREET-PHASE 1	
STA. 110+05.32 - 10.79' RT	1
STA. 110+06.51 - 16.70' LT	2
TOTAL	3

STRUCTURE TO BE REMOVED

LOCATION	TO BE REMOVED INLET (EA)
20TH STREET-PHASE 1	
STA. 109+74.11 - 23.69' LT	1
STA. 110+36.29 - 22.93' LT	1
TOTAL	2

STRUCTURE TO BE ABANDONED OR ADJUSTED

LOCATION	TO BE ABANDONED INLET TO BE FILLED (EA)	TO BE ADJUSTED MANHOLE TYICL (EA)
20TH STREET-PHASE 1		
STA. 106+46.44 - 34.74' LT	1	
STA. 106+46.77 - 34.92' RT	1	
STA. 106+85.99 - 12.17' LT		1
STA. 107+12.78 - 34.64' LT	1	
STA. 107+29.06 - 39.22' RT	1	
STA. 108+47.55 - 12.03' LT		1
STA. 110+05.32 - 10.79' RT		1
STA. 110+06.51 - 16.70' LT		1
STA. 110+14.61 - 23.87' RT	1	
TOTAL	5	4

STORM SEWER REMOVAL


LOCATION	LENGTH 12" (FOOT)	LENGTH 8" (FOOT)
20TH STREET-PHASE 1		
STA. 109+74.11 - 23.69' LT TO STA. 110+06.51 - 16.69' LT	33	
STA. 110+36.29 - 22.93' LT TO STA. 110+06.51 - 16.69' LT		30
TOTAL	33	30

SIDEWALK REMOVAL

LOCATION	AREA (SQ FT)
20TH STREET-PHASE 1	
STA. 105+58.48-25.00' RT TO STA. 105+80.88-30.15' RT	97.1
STA. 106+30.50-25.45' RT TO STA. 106+48.43-40.27' RT	151.0
STA. 107+11.93-73.97' RT TO STA. 107+86.25-24.97' RT	508.2
STA. 107+86.25-24.97' RT TO STA. 109+88.76-35.36' RT	1006.9
STA. 110+08.70-28.90' RT TO STA. 110+34.87-24.83' RT	109.2
STA. 106+33.95-28.98' LT TO STA. 106+48.32-39.68' LT	97.1
STA. 107+11.42-39.90' LT TO STA. 107+31.79-28.21' LT	140.1
STA. 107+64.53-28.01' LT TO STA. 108+02.73-28.08' LT	162.0
STA. 108+56.35-27.99' LT TO STA. 109+85.81-28.01' LT	546.0
STA. 110+22.26-30.40' LT TO STA. 110+34.88-24.42' LT	82.1
TOTAL	2900

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 SURVEY PLOTTED BY DATE
 NOTE BOOK TEMPLATE AREAS CHECKED BY DATE
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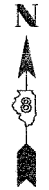
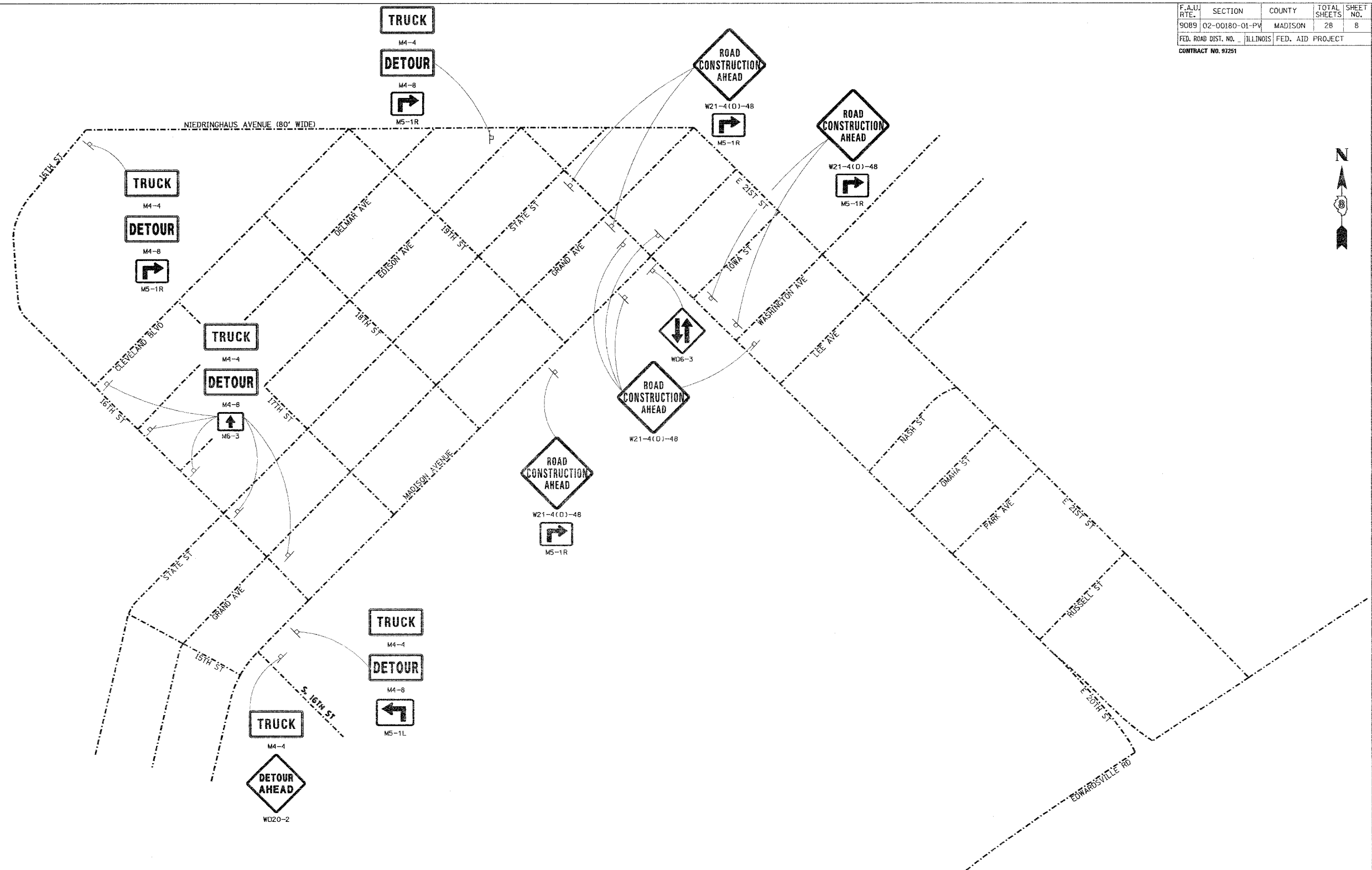
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 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS <small>2156 State Street, P.O. Box 1557 Granite City, Illinois 62040 Phone: (618) 887-1400/(618) 452-5550 Fax: (618) 882-0541</small>		QUANTITY SCHEDULES F.A.U. ROUTE 9089 20TH STREET (PHASE I) GRANITE CITY, ILLINOIS SECTION NO. 02-00180-01-PV	
REVISIONS		SCALE:	
NO.	DATE	BY	REMARKS
			NOT TO SCALE
DSN. BY: BFK		DATE: 2/18/05	
DWN. BY: JJB		DATE: 2/18/05	
CHK'D: BFK		DATE: 2/18/05	
DWG. NO. _____		JOB NO. 030204	DGN. NAME: COMSCH OF 28 SHTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. ... ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 97251				

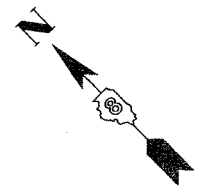
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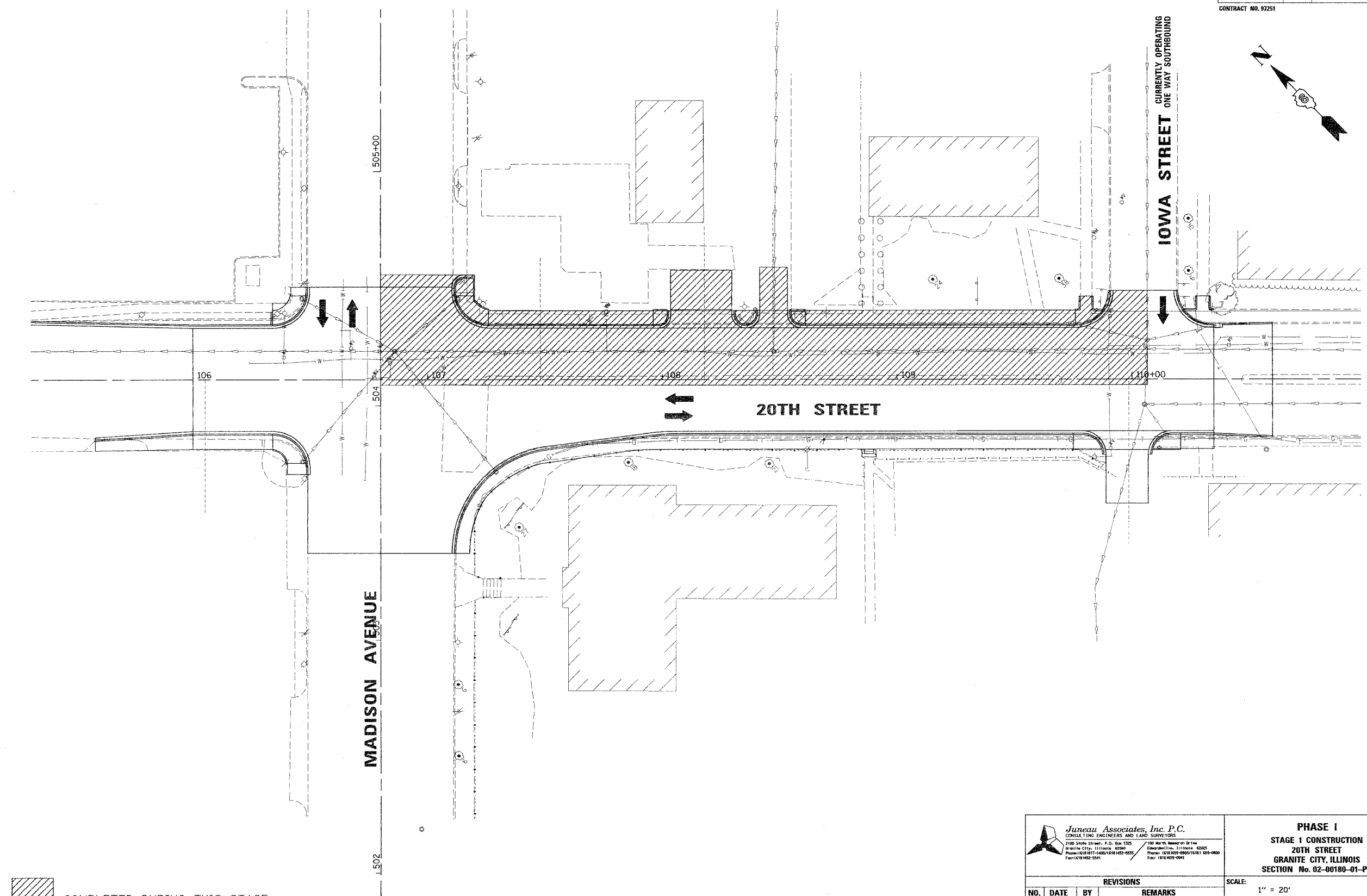
Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS <small>2100 State Street, P.O. Box 1302, Granite City, Illinois 62040 Phone: (618) 871-1400 / (618) 452-5551 / Fax: (618) 452-0541</small>		ADVANCED WARNING SIGNS PHASE 1 20TH STREET GRANITE CITY, ILLINOIS SECTION No. 02-00180-01-PV									
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NO.	DATE	BY	REMARKS								


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	9
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97251				



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

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



 COMPLETED DURING THIS STAGE

Junear Associates, Inc. P.C.
 CIVIL ENGINEERS AND LAND SURVEYORS
 2100 State Street, P.O. Box 1325 Granite City, IL 62040
 100 North Research Dr. Granite City, IL 62040
 Phone: (618) 939-9900/9901 Fax: (618) 939-0941

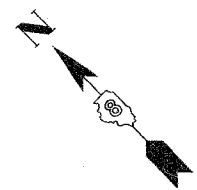
PHASE I
STAGE 1 CONSTRUCTION
20TH STREET
GRANITE CITY, ILLINOIS
 SECTION No. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: 1" = 20'			
DSN. BY:	RGL	DATE:	02/18/05
DWN. BY:	WRC	DATE:	02/18/05
CHKD. BY:	BFK	DATE:	02/18/05
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			OF 28 SHTS


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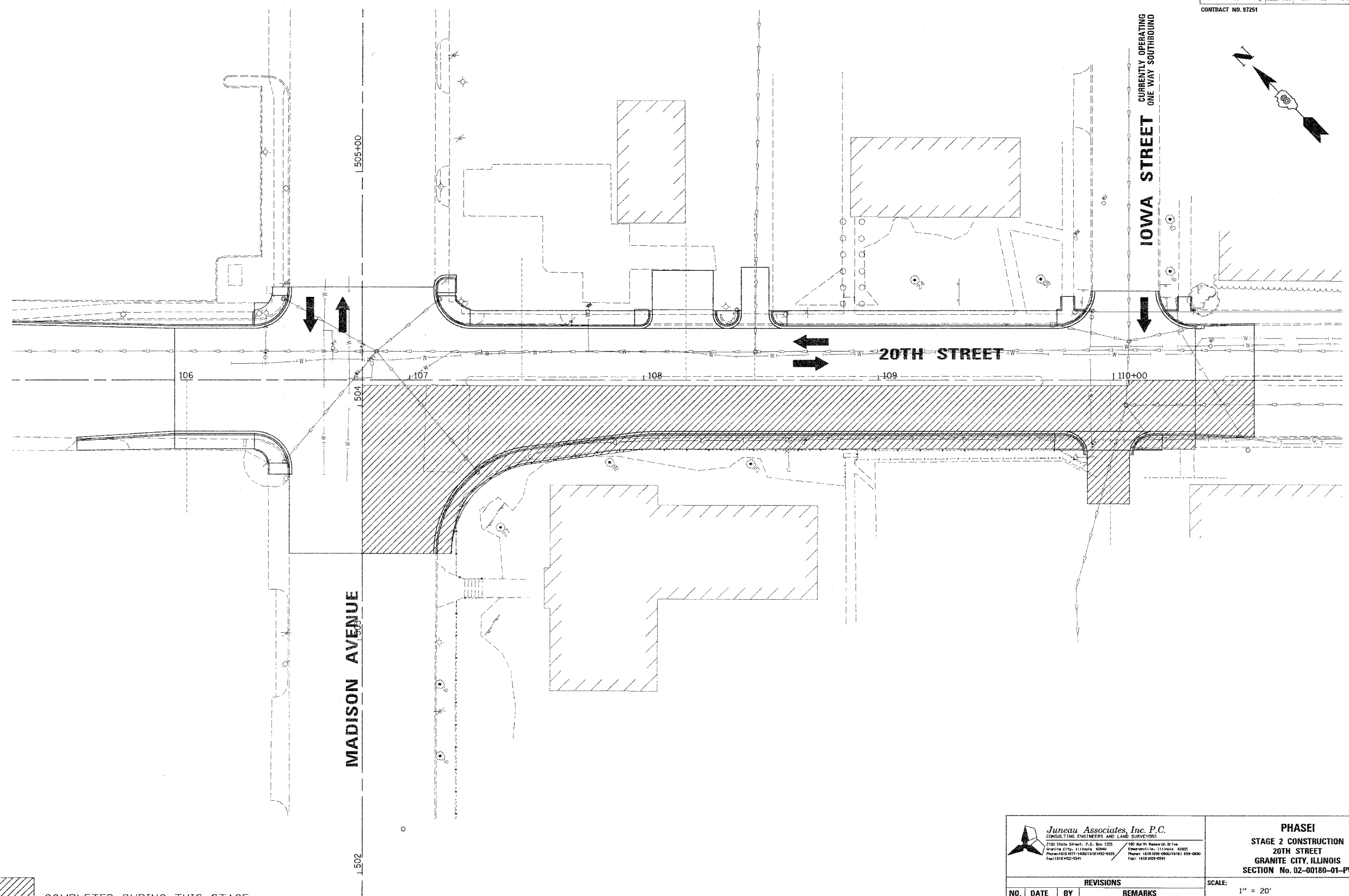
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97251				



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

 COMPLETED DURING THIS STAGE



Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1225 Granite City, IL 62040
190 North Main Street, Granite City, IL 62040
Phone: (618) 938-1400 Fax: (618) 938-0941

PHASE I
STAGE 2 CONSTRUCTION
20TH STREET
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

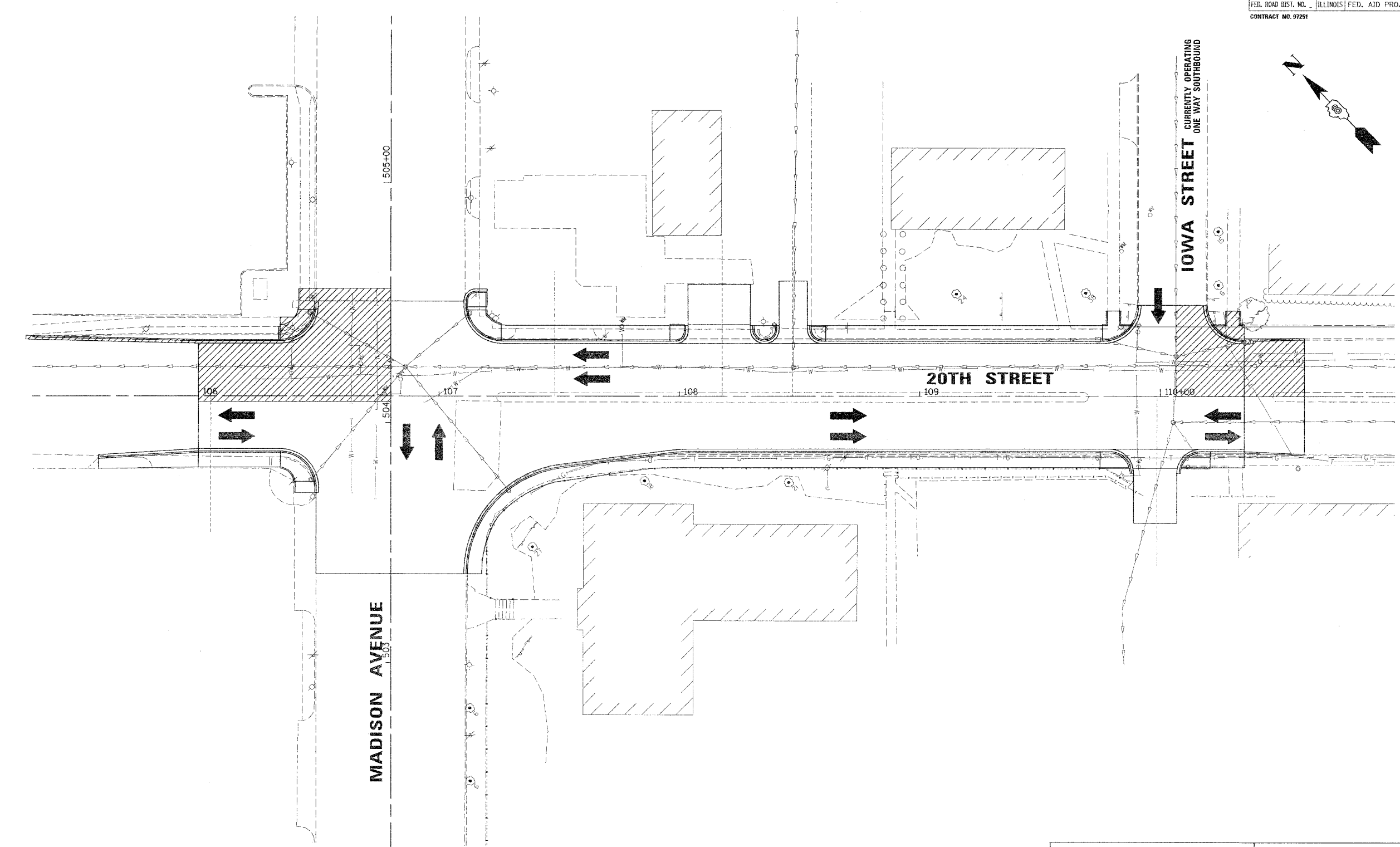
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
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CHK'D: BFK	DATE: 02/18/05	
DWG. NO. E030204	JOB NO. E030204	DGN. NAME: STAGE 2


F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	11
FED. ROAD DIST. NO. . ILLINOIS FED. AID PROJECT				
CONTRACT NO. 97251				

BY	DATE
FTNAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
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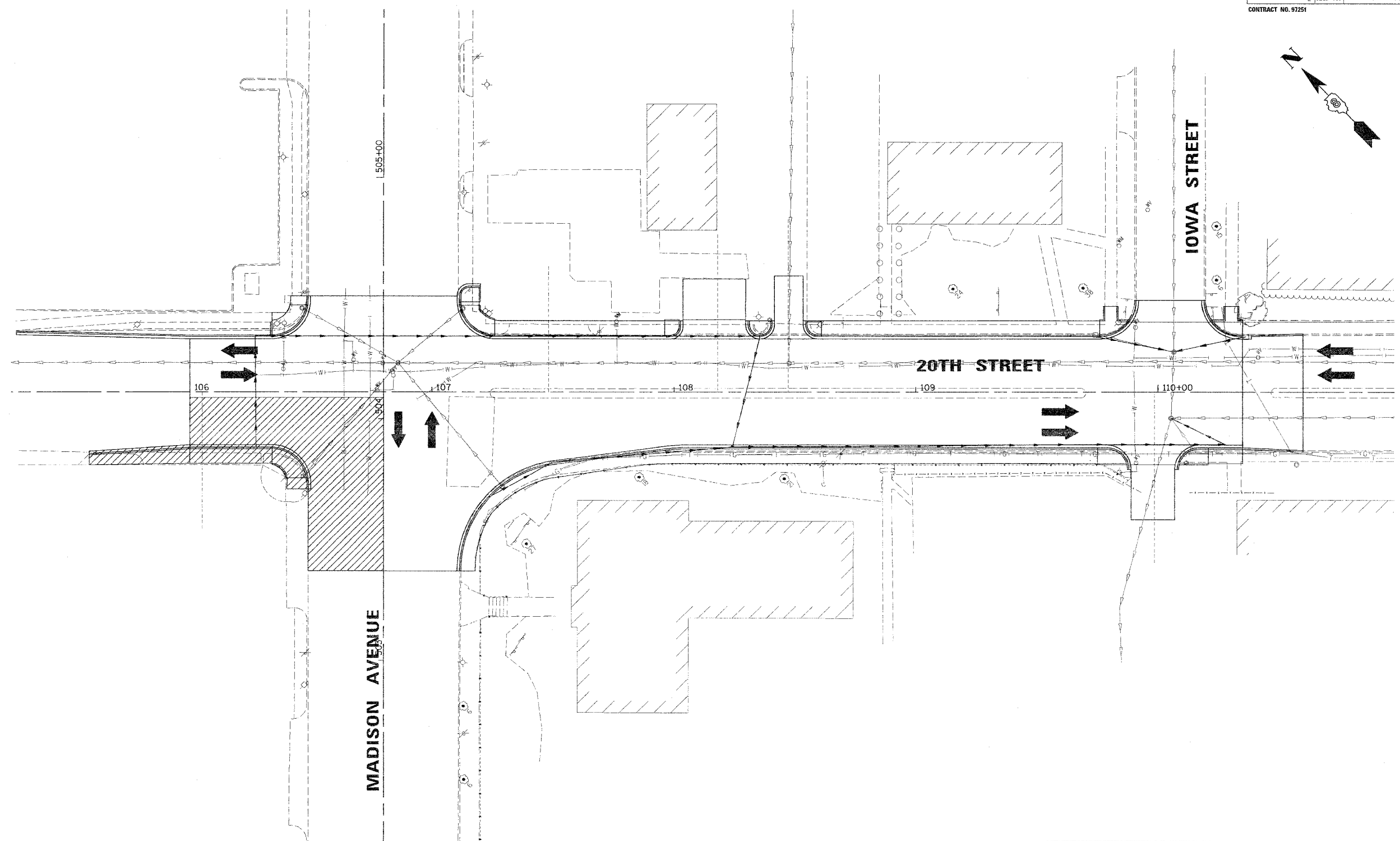
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
 Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS <small>2100 State Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 381-4000/4001/4002/4003 Fax: (618) 381-2541</small>		PHASE I STAGE 3 CONSTRUCTION 20TH STREET GRANITE CITY, ILLINOIS SECTION No. 02-00180-01-PV	
REVISIONS		SCALE: 1" = 20'	
NO.	DATE	BY	REMARKS
DSN. BY: RGL DATE: 02/18/05		SHEET	
DWN. BY: WRC DATE: 02/18/05		11	
CHK'D: BFK DATE: 02/18/05			
DWG. NO.		JOB NO. E030204 DGN. NAME: STAGE 3 OF 28 SHTS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	12
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 97251				

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

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



 COMPLETED DURING THIS STAGE

Juneau Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 200 Stone Street, S.D. Box 125 / 100 North Research Drive
 Granite City, Illinois 62040 / Granite City, Illinois 62040
 Phone: (618) 887-1400 / Fax: (618) 887-1400
 Fax: (618) 887-5541 / Fax: (618) 887-0941

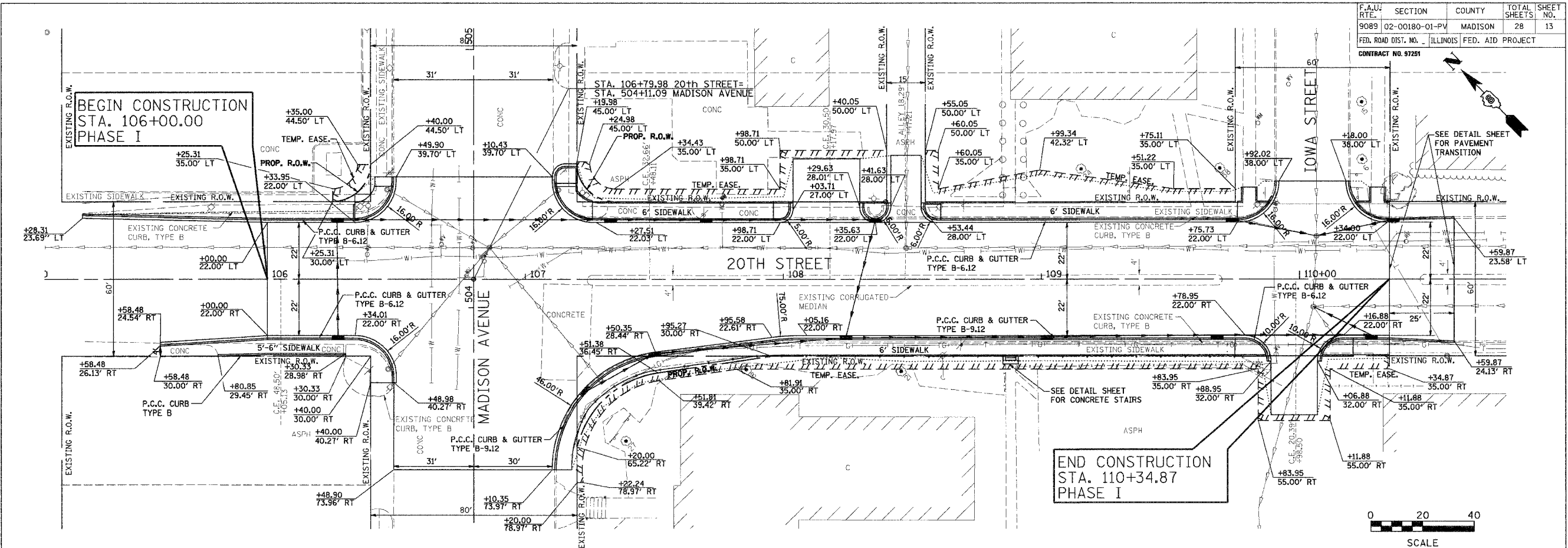
PHASE I
STAGE 4 CONSTRUCTION
20TH STREET
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

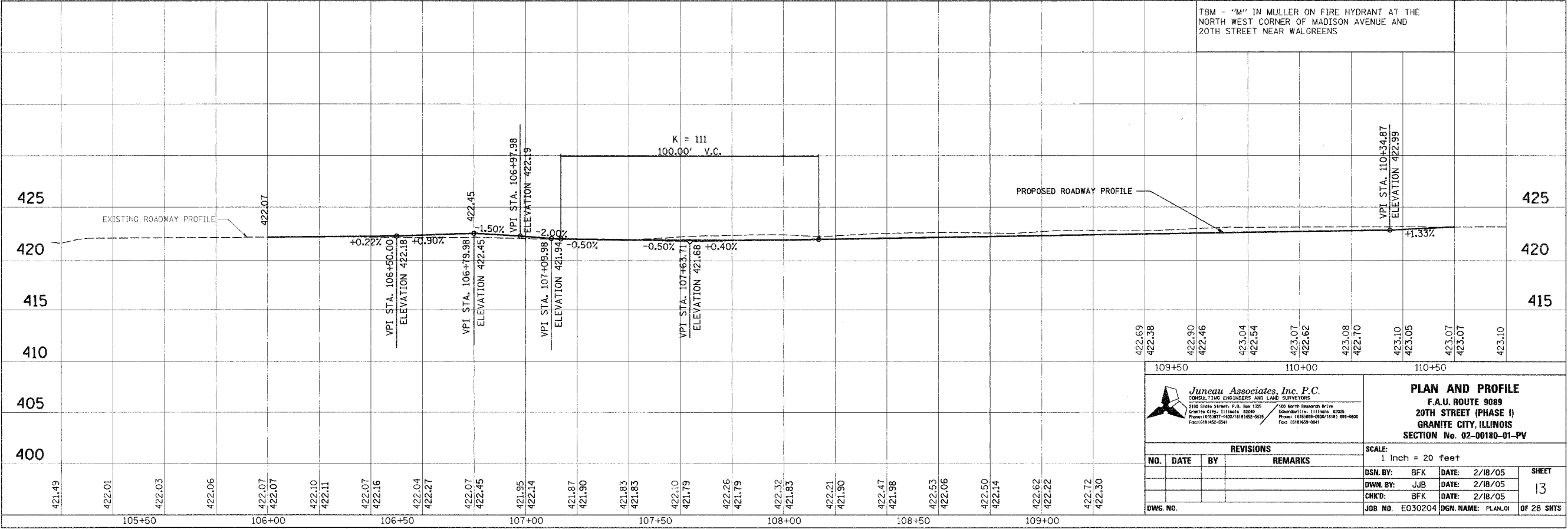
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DWG. NO. E030204	DGN. NAME: STAGE 4	OF 28 SHTS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	13
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97291				

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



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



Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1725
Granite City, Illinois, 62040
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Fax: (618) 992-0341

PLAN AND PROFILE
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

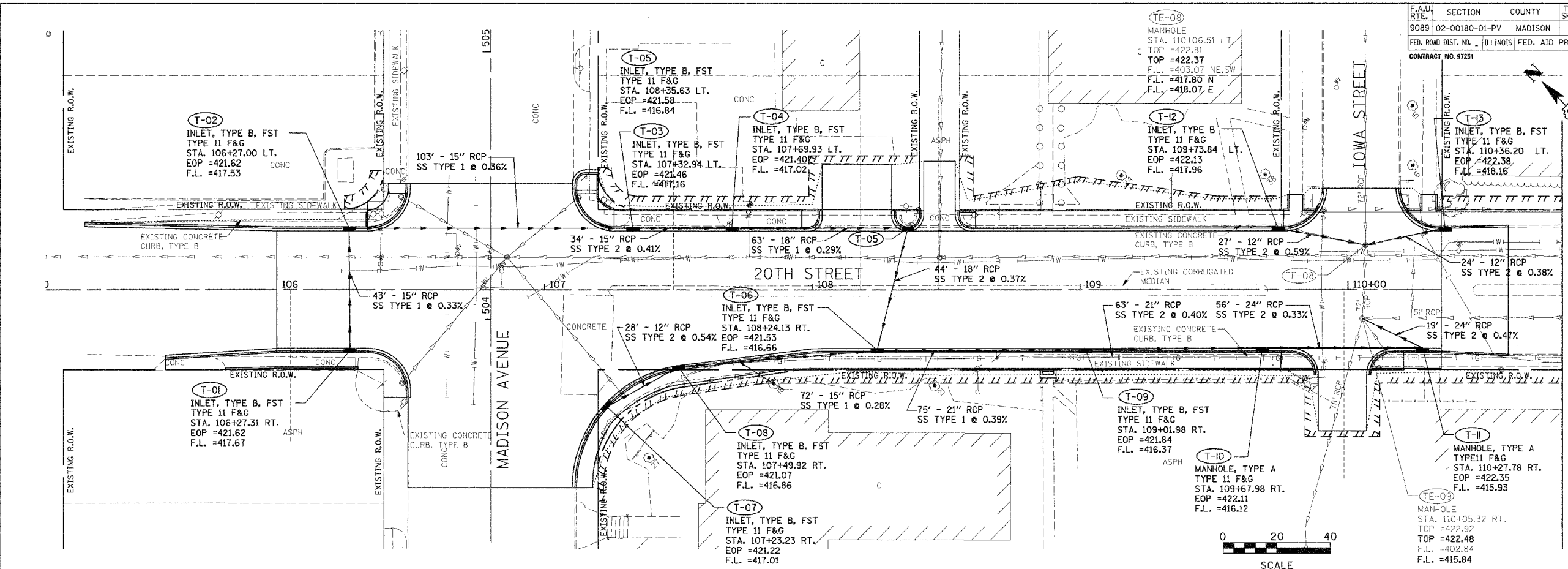
REVISIONS			
NO.	DATE	BY	REMARKS

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DWN. BY: JJB	DATE: 2/18/05
CHKD: BFK	DATE: 2/18/05
JOB NO. E030204	DGN. NAME: PLAN.01
SHEET 13 OF 28 SHTS	

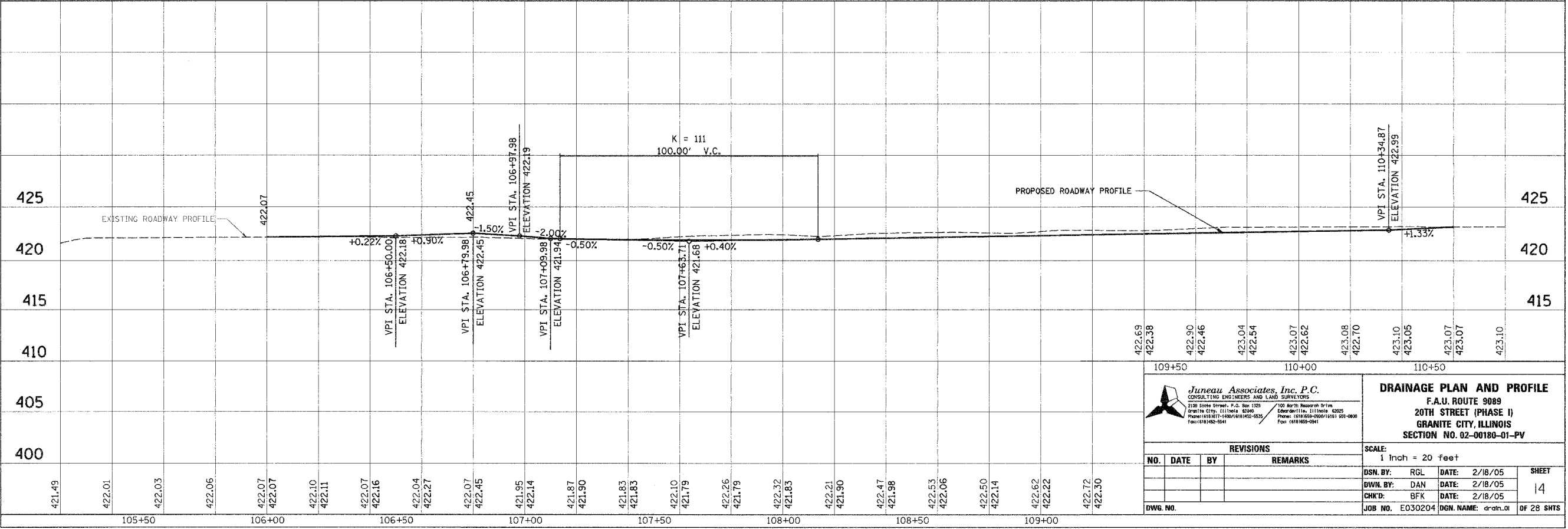
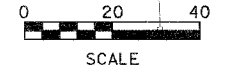
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FINAL SURVEYED	
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NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	14
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97251				



MATCH LINE STA. 110+80.00



422.69		109+50		110+00		110+50		423.10	
422.38								423.05	
422.30								423.07	
422.46								423.07	
423.04								423.10	
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423.05								423.10	
423.07								423.10	
423.07								423.10	
423.10								423.10	

Juneau Associates, Inc. P.C.
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2100 South Street, P.O. Box 5325
Granite City, Illinois 62040
Phone: (618) 952-1400 / (618) 952-5335
Fax: (618) 952-0544

100 North Research Drive
Edwardsville, Illinois 62025
Phone: (618) 952-0900 / (618) 952-0900
Fax: (618) 952-0901

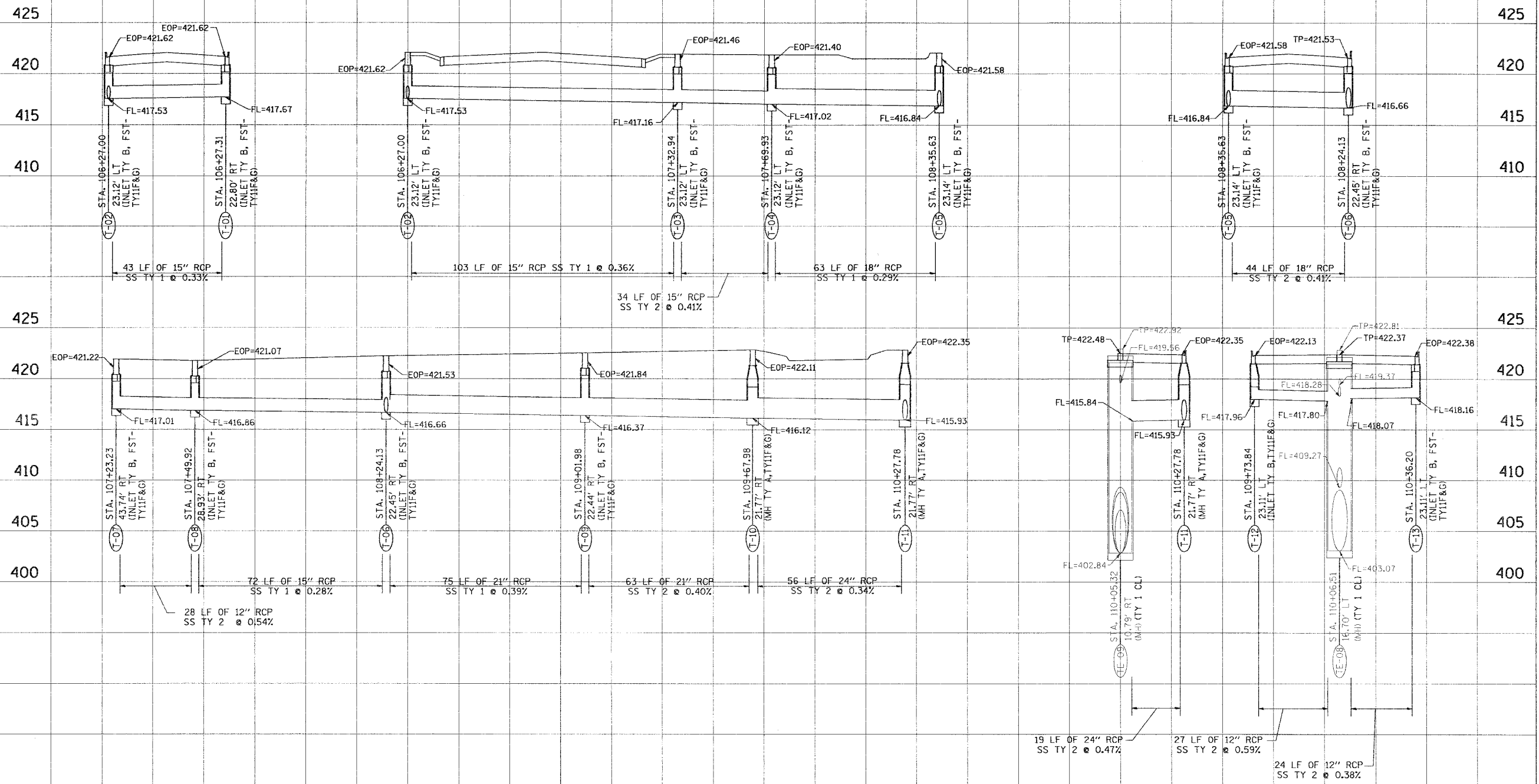
DRAINAGE PLAN AND PROFILE
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION NO. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: 1 inch = 20 feet	
DSN. BY: RGL	DATE: 2/18/05
DWN. BY: DAN	DATE: 2/18/05
CHK'D: BFK	DATE: 2/18/05
DWG. NO. E030204	DGN. NAME: drain.plt
SHEET 14 OF 28 SHTS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	15
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	

CONTRACT NO. 97251



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

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

Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 Olive Street, Suite 300, St. Louis, MO 63103
Granite City, Illinois 62040
Phone: (618) 267-1400 / (618) 267-9999
Fax: (618) 267-9944

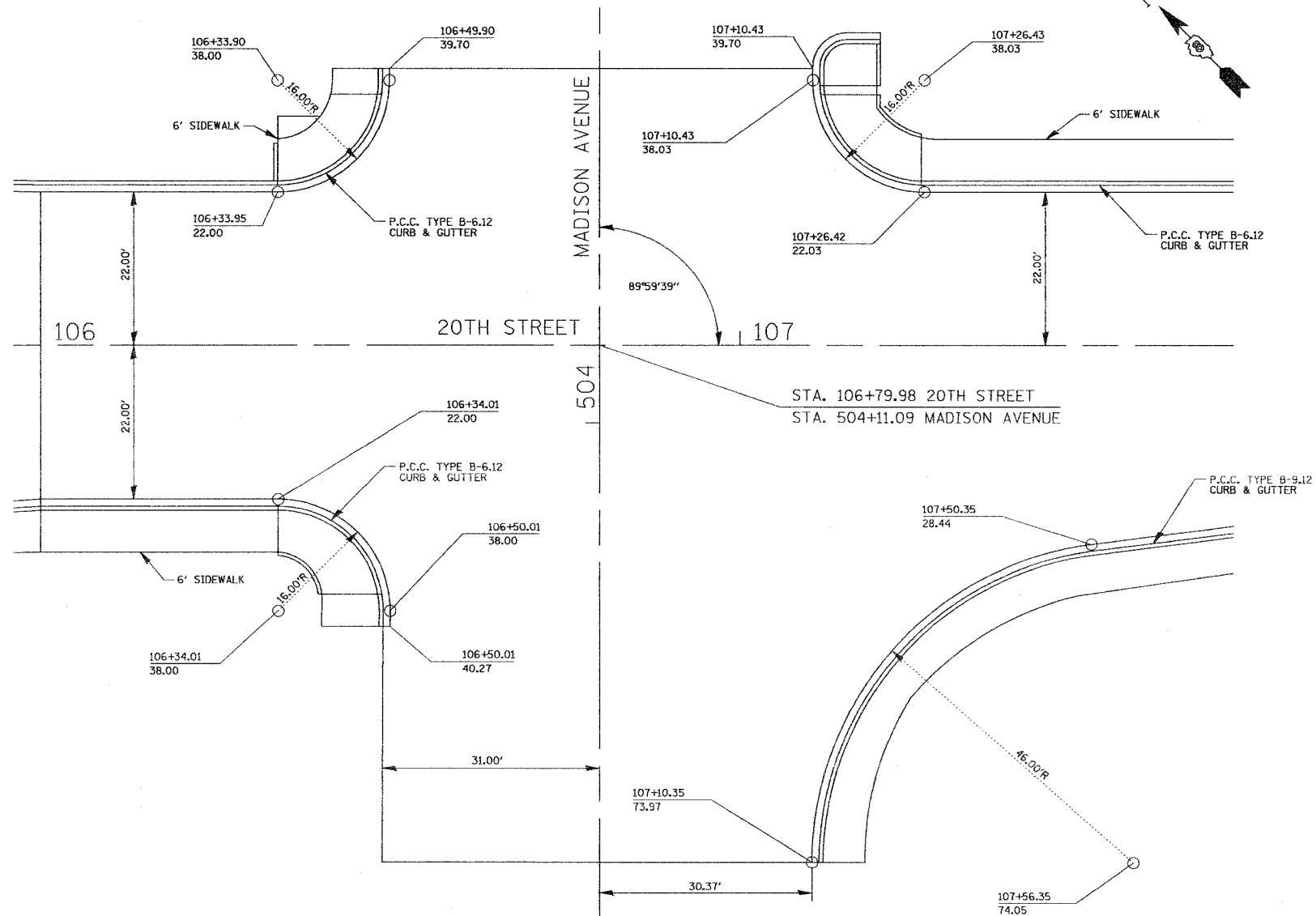
DRAINAGE PROFILES
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION NO. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: 1 Inch = 20 feet			
DSN. BY: RGL	DATE: 2/18/05	SHEET	
DWN. BY: JJB	DATE: 2/18/05	15	
CHK'D: RGL	DATE: 2/18/05		
DWG. NO. E030204	DGN. NAME: drain.05	OF 28 SHTS	

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

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



N QUADRANT

STATIONING ALONG 20TH STREET	OFFSET TO E.O.P. FOOT	E.O.P. ELEVATION FOOT	STATIONING ALONG MADISON AVENUE	OFFSET TO E.O.P. FOOT	DISTANCE ALONG RAD. FOOT
106+33.95	22.00	421.70	504+33.08	46.03	0.000
106+43.31	25.05	421.56	504+36.14	36.68	10.00
106+49.10	33.00	421.42	504+44.09	30.88	20.00
106+49.90	38.00	421.45	504+49.08	30.08	25.07

W QUADRANT

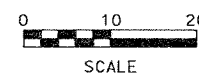
STATIONING ALONG 20TH STREET	OFFSET TO E.O.P. FOOT	E.O.P. ELEVATION FOOT	STATIONING ALONG MADISON AVENUE	OFFSET TO E.O.P. FOOT	DISTANCE ALONG RAD. FOOT
106+34.01	22.00	421.54	503+89.08	45.97	0.000
106+43.37	25.03	421.64	503+86.06	36.61	10.00
106+49.19	32.96	421.73	503+78.13	30.78	20.00
106+50.01	38.00	421.78	503+73.08	29.97	25.13

E QUADRANT

STATIONING ALONG 20TH STREET	OFFSET TO E.O.P. FOOT	E.O.P. ELEVATION FOOT	STATIONING ALONG MADISON AVENUE	OFFSET TO E.O.P. FOOT	DISTANCE ALONG RAD. FOOT
107+26.42	22.03	421.62	504+33.12	46.43	0.000
107+17.06	25.06	421.54	504+36.15	37.07	10.00
107+11.24	32.99	421.46	504+44.08	31.25	20.00
107+10.43	38.03	421.42	504+49.12	30.44	25.12

S QUADRANT

STATIONING ALONG 20TH STREET	OFFSET TO E.O.P. FOOT	E.O.P. ELEVATION FOOT	STATIONING ALONG MADISON AVENUE	OFFSET TO E.O.P. FOOT	DISTANCE ALONG RAD. FOOT
107+50.35	28.44	421.28	503+82.66	70.37	0.000
107+40.66	30.80	421.23	503+80.29	60.68	10.00
107+31.70	35.21	421.18	503+75.89	51.72	20.00
107+23.90	41.44	421.13	503+69.65	43.92	30.00
107+17.63	49.20	421.21	503+61.89	37.65	40.00
107+13.18	58.14	421.29	503+52.95	33.21	50.00
107+10.77	67.82	421.37	503+43.27	30.79	60.00
107+10.35	73.97	421.42	503+37.12	30.37	66.16



Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1325 Granite City, Illinois 62040
Phone: (618) 877-4400 / (618) 877-4400 Fax: (618) 877-4401

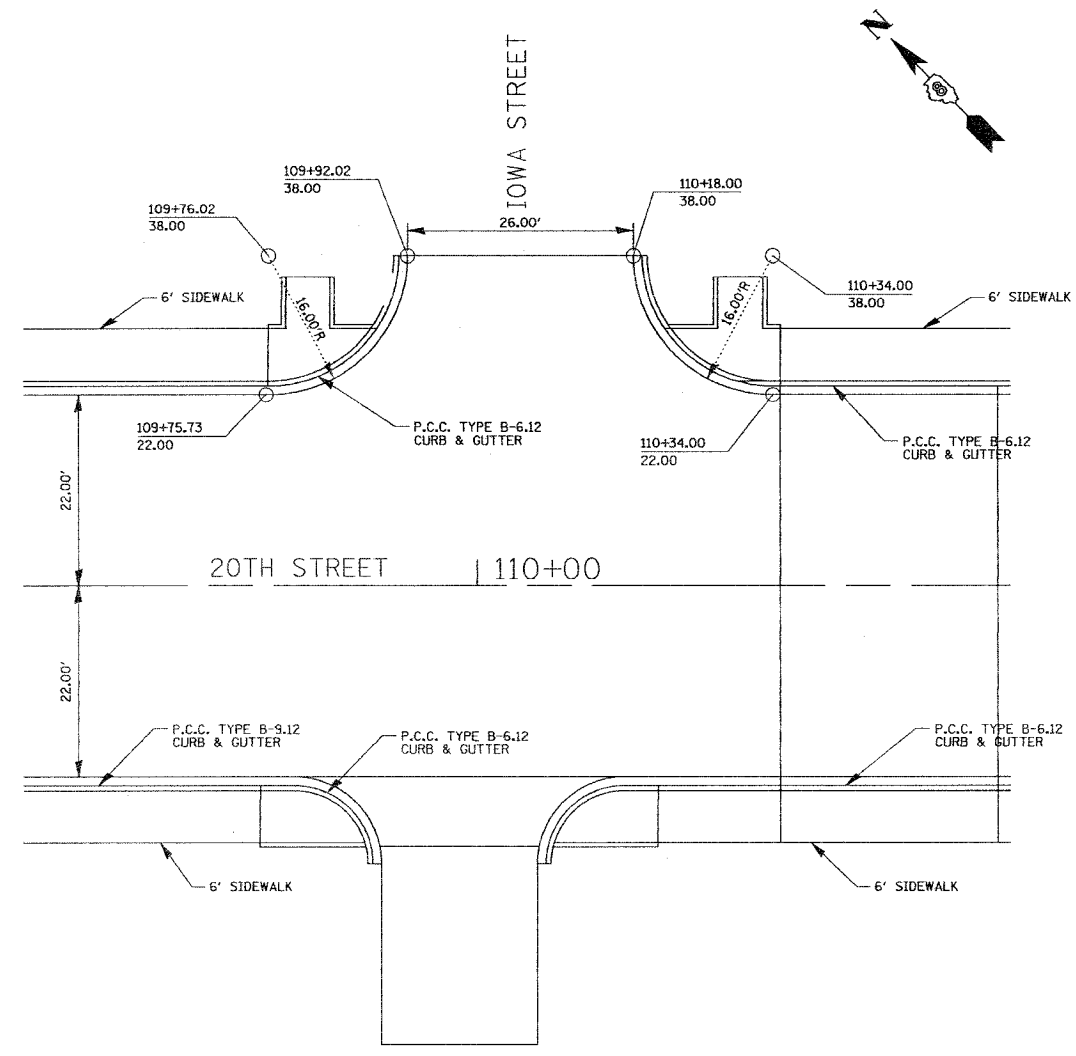
GEOMETRICS
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

REVISIONS				SCALE: 1 Inch = 10 feet	
NO.	DATE	BY	REMARKS	DSN. BY:	DATE:
				BFK	2/18/05
				JJB	2/18/05
				BFK	2/18/05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	17
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97251				

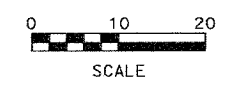
BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

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



N QUADRANT					
STATIONING ALONG 20TH STREET	OFFSET TO E.O.P. FOOT	E.O.P. ELEVATION FOOT	STATIONING ALONG IOWA STREET	OFFSET TO E.O.P. FOOT	DISTANCE ALONG RAD. FOOT
109+75.73	22.00	422.14	N/A	N/A	0.000
109+85.15	24.85	422.42	N/A	N/A	10.00
109+91.11	32.67	422.70	N/A	N/A	20.00
109+92.02	38.00	422.87	N/A	N/A	25.42

E QUADRANT					
STATIONING ALONG 20TH STREET	OFFSET TO E.O.P. FOOT	E.O.P. ELEVATION FOOT	STATIONING ALONG IOWA STREET	OFFSET TO E.O.P. FOOT	DISTANCE ALONG RAD. FOOT
110+34.00	22.00	422.37	N/A	N/A	0.000
110+24.64	25.03	422.50	N/A	N/A	10.00
110+18.81	32.96	422.63	N/A	N/A	20.00
110+18.00	38.00	422.70	N/A	N/A	25.12



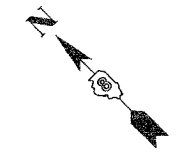
Juneau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 Stebbins Street, P.O. Box 1325
Granite City, Illinois 62040
Phone: (618) 871-4000 / (618) 871-5000
Fax: (618) 871-4041

GEOMETRICS
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

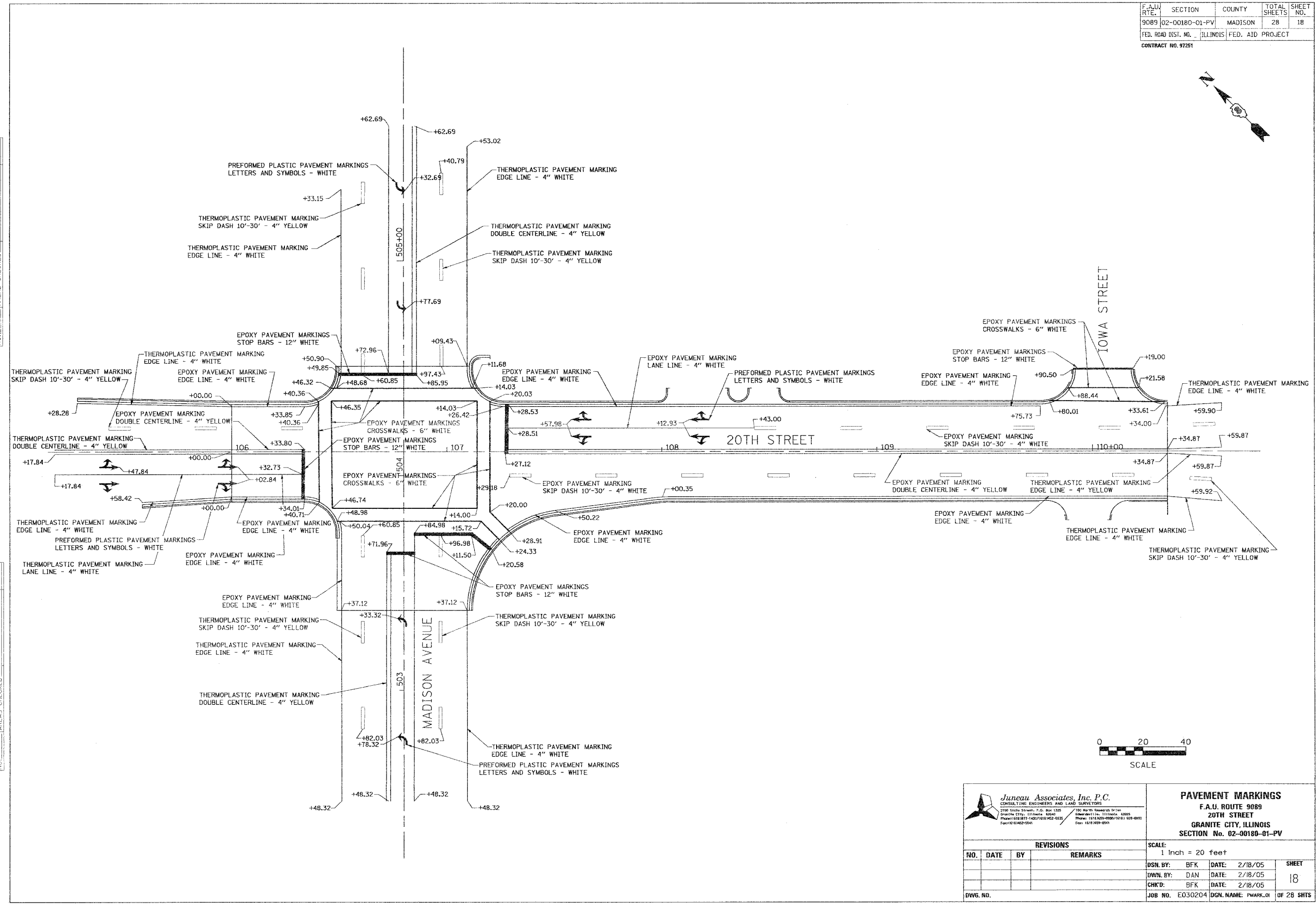
SCALE: 1 inch = 10 feet		
DSN. BY: BFK	DATE: 2/18/05	SHEET
DWN. BY: JJB	DATE: 2/18/05	17
CHKD: BFK	DATE: 2/18/05	
DWG. NO. E030204	DGN. NAME: GED_02	OF 28 SHTS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	18
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97251				



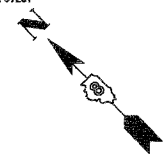
BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



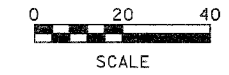
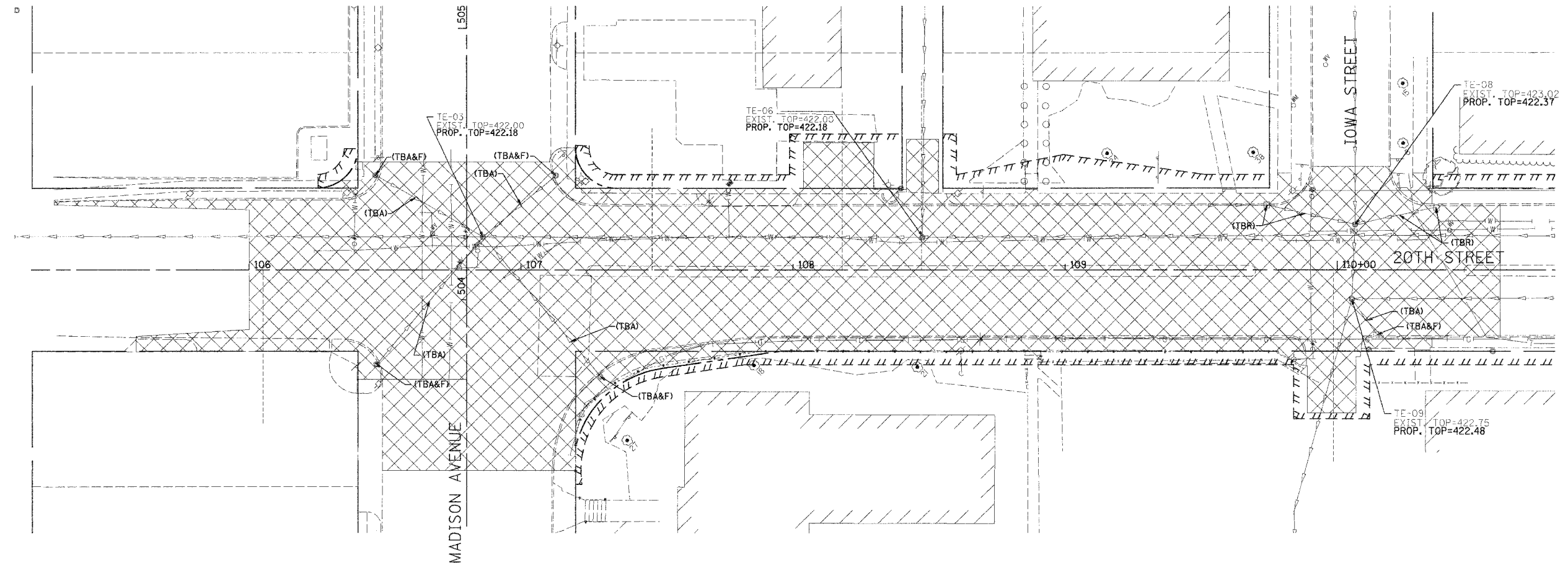
<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2700 South Street, P.O. Box 1325 Granite City, Illinois 62040 Phone: (618) 871-1400 / (618) 452-5532 FAX: (618) 452-0541</p>		<p>PAVEMENT MARKINGS F.A.U. ROUTE 9089 20TH STREET GRANITE CITY, ILLINOIS SECTION No. 02-00180-01-PV</p>									
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REMARKS					<p>SCALE: 1 Inch = 20 feet</p>	
NO.	DATE	BY	REMARKS								
<p>DWG. NO.</p>		<p>DSN. BY: BFK DWN. BY: DAN CHK'D: BFK</p>	<p>DATE: 2/18/05 DATE: 2/18/05 DATE: 2/18/05</p>								
<p>JOB NO. E030204</p>		<p>DGN. NAME: PMARK_01 OF 28 SHTS</p>									

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	19
FED. ROAD DIST. NO. .		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 97291				



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

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



- LEGEND**
- REMOVAL
 - (TBR) - TO BE REMOVED
 - (TBA) - TO BE ABANDONED
 - (TBA&F) - INLET TO BE ABANDONED AND FILLED
 - (TBR&RBO) - TO BE REMOVED AND REPLACED BY OTHERS

Jureau Associates, Inc. P.C.
CONSULTING ENGINEERS AND LAND SURVEYORS
2100 State Street, P.O. Box 1305
Granite City, Illinois 62040
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100 North Research Dr/106
Edwardsville, Illinois 62025
Phone: (618) 499-0000 Fax: (618) 499-0000

REMOVAL
F.A.U. ROUTE 9089
20TH STREET (PHASE I)
GRANITE CITY, ILLINOIS
SECTION No. 02-00180-01-PV

REVISIONS			
NO.	DATE	BY	REMARKS

SCALE: 1 Inch = 20 feet			
DSN. BY:	BFK	DATE:	2/18/05
DWN. BY:	DAN	DATE:	2/18/05
CHK'D:	BFK	DATE:	2/18/05
DWG. NO.	JOB NO. E030204	DGN. NAME:	REM_01c
		SHEET 19 OF 28 SHTS	

F.A.U. SECTION COUNTY TOTAL SHEET
RTE. SHEETS NO.
908902-00180-01-PV MADISON 28 20
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
CONTRACT NO. 97251

SHEET NO.

20

Job No. 160-04
Date: 2/17/05
Scale: NONE
Drawn by: C.S.
Design by: K.W.
Approved by: D.B.B.
File Name: TS160-04

REVISIONS
3/6/06

SUMMARY OF QUANTITIES		
ITEM	UNIT	TOTAL QUANTITIES
SIGN PANEL-TYPE 1	SQ. FT.	19
SERVICE INSTALLATION, TYPE A	EACH	1
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	76
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	10
CONCRETE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	86
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	895
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	966
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1629
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	560
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1020
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 3C	FOOT	22
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	24
DRILL EXISTING FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	9
TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE 1	FOOT	1819
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1480
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
GEOMETRICALLY PROGRAMMED LOUVER	EACH	2
LED SIGNAL FACE RETROFIT, RED BALL	EACH	6
LED SIGNAL FACE RETROFIT, GREENBALL	EACH	6
LED SIGNAL FACE RETROFIT, YELLOW BALL	EACH	6
LED SIGNAL FACE RETROFIT, GREEN ARROW	EACH	2
LED SIGNAL FACE RETROFIT, WALK SIGNAL	EACH	1
LED SIGNAL FACE RETROFIT, DON'T WALK SIGNAL	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	2
ADA PEDESTRIAN PUSH-BUTTON	EACH	8

CBB Crawford, Bunte, Brammeier
Traffic and Transportation Engineers
St. Louis, Missouri/Glen Carbon, Illinois
314-878-6644 618-656-2612
Fax: 314-878-5876 E-Mail: cbb@cbbtraffic.com

SUMMARY OF QUANTITIES
20th STREET & MADISON AVENUE
GRANITE CITY, ILLINOIS

ELECTRICAL GENERAL NOTES:

1. ALL VEHICLE SIGNAL HEADS SHALL HAVE 12 INCH L.E.D. INDICATIONS. ALL MOUNTING HARDWARE, SIGNAL POSTS, AND BASES SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
2. BACKPLATES SHALL BE ABS PLASTIC.
3. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER, UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FULL RING TONGUE CONNECTORS.
4. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
5. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
6. CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
7. 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 SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
8. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATION. AGENCIES KNOWN TO HAVE UNDERGROUND FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING: (MEMBER OF J.U.L.I.E. PHONE (800) 892-0123 ARE INDICATED BY *(CALL ONE WEEK BEFORE YOU PLAN TO DIG).
 - * CHARTER COMMUNICATIONS
 - * SBC
 - * GRANITE CITY
 - * ILLINOIS CONSOLIDATED TELEPHONE
 - * ILLINOIS AMERICAN WATER
 - * MCLEOD USA
 - * MISSISSIPPI RIVER TRANSMISSION
9. ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THEY SHALL BE RACK MOUNTED.
10. CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "TRENCH AND BACKFILL FOR ELECTRICAL WORK" AND INSTALLED PER ARTICLE 815.03(D) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
11. 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 MAST ARMS AND POLES SHALL BE GALVANIZED.
12. DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM SUPPORT POLES ARE:
N.E. CORNER 11.0 FT.
S.W. CORNER 13.0 FT.
13. THE CONTRACTOR SHALL FABRICATE, DELIVER AND INSTALL 4 STREET NAME SIGNS AT THE SPECIFIED LOCATIONS. THE SIGNS AND INSTALLATION SHALL CONFORM TO SECTION 720 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARDS 720001 AND 720016. THE CONTRACTOR SHALL INSTALL THE STREET NAME SIGNS ON THE MAST ARM AS SHOWN ON THE PLANS.

DETECTOR LOOP REQUIREMENTS & CALCULATIONS
20th STREET AND MADISON AVENUE

LOOP	PHASE	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries μH	CALCULATED RESISTANCE ohms
SB THRU/LT (20TH ST.)	4	6' x 50'	3-6-3	810.9	2.2
SB THRU/RT (20TH ST.)	4	6' x 50'	3-6-3	808.4	2.1
NB THRU/LT (20TH ST.)	3	6' x 50'	3-6-3	814.6	2.2
NB THRU/RT (20TH ST.)	3	6' x 50'	3-6-3	812.2	2.2
WB LT (MADISON AVE.)	1	6' x 50'	3-6-3	796.6	1.8
WB 1 (MADISON AVE.)	6	6' x 50'	3-6-3	791.1	1.7
WB 2 (MADISON AVE.)	6	6' x 50'	3-6-3	793.3	1.8
EB LT (MADISON AVE.)	5	6' x 50'	3-6-3	836.6	2.7
EB 1 (MADISON AVE.)	2	6' x 50'	3-6-3	831.1	2.6
EB 2 (MADISON AVE.)	2	6' x 50'	3-6-3	834.4	2.7

THE ABOVE VALUES ARE CALCULATION OF COMBINED LOOP & LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN ± 20% OF THESE VALUES.

- STANDARDS**
- 720001
 - 720016
 - 805001
 - 814001
 - 857001
 - 877001
 - 878001
 - 880006
 - 886001
 - 886006

TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL POST
- PROPOSED HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CONDUIT: 'T' TRENCH, 'P' PUSHED, SIZE SPECIFIED
- PROPOSED SERVICE INSTALLATION
- G.S.C. GALVANIZED STEEL CONDUIT
- P.V.C.C. POLYVINYL CHLORIDE CONDUIT
- TRAFFIC SIGN ON MAST ARM
- TRAFFIC SIGN
- EXISTING CONTROLLER
- EXISTING SIGNAL HEAD
- EXISTING TRAFFIC SIGNAL MAST ARM WITH TRAFFIC SIGN
- PROPOSED TRAFFIC SIGNAL MAST ARM WITH STREET NAME SIGN
- PROPOSED PEDESTRIAN PUSH-BUTTON

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
908902	00180-01-PV	MADISON	28	21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 97251				

SHEET NO.
21

Job No. 160-04
Date: 2/17/05
Scale: NONE
Drawn by: C.S.
Design by: K.W.
Approved by: D.B.B.
File Name: TS160-04

REVISIONS

3/9/05	

CBB Crawford, Bunte, Brammeier
 Traffic and Transportation Engineers
 St. Louis, Missouri/Glen Carbon, Illinois
 314-878-6644 618-656-2612
 Fax: 314-878-5876 E-Mail: cbb@cbbtraffic.com

GENERAL NOTES AND LEGEND
 20th STREET & MADISON AVENUE
 GRANITE CITY, ILLINOIS

CONTROLLER PHASING

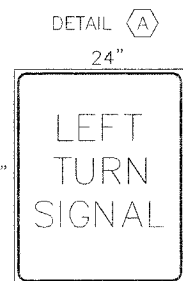
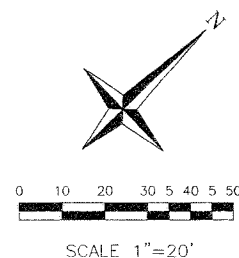
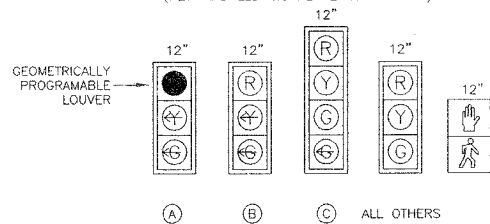
EXISTING AND PROPOSED								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT								
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	NOT USED	NOT USED

* PEDESTRIAN WALK INDICATION SHALL BE DISPLAYED ONLY WITH ACTUATION (PROPOSED)

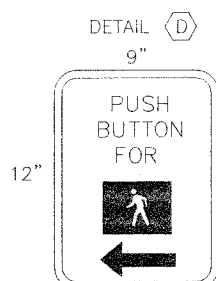
NOTE: FOR THE PURPOSES OF CONTROLLER PHASING ASSIGNMENTS:
20TH STREET SHALL BE CONSIDERED NORTH/SOUTH ROADWAY
MADISON AVENUE SHALL BE CONSIDERED EAST/WEST ROADWAY

TRAFFIC SIGNAL FACES

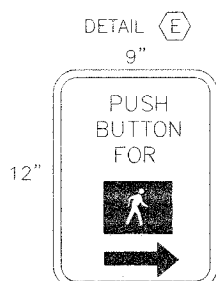
(NEW AND LED SIGNAL RETROFIT FACES)



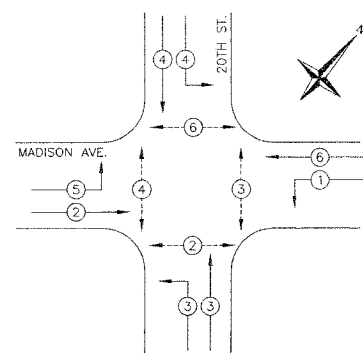
DETAIL A
R10-10
2 EACH REQUIRED
SIGN PANEL-TYPE 1



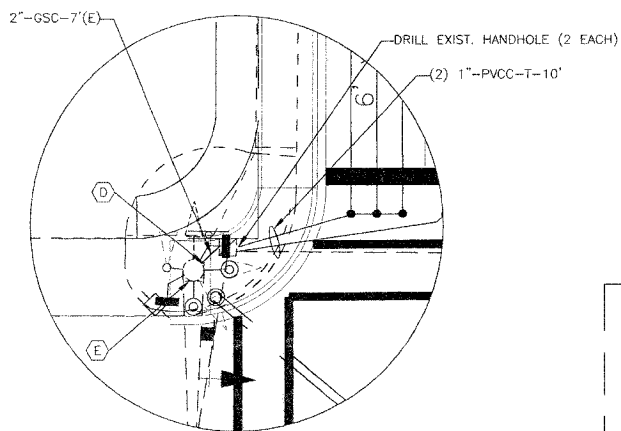
DETAIL D
PEDESTRIAN SIGN
R10-4B(L)
MOUNT ABOVE
PUSHBUTTON
5 EACH REQUIRED



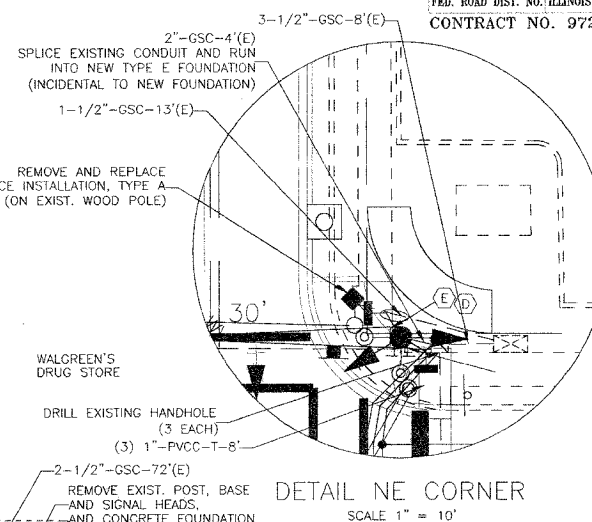
DETAIL E
PEDESTRIAN SIGN
R10-4B(R)
MOUNT ABOVE
PUSHBUTTON
3 EACH REQUIRED



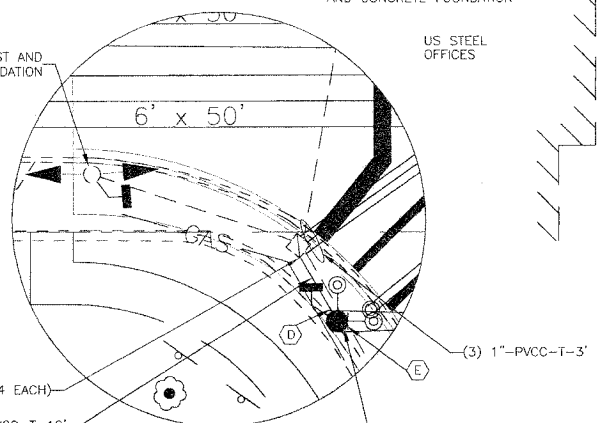
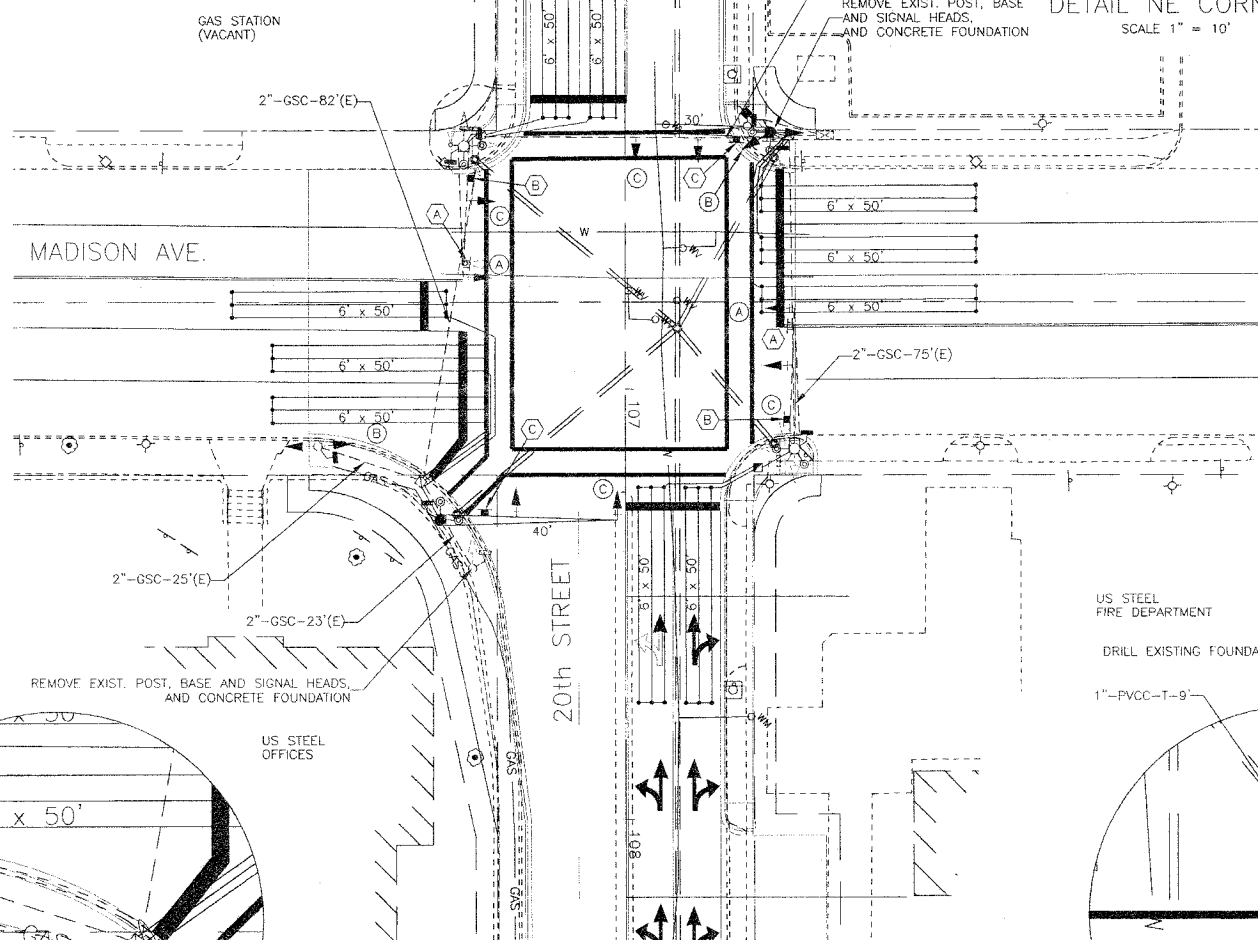
PHASE DESIGNATION DIAGRAM



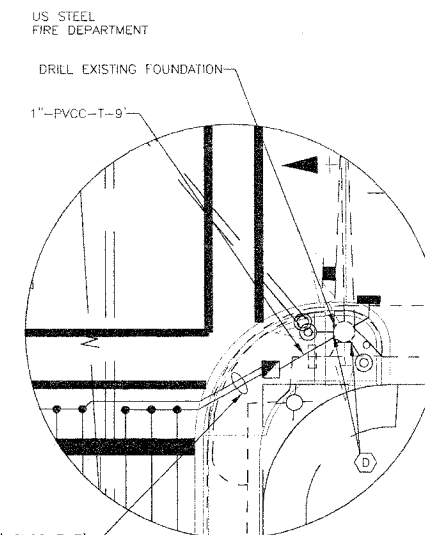
DETAIL NW CORNER
SCALE 1" = 10'



DETAIL NE CORNER
SCALE 1" = 10'



DETAIL SW CORNER
SCALE 1" = 10'



DETAIL SE CORNER
SCALE 1" = 10'

F.A.U. SECTION COUNTY TOTAL SHEET SHEETS NO.
908902-00180-01-PV MADISON 28 22
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
CONTRACT NO. 97251

SHEET NO.

22

Job No. 160-04
Date: 2/17/05
Scale: 1" = 20'
Drawn by: C.S.
Design by: K.W.
Approved by: D.B.B.
File Name: TS160-04

REVISIONS
3/9/05

CBB Crawford, Bunte, Brammeyer
Traffic and Transportation Engineers
St. Louis, Missouri/Glen Carbon, Illinois
314-878-6644 618-656-2612
Fax: 314-878-5876 E-Mail: cbb@cbbtraffic.com

TRAFFIC SIGNAL PLAN

20th STREET & MADISON AVENUE
GRANITE CITY, ILLINOIS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
908902	00180-01-PV	MADISON	28	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 97251				

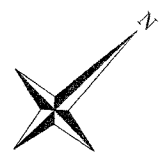
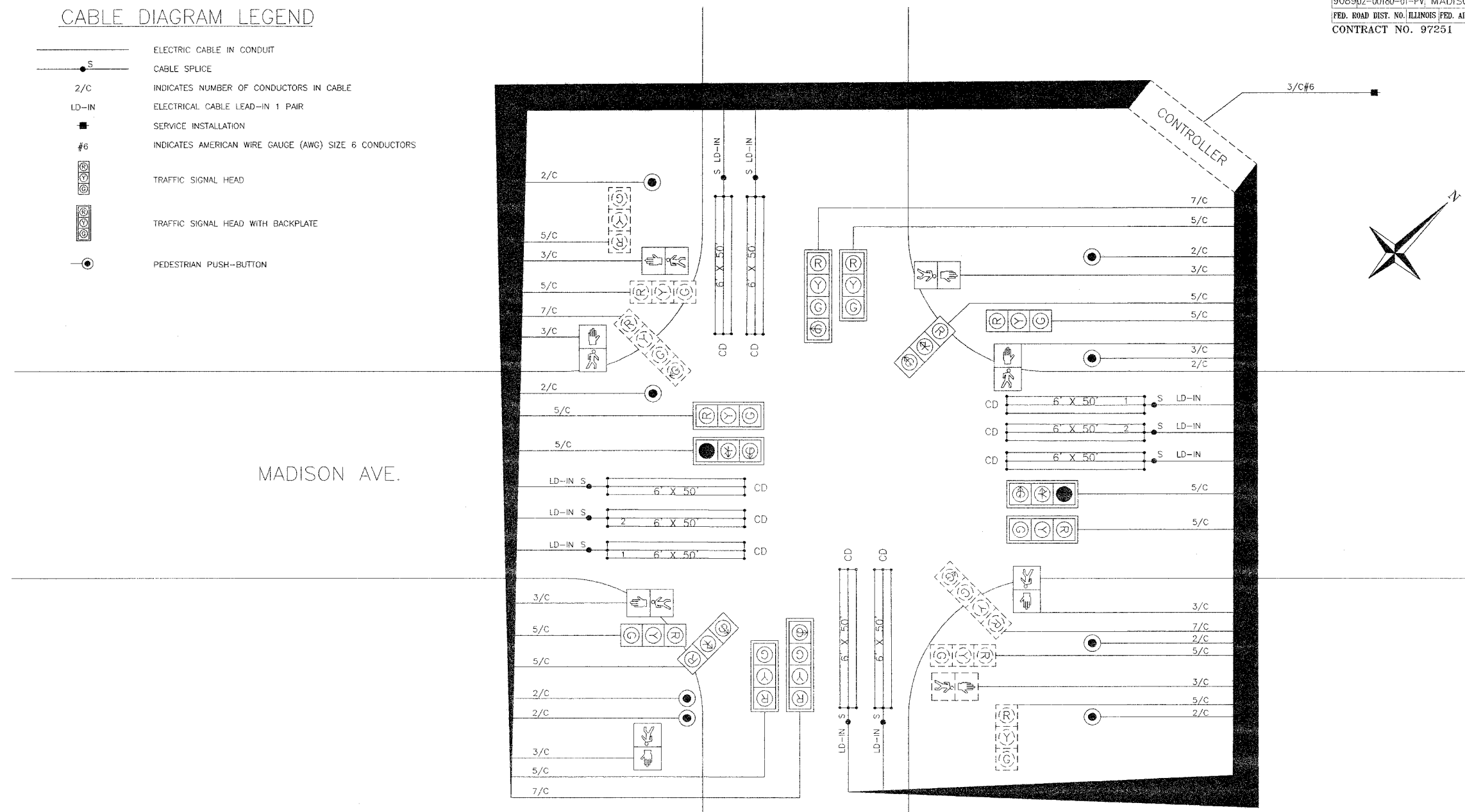
SHEET NO.
23

Job No. 160-04
Date: 2/17/05
Scale: NONE
Drawn by: C.S.
Design by: K.W.
Approved by: D.B.B.
File Name: TS160-04

REVISIONS
3/8/05

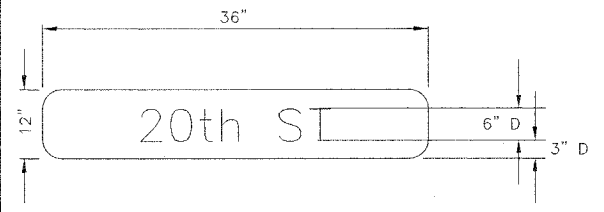
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- CABLE SPLICE
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- LD-IN ELECTRICAL CABLE LEAD-IN 1 PAIR
- SERVICE INSTALLATION
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN PUSH-BUTTON

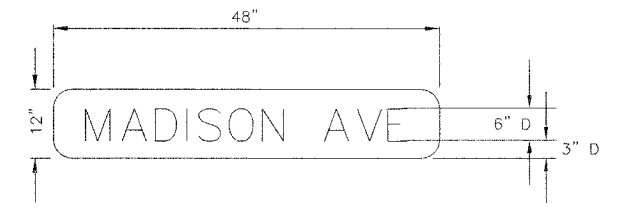


MADISON AVE.

20TH ST.



DETAIL **B**
STREET NAME SIGNS
(NOT TO SCALE)
MAST ARM MOUNTED
2 EACH REQUIRED
SIGN PANEL-TYPE 1

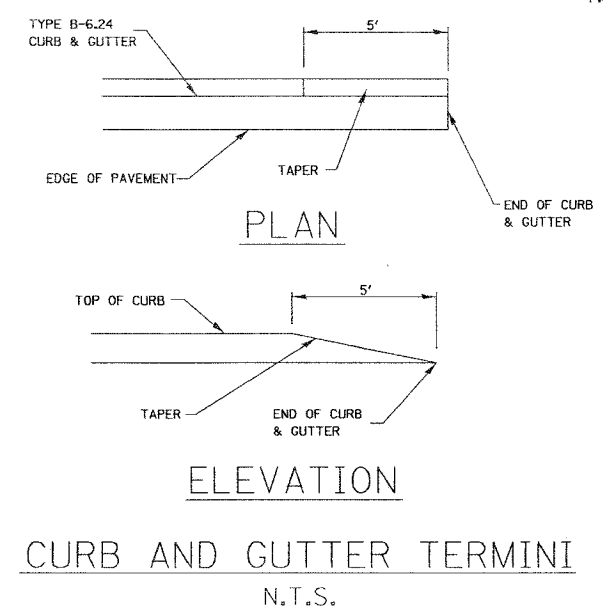
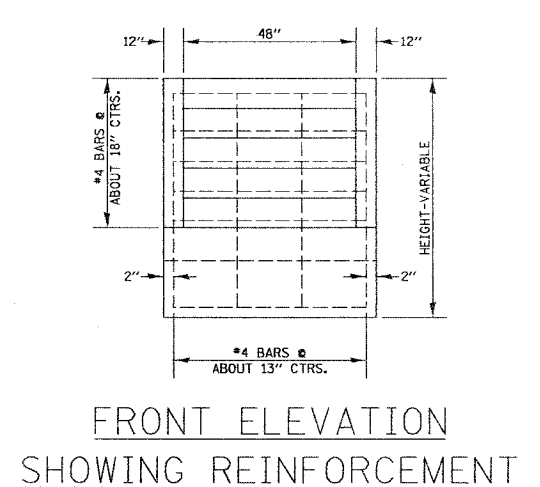
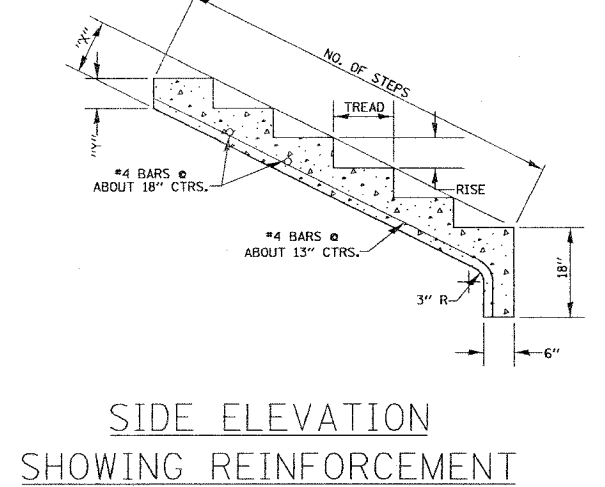
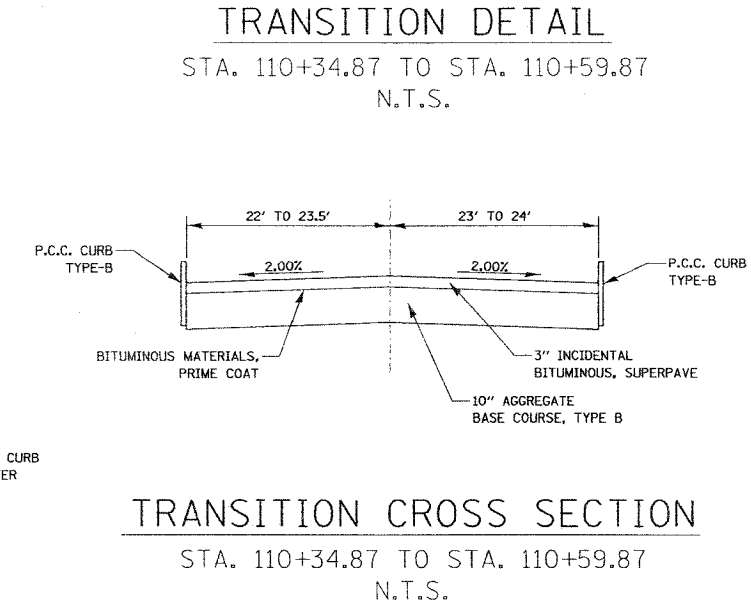
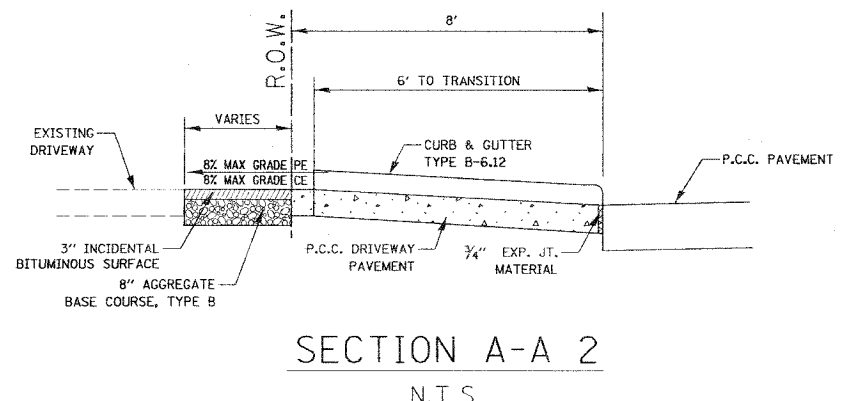
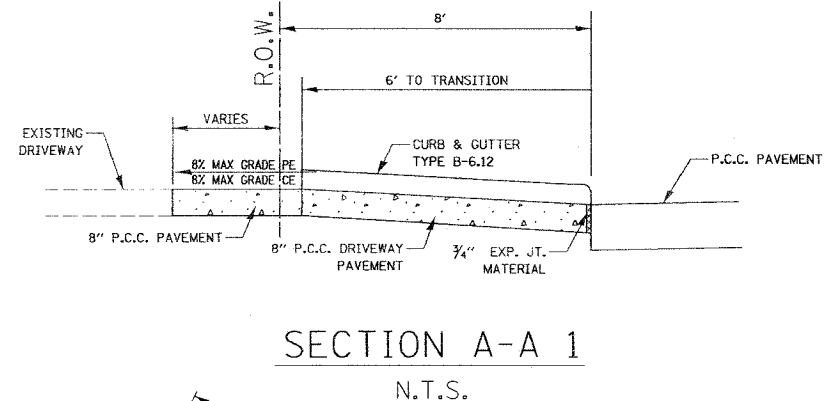
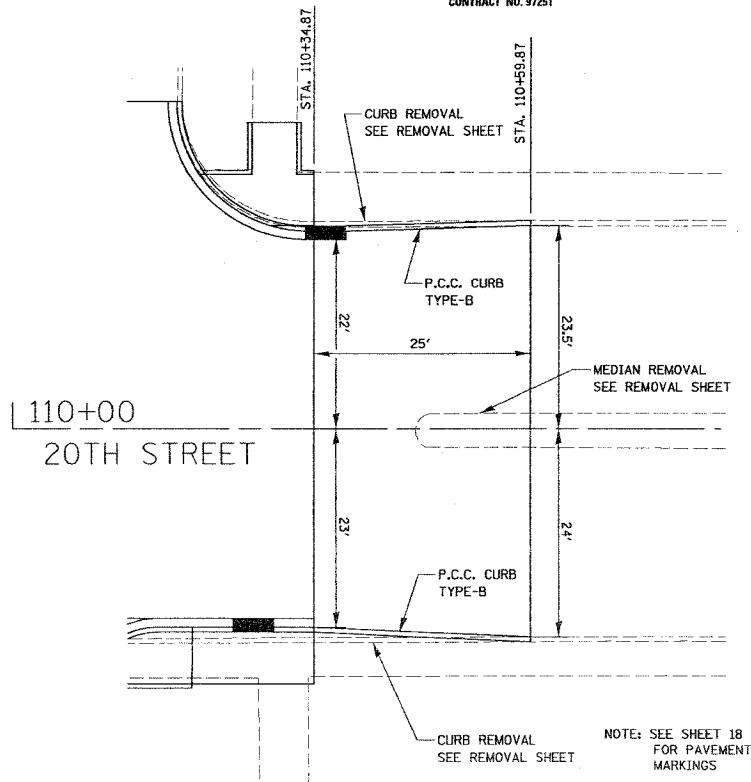
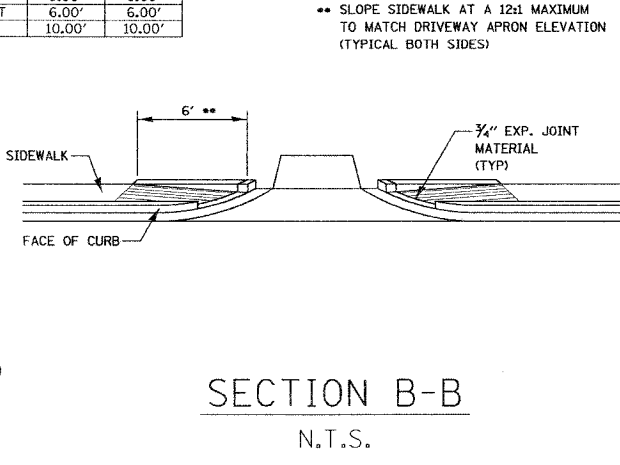
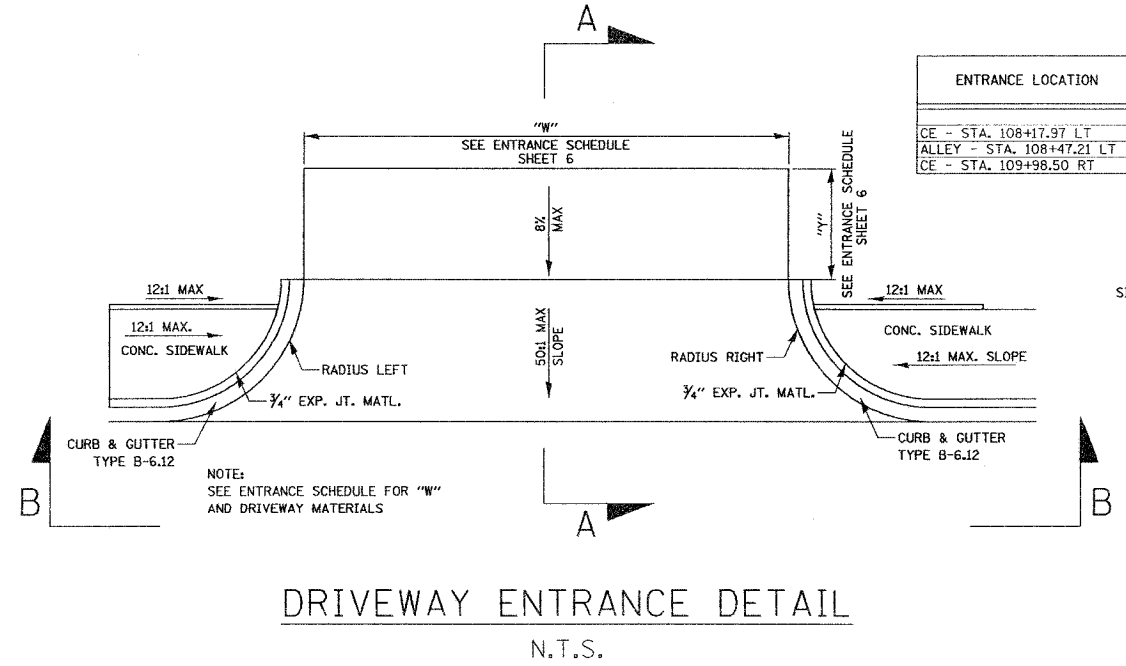


DETAIL **C**
STREET NAME SIGNS
(NOT TO SCALE)
MAST ARM MOUNTED
2 EACH REQUIRED
SIGN PANEL-TYPE 1

CBB Crawford, Bunte, Brammeier
Traffic and Transportation Engineers
St. Louis, Missouri/Glen Carbon, Illinois
314-878-6644 618-656-2612
Fax: 314-878-5876 E-Mail: cbb@cbbtraffic.com

CABLE DIAGRAM
20th STREET & MADISON AVENUE
GRANITE CITY, ILLINOIS

ENTRANCE LOCATION	RADIUS LEFT	RADIUS RIGHT
CE - STA. 108+17.97 LT	5.00'	6.00'
ALLEY - STA. 108+47.21 LT	6.00'	6.00'
CE - STA. 109+98.50 RT	10.00'	10.00'



SLOPE	TREAD	RISE	\"X\"	\"Y\"
1:1	8"	8"	10 3/4"	7 1/2"
1 1/2:1	12"	8"	11 3/4"	6"
2:1	12"	6"	10 3/4"	5 3/4"
3:1	12"	4 1/2"	9 1/4"	5 1/4"
4:1	16"	4"	8 1/4"	5 1/8"

CONCRETE STAIR DETAIL
STA. 108+88.04 RT
N.T.S.

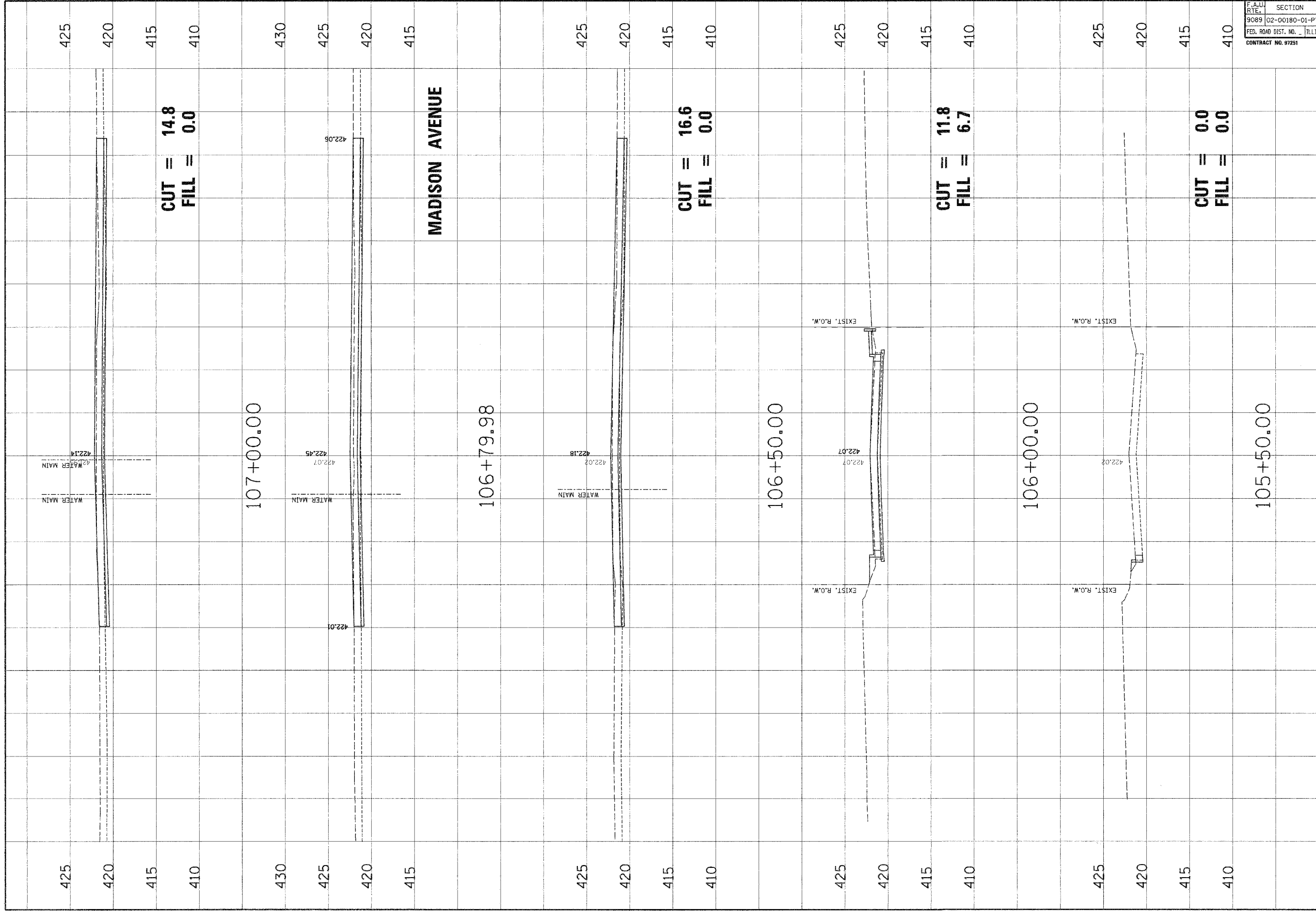
- NOTES:
- REMOVE AND REINSTALL EXISTING HANDRAIL ON NEW CONCRETE STAIRCASE.
 - RISE AND TREAD DIMENSIONS MAY BE FIELD ADJUSTED BY THE ENGINEER.

BY	DATE	
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

BY	DATE	
ORIGINAL SURVEYED		
SURVEY PLOTTED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

<p>Juneau Associates, Inc. P.C. CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1255 Granite City, Illinois 62040 Phone: (618) 957-1400 / (618) 957-8000 Fax: (618) 957-5541</p>				<p>MISCELLANEOUS DETAILS F.A.U. ROUTE 9089 20TH STREET (PHASE I) GRANITE CITY, ILLINOIS SECTION No. 02-00180-01-PV</p>			
<p>NO. DATE BY REMARKS</p>				<p>SCALE NOT TO SCALE</p>			
				<p>DSN. BY: BFK DATE: 2/18/05 SHEET</p>			
				<p>DWN. BY: JJB DATE: 2/18/05 24</p>			
				<p>CHK'D: BFK DATE: 2/18/05</p>			
<p>DWG. NO.</p>				<p>JOB NO. 030204 DGN. NAME: misc011a OF 28 SHTS</p>			

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	25
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97251				



NO.	DATE	BY	REVISIONS

CLIENT/PROJECT : **20TH STREET RECONSTRUCTION PHASE 1**

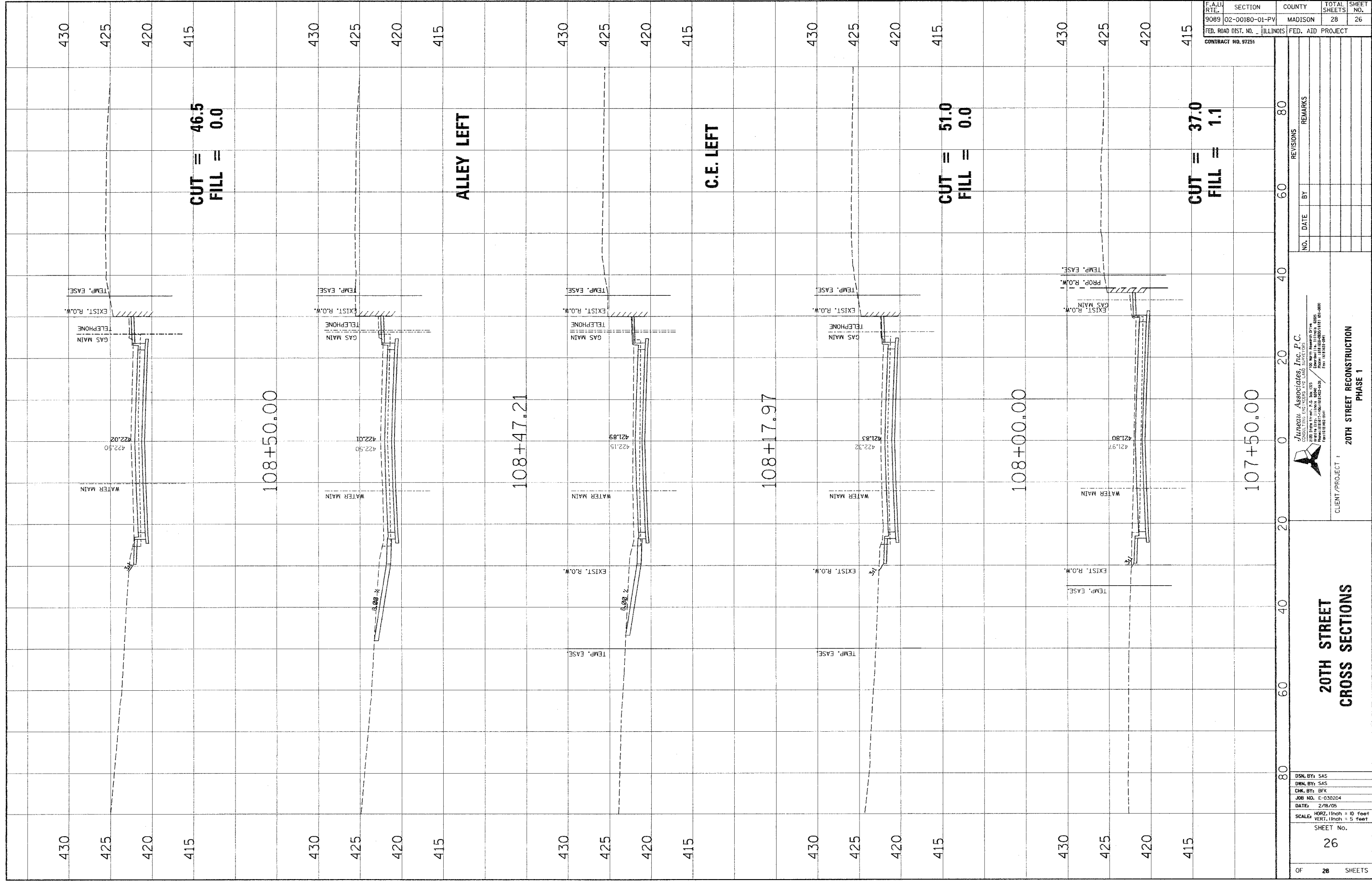
Janzau Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 100 North Main Street, P.O. Box 125
 Normal, IL 61751-0125
 Phone: (618) 262-2000 / (618) 262-2000
 Fax: (618) 262-2001

20TH STREET CROSS SECTIONS


DSN. BY: SAS
 DWN. BY: SAS
 CHK. BY: BFK
 JOB NO. E-030204
 DATE: 5/12/05
 SCALE: HORZ. 1/4" = 10 feet
 VERT. 1/4" = 5 feet

SHEET No. **25**

OF 28 SHEETS



F.A.D. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9085	02-00180-01-PV	MADISON	28	26
FED. ROAD DIST. NO. _ ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 97251				

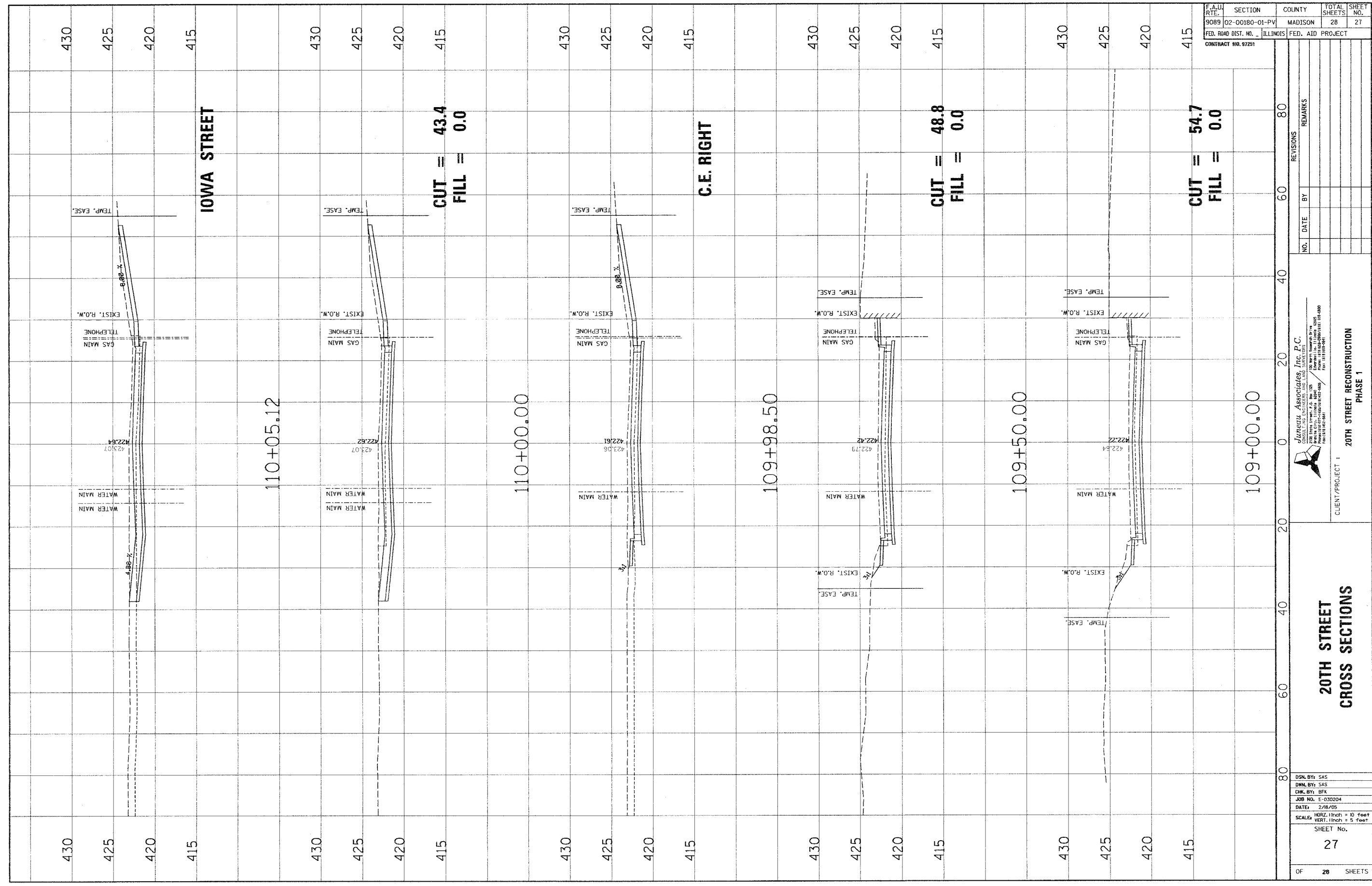

Jurek Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 100 West 18th Street, Suite 100
 New York, NY 10011-3608
 Phone: (212) 398-1100
 Fax: (212) 398-1101

CLIENT/PROJECT : 20TH STREET RECONSTRUCTION PHASE 1

NO.	DATE	BY	REVISIONS	REMARKS


20TH STREET CROSS SECTIONS

DSN BY: SAS
 DRN BY: SAS
 CHK BY: BFK
 JOB NO. E-030204
 DATE: 2/18/05
 SCALE: HORIZ. 1 inch = 10 feet
 VERT. 1 inch = 5 feet
 SHEET No. 26
 OF 28 SHEETS



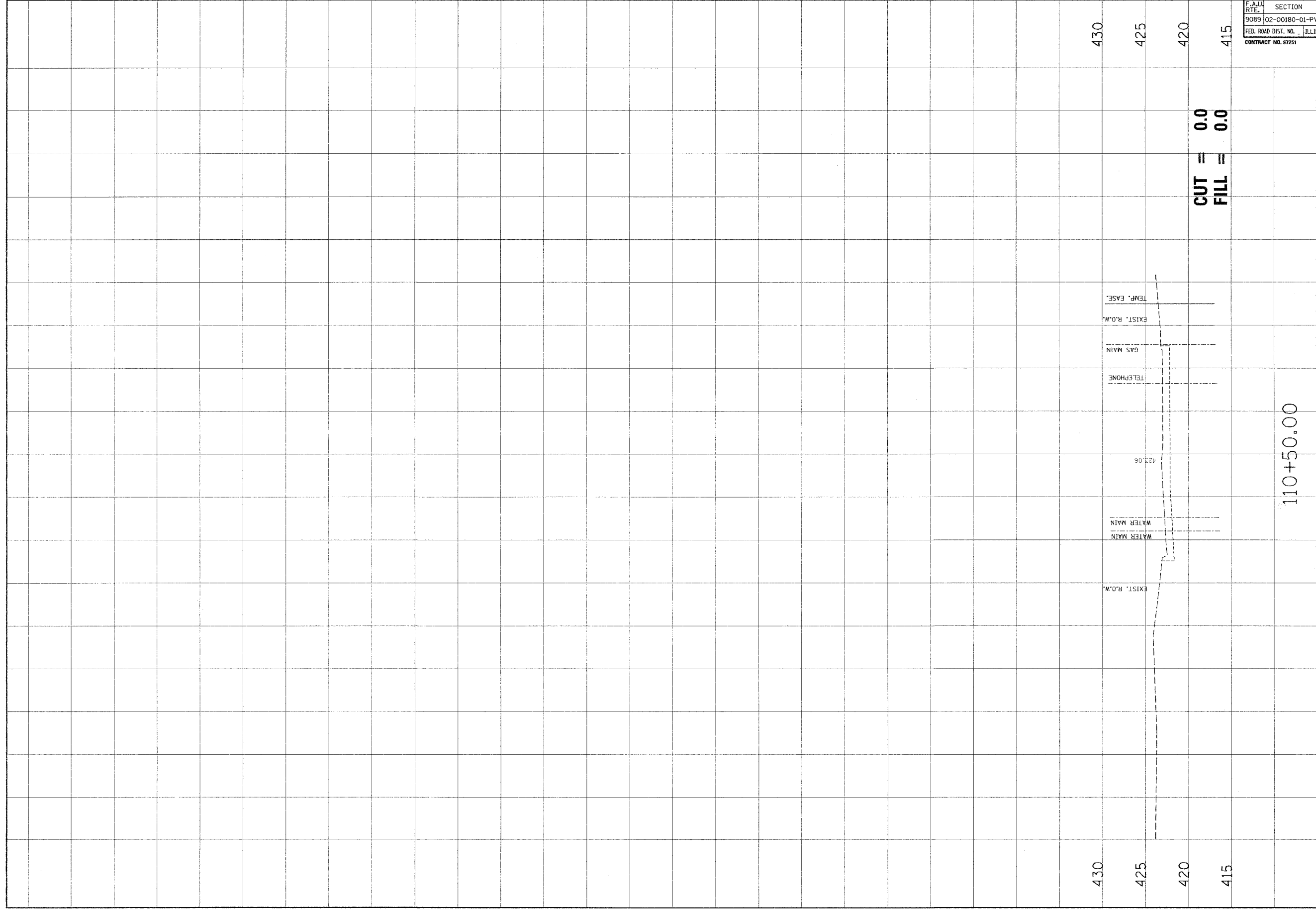
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	27
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 97251				

NO.	DATE	BY	REVISIONS


J. J. Associates, Inc. P.C.
 100 North Lincoln Street
 Suite 200
 Chicago, Illinois 60610
 Phone: (312) 467-1000
 Fax: (312) 467-1001


CLIENT/PROJECT : **20TH STREET RECONSTRUCTION PHASE 1**

20TH STREET CROSS SECTIONS
DSNL BY: SAS DNL BY: SAS CHK. BY: BFK JOB NO. E-030204 DATE: 2/18/05 SCALE: HORZ. 1/4" = 10 feet VERT. 1/4" = 5 feet SHEET No. 27
OF 28 SHEETS



F.A.U. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9089	02-00180-01-PV	MADISON	28	28
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 87251				

NO.	DATE	BY	REVISIONS	REMARKS


Junear Associates, Inc. P.C.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 400 N. STATE ST., SUITE 1200, CHICAGO, ILLINOIS 60610
 PHONE: (312) 467-1100 FAX: (312) 467-1101
 LICENSE NO. 021-0001615-0001 (Professional Engineer)

CLIENT / PROJECT : 20TH STREET RECONSTRUCTION PHASE 1

**20TH STREET
CROSS SECTIONS**

DSN. BY: SAS
DWN. BY: SAS
CHK. BY: BFK
JOB NO. E-030204
DATE: 2/18/05
SCALE: HORIZ. 1 inch = 10 feet VERT. 1 inch = 5 feet
SHEET No. 28
OF 28 SHEETS