

DESIGN DESIGNATION

A.D.T. - 1992 = 12025
A.D.T. - 2012 = 15425
D.M.V. = XXX
T = 2%
V = 40 M.P.H.

NO R/W REQUIRED

CONVENTIONAL SIGNS

(USED IN PLANS)

BUILDINGS AND STRUCTURES	—
GUARD RAIL	—
CONCRETE RIGHT-OF-WAY MARKER	—
STEEL RIGHT-OF-WAY MARKER	—
FENCE	—
CHAIN LINK	—
WOVEN WIRE	—
GATE	—
UTILITIES	—
TELEPHONE	—
POWER	—
GAS	—
WATER	—
EXIST. MANHOLE	—
EXIST. FIRE HYDRANT	—
EXIST. WATER VALVE	—
EXIST. WATER METER	—
EXIST. DROP INLET	—
DITCH BLOCK	—
EXIST. GROUND MOUNTED SIGN	—
EXIST. LIGHT POLE	—
EXIST. H-FRAME POWER POLE	—

NOTE: DASHED OR OPEN SYMBOLS INDICATES EXISTING FEATURES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

JACKSON COUNTY

COUNTY JACKSON
ROUTE 24
PROJECT F.A.H.S.-24-1(80)
JOB NO. J4X0524

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (1 SHEET)	2
SUMMARY (1 SHEET)	3-4
SUMMARY (2 SHEET)	3-5
PLAN-PROFILE	3
REFERENCE POINTS	3
SPECIAL SHEETS	3
TRAFFIC CONTROL SHEETS	2-6A
SIGNALING	7-10
SIGNALS	11
STRIKING	11
CULVERT SECTIONS	11
BRIDGE DRAWINGS	11
STANDARD PLANS INDEX	11
CROSS SECTIONS	11
COMPUTER DATA	11

LENGTH OF PROJECT

END OF PROJECT	STA. 199 + 00
BEGINNING OF PROJECT	STA. 188 + 36
APPARENT LENGTH	1064.00 FEET
EQUATIONS AND EXCEPTIONS	
194 + 32.40K = 194 + 34.74H	-2.3
TOTAL CORRECTIONS	2.30 FEET
NET LENGTH OF PROJECT	1061.70 FEET
STATE LENGTH	0.201 MILES
FEDERAL LENGTH	0.201 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

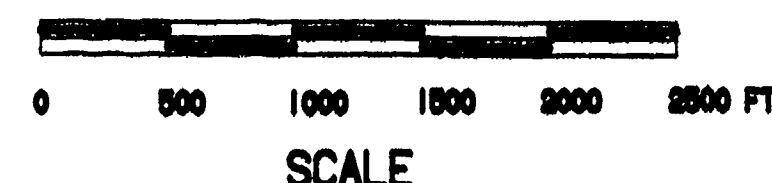
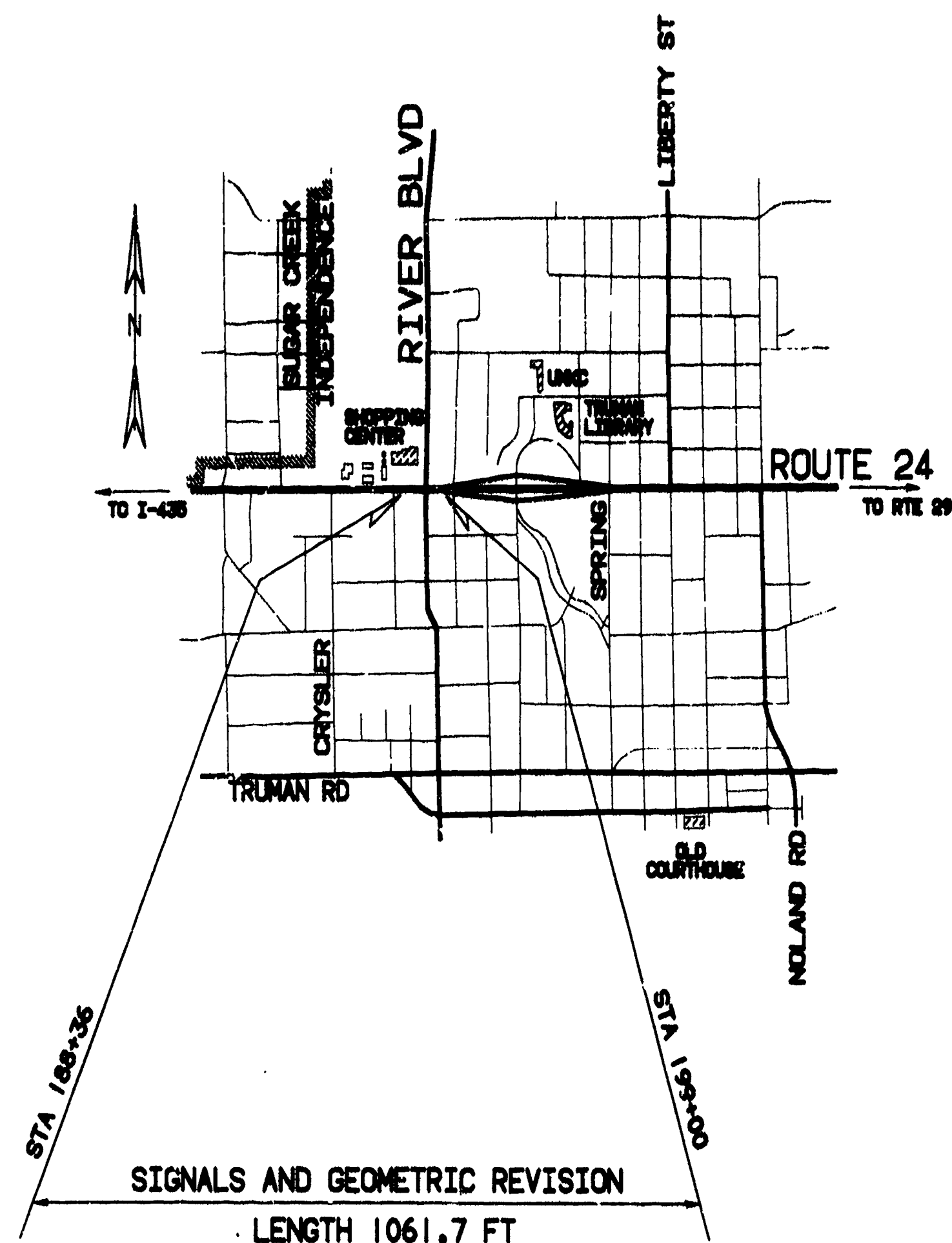
SUBMITTED

James M. ... 5-16-76
CHIEF ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

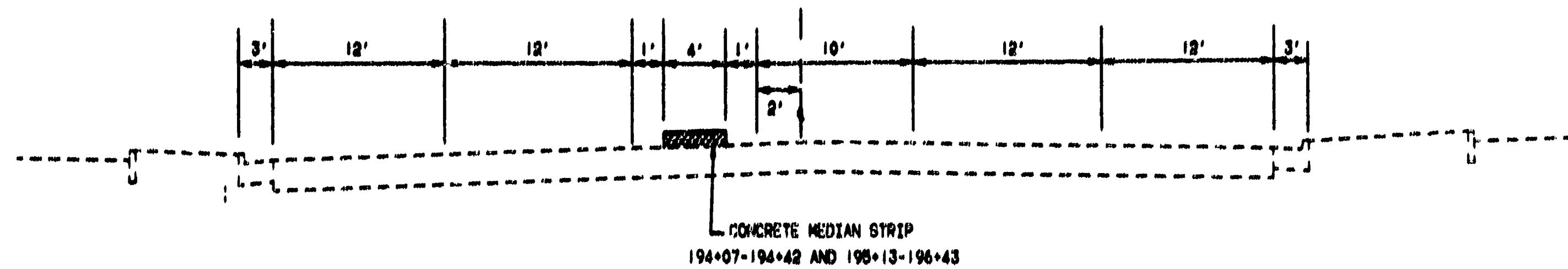
APPROVED

DIVISION ADMINISTRATOR DATE



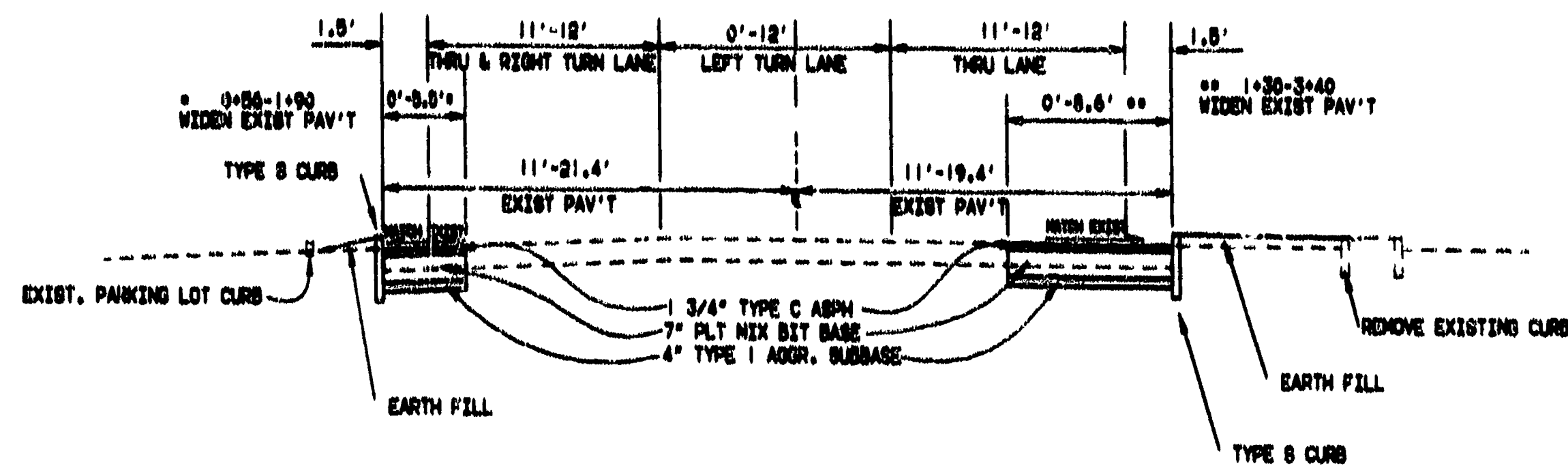
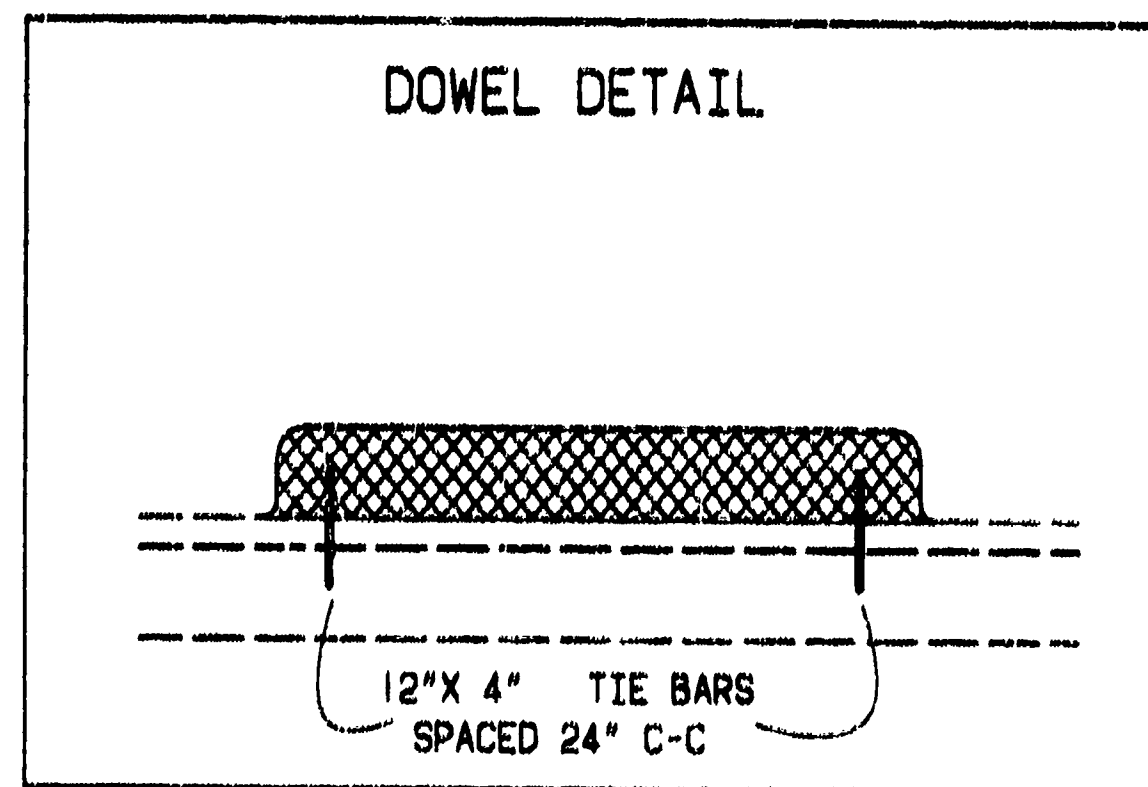
FINAL PLANS

STATE MO	JOB NO J4X0824	SHEET NO 2
COUNTY 4	PROJECT NO F.A.M.B.-24-1(50)	DATE 24
	COUNTY JACKSON	



ROUTE 24

DOWEL DETAIL



RIVER ROAD NORTH

TYPICAL SECTION
SHEET 1 OF 1

493 476

FINAL PLANS

DATE NO	JOB NO. J4X0524	SHEET NO. 2A
DEST. NO. 4	PROJECT NO. F.A. HES-24-1(50)	WORK 24
	COUNTY Jackson	

[illegible][illegible]

✓✓✓✓✓

STATE MO	JOB NO J4X0524	SHEET NO 28
PROJECT NO F.A.H.E.B.-24-1(50)		
COUNTY JACKSON		24

SHEET 1 OF 2

REMOVAL OF IMPROVEMENTS

STATION TO	STATION	LOCATION	DESCRIPTION
193+70	194+20	NORTH OF ROUTE 24 WEST	CURB - ENTRANCE CLOSING

6" TYPE 8 CURB

STATION TO	STATION	LOCATION	L.F.
1+71	3+04	EAST OF RIVER RD NORTH	0
0+50	1+92	WEST OF RIVER RD NORTH	0
2+40	3+39	WEST OF RIVER RD NORTH	0
193+70	194+20	NORTH OF ROUTE 24 WEST	36
			36

3' CURB & GUTTER

STATION TO	STATION	LOCATION	L.F.
193+70	194+20	ENTRANCE CLOSING NORTH SIDE ROUTE 24	37

SODDING

STATION TO	STATION	LOCATION	S.Y.
1+72	3+04	RIVER RD NORTH	0
193+41	194+20	NORTH ROUTE 24 ENTRANCE CLOSING	152
			152

RAISED MEDIAN

STATION TO	STATION	LOCATION	CONC MEDIAN STRIP L.F.	CONC MEDIAN S.Y.
--	--	ISLANDS NORTH OF ROUTE 24	0	68.9
			0	68.9

PERMANENT STRIPING

STATION TO	STATION	LOCATION	4" SOLID YELLOW PAINT L.F.	4" SOLID WHITE PAINT L.F.	4" INTERMITTENT WHITE PAINT L.F.
195+15	196+41	EAST SIDE ROUTE 24	0		
191+44	194+05	WEST SIDE ROUTE 24	0		
2+34	3+31	NORTH SIDE RIVER RD	0		
196+41	199+06	EAST SIDE ROUTE 24	0		
189+13	191+44	WEST SIDE ROUTE 24	0		
1+20	2+34	NORTH SIDE RIVER RD	0		
195+06	196+41	EAST SIDE ROUTE 24		0	
191+44	194+12	WEST SIDE ROUTE 24		0	
2+34	3+31	NORTH SIDE RIVER RD		0	
195+06	199+06	EAST SIDE RIVER RD			0
189+13	194+12	WEST SIDE RIVER RD			0

WIDENING QUANTITIES

STATION TO	STATION	LOCATION	TYPE C A.C. TONS	A.C. H.A. TONS	PLANT MIX BIT. BASE A.C. TONS	H.A. TONS	TYPE 1 AGGREGATE FOR BASE-4" THICK TONS
0+56	3+40	RIVER RD RT & LT	0	0	0	0	0

PRIME

STATION TO	STATION	LOCATION	GALLONS
0+56	3+40	RIVER RD RT & LT	0

TACK

STATION	LOCATION	GALLONS
2+20	RIVER RD RT	0

SUBGRADE COMPACTION (6 INCHES)

STATION TO	STATION	LOCATION	STATIONS
0+56	3+40	RIVER RD	0

EARTH FILL - NO DIRECT PAYMENT

STATION TO	STATION	LOCATION	S.Y.
0+56	3+40	RIVER RD	0

PAVEMENT STRIPE REMOVAL

LOCATION	LENGTH	DESCRIPTION
RIVER ROAD NORTH OF INTERSECTION	0	PAINTED MEDIAN AND LANE LINES

485 478

SUMMARY OF QUANTITIES

D-208
REV SEP 1, 1990

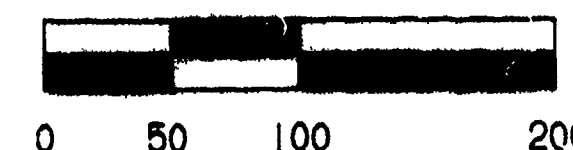
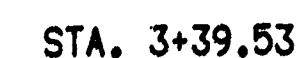
STATE	MO	JOB NO.	J4X0524	SHEET NO.	28
PROJECT NO.	F.A.H.S.-24-1(50)	ISSUE			
COUNTY	JACKSON	DATE			24

SHEET 2 OF 2

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1Lb	48X48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48X48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48X48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48X48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48X48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48X48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48X48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4Lb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM LT ARROWS)
W01-4Rb	48X48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)
W01-6	48X24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.0					HORIZONTAL ARROW (SYMBOL)
W01-7	48X24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18X24	3.0					CHEVRON (SYMBOL)
W03-1b	48X48	16.0					STOP AHEAD
W03-2b	48X48	16.0					YIELD AHEAD
W03-3b	48X48	16.0					SIGNAL AHEAD (SYMBOL)
W03-4b	48X48	16.0					BE PREPARED TO STOP
W04-1Lb	48X48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1Rb	48X48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1a	48X48	16.0					ROAD NARROWS
W05-3a	48X48	16.0					ONE LANE BRIDGE
W06-1b	48X48	16.0					DIVIDED HIGHWAY
W06-2b	48X48	16.0					DIVIDED HIGHWAY ENDS
W06-3b	48X48	16.0					TWO WAY TRAFFIC (SYMBOL)
W06-3x	24X18	3.0					TWO WAY TRAFFIC (PLAQUE)
W08-1b	48X48	16.0					BUMP
W08-2b	48X48	16.0					DIP
W08-3	48X48	16.0					PAVEMENT ENDS
W08-4b	48X48	16.0					SOFT SHOULDER
W08-5b	48X48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6b	48X48	16.0					TRUCK CROSSING
W08-6c	48X48	16.0					TRUCK ENT (INCLUDES W025-1a PLATE)
W08-7a	36X36	9.0					LOOSE GRAVEL
W08-9	48X48	16.0					LOW SHOULDER
W08-9Lc	48X48	16.0					UNEVEN PAVEMENT (SYM FOR LT DROPOFF)
W08-9Rc	48X48	16.0					UNEVEN PAVEMENT (SYM FOR RT DROPOFF)
W09-1R	48X48	16.0					RIGHT LANE ENDS (INCLUDES W025-3c PLATE)
W09-2Rc	48X48	16.0					LANE ENDS MERGE RIGHT (INCLUDES W025-3b PLATE)
W10-1a	42D1c	9.6					RAILROAD CROSSING
W12-1	24X24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W12-2a	48X48	16.0					LOW CLEARANCE (SYMBOL)
W12-2x	24X18	3.0					LOW CLEARANCE (PLAQUE)
W12-3a,b	144X24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W13-1a	24X24	4.0					ADVISORY SPEED (PLAQUE)
W20-1	48X48	16.0					ROAD CONST AHEAD (INCLUDES W025-6 PLATE)
W20-2	48X48	16.0					DETOUR AHEAD (INCLUDES W025-1b PLATE)
W20-3	48X48	16.0					ROAD CLOSED AHEAD (INCLUDES W025-1c PLATE)
W20-4a	48X48	16.0					ONE LANE ROAD AHEAD (INCLUDES W025-1a PLATE)
W20-5	48X48	16.0					RIGHT LANE CLOSED AHEAD (INCL W025-3d PLATE)
W20-6a	48X48	16.0					RIGHT LANE CLOSED (INCLUDES W025-3c PLATE)
W20-7b	48X48	16.0					FLAGGER (SYMBOL)
W20-7x	24X18	3.0					500 FT/1000 FT (PLAQUE)
W20-9a	48X48	16.0					OPEN TRENCH
W21-2b	48X48	16.0					FRESH OIL
W21-5b	48X48	16.0					SHOULDER WORK AHEAD
W21-7	36X36	9.0					SAND BLASTING
W22-1	48X48	16.0					BLASTING ZONE 1000 FT
W22-2	42X36	10.5					TURN OFF 2-WAY RADIO
W22-3	42X36	10.5					END BLASTING ZONE
W22-5	30X30	6.3					NO PASSING ZONES UNMARKED
W25-1a	26X9						1000 FT/1500 FT Plate
W25-1b	38X9						500 FT/1000 FT Plate
W25-1c	34X9						500 FT/1000 FT Plate

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
REGULATORY SIGNS							
W025-3b	30X9						LEFT Plate
W025-3c	33X9						LEFT/CENTER Plate
W025-3d	22X9						LEFT/CENTER Plate
W025-5	30X12	2.5					1/2 MILE/1 MILE (PLAQUE)
W025-6	28X9						RAMP/BRIDGE Plate
R1-1b	48X48	13.25					STOP
R1-2a	48X48/48	6.93					YIELD
R1-3	20X9	1.25					4-WAY (PLAQUE)
R1-5	20X9	1.25					3-WAY (PLAQUE)
R2-1b	36X48	12.00					SPEED LIMIT XX
R2-5b	36X48	12.00					REDUCED SPEED AHEAD
R3-1b	36X36	9.00					NO RIGHT TURN (SYMBOL)
R3-2b	36X36	9.00					NO LEFT TURN (SYMBOL)
R3-3a	36X36	9.00					NO U-TURN (SYMBOL)
R3-4	24X24	4.00					LEFT LANE MUST TURN LEFT
R3-7L	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R3-7R	30X30	6.25					DO NOT PASS
R4-1b	36X48	12.00					PASS WITH CARE
R4-2b	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7Lb	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R4-7Rb	36X48	12.00					KEEP LEFT
R4-17Lc	36X36	9.00					KEEP RIGHT
R4-17Ra	36X36	9.00					DO NOT ENTER
R5-1	30X30	6.25					WRONG WAY
R5-1a	36X24	6.00					ONE WAY ARROW (LEFT)
R6-1Lc	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-1Ra	48X18	6.00					ONE WAY (LEFT)
R6-2Lc	24X30	5.00					ONE WAY (RIGHT)
R6-2Ra	24X30	5.00					ROAD CLOSED
R11-2	48X30	10.00					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-3	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
R11-4	60X30	12.50					TO ONCOMING TRAFFIC (PLAQUE)
R12-3b	36X36	9.00					WHEN FLASHING
S4-4a	36X18	4.50					
GUIDE SIGNS							
G020-1	60X36	15.00					ROAD CONSTRUCTION NEXT XX MILES
G020-2	60X24	10.00					END CONSTRUCTION
W04-8a	30X15	3.13					DETOUR (PLAQUE)
W04-9L	48X36	12.00					DETOUR (LEFT ARROW)
W04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
W04-10L	48X18	6.00					DETOUR (ARROW LEFT)
W04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
W04-11	24X18	3.00					DETOUR ENDS
W5-1L	21X15	2.19					ADVANCE LEFT TURN ARROW
W5-1R	21X15	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							
616-10.08							CONSTRUCTION SIGNS TOTAL 136
616-10.10							RELOCATED SIGNS TOTAL

ITEM NUMBER	SIZE (INCHES)	TOTAL QTY	DESCRIPTION
616-10.20	36X18	1/4	CHANNELIZER (DRUM)
616-10.35	8X24		TYPE I BARRICADE (ONE RAIL)
616-10.36	8X24		TYPE II BARRICADE (TWO RAILS)
616-10.40	48X96	2	FLASHING ARROW PANEL
616-10.45	18X18		TYPE I OBJECT MARKER
616-10.46	6X12		TYPE II OBJECT MARKER
616-10.47	8X24		TYPE III OBJECT MARKER
616-10.50	8		FLASHING ELECTRIC LIGHT
616-10.51	---		WARNING LIGHT TYPE A
616-10.52	---		WARNING LIGHT TYPE B
616-10.53	---		WARNING LIGHT TYPE C
616-10.54	---		STROBE LIGHT
616-10.60	---		RAISED PAVEMENT MARKER
616-10.70	28		FLEXIBLE DELINEATOR
619-10.00	LIN FT		PAVEMENT EDGE TREATMENT
612-10.30	72X144		MOVEABLE BARRICADE (THREE RAILS)
612-20.20	4X4	2	INSTALL SIGN IN A BUNKER



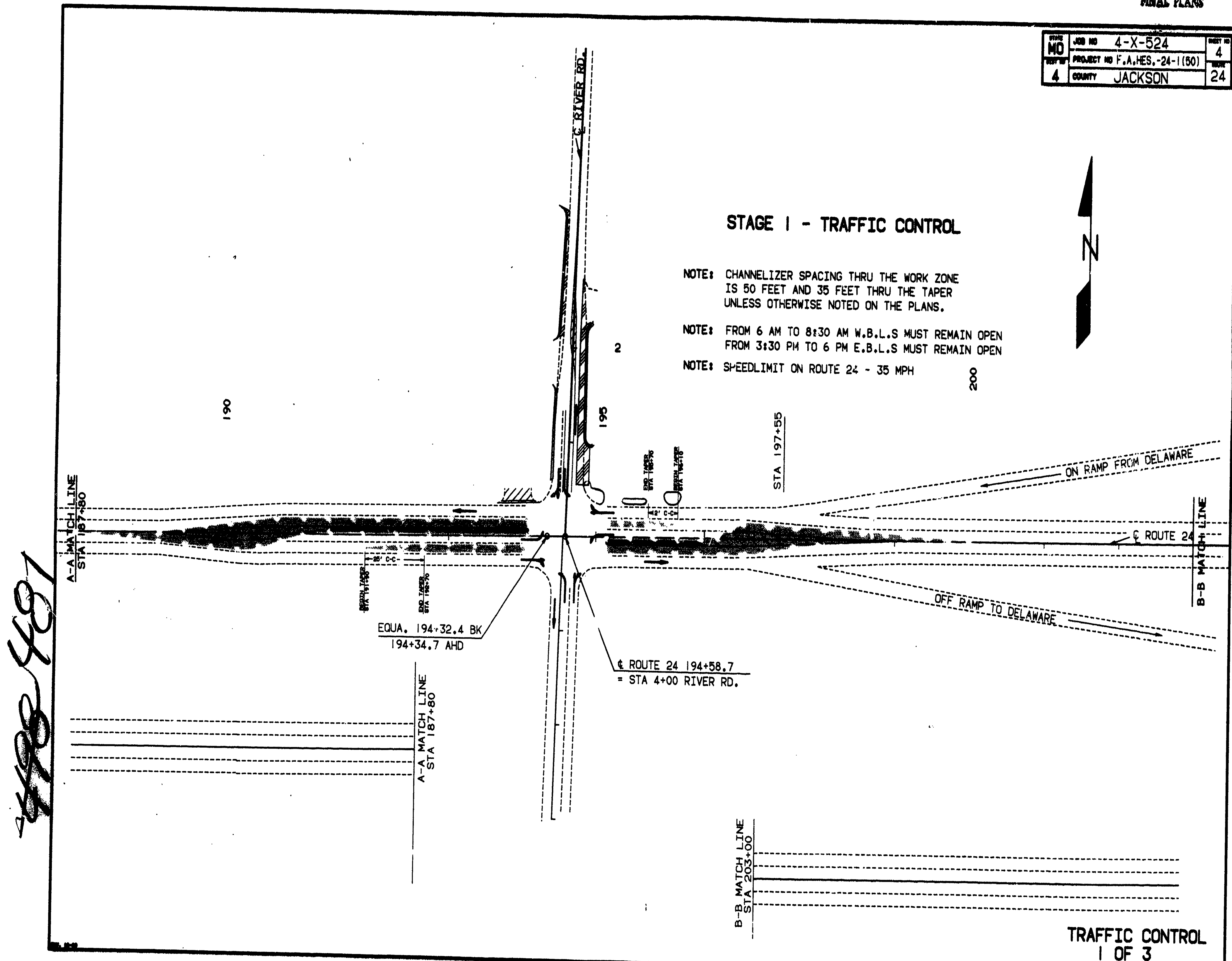
BUILD NOTES

TYPE S CURB BACK OF ENTRANCE CLOSING ROUTE 24 - 193+77 TO 194+13
3' CURB & GUTTER ENTRANCE CLOSING ROUTE 24 - 193+70 TO 194+20
RAISED ISLANDS LEF. AT HI-BOY ENTRANCES - 195+21 & 195+81

STATE	JOB NO	4-X-524	SHEET NO
MD	PROJECT NO	F.A.HES.-24-1(60)	4
4	COUNTY	JACKSON	24

STAGE I - TRAFFIC CONTROL

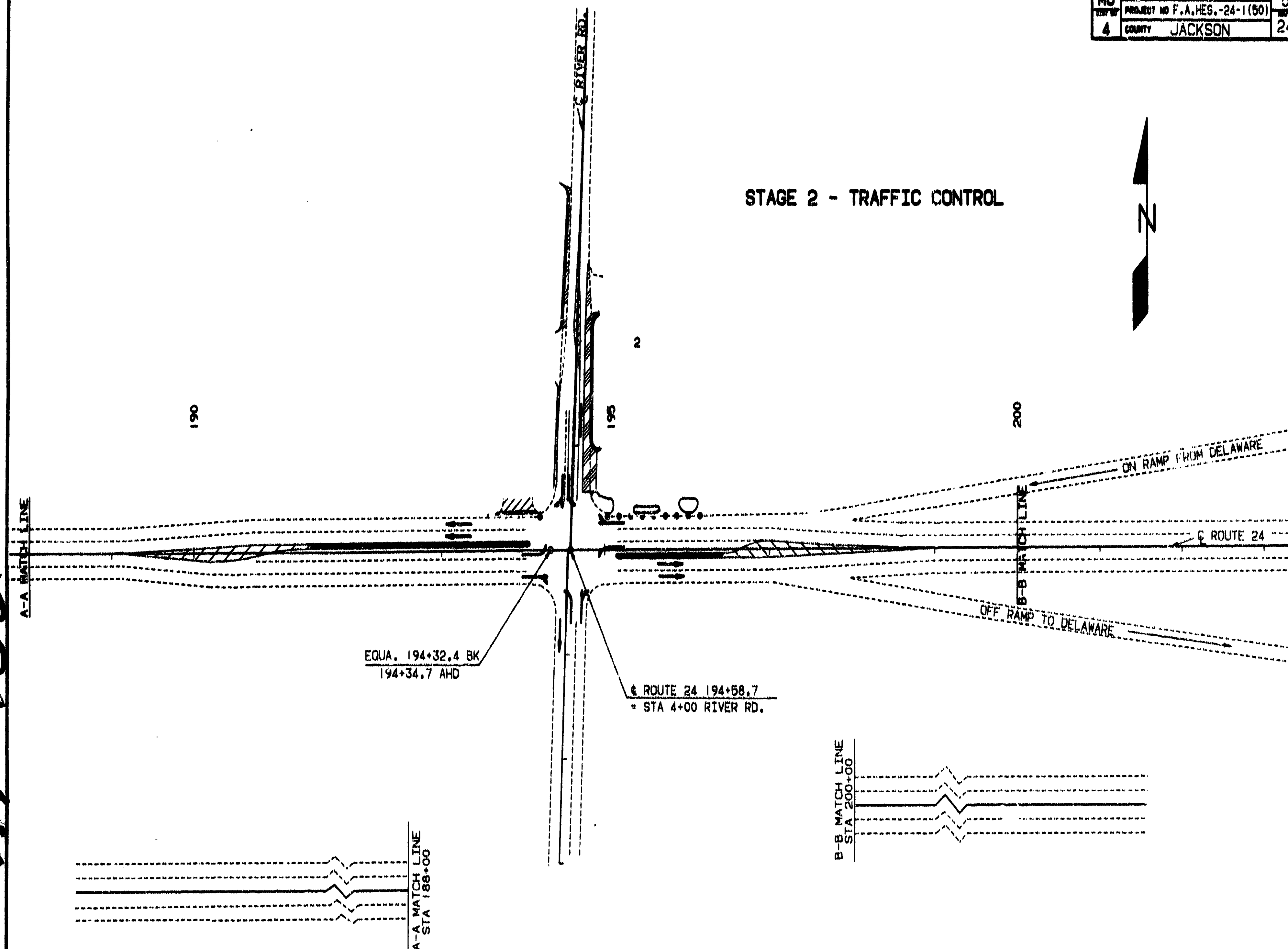
- NOTE: CHANNELIZER SPACING THRU THE WORK ZONE IS 50 FEET AND 35 FEET THRU THE TAPER UNLESS OTHERWISE NOTED ON THE PLANS.
- NOTE: FROM 6 AM TO 8:30 AM W.B.L.S MUST REMAIN OPEN FROM 3:30 PM TO 6 PM E.B.L.S MUST REMAIN OPEN
- NOTE: SPEEDLIMIT ON ROUTE 24 - 35 MPH



FINAL PLANS

STATE	MO	JOB NO	J4X0524	SHEET NO	5
PROJECT NO	4	PROJECT NO	F.A.H.S.-24-1(50)	DATE	24
COUNTY	JACKSON				

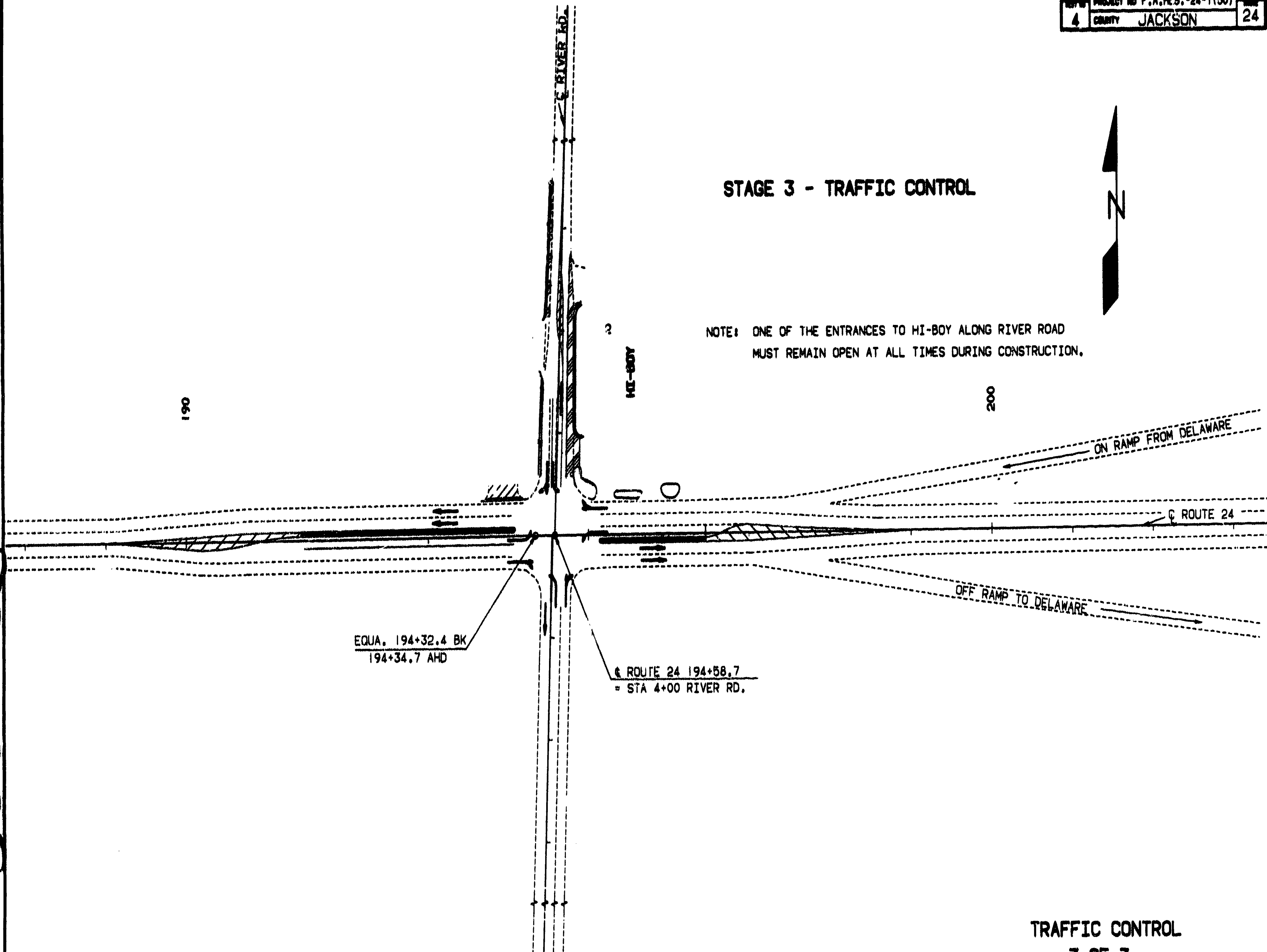
STAGE 2 - TRAFFIC CONTROL



STATE MO	JOB NO J4X0524	SHEET NO 6
REF NO 4	PROJECT NO F.A.H.S.-24-1(50)	24
	COUNTY JACKSON	

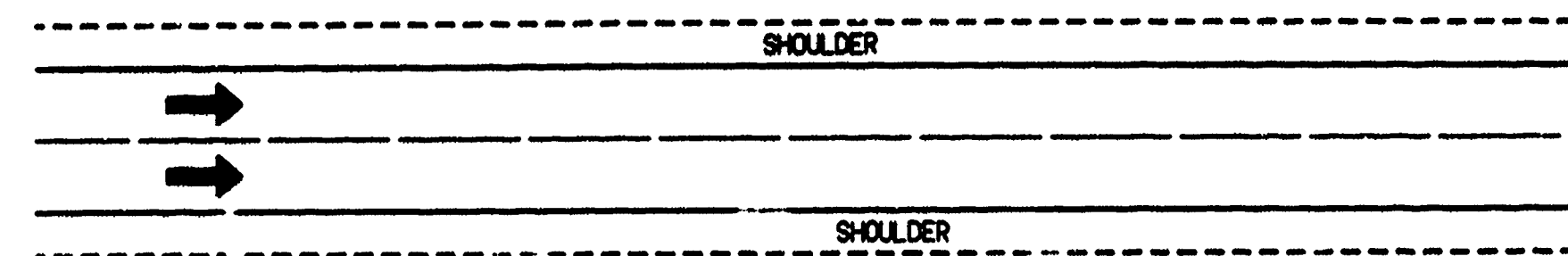
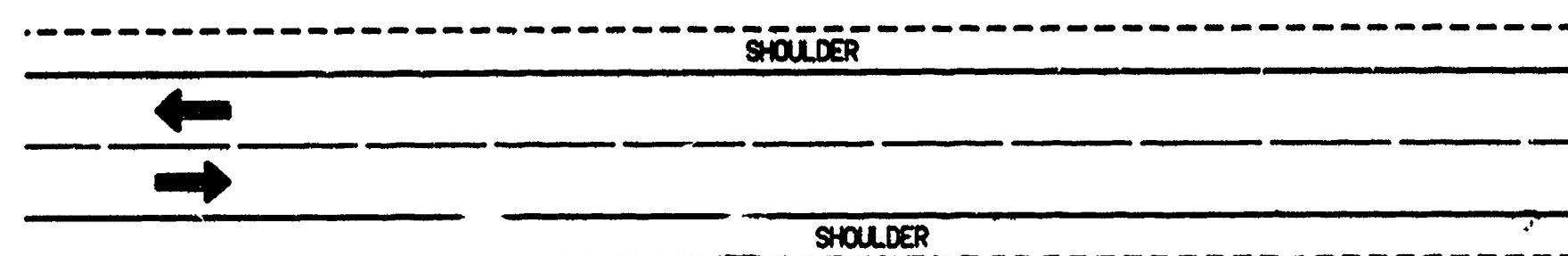
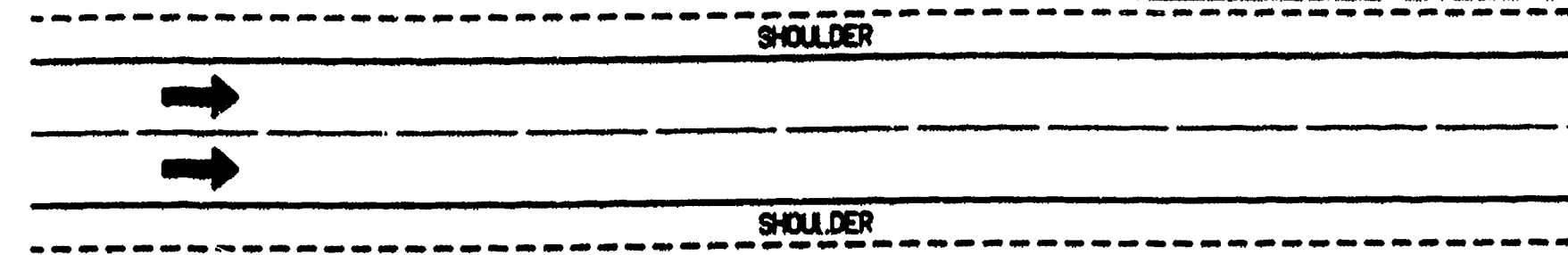
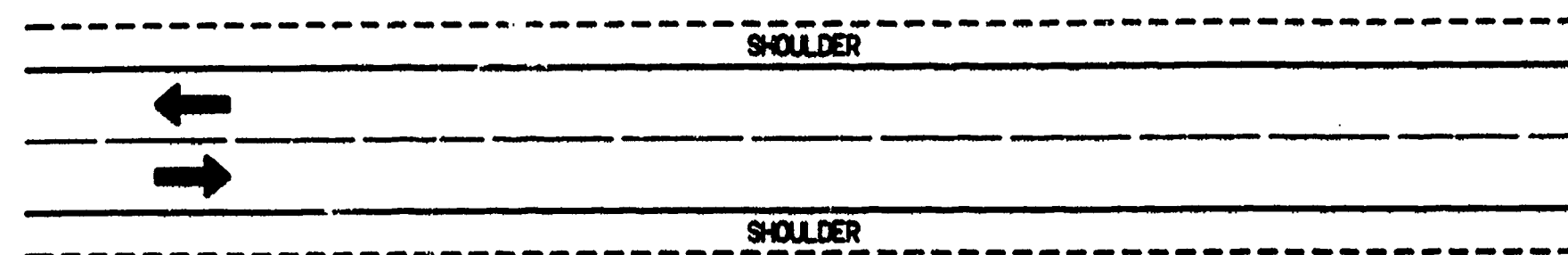
STAGE 3 - TRAFFIC CONTROL


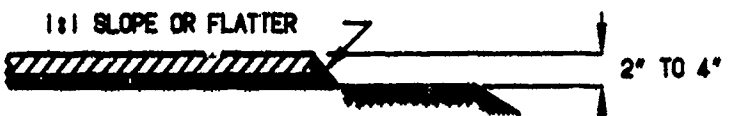
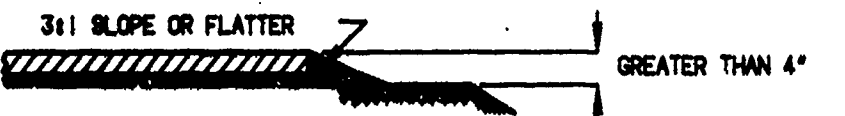

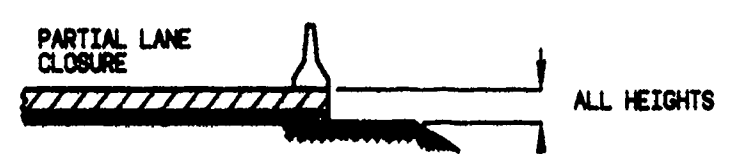
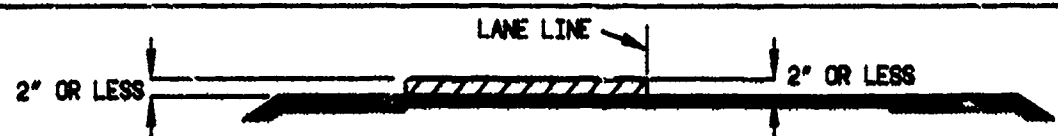

NOTE: ONE OF THE ENTRANCES TO HI-BOY ALONG RIVER ROAD
MUST REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION.



500-403

STATE MO	JOB NO: J4X0524	SHEET NO 6A
POST NO 4	PROJECT NO: F.A.H.S.-24-1(50)	DATE 24
COUNTY: JACKSON		



CROSS SECTION	CONDITION	SIGNING	TREATMENT
	ALL HOURS PAVEMENT EDGE DIFFERENTIAL IS 2" OR LESS	(22) LOW SHOULDER (W08-9) SHOULD BE CONSIDERED BUT NOT REQUIRED	NO EDGE TREATMENT REQUIRED
	NON WORKING HOURS PAVEMENT EDGE DIFFERENTIAL IS 2" TO 4"	(22) LOW SHOULDER (W08-9)	WEDGE SLOPE TO 1:1 OR FLATTER
	NON WORKING HOURS PAVEMENT EDGE DIFFERENTIAL IS GREATER THAN 4"	(23) OPEN TRENCH (W20-9)	WEDGE SLOPE TO 3:1 OR FLATTER
	ALL HOURS ALL PAVEMENT EDGE DIFFERENTIAL ADJACENT LANE IS CLOSED	NO SIGNS REQUIRED	NO EDGE TREATMENT REQUIRED
	ALL HOURS ALL PAVEMENT EDGE DIFFERENTIAL PARTIAL LANE CLOSURE USING CONCRETE TRAFFIC BARRIER	NO SIGNS REQUIRED	NO EDGE TREATMENT REQUIRED
	ALL HOURS PAVEMENT EDGE DIFFERENTIAL AND/OR LANE LINE IS 2" OR LESS	NO SIGNS REQUIRED	NO EDGE TREATMENT REQUIRED
	ALL HOURS PAVEMENT EDGE DIFFERENTIAL AND/OR LANE LINE IS GREATER THAN 2"	(31) UNEVEN PAVEMENT (W08-9 Lc OR Rc) SHOULD BE CONSIDERED BUT IS NOT REQUIRED IF SHORT TERM CONDITION	WEDGE SLOPE TO 3:1 OR FLATTER

(21) SHOULDER WORK AHEAD (W20-56)

MISSOURI HIGHWAY AND TRANSPORTATION
COMMISSION

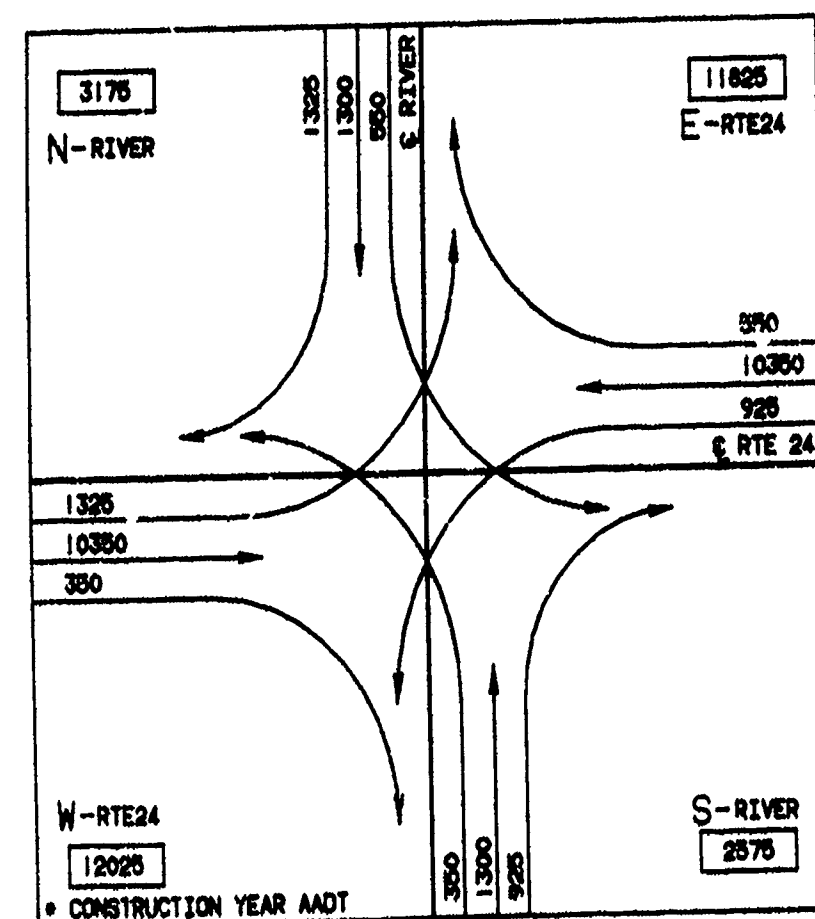
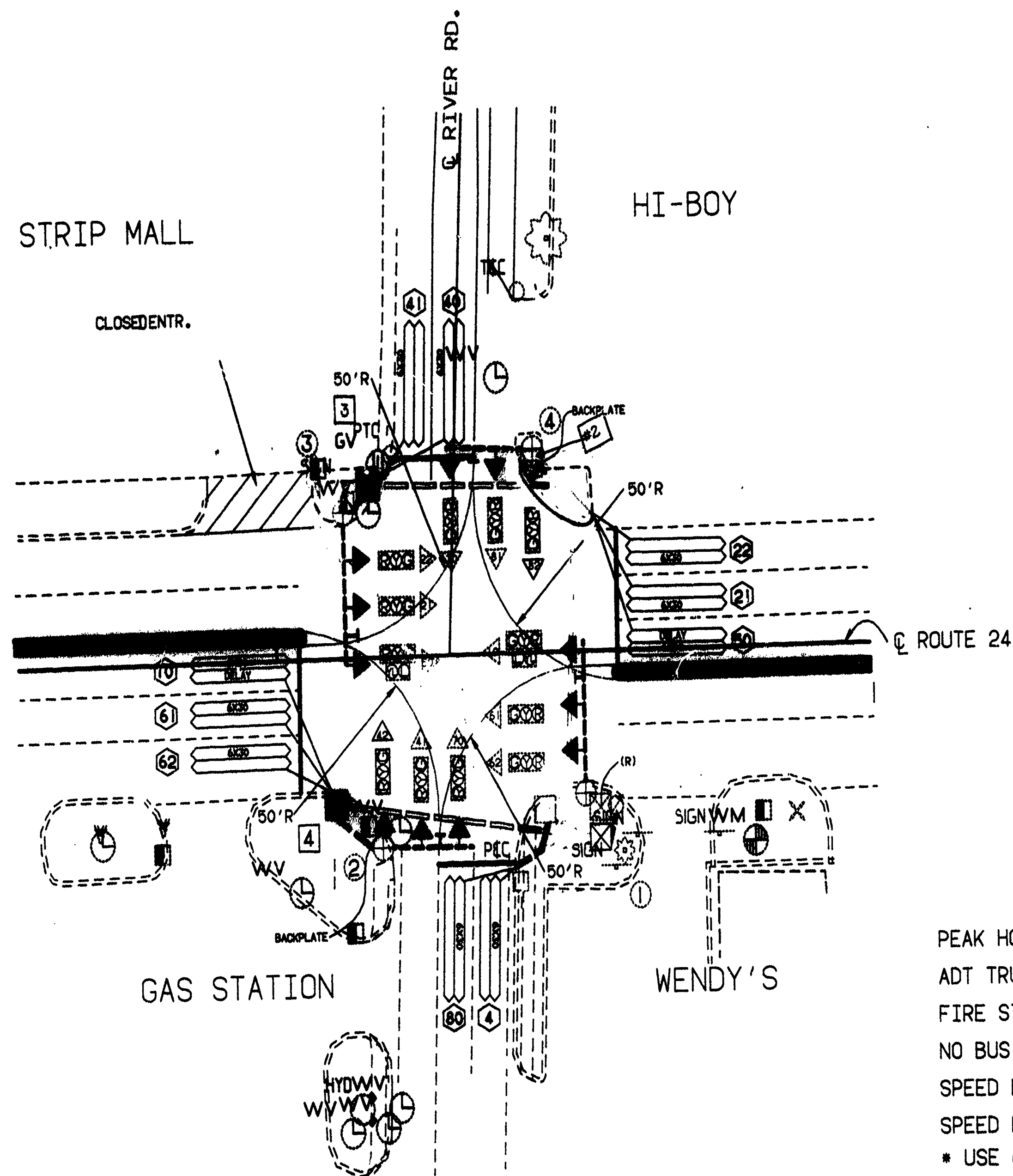
TRAFFIC CONTROL PLAN

PAVEMENT EDGE TREATMENT

SPECIAL SHEET

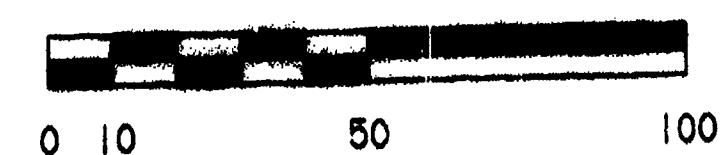
501-484

STATE	JOB NO	J4X0524	SHEET NO
MO	PROJECT NO	F.A.HES.-24-1(50)	7
4	COUNTY	JACKSON	24



- PEAK HOUR - 8.5%
- ADT TRUCKS - 2%
- FIRE STATION AT SPRING ROAD
- NO BUS STOPS
- SPEED LIMIT ON RIVER RD - 35 MPH
- SPEED LIMIT ON RTE 24 - 35 MPH
- * USE 6'X 30' DETECTOR LOOPS
- * 8 PHASE DP CONTROLLER

SIGNAL DETAIL



502 485

A.B.T. = 1000 = 1000
A.B.T. = 2000 = 1000
G.M.V. = 1000
T = 1000
V = 2000 N.P.M.

JACKSON COUNTY

FEDERAL AID PROJECT

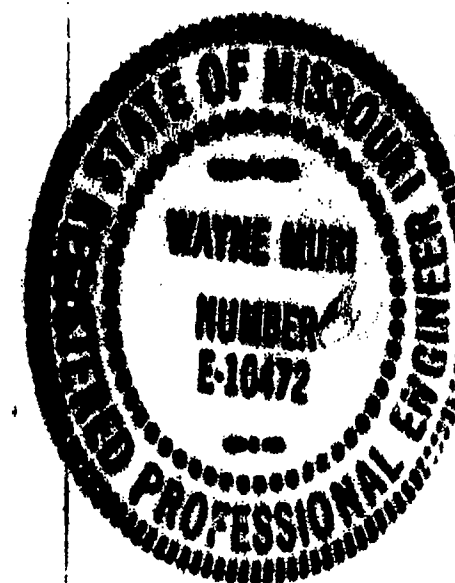
CLOSED LOOP SIGNAL SYSTEM PROJECT

ROUTE 24
from
SALISBURY ROAD
to
BLUE MILLS ROAD

BUILDINGS AND STRUCTURES
 SAVING WALL
 CONCRETE RIGHT-OF-WAY MARKER
 STEEL RIGHT-OF-WAY MARKER
 PEACE
 CHAIN LINK
 WOODEN WIRE
 DATE
 UTILITIES
 TELEPHONE
 POWER
 GAS
 WATER
 MOIST, MANHOLE
 EXIST. FIRE HYDRANT
 EXIST. WATER VALVE
 EXIST. WATER METER
 EXIST. DROP INLET
 SWITCH BLOCK
 EXIST. GROUND MOUNTED SIGN
 EXIST. LIGHT POLE
 EXIST. H-FRAME POWER POLE



- PROJECT LIMITS -- 3.45 MILES



FINAL PLANS

COUNTY JACKSON
ROUTE 24
PROJECT F.A.F.-24-1(SI)
JOB NO. 3401054

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTION (1 SHEET)	2
COMPANY	3
DESIGNER	4
PLAN PROFILE	5
REFERENCE POINTS	6
SPECIAL NOTES	7
TRAFFIC CONTROL SHEET	8
LAYOUT	9-10
SIGNALS	11-13
STANDARD	14
CLASST SECTION	15
BRIDGE SECTION	16
STANDARD PLANS INDEX	17-18
CHAS SECTION	19
COMPUTED DATA	20
INTERCHANGE SHEETS	21-25

LENGTH OF PROJECT

END OF PROJECT
REVISIONS OF PROJECT
APPROVED LENGTH
EDUCATIONS AND EXCEPTIONS
TOTAL COMPLETION
NET LENGTH OF PROJECT
STATE LENGTH
FEDERAL LENGTH

MISSOURI HIGHWAY AND
TRANSPORTATION COMMISSION

RECEIVED
George M. ...
FEB 1972

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPENDIX

DIVISION ADMINISTRATOR

1997

~~FINAL PLANS~~

STATE MD	JOB NO. J4U105A	POST NO. 2A
DATE 4	PROJECT NO. FAF-24-1(51)	NOTE 24
COUNTY Jackson		

[illegible][illegible]

PROJECT ACCEPTED	11-26-92	
RESIDENT ENGINEER	MARK A. STALL	1-7-93
CHECKED DISTRICT OFFICE BY T. A. BARNER		1-18-93
CHECKED MAIN OFFICE	Sandra Brown	2-24-93

SUMMARY OF QUANTITIES

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1Lb	48X48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48X48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48X48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48X48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48X48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48X48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48X48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4Lb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM LT ARROWS)
W01-4Rb	48X48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48X48	16.0					DOUBLE ARROW REVERSE CURVE (SYM RT ARROWS)
W01-5	48X24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7	48X24	8.0					CHEVRON (SYMBOL)
W01-7a	72X36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18X24	3.0					STOP AHEAD
W03-1b	48X48	16.0					YIELD AHEAD
W03-2b	48X48	16.0					SIGNAL AHEAD (SYMBOL)
W03-3b	48X48	16.0					BE PREPARED TO STOP
W03-4b	48X48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1Lb	48X48	16.0					MERGE (SYMBOL FROM RIGHT)
W04-1Rb	48X48	16.0					ROAD NARROWS
W05-1a	48X48	16.0					ONE LANE BRIDGE
W05-3a	48X48	16.0					DIVIDED HIGHWAY
W05-1b	48X48	16.0					DIVIDED HIGHWAY ENDS
W05-2b	48X48	16.0					TWO WAY TRAFFIC (SYMBOL)
W05-3b	48X48	16.0					TWO WAY TRAFFIC (PLAQUE)
W05-3a	24X18	3.0					BUMP
W05-1b	48X48	16.0					DIP
W05-2b	48X48	16.0					PAVEMENT ENDS
W05-3	48X48	16.0					SOFT SHOULDER
W05-4b	48X48	16.0					SLIPPERY WHEN WET (SYMBOL)
W05-5b	48X48	16.0					TRUCK CROSSING
W05-6b	48X48	16.0					TRUCK ENT (INCLUDES W025-1a PLATE)
W05-6a	48X48	16.0					LOOSE GRAVEL
W05-7a	36X36	9.0					LOW SHOULDER
W05-9	48X48	16.0					UNEVEN PAVEMENT (SYM FOR LT DROPOFF)
W05-9L	48X48	16.0					UNEVEN PAVEMENT (SYM FOR RT DROPOFF)
W05-9R	48X48	16.0					RIGHT LANE ENDS (INCLUDES W025-3a PLATE)
W05-1R	48X48	16.0					LANE ENDS MERGE RIGHT (INCLUDES W025-3b PLATE)
W05-2R	48X48	16.0					RAILROAD CROSSING
W10-1a	42D1a	9.6					DOUBLE DOWN ARROW (SYMBOL)
W12-1	24X24	4.0					LOW CLEARANCE (SYMBOL)
W12-2a	48X48	16.0					LOW CLEARANCE (PLAQUE)
W12-2a	24X18	3.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W12-3a,b	144X24	84.0					ADVISORY SPEED (PLAQUE)
W13-1a	24X24	4.0					ROAD CONST AHEAD (INCLUDES W025-6 PLATE)
W020-1	48X48	16.0					DETOUR AHEAD (INCLUDES W025-1b PLATE)
W020-2	48X48	16.0					ROAD CLOSED AHEAD (INCLUDES W025-1a PLATE)
W020-3	48X48	16.0					ONE LANE ROAD AHEAD (INCLUDES W025-1a PLATE)
W020-4a	48X48	16.0					RIGHT LANE CLOSED AHEAD (INCL W025-3a PLATE)
W020-5	48X48	16.0					RIGHT LANE CLOSED (INCLUDES W025-3a PLATE)
W020-6a	48X48	16.0					FLAGGER (SYMBOL)
W020-7b	48X48	16.0					800 FT/1000 FT (PLAQUE)
W020-7a	24X18	3.0					OPEN TRENCH
W020-9a	48X48	16.0					FRESH OIL
W021-2b	48X48	16.0					SHOULDER WORK AHEAD
W021-2b	48X48	16.0					BAND BLASTING
W021-7	36X36	9.0					BLASTING ZONE 1000 FT
W022-1	48X48	16.0					TURN OFF 2-WAY ROAD
W022-2	42X36	10.8					END BLASTING ZONE
W022-3	42X36	10.8					NO PASSING ZONES UNMARKED
W022-5	30X30	6.3					1000 FT/1500 FT Plate
W025-1a	26X9						800 FT/1000 FT Plate
W025-1b	38X9						800 FT/1000 FT Plate
W025-1c	34X9						800 FT/1000 FT Plate

SIGN	SIZE (INCHES)	AREA (SQ FT)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
REGULATORY SIGNS							
W025-3b	30X9						LEFT Plate
W025-3c	33X9						LEFT/CENTER Plate
W025-3d	22X9						LEFT/CENTER Plate
W025-5	30X12	2.0					1/2 MILE/1 MILE (PLAQUE)
W025-6	28X9						RAMP/BRIDGE Plate
R1-1b	48X48	13.28					STOP
R1-2a	48X48X48	6.93					YIELD
R1-3	20X9	1.28					4-WAY (PLAQUE)
R1-5	20X9	1.28					3-WAY (PLAQUE)
R2-1b	36X48	12.00					SPEED LIMIT XX
R2-5b	36X48	12.00					REDUCED SPEED AHEAD
R3-1b	36X36	9.00					NO RIGHT TURN (SYMBOL)
R3-2b	36X36	9.00					NO LEFT TURN (SYMBOL)
R3-3a	36X36	9.00					NO U-TURN (SYMBOL)
R3-4	24X24	4.00					LEFT LANE MUST TURN LEFT
R3-7L	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R3-7R	30X30	6.25					DO NOT PASS
R4-1b	36X48	12.00					PASS WITH CARE
R4-2b	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7Lb	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R4-7Rb	36X48	12.00					KEEP LEFT
R4-17L	36X36	9.00					KEEP RIGHT
R4-17R	36X36	9.00					DO NOT ENTER
R5-1	30X30	6.25					WRONG WAY
R5-1a	36X24	6.00					ONE WAY ARROW (LEFT)
R5-1L	48X18	6.00					ONE WAY ARROW (RIGHT)
R5-1R	48X18	6.00					ONE WAY (LEFT)
R5-2L	24X30	5.00					ONE WAY (RIGHT)
R5-2R	24X30	5.00					ROAD CLOSED
R11-2	48X30	10.00					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-3	60X30	12.00					ROAD CLOSED TO THRU TRAFFIC
R11-4	60X30	12.00					TO ONCOMING TRAFFIC (PLAQUE)
R12-3b	36X36	9.00					WHEN FLASHING
R4-4a	36X18	4.50					
GUIDE SIGNS							
G020-1	60X36	18.00					ROAD CONSTRUCTION NEXT XX MILES
G020-2	60X24	10.00					END CONSTRUCTION
M04-8a	30X18	3.13					DETOUR (PLAQUE)
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
M04-11	24X18	3.00					DETOUR ENDS
M5-1L	21X18	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21X18	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							
616-10.08 CONSTRUCTION SIGNS TOTAL							
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	SIZE (INCHES)	TOTAL QTY	DESCRIPTION
616-10.20	36X18	1	CHANNELIZER (DRUM)
616-10.38	8X24	1	TYPE I BARRICADE (ONE RAIL)
616-10.36	8X24	1	TYPE II BARRICADE (TWO RAILS)
616-10.40	48X96	1	FLASHING ARROW PANEL
616-10.48	18X18	1	TYPE I OBJECT MARKER
616-10.46	6X12	1	TYPE II OBJECT MARKER
616-10.47	8X24	1	TYPE III OBJECT MARKER
616-10.50	8	1	FLASHING ELECTRIC LIGHT
616-10.51	---	---	WARNING LIGHT TYPE A
616-10.52	---	---	WARNING LIGHT TYPE B
616-10.53	---	---	WARNING LIGHT TYPE C
616-10.54	---	---	STROBE LIGHT
616-10.55	---	---	RAISED PAVEMENT MARKER
616-10.70	28	1	FLEXIBLE DELINEATOR
619-10.00	LN FT	1	PAVEMENT EDGE TREATMENT
612-10.39	72X144	1	MOVEABLE BARRICADE (THREE RAILS)

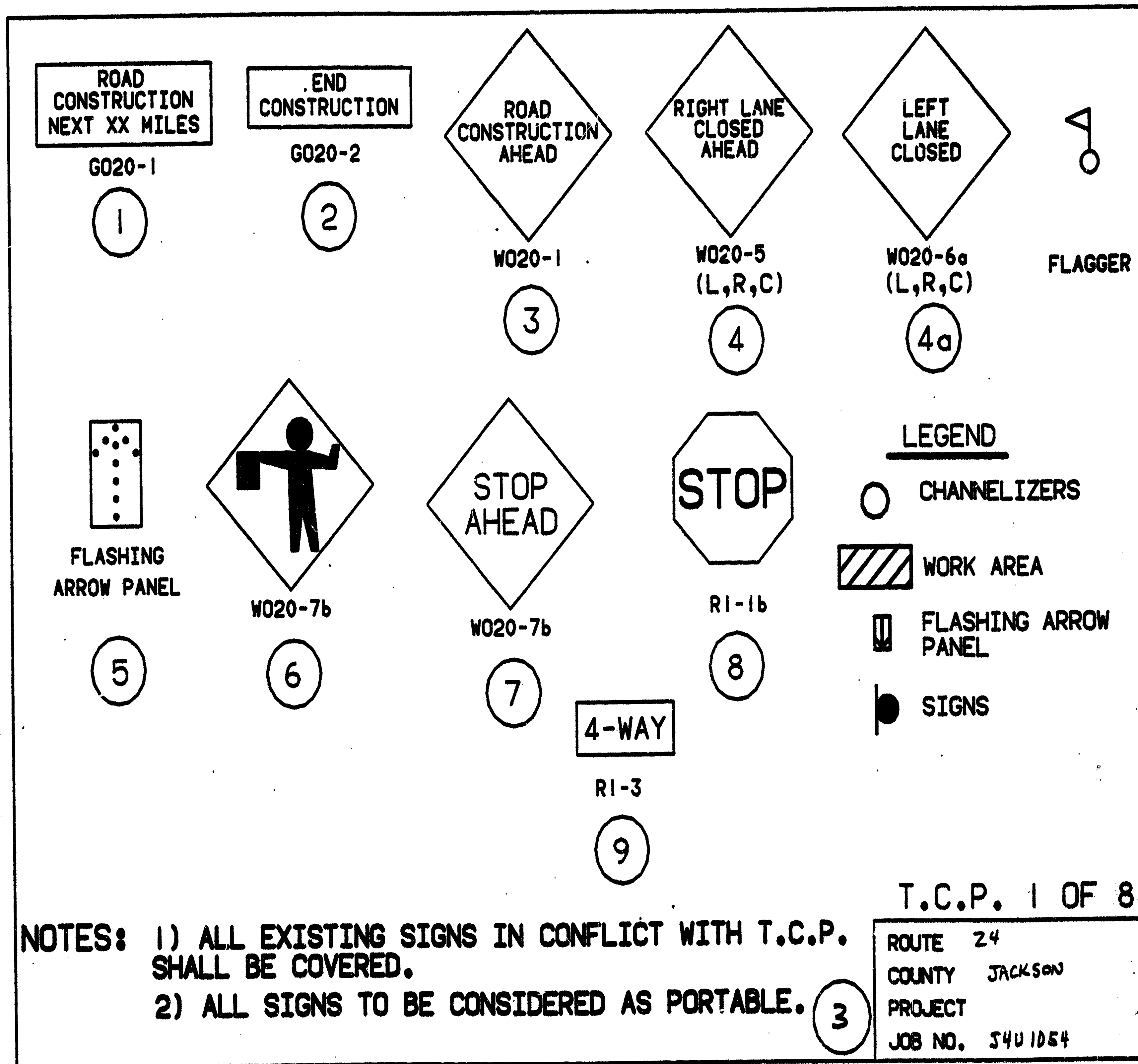
FINAL PLANS

D-288
REV FEB 26, 1992

STATE	MO	JOB NO. J401054	SHEET NO. 28
PROJECT NO. FAF-24-1(5)			
COUNTY JACKSON			

86

87



TRAFFIC CONTROL DEVICES

TAPER LENGTH AND DEVICE SPACING FOR CHANNELIZING TAPERS					
SPEED (1) LIMIT MPH	MINIMUM (L) TAPER LENGTHS FOR LANE WIDTHS			MAXIMUM CHANNELIZER SPACING IN FEET	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
20	70	75	80	20	10
25	105	115	125	25	20
30	150	165	180	30	30
35	205	225	245	35	50
40	265	295	320	40	100
45	450	495	540	45	100
50	500	550	600	50	100
55	550	605	660	55	100
60	600	660	720	60	100
65	650	715	780	65	100

(1) POSTED SPEED LIMIT PRIOR TO CONSTRUCTION
TAPER LENGTH SHOWN ARE ROUNDED TO NEAREST FIVE FEET.

SIGN SPACINGS FOR ADVANCE WARNING SIGN SERIES		
SPEED (1) MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO FLAGMAN
0-20	200	200
25-30	300	250
30-35	300	300
40-45	500	400
50-55	500	500
60-65	500	500

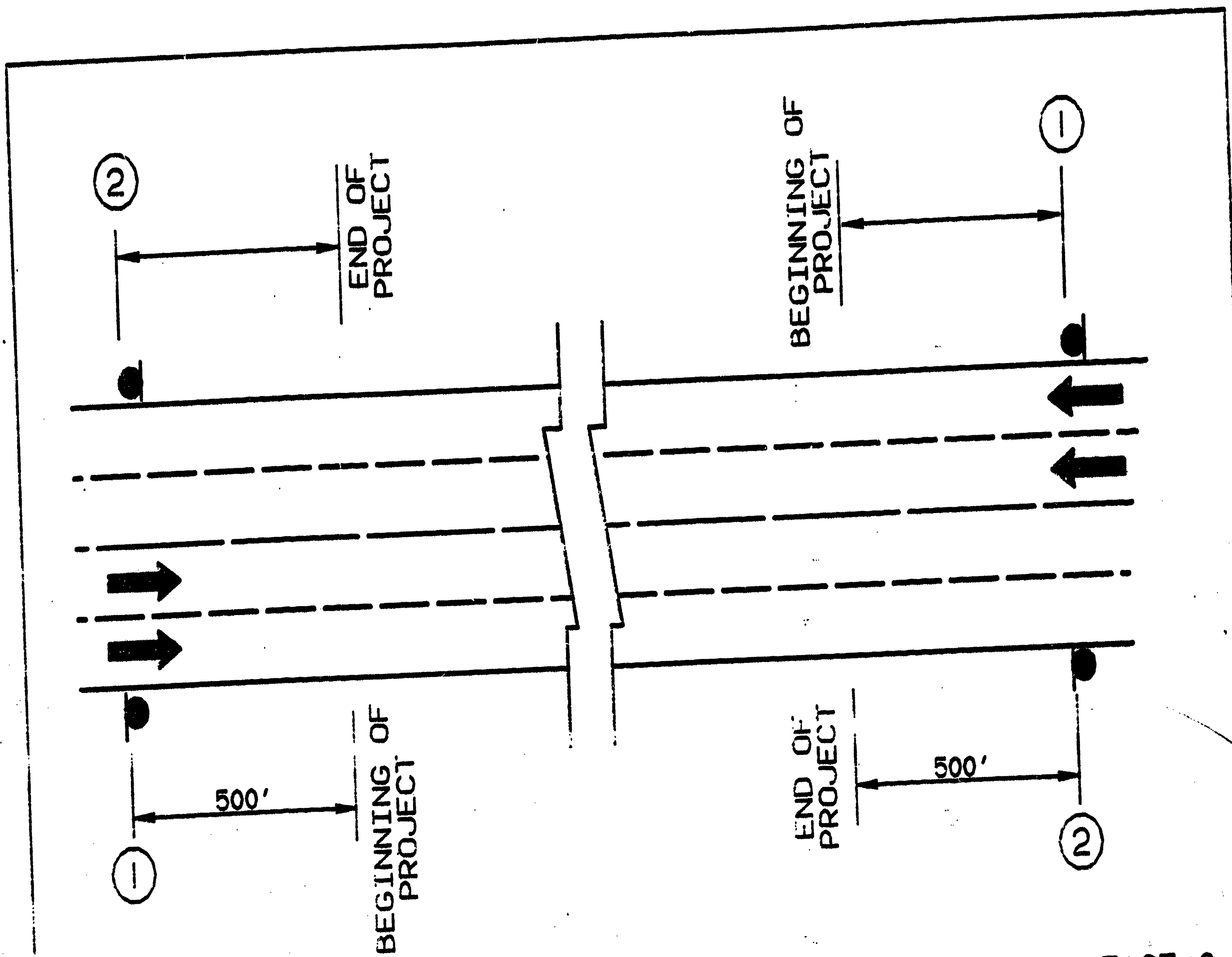
(1) POSTED SPEED PRIOR TO CONSTRUCTION

MAXIMUM SPACING OF CHANNELIZING DEVICES AT CURVES					
CURVATURE		SPACING ON CURVE IN FEET	SPACING IN ADVANCE OF AND BEYOND CURVE IN FEET		
DEGREE OF CURVE	RADIUS IN FEET		1ST	2ND	3RD
TANGENT TO 1/2°	11,500	100	100	100	100
1/2° TO 2°	11,500 TO 2,880	75	85	100	100
2° TO 4°	2,860 TO 1,430	60	70	80	100
4° TO 8°	1,430 TO 715	50	60	70	80
8° TO 16°	715 TO 360	40	50	60	70
16° TO 40°	360 TO 140	20	30	50	70

T.C.P. 2 OF 8

ROUTE 24
COUNTY JACKSON
PROJECT
JOB NO. 5401054

89



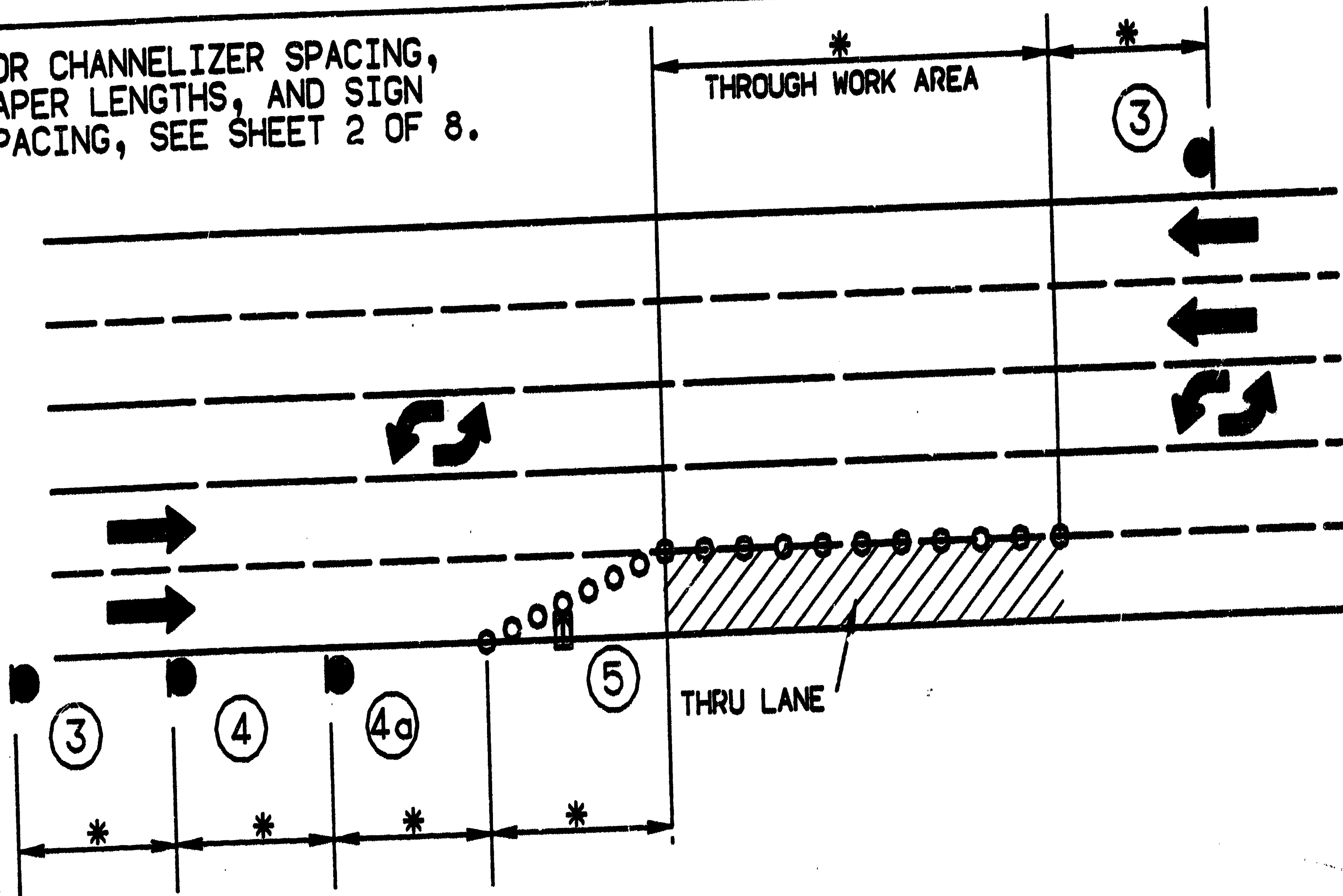
BEGINNING AND ENDING PROJECT

5

T.C.P. 3 OF 8

ROUTE	24
COUNTY	JACKSON
PROJECT	
JOB NO.	5401054

*FOR CHANNELIZER SPACING,
TAPER LENGTHS, AND SIGN
SPACING, SEE SHEET 2 OF 8.

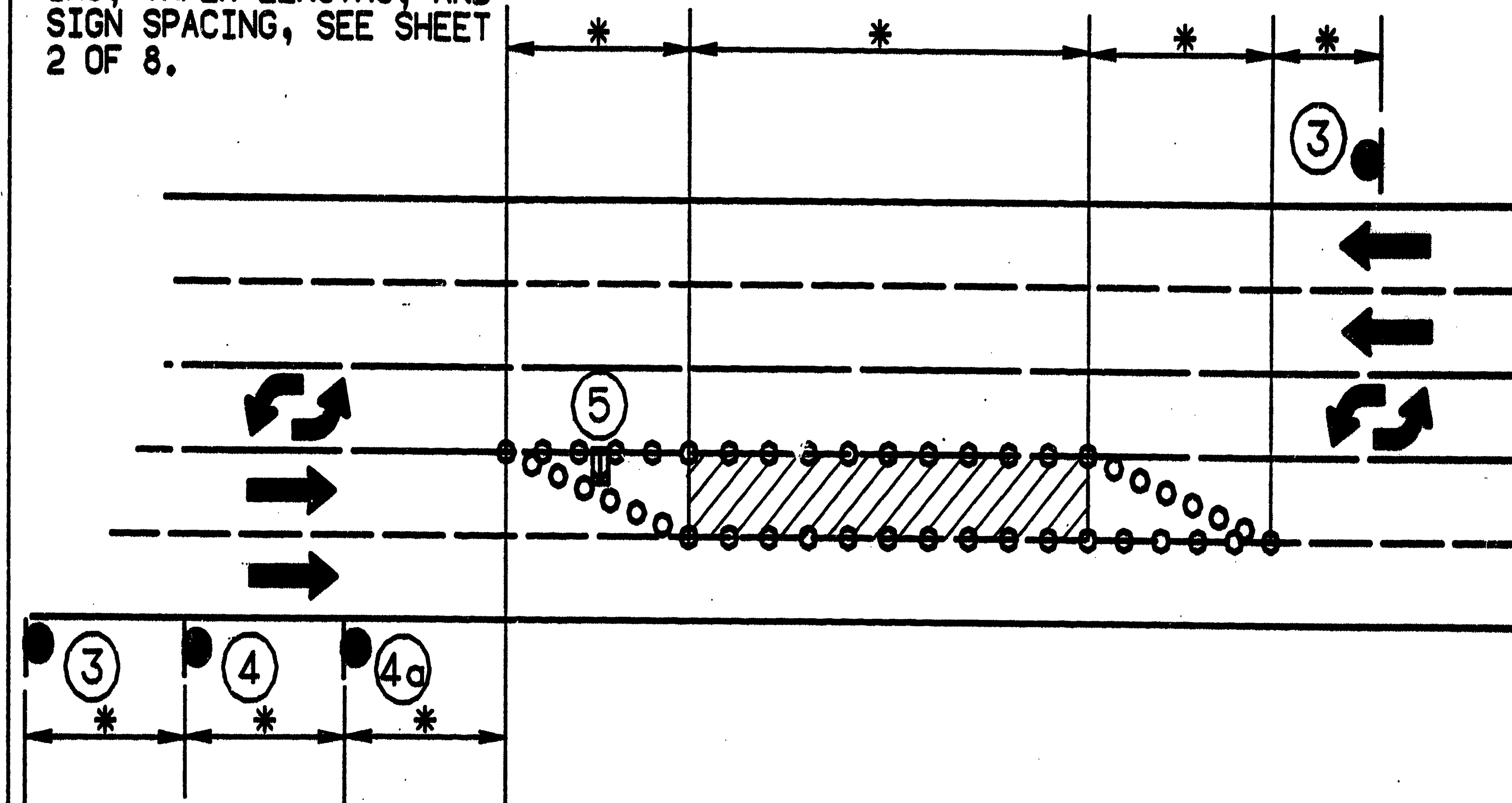


T.C.P. 4 OF 8

ROUTE 24
COUNTY JACKSON
PROJECT
JOB NO. 5401054

90

*FOR CHANNELIZER SPACING, TAPER LENGTHS, AND SIGN SPACING, SEE SHEET 2 OF 8.



THRU LANES & CENTER LANE

T.C.P. 5 OF 8

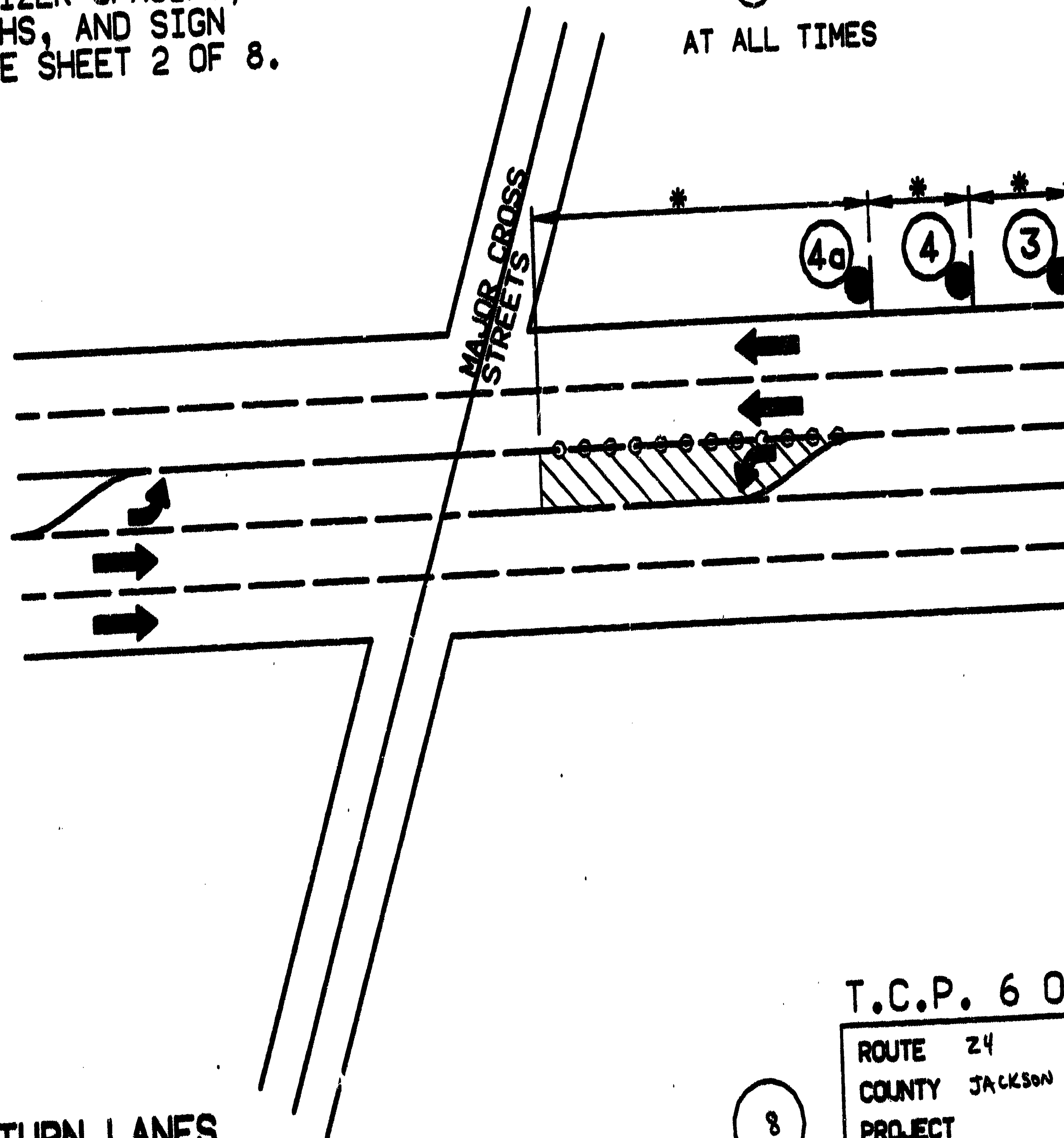
ROUTE 24
COUNTY JACKSON
PROJECT
JOB NO. 5401054

7

91

*FOR CHANNELIZER SPACING,
TAPER LENGTHS, AND SIGN
SPACING, SEE SHEET 2 OF 8.

LEAVE (3) IN PLACE
AT ALL TIMES



LEFT TURN LANES

T.C.P. 6 OF 8

ROUTE 24
COUNTY JACKSON
PROJECT
JOB NO. 5401054

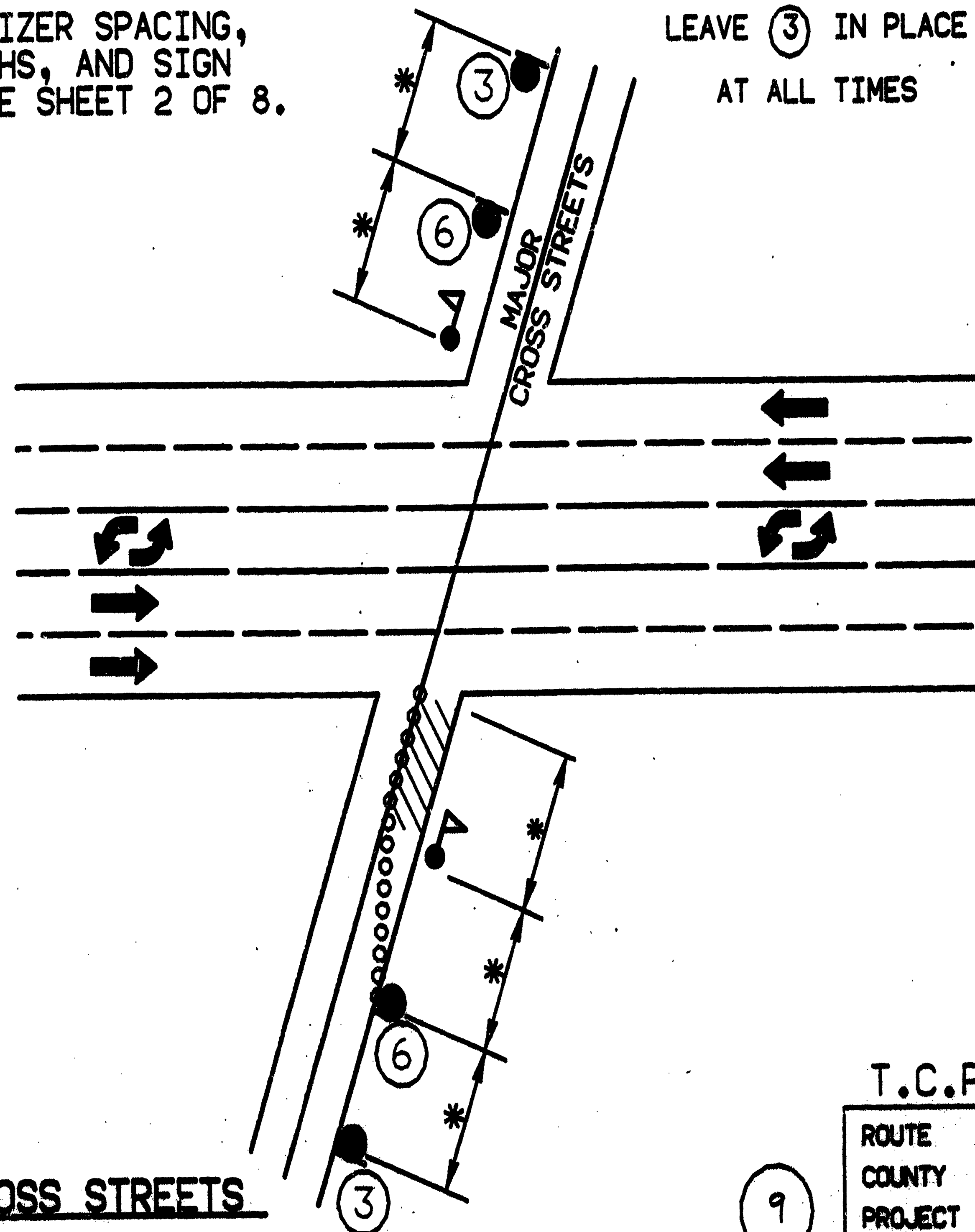
(8)

92

FINAL PLANS

*FOR CHANNELIZER SPACING,
TAPER LENGTHS, AND SIGN
SPACING, SEE SHEET 2 OF 8.

LEAVE ③ IN PLACE
AT ALL TIMES



AT CROSS STREETS

T.C.P. 7 OF 8

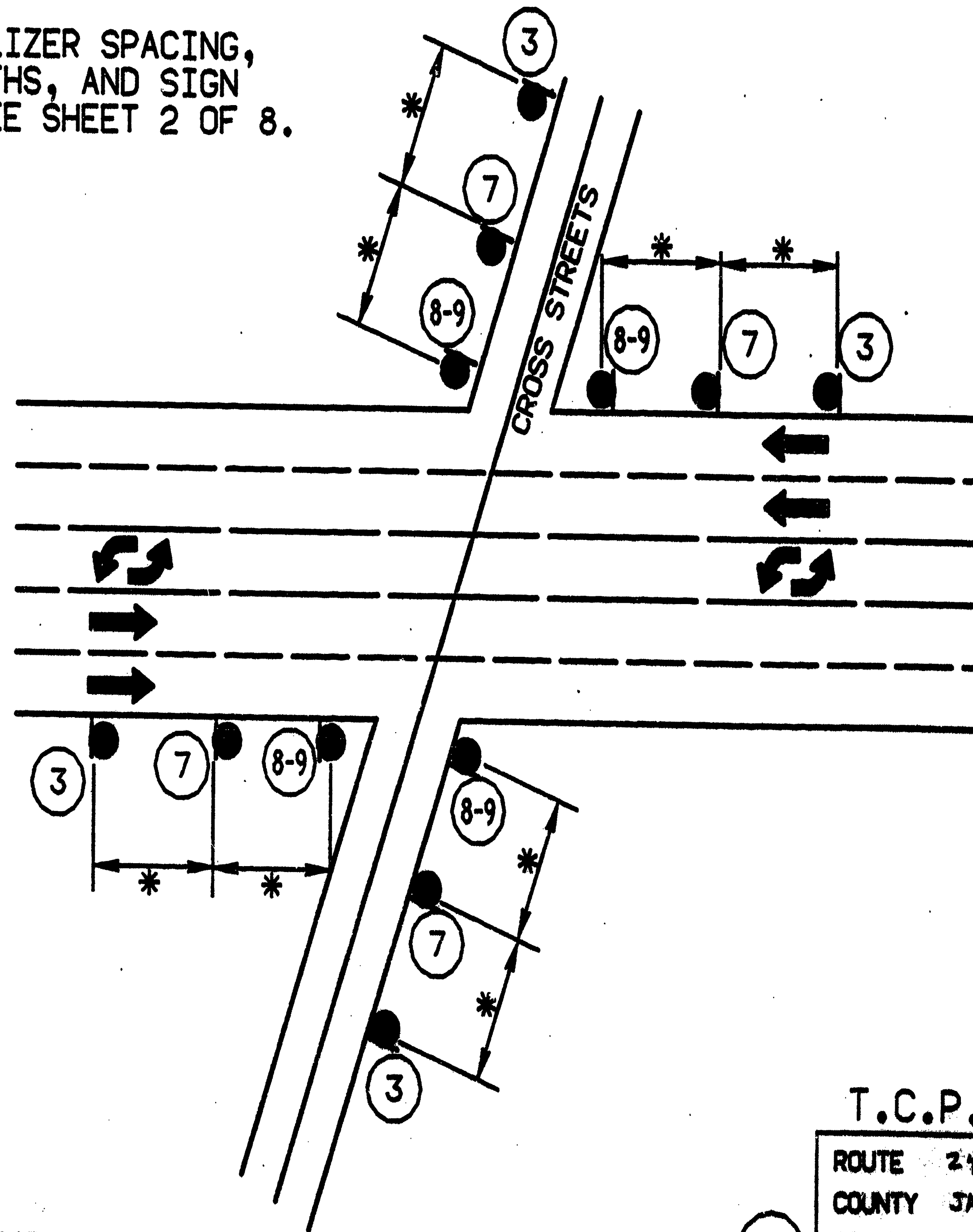
ROUTE 24
COUNTY JACKSON
PROJECT
JOB NO. 5401054

⑨

93

FINAL PLANS

*FOR CHANNELIZER SPACING,
TAPER LENGTHS, AND SIGN
SPACING, SEE SHEET 2 OF 8.



CONTROLLER NON-OPERATING

T.C.P. 8 OF 8

ROUTE 24
COUNTY JACKSON
PROJECT
JOB NO. 3401054

10

94

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	21	11
JOB NO	J4U1054	

GENERAL NOTES:

Plan sheets were taken from previous projects; any discrepancies between these sheets and existing conditions are the result of modifications made after these sheets were produced. It is the contractor's responsibility to verify all conditions along the length of the project.

All system-only detector loops shall be 6' by 6' with three perimeter turns. All local-only or system-local detector loops shall be 6' by 30' with two quadrapole turns.

Numbered pull boxes are existing, new pull boxes are represented by letters.

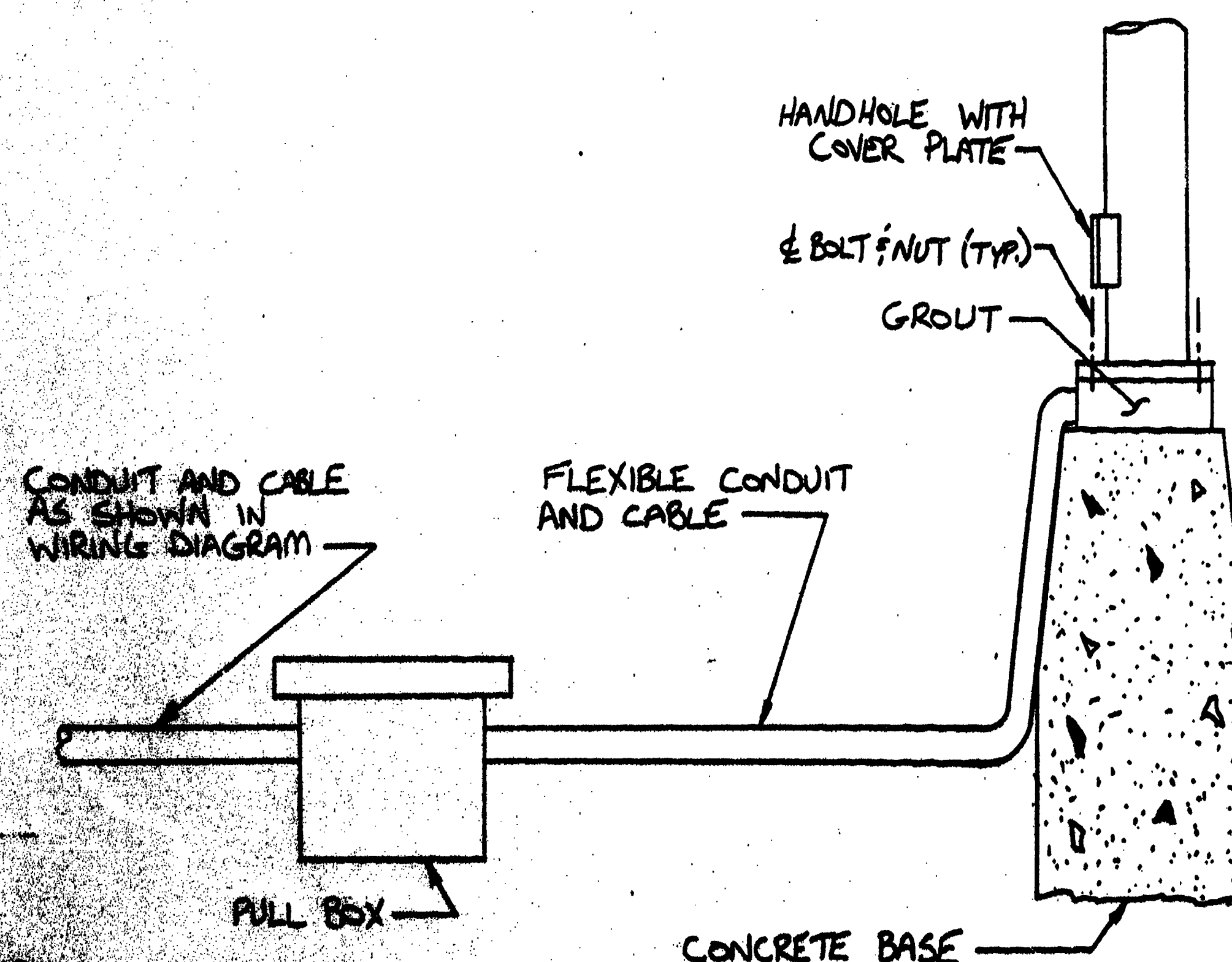
Existing controller bases shall be modified as required.

Open arrow heads in the Traffic Phasing diagram represent non-actuated phases. Filled arrow heads represent actuated phases.

Solid lines in the Wiring Diagrams represent new installations or modifications to existing installations. Dashed lines represent existing installations not affected by this contract.

Any existing conduit found to be unusable by the contractor shall be replaced. Payment shall be based on the unit bid price for the specified size of conduit.

All new pull boxes for interconnect cable shown on these sheets are offset 50 feet from the centerline of Route 24. Contractor shall adjust this offset as required in the field.



POLE MODIFICATION FOR WIRING DETAIL

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	12
JOB NO	J4U1084	

Summary of Quantities

Crossroad	Station	Offset	From	To	1.25" Trench	1.25" Push	1.50" Trench	Pullbox	Loop Wire	Megawatt-meter	Loop Lead-in	Inter-c't Cable	Cont'r Unit	Detector Unit	Detector Spec
Salisbury					10			1	120				1	4	0
									120						
									100						
					250						260				
Route 291 (West Ramps)					10			1	120				1	3	1
					40						50				
Route 291 (East Ramps)													1	3	1
Dover-Concord					10				325				1	2	0
					10				345		100				
					10				365		150				
					10				315		200	50			
Dover-Concord To Jennings-Atherton					240	60		1				310			
					260	40		1				310			
					165	110		1				285			
					230	135		1				375			
Jennings-Atherton					15				375				1	2	0
					25			1	315		100	100			
					10				340		100				
					35				720		230				
											80	45			
Jennings-Atherton To Susquehanna-Farview					245	95		1				330			
					225	100		1				335			
					255	70		1				335			
					245	80		1				335			
					211	104		1				325			
Susquehanna-Farview					10				365				1	3	0
					10				315		125				
					10				340		200				
					15				345		270				
									315		235	80			
									345						

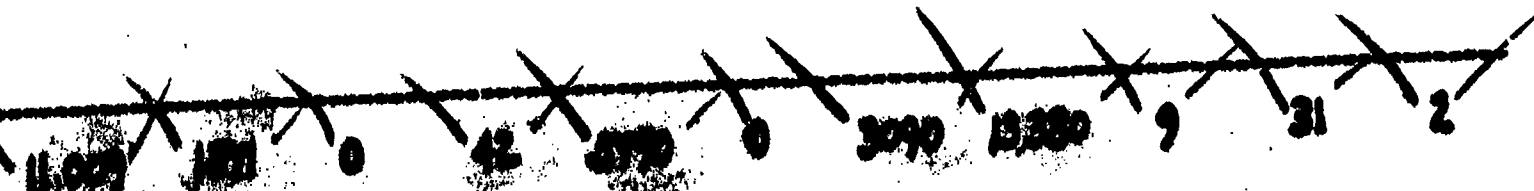
96

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	13
JOB NO	J4U1054	

Crossroad	Station	Offset	From	To	1.25' Trench	1.25' Push	1.50' Trench	Pullbox	Loop Wire	Magneto-meter	Loop Lead-in	Inter-c't Cable	Cont'r Detector Unit	Detector Unit Spec
Susquehanna-Farview To Kentucky					212	48		1					270	
					212	88		1					310	
					236	64		1					310	
					244	34		1					310	
					240	40		1					310	
					300			1					310	
					250	50		1					310	
					300			1					260	
					250			1					285	
					275			1					310	
					230	70		1					285	
					275			1					310	
					300			1					310	
					300									
Kentucky													220	1 6 0
													100	
Kentucky To Salen					198	62		1					270	
					200	100		1					310	
					252	48		1					310	
					300			1					310	
					300			1					310	
					242	58		1					310	
					220	80		1					210	
					200			1					310	
					300			1					260	
					206	45								
Salen					10			1					20	1 4 0
													240	
Salen To Blue Hills					230	40		1					310	
					300			1					310	
					300			1					310	
					300			1					235	
					225			1					310	
					300			1					310	
					300			1						
Blue Hills					10				120				20	1 4 0
									140					
									140					
					325							990	335	

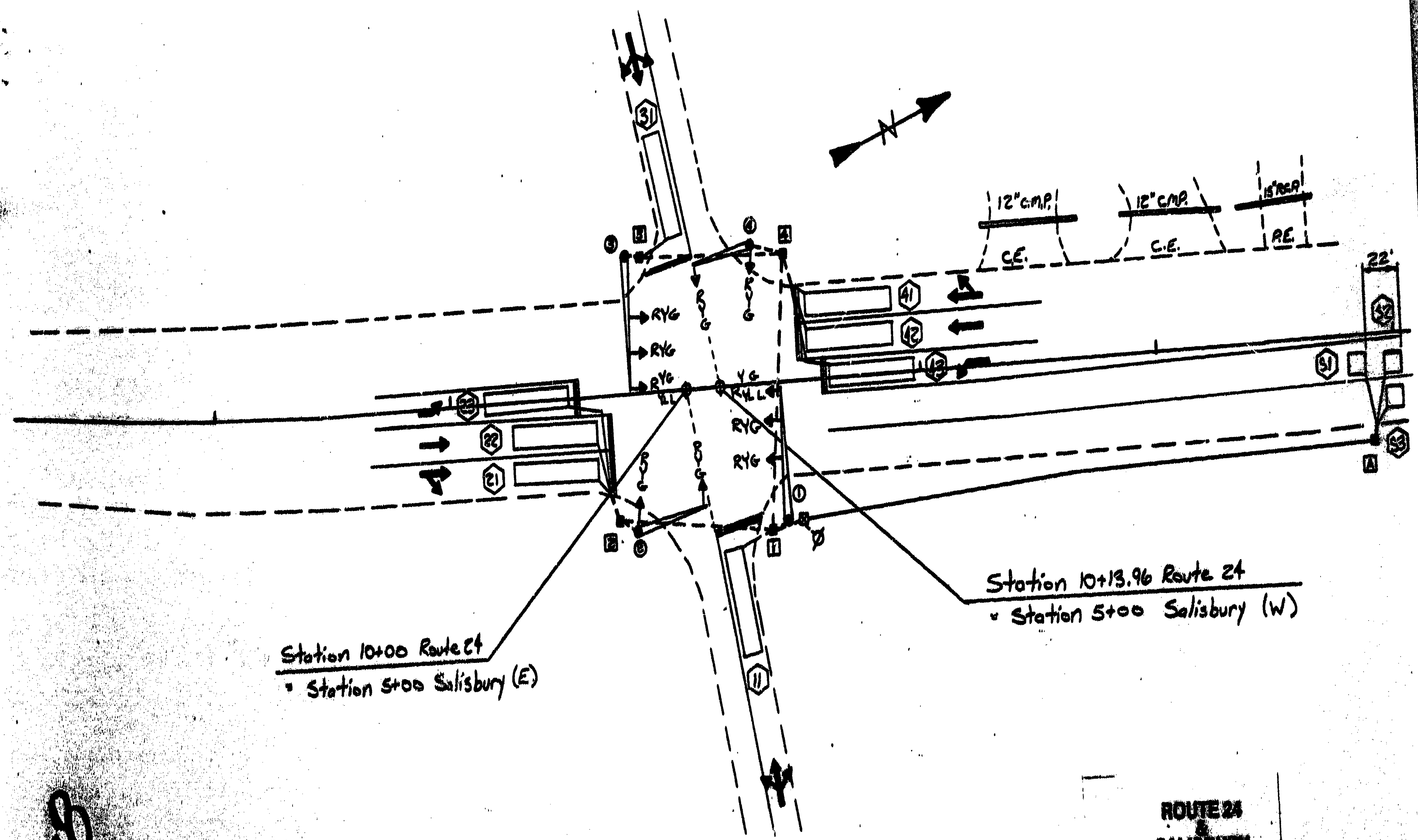
Project Total



16

FINAL PLANS

COUNTY	JACKSON	Sheet #
ROUTE	24	14
JOB NO	J4U1054	



Station 10+00 Route 24
 • Station 5+00 Salisbury (E)

Station 10+13.96 Route 24
 • Station 5+00 Salisbury (W)

ROUTE 24
 &
 SALISBURY

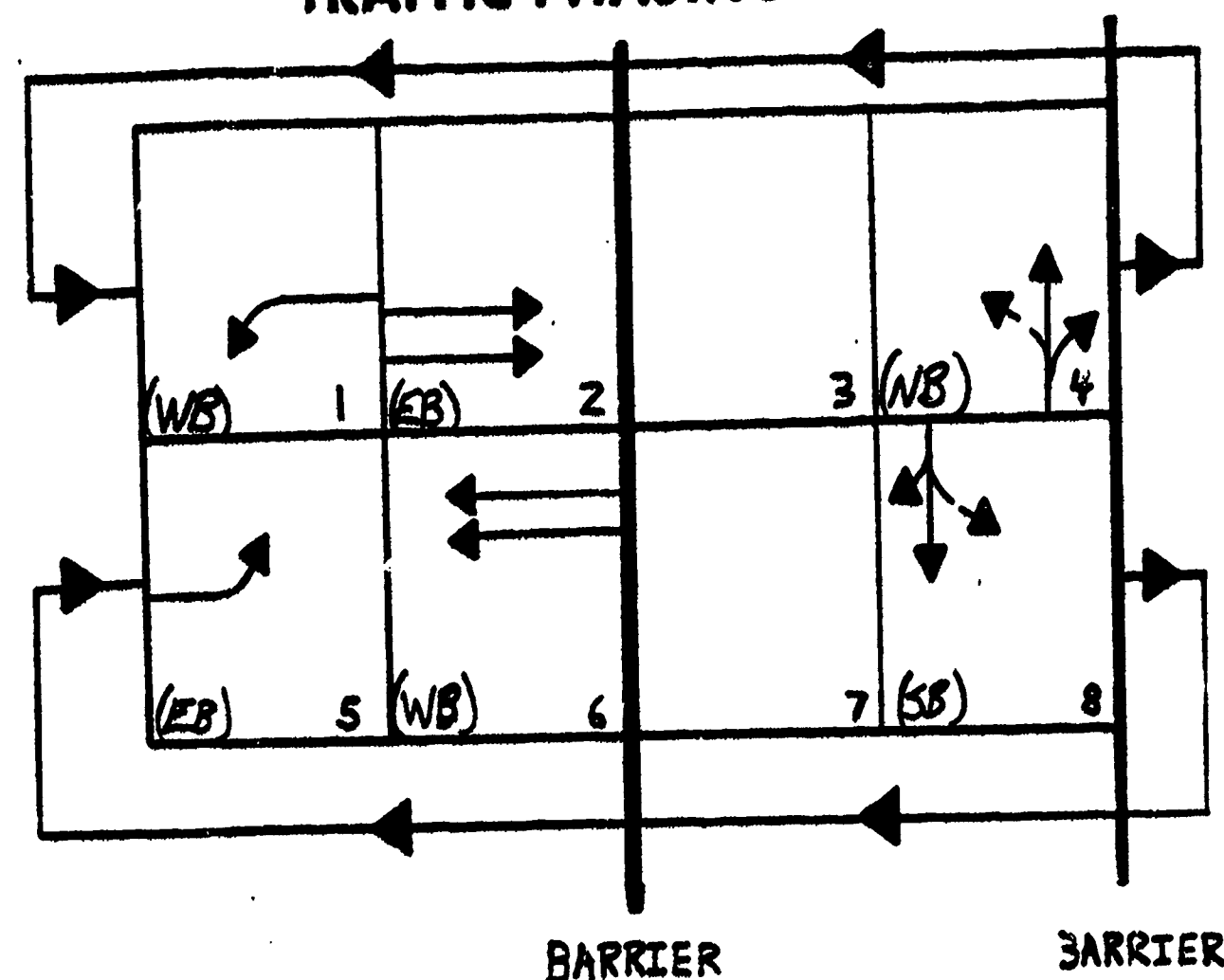
98

FINAL PLANS

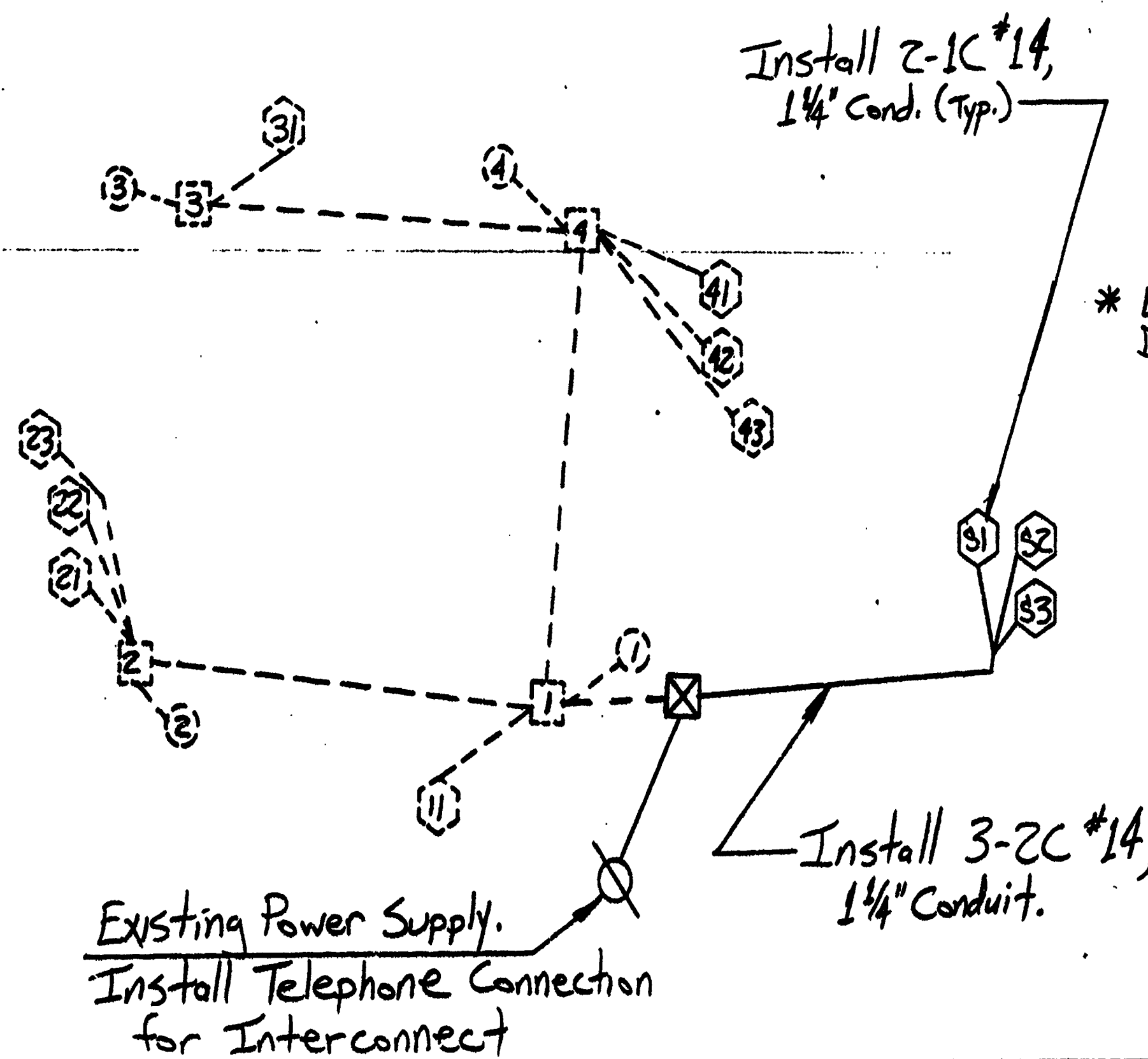
COUNTY JACKSON
ROUTE 24
JOB NO J401054

Sht #
15

TRAFFIC PHASING



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT											
LOCATION			ACTUATED	SOLID STATE ON-OFF PNEUMATIC SWITCH		COORDINATION UNIT			TONE UNIT*		
APPROACH	STATION	OFFSET	NEAR KEYBOARD ENTRY	TYPE	TYPE	MASTER	LOCAL	TIME BASE	TRANS-MITTER	RECEIVER	
Route 24		45' RT	1				X				

* See Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE			MAGNETOMETER	
			INDUCTION LOOP		COUNT UNIT	STANDARD	DELAY/EXTEND
			STANDARD	DELAY/EXTEND			
11 *	Salisbury (NB)	4	1				
21 *	Route 24 (EB)	2	1				
22 *	"	2	1				
23 *	"	5	1				
31 *	Salisbury (SB)	8	1				
41 *	Route 24 (WB)	6	1				
42 *	"	6	1				
43 *	"	1	1				
S1	Route 24 (EB) System		1				
S2	"	"	1				
S3	"	"	1				
TOTAL			11				

* Existing Detector Loops

INDUCTION LOOP ASSIGNMENT

CARD POSITION								
	1	2	3	4	5	6	7	8
1	11	21	22	23	S1	S3		
2	31	41	42	43	S2			

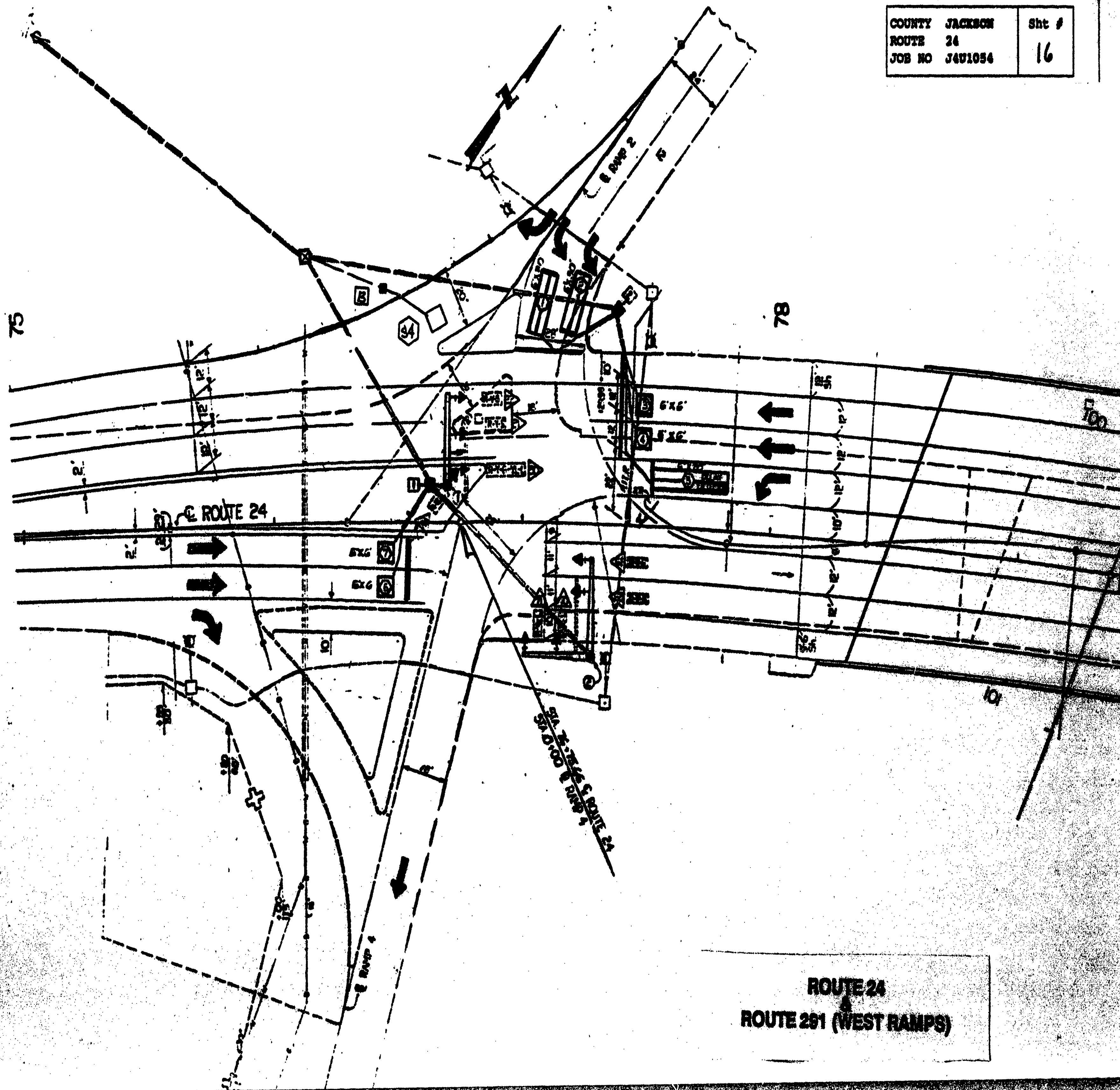
TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 6

Route 24 : Salisbury
INTERSECTION

99

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	16
JOB NO	J4U1054	

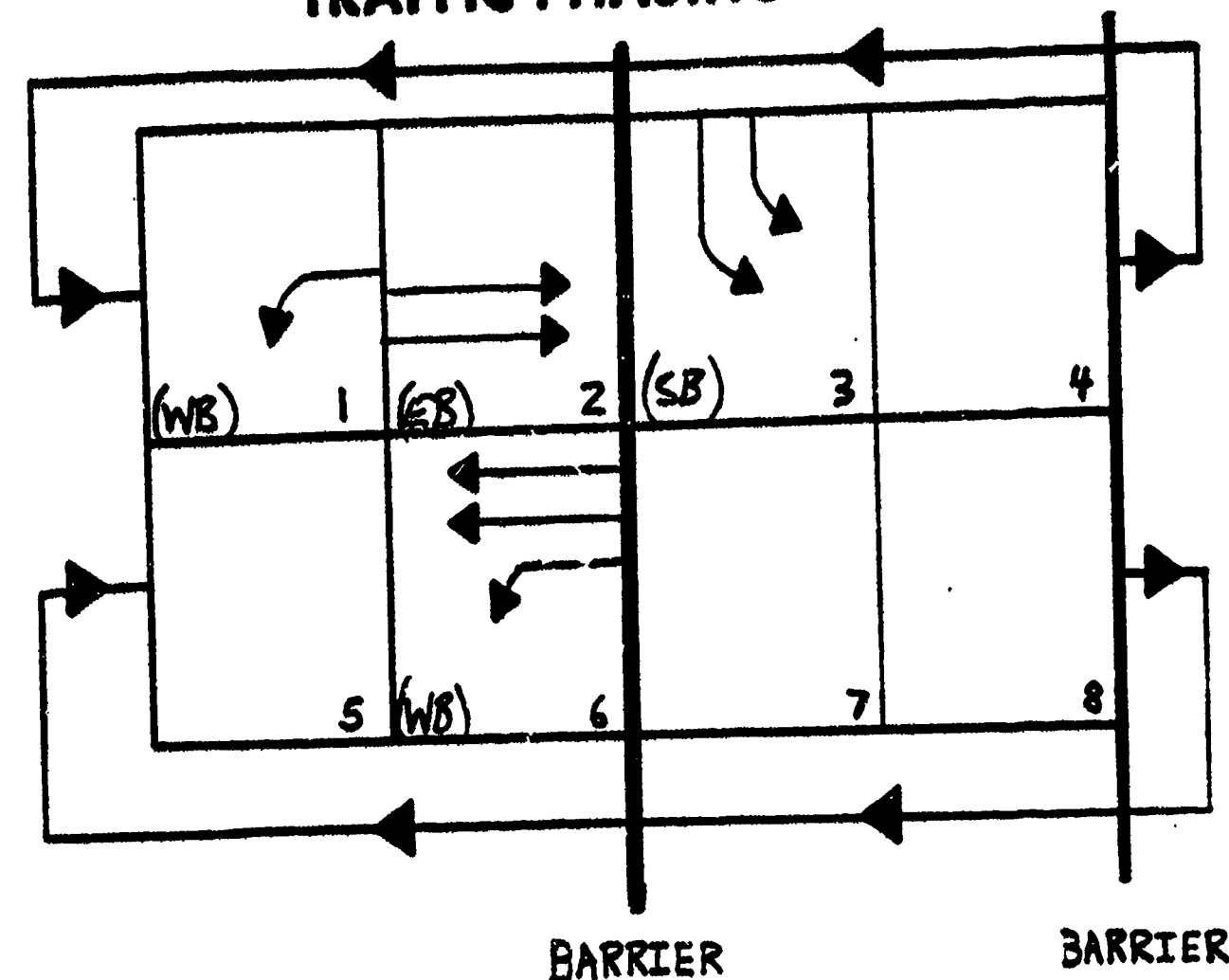


FINAL PLANS

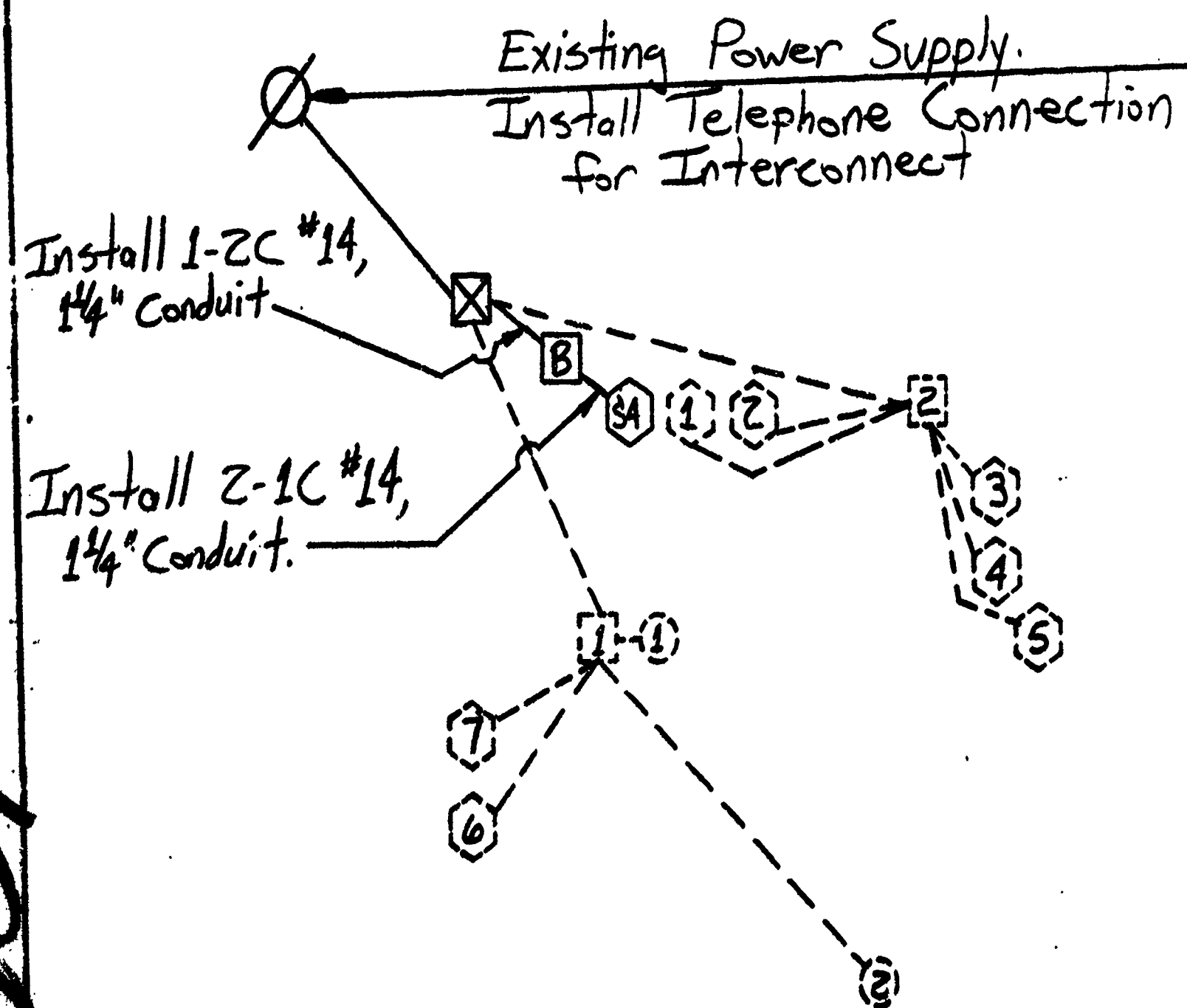
COUNTY JACKSON
ROUTE 24
JOB NO J4U1054

Sht #
17

TRAFFIC PHASING



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			ACTUATED	SOLID STATE ON-OFF PRE-TYPED SWITCH	COORDINATION UNIT		TONE UNIT*	
APPROACH	STATION	OFFSET	NEAR * KEYBOARD ENTRY	TYPE	TYPE	MASTER	LOCAL	TIME BASE
Route 24	76+25		1				X	

* see Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE			MAGNETOMETER	
			INDUCTION LOOP	STANDARD	DELAY/EXTEND	COUNT UNIT	STANDARD
1 *	Ramp 2 (SB)	3/system	1			1	
2 *	"	3/system	1			1	
3 *	Route 24 (WB)	6	1				
4 *	"	6	1				
5 *	"	1			1		
6 *	Route 24 (EB)	2	1				
7 *	"	2	1				
SA	Ramp 2 (SB)	System	1				
TOTAL			7	1	2		

* Existing Detector Loop

INDUCTION LOOP ASSIGNMENT

CARD POSITION								
	1	2	3	4	5	6	7	8
1	1	3	5	6				
2	2	4	SA	7				

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) =

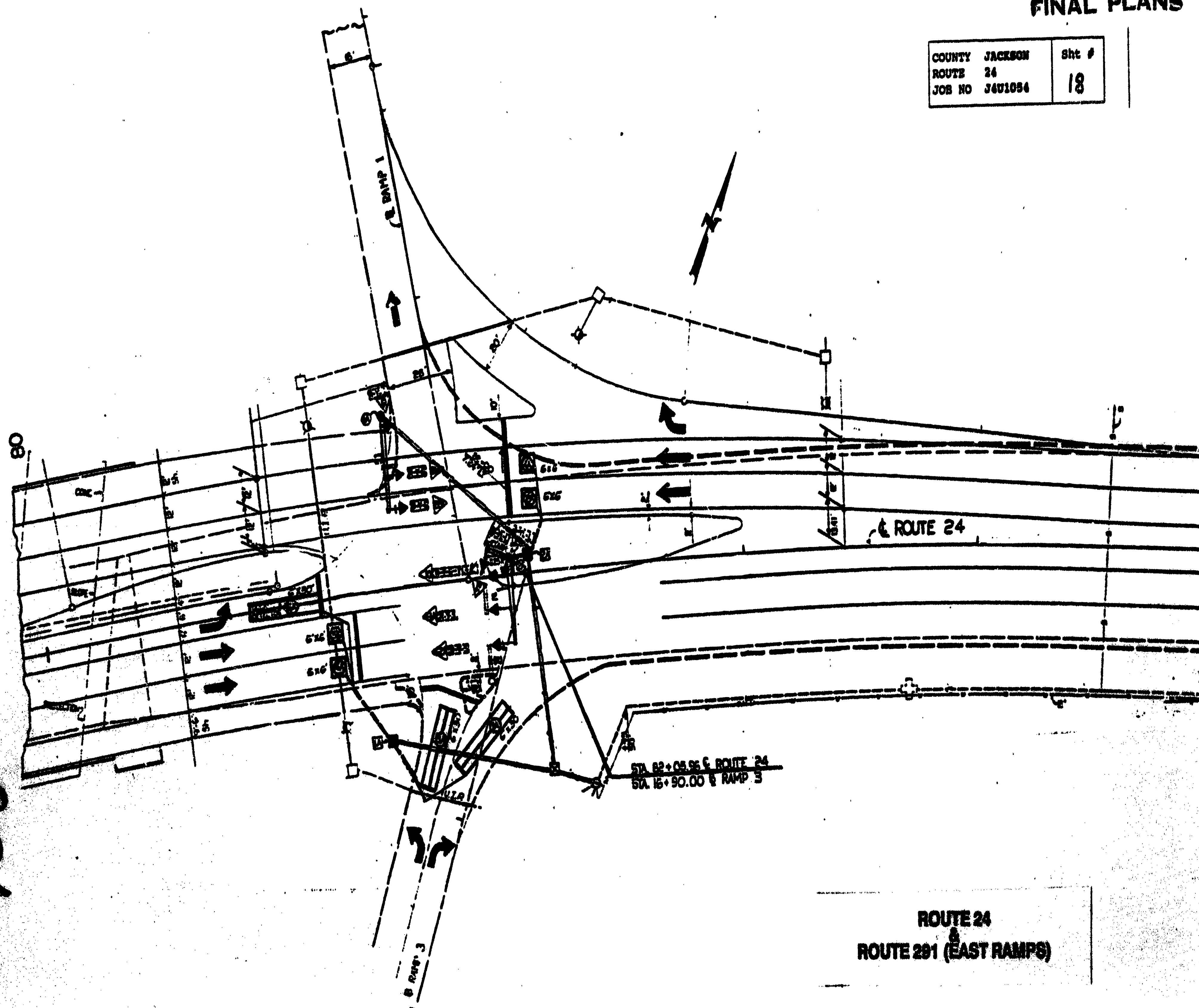
4 (1 Local-System
3 Local-Only)

Route 24 & Route 291 (West Ramps)

INTERSECTION

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	18
JOB NO	J4U1094	



ROUTE 24
&
ROUTE 291 (EAST RAMPS)

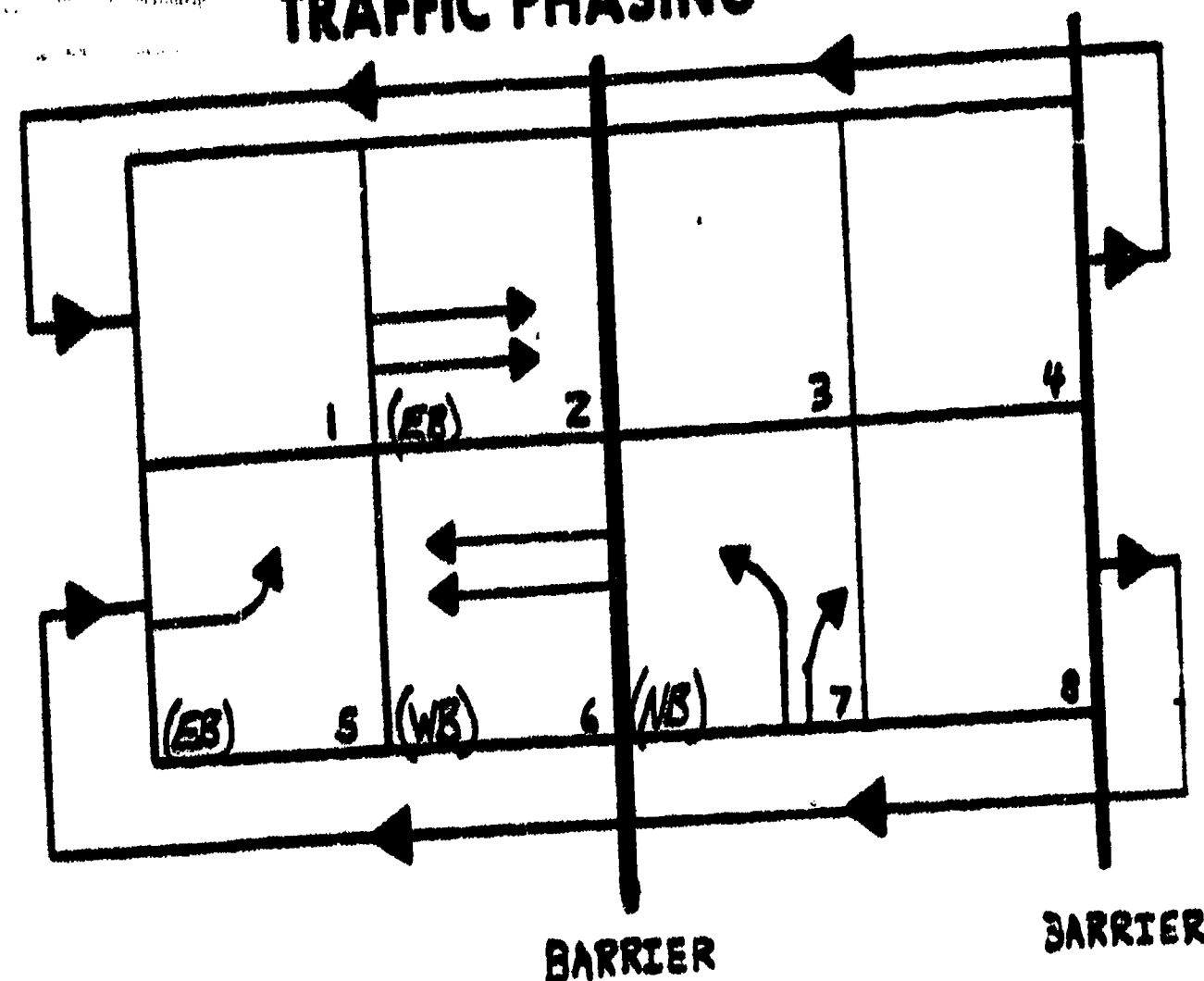
102

FINAL PLANS

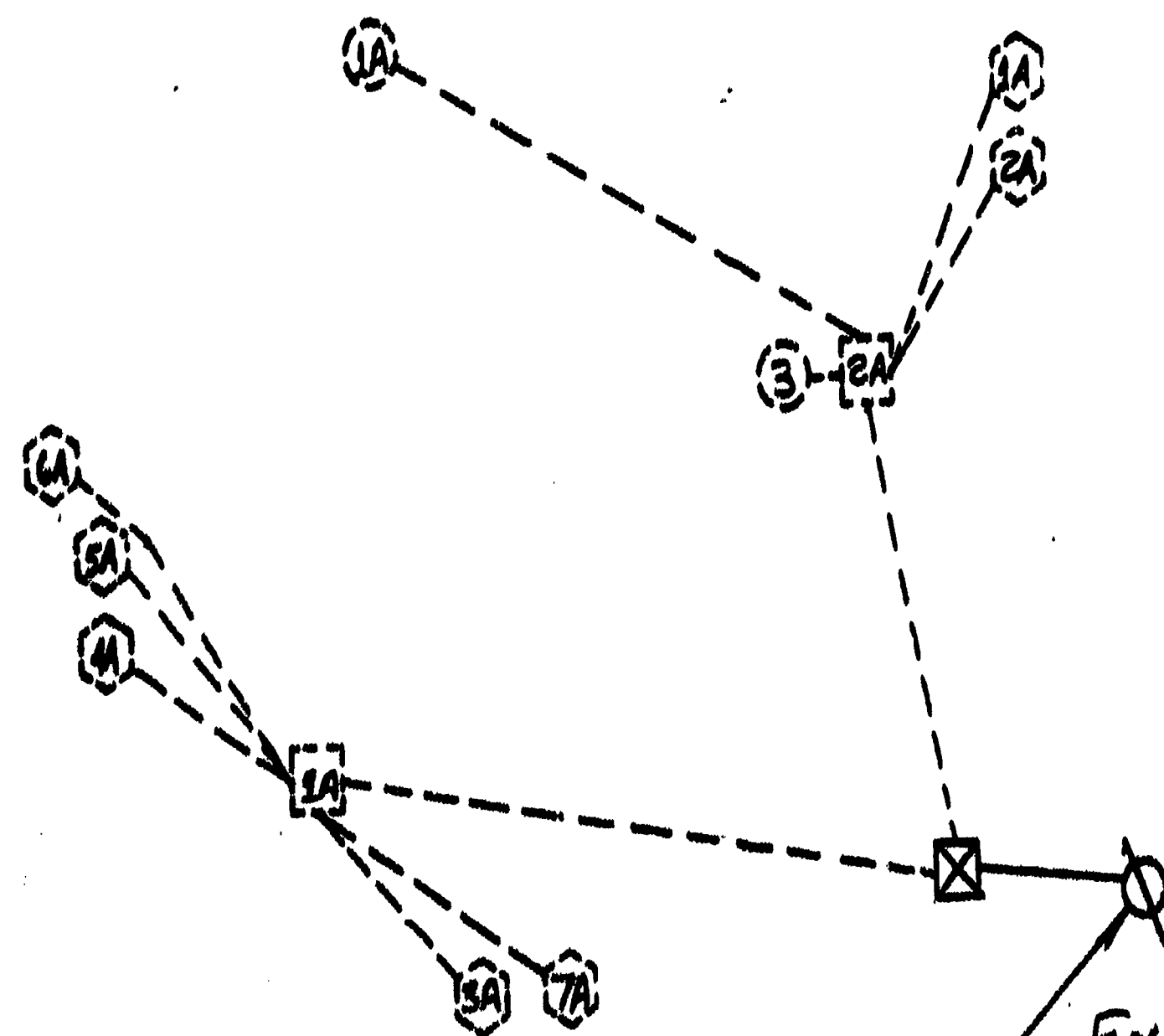
COUNTY JACKSON
ROUTE 24
JOB NO J4U1084

Sht #
19

TRAFFIC PHASING



WIRING DIAGRAM



Existing Power Supply
Install Telephone Connection
for Interconnect

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION	STATION	OFFSET	ACTUATED	SOLID STATE-LOGIC PRE-TIMED SWITCH		COORDINATION UNIT		TONE UNIT*	
				TYPE	TYPE	MASTER	LOCAL	TIME BASE	TRANS-MITTER
Route 24	82+10	67' RT	1				1		

* See Special Provisions

DETECTOR SCHEDULE

DETECTOR SCHEDULE			TYPE				
DETECTOR NUMBER	APPROACH	PHASE	INDUCTION LOOP			MAGNETOMETER	
			STANDARD	DELAY/EXTEND	COUNT UNIT	STANDARD	DELAY/EXTEND
1A *	Route 92 (WB)	6	1				
2A *	Route 92 (WB)	6	1				
3A *	Ramp 3 (NB)	7/ System	1		1		
4A *		2	1				
5A *		2	1				
6A *		5		1			
7A *	Ramp 3 (NB)	7/ System	1		1		

* Existing Detector Loop

INDUCTION LOOP ASSIGNMENT

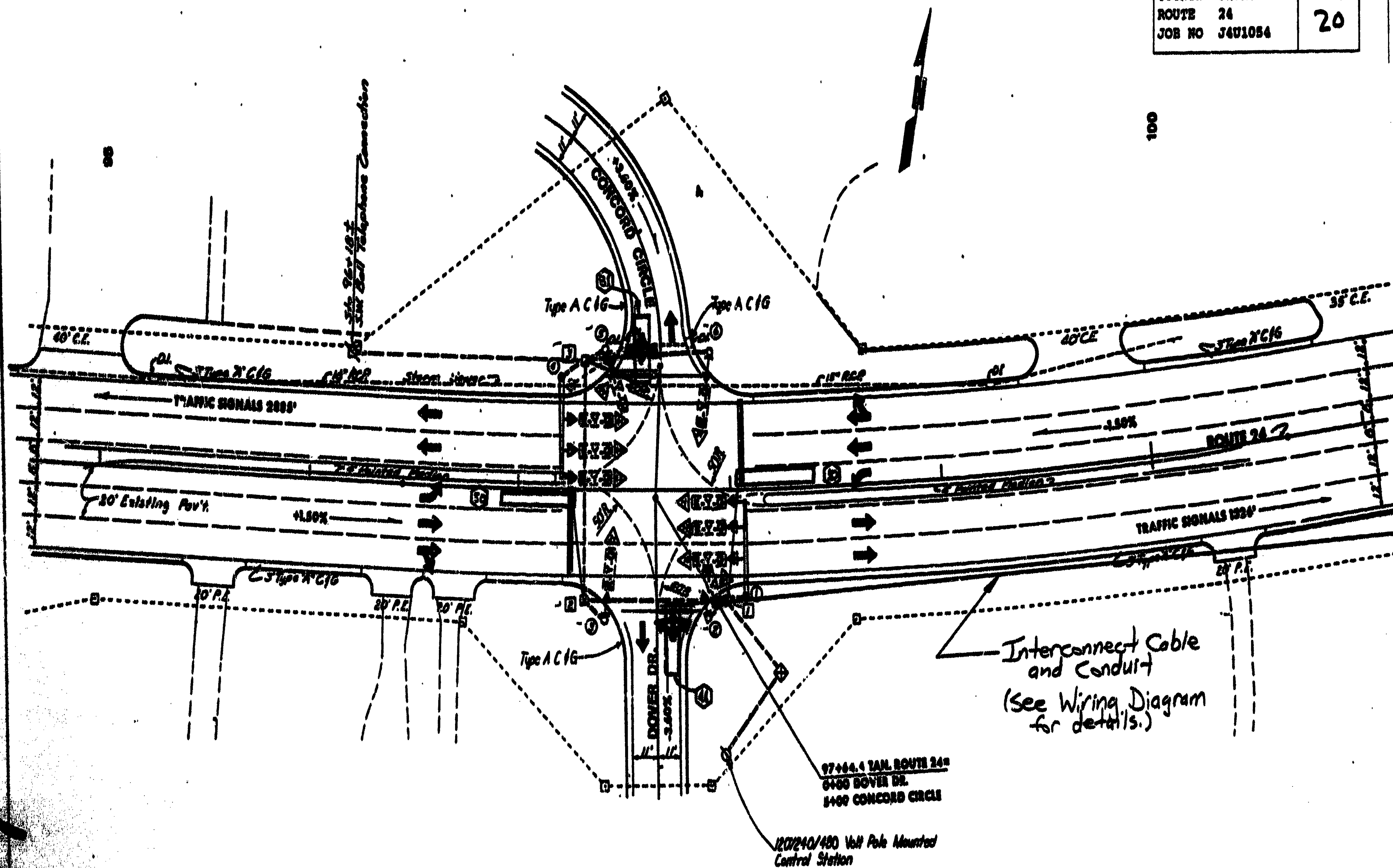
CARD POSITION								
	1	2	3	4	5	6	7	8
1	1A	3A	4A	6A				
2	2A	7A	5A					

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 4 (1 Local-System, 3 Local-Only)

Route 24 & Route 291 (East Ramps)
INTERSECTION

103

COUNTY	JACKSON	Sht #
ROUTE	24	20
JOB NO	J4U1054	

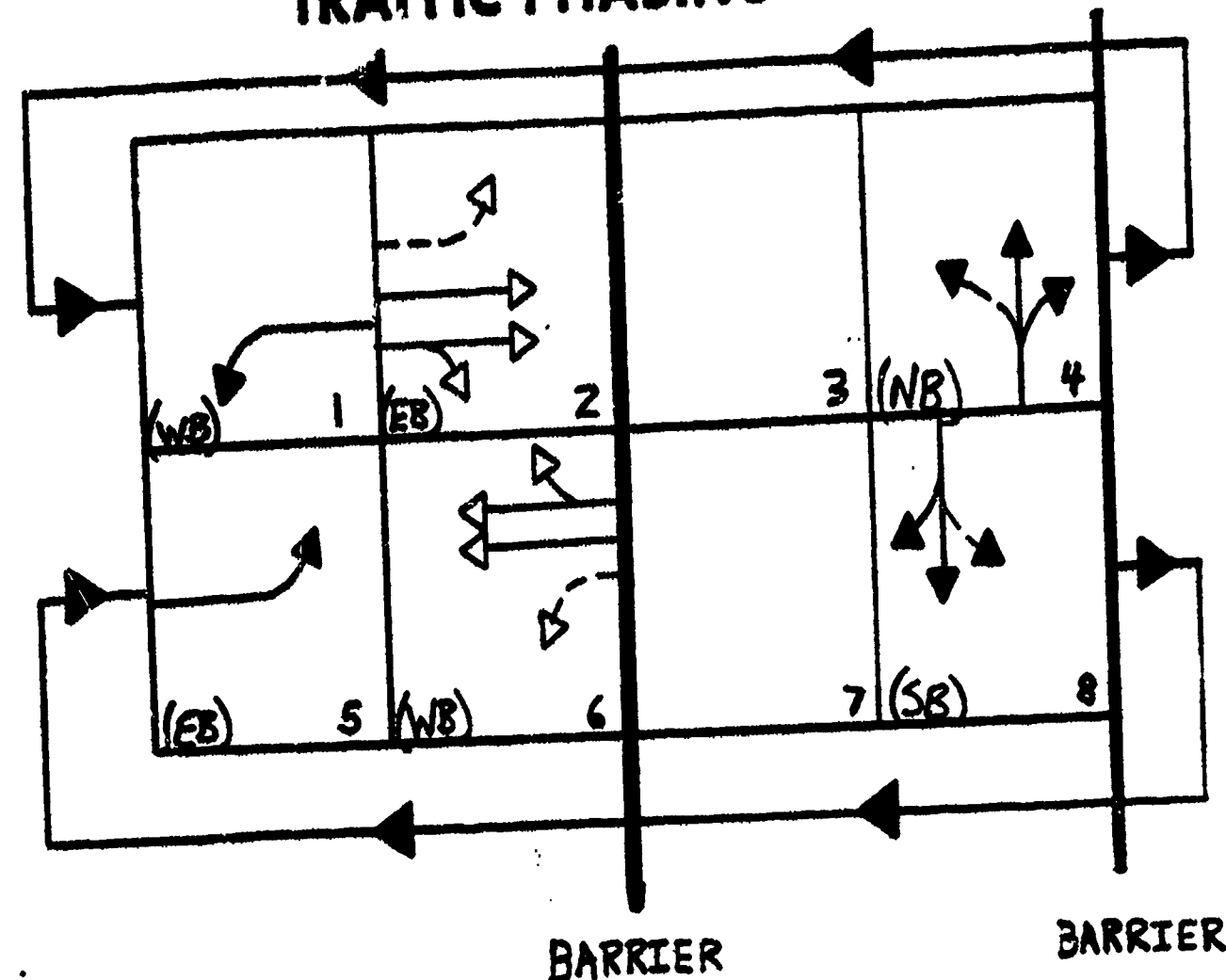


FINAL PLANS

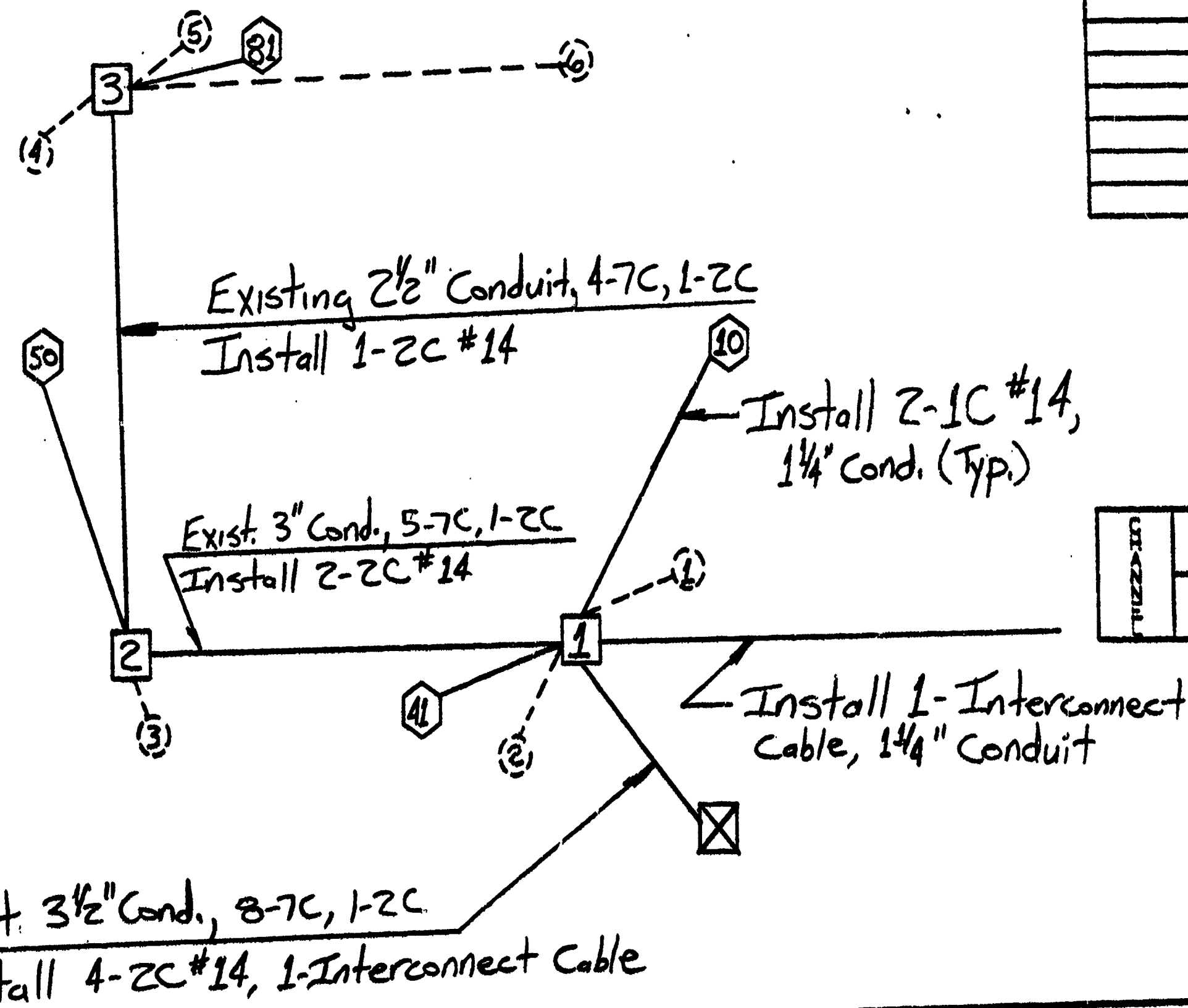
COUNTY JACKSON
ROUTE 24
JOB NO J4U1054

Sht #
21

TRAFFIC PHASING



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION		ACTUATED	SOLID STATE ON-OFF PRE-TIMED SWITCH	COORDINATION UNIT			TONE UNIT	
APPROACH	STATION	OFFSE.	KEYBOARD ENTRY	TYPE	TYPE	MASTER	LOCAL	TIME BASE
Route 24	98+22	76 RT	1			1		

* See Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE			MAGNETOMETER	
			INDUCTION LOOP	STANDARD	DELAY/EXTEND	STANDARD	DELAY/EXTEND
10	Route 24 (WB)	1		1			
50	Route 24 (EB)	5		1			
41	Dover (NB)	4			1		
81	Concord (SB)	8			1		
TOTAL			2	2			

INDUCTION LOOP ASSIGNMENT

CARD POSITION								
	1	2	3	4	5	6	7	8
1	10	41						
2	50	81						

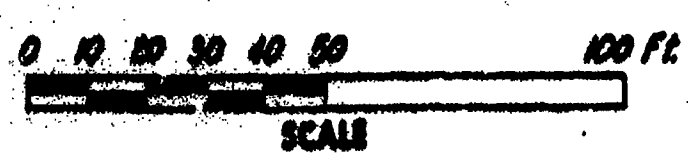
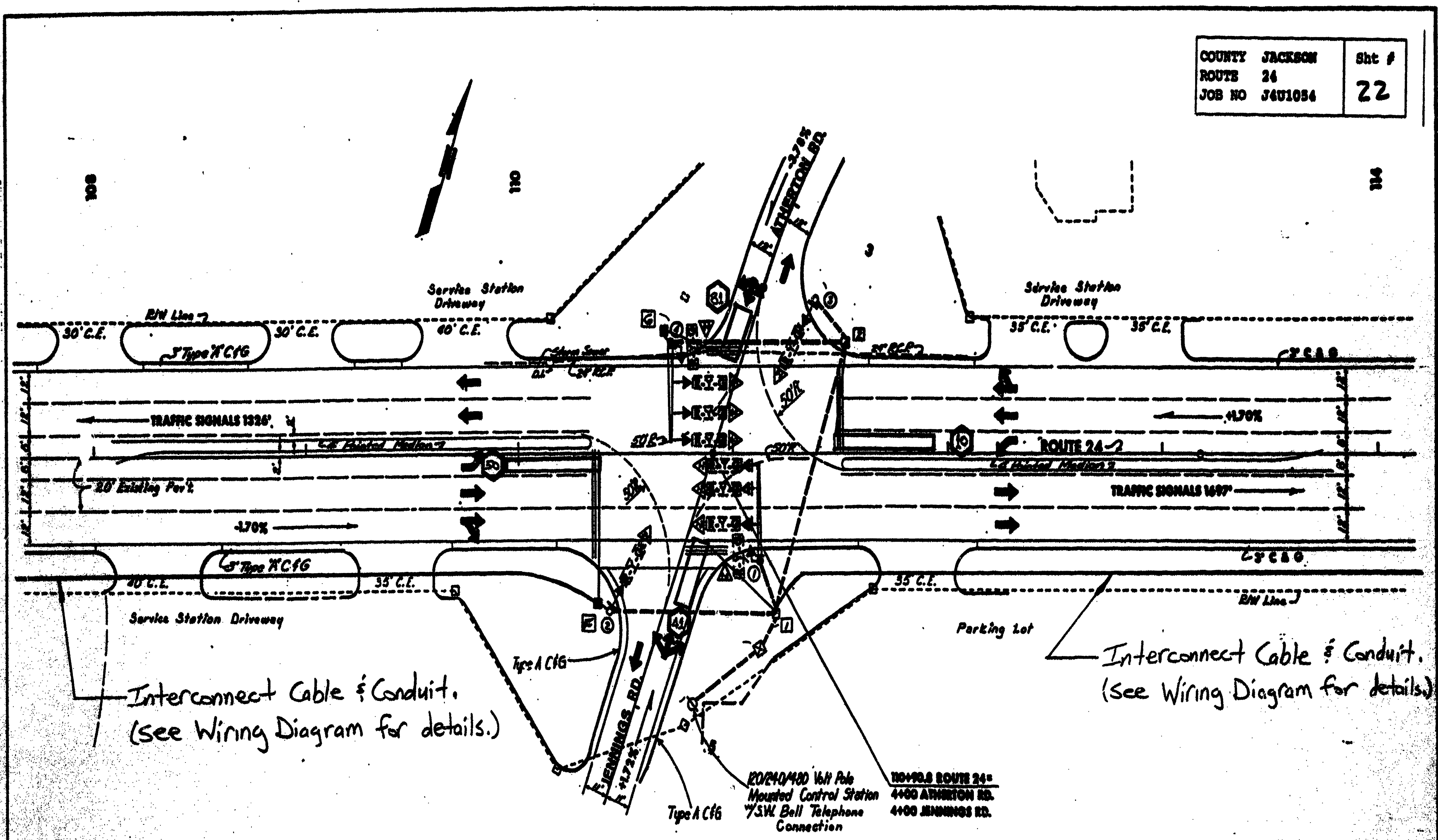
TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 2

Route 24 & Dover-Concord
INTERSECTION

105

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	22
JOB NO	J4U1054	



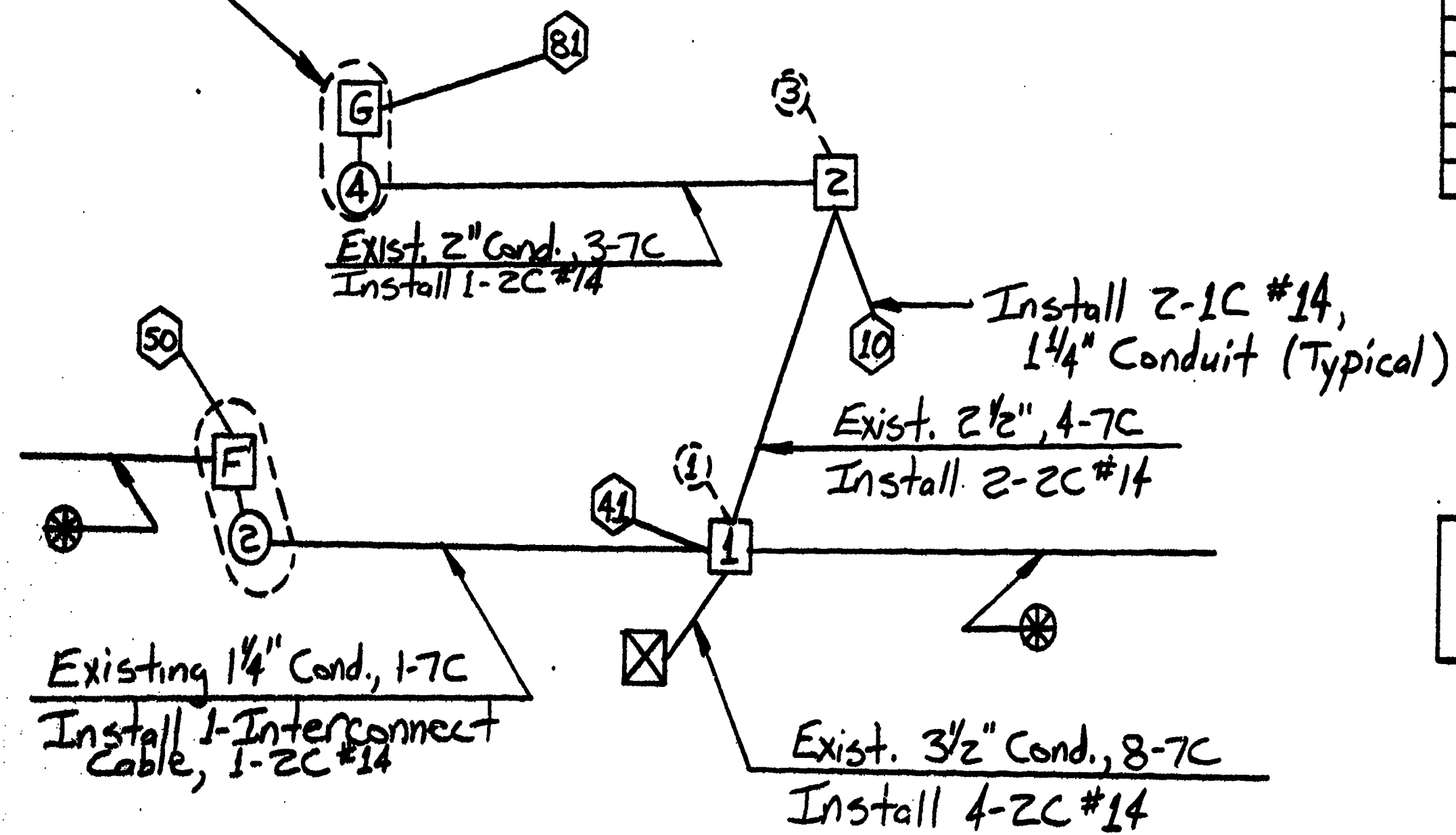
ROUTE 24
JENNINGS ATHERTON

106

COUNTY JACKSON	Sht #
ROUTE 24	
JOB NO J4U1054	23



- See "Pole Modification
for Wiring Detail" (Typical)



• Install 1-Interconnect Cable, 1-1/4" Conduit

LOCATION			ACTUATED	SOLD STATION-OPEN PRE-TIME SWITCH		COORDINATION UNIT			TONE UNIT*	
APPROACH	STATION	OFFSET	REAR X KEYBOARD ENTRY	TYPE	TYPE	MASTER	LOCAL	TIME BASE	TRANS- MITTER	RECEIVER
Route 24	111+05	80Rt	1	S-M	S-S	S-N	I	II		
							X			

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE				
			INDUCTION LOOP		MAGNETOMETER		
			STANDARD	DELAY/ EXTEND	COUNT UNIT	STANDARD	DELAY/ EXTEND
10	Route 24 (WB)	1	1				
50	Route 24 (EB)	5	1				
41	Jennings (NB)	4		1			
81	Atherton (SB)	8		1			
TOTAL							

		CARD POSITION							
		1	2	3	4	5	6	7	8
CIPHER	1	10	41						
	2	50	81						

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 2

Route 24 & Jennings-Atherton

COUNTY	JACKSON	Sht #
ROUTE	24	24
JOB NO	J4U1054	

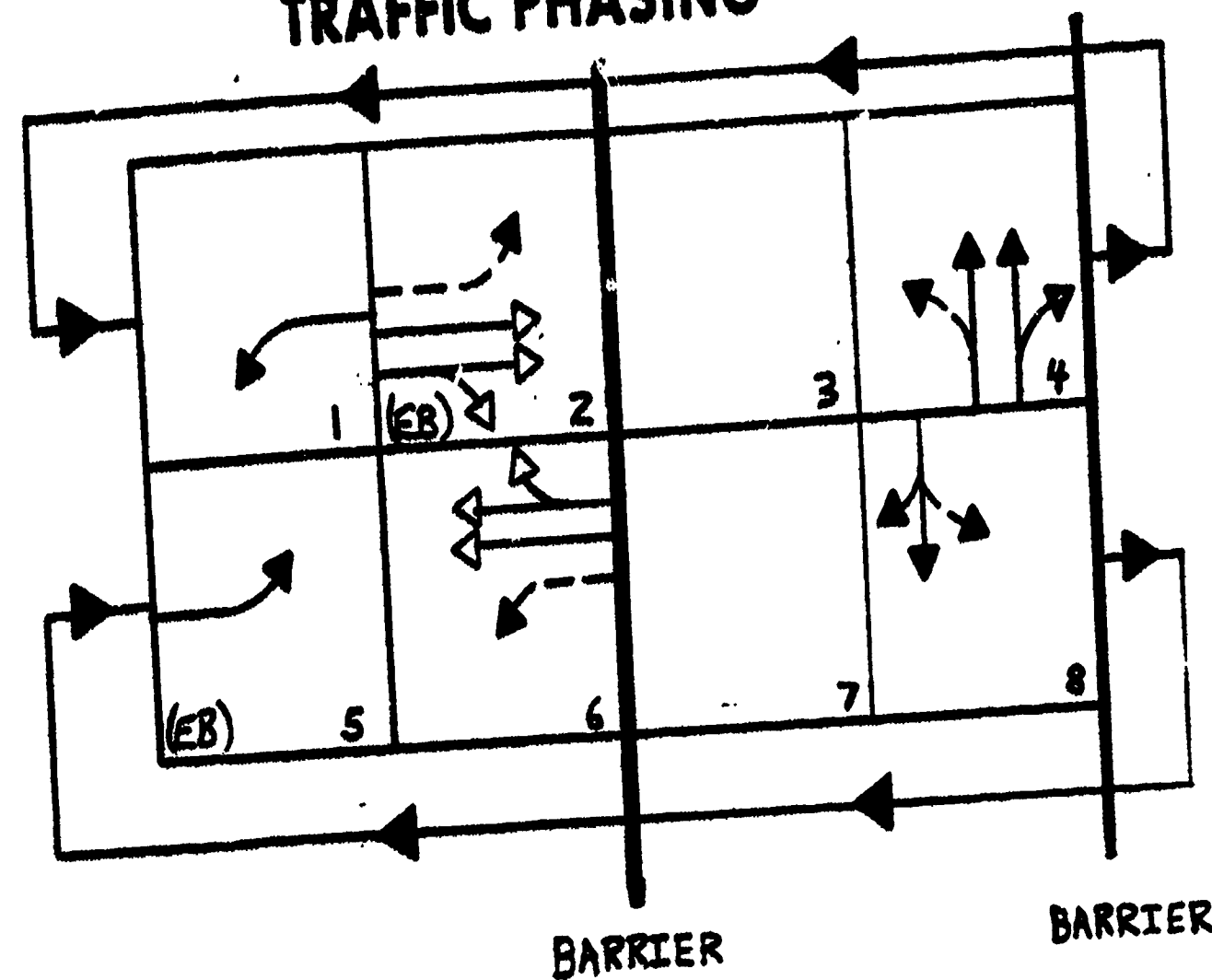


FINAL PLANS

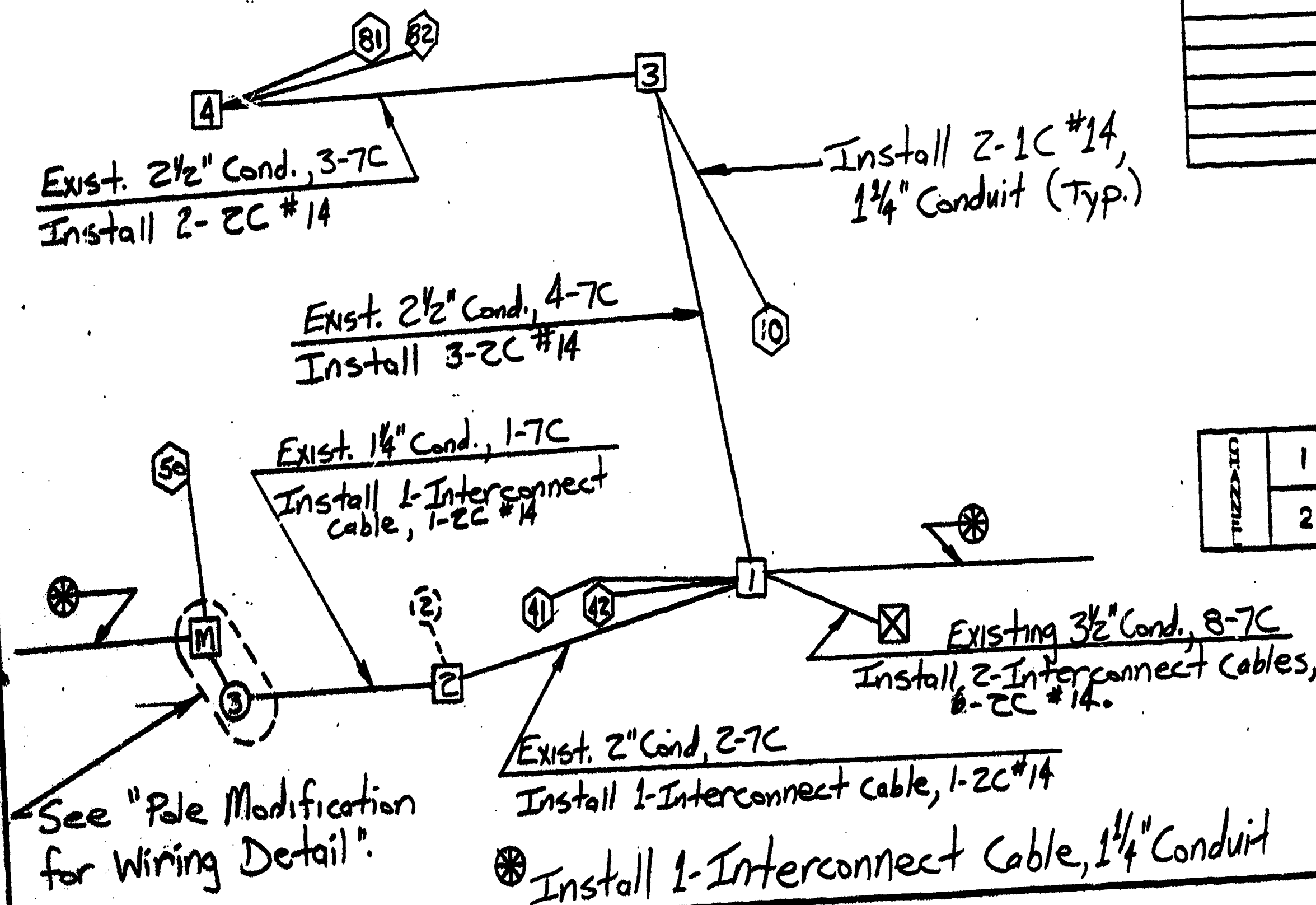
COUNTY JACKSON
ROUTE 24
JOB NO J4U1054

Sht #
25

TRAFFIC PHASING



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT											
LOCATION			ACTUATED			SOLID STATE W-OFM			COORDINATION		
			KEYBOARD ENTRY			PRE-TIMED SWITCH			UNIT		
APPROACH	STATION	OFFSET	NEHA #	TYPE	TYPE	TYPE	TYPE	TYPE	MASTER	LOCAL	TIME BASE
Route 24	128+66	70RT	1								

* See Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE			MAGNETOMETER	
			INDUCTION LOOP	DELAY/EXTEND	COUNT UNIT	STANDARD	DELAY/EXTEND
10	Route 24 (WB)	1	1				
50	Route 24 (EB)	5	1				
41	Susquehanna (NB)	4	1				
42	"	4		1			
81	Farview (SB)	8		1			
82	Farview (SB)	8	1				
TOTAL			3	2			

INDUCTION LOOP ASSIGNMENT

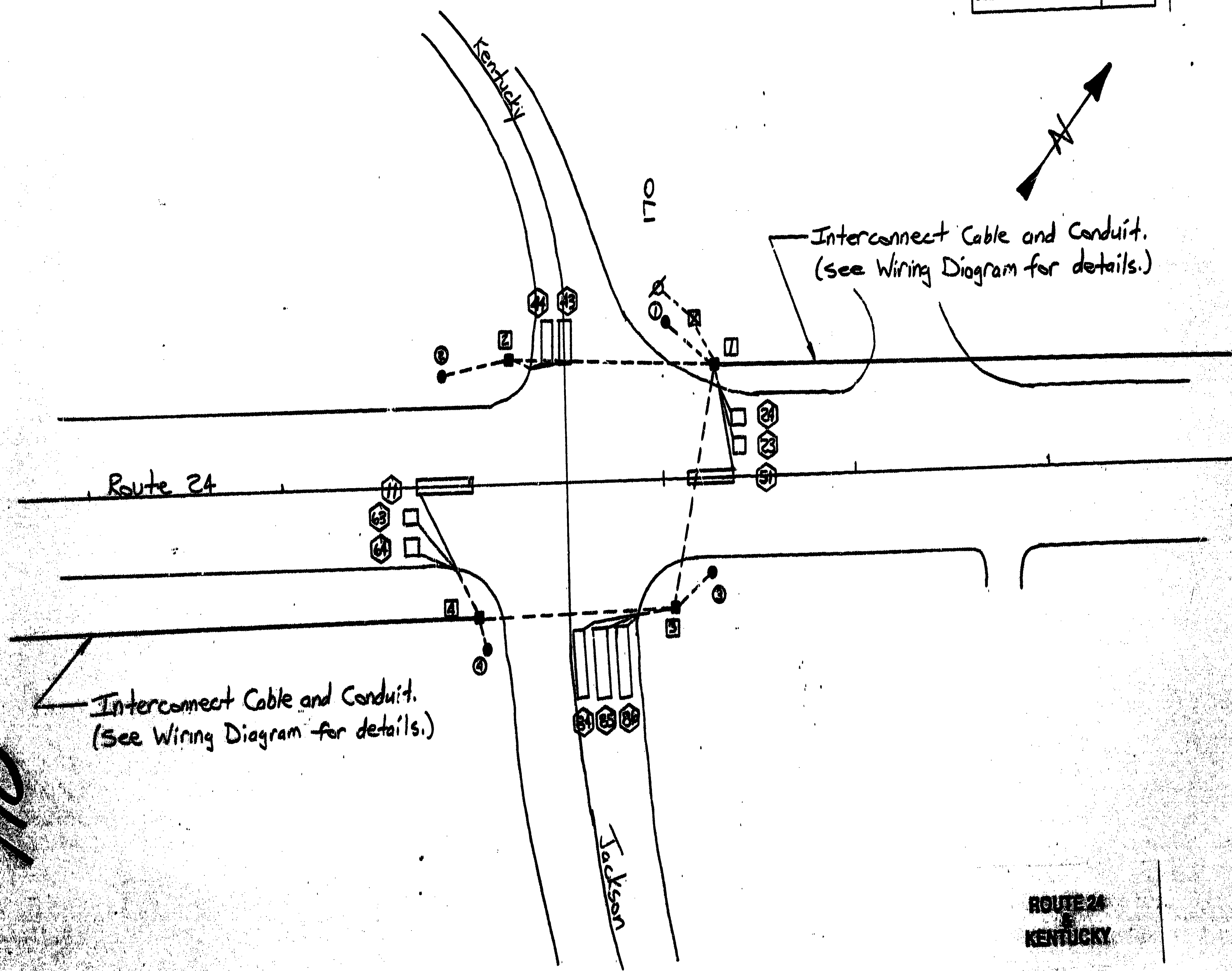
CARD POSITION								
	1	2	3	4	5	6	7	8
1	10	42	41					
2	50	81	82					

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 3

Route 24 & Susquehanna-Farview
INTERSECTION

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	26
JOB NO	J4U1054	



ROUTE 24
KENTUCKY

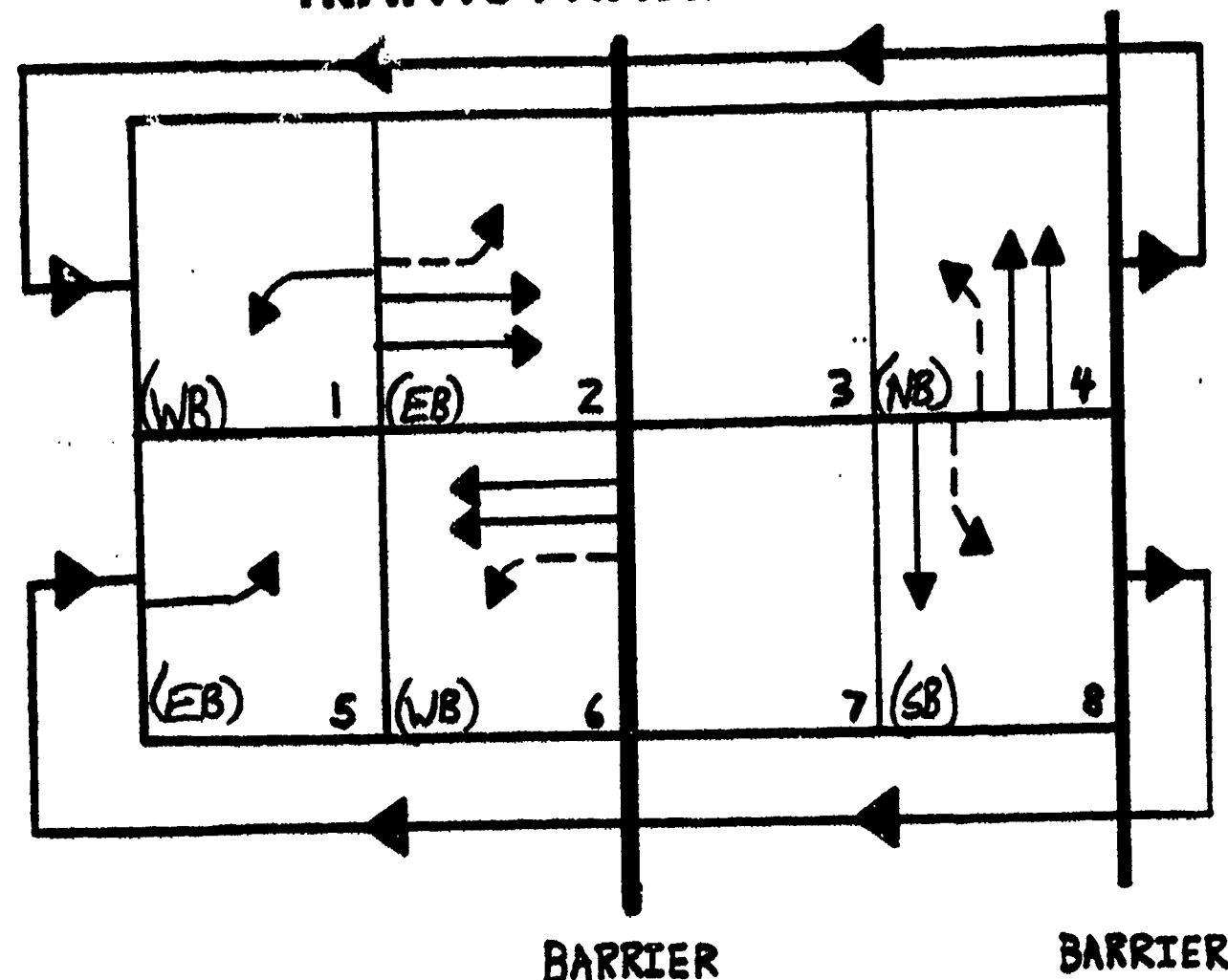
110

FINAL PLANS

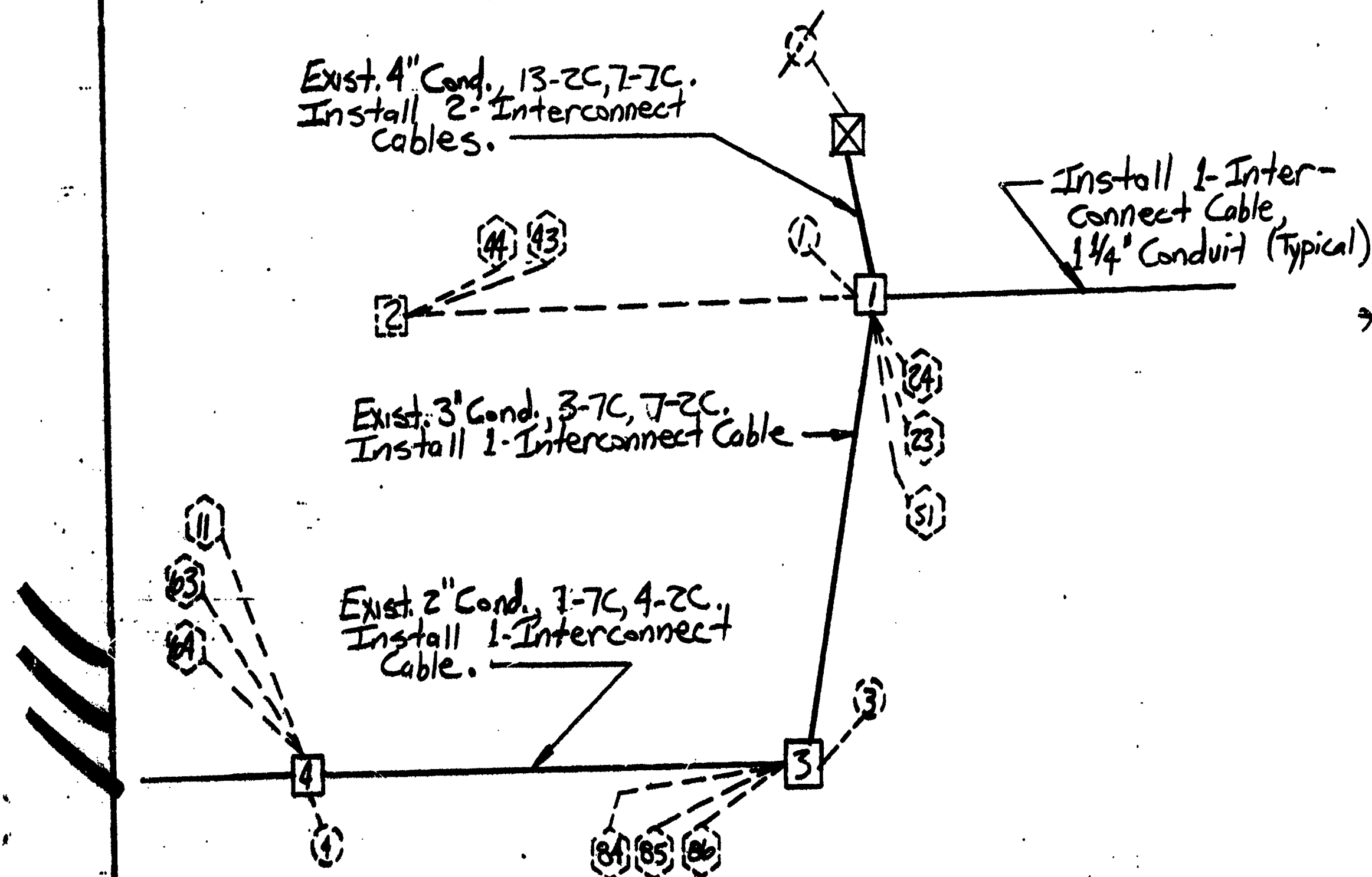
COUNTY JACKSON
ROUTE 24
JOB NO J4U1054

Sht #
27

TRAFFIC PHASING



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			ACTUATED	SCD STATE-UP	PRE-TRIP	RETRACT	COORDINATION			TONE UNIT*	
APPROACH	STATION	OFFSET	NEW X	TYPE	TYPE	TYPE	MASTER	LOCAL	TIME BASE	TRANS-MITTER	RECEIVER
Route 24	170+20	70' LT	1					X			

* See Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE				MAGNETOMETER	
			INDUCTION LOOP			COUNT UNIT	STANDARD	DELAY/EXTEND
			STANDARD	DELAY/EXTEND	COUNT UNIT			
11 *	Route 24 (EB)	5		1				
63 *	"	2	1					
64 *	"	2	1					
51 *	Route 24 (WB)	1		1				
23 *	"	6	1					
24 *	"	6	1					
43 *	Kentucky (SB)	8	1					
44 *	"	8		1				
84 *	Jackson (NB)	4	1					
85 *	"	4	1					
86 *	"	4		1				
TOTAL			7	4				

* Existing Detector Loops

INDUCTION LOOP ASSIGNMENT

CARD POSITION								
	1	2	3	4	5	6	7	8
1	11	63	23	44	84	43		
2	51	64	24	86	85			

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 6

Route 24 & Kentucky

INTERSECTION

FINAL PLANS

NO	JOB NO 341124	24
PROJECT NO	FAF-24-1(51)	
COUNTY	JACKSON	24

POSTED SPEEDS

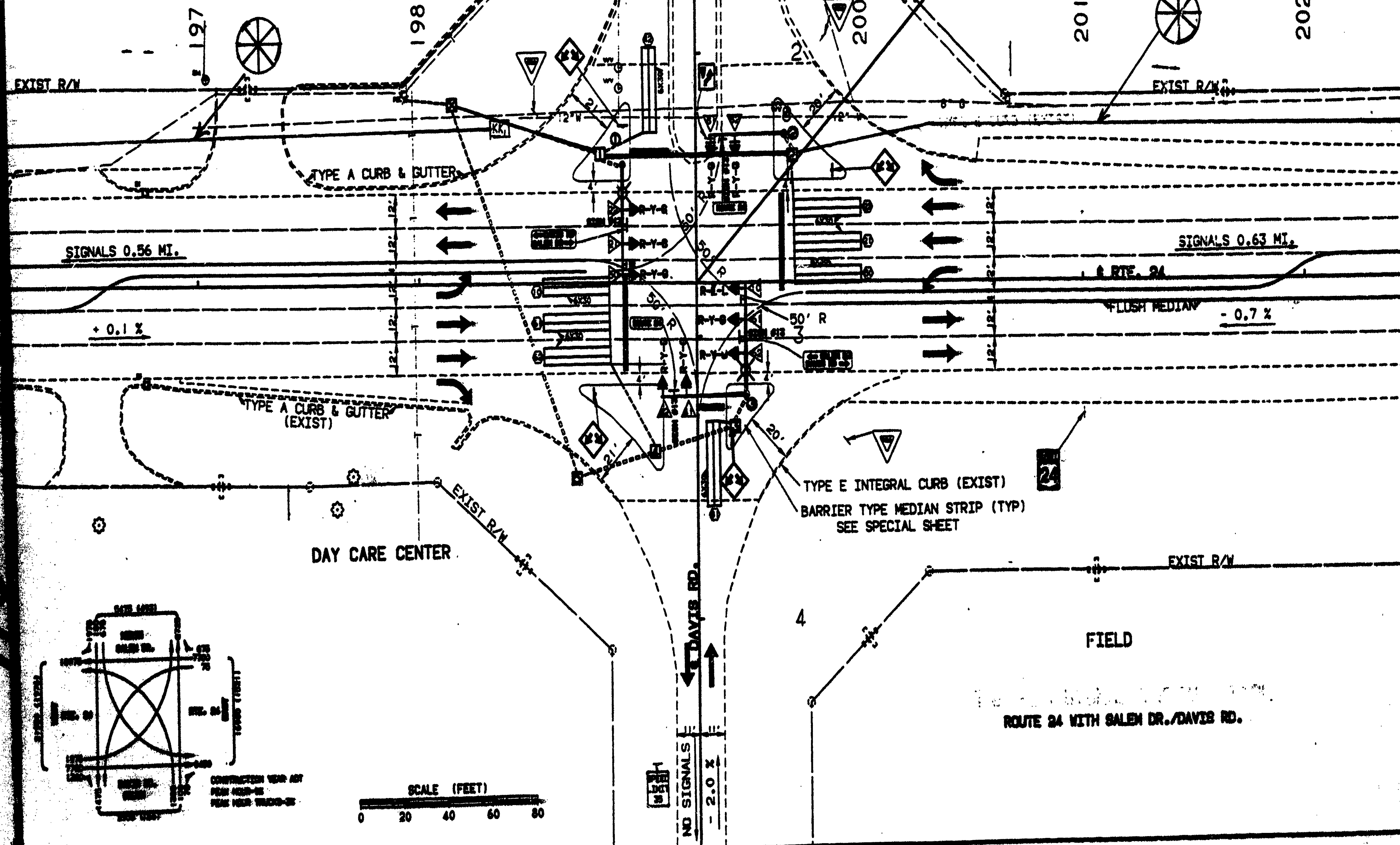
ROUTE 24 50 MPH
SALEM DR 25 MPH
DAVIS RD 35 MPH

PARKING CONDITIONS NONE
BUS STOPS NONE

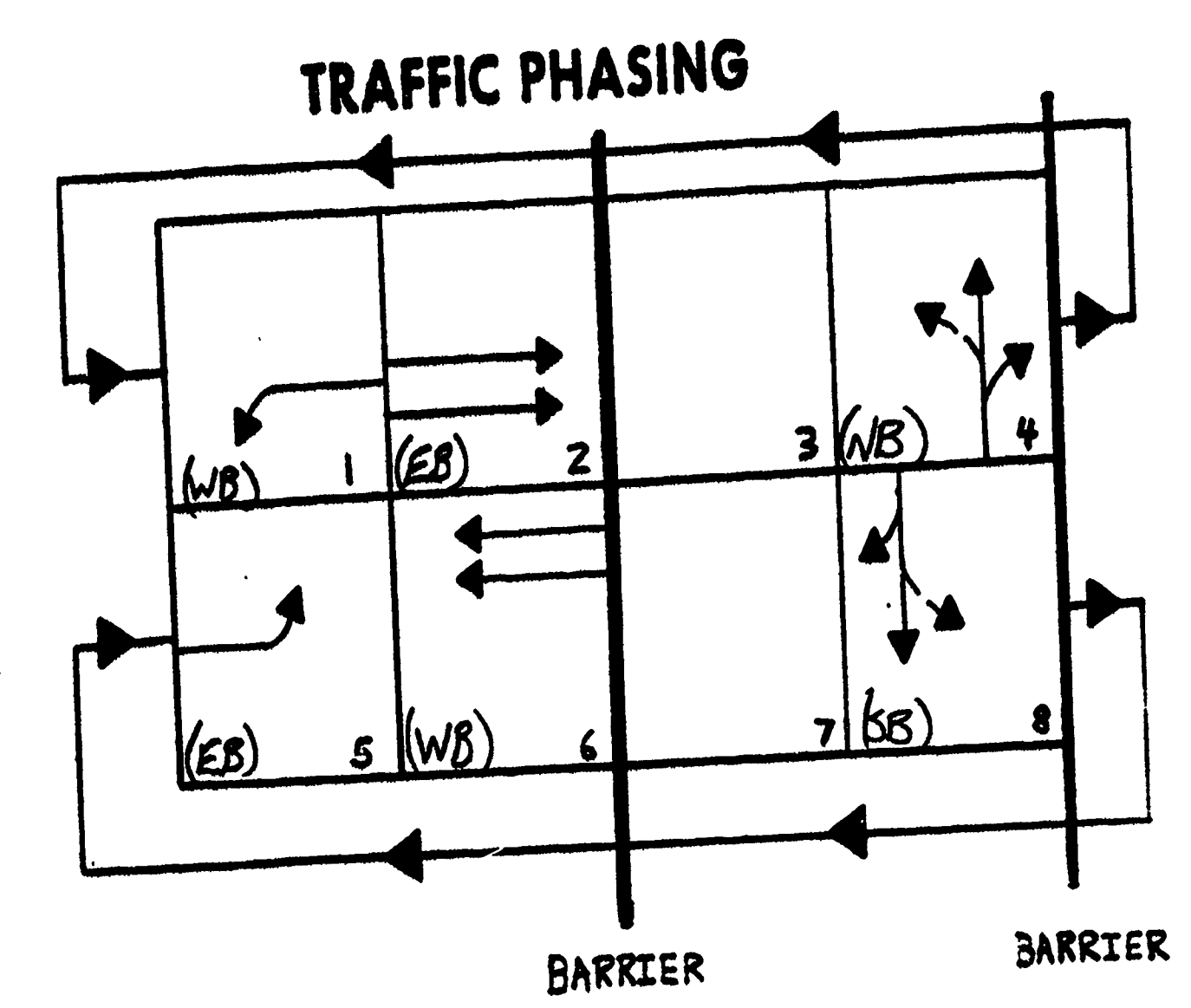
THE LITTLE
GENERAL STORE

HARMONY HEIGHTS BAPTIST CHURCH

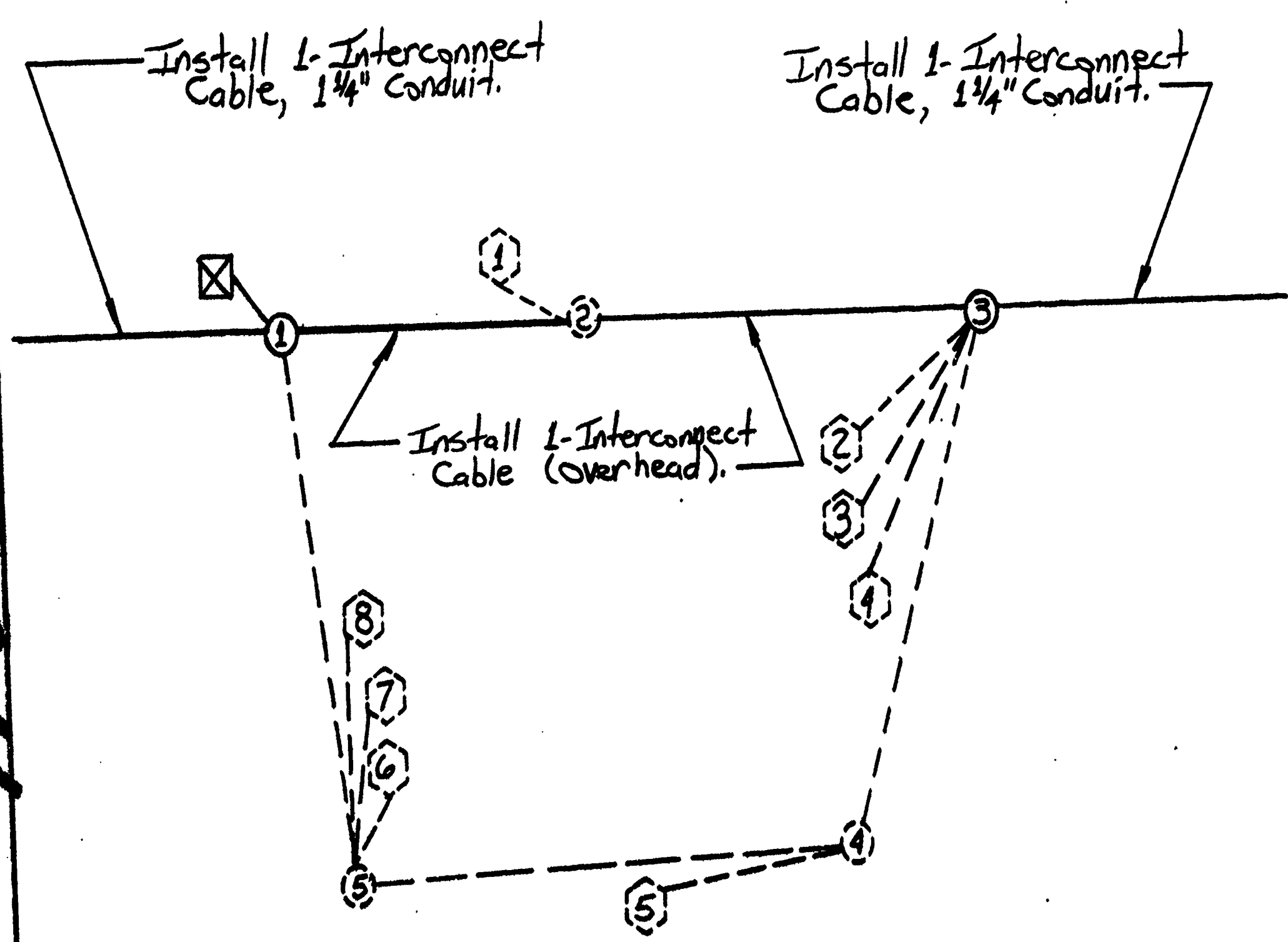
199+25.7 & RTE 24
= 2+81.0 & SALEM DR
= 2+81.0 & DAVIS RD



112



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT										
LOCATION			ACTUATED		SOLID STATE ON-OFF PRE-TIMED SWITCH		COORDINATION UNIT			TONE UNIT*
APPROACH	STATION	OFFSET	NEPA #	KEYBOARD ENTRY	TYPE	TYPE	MASTER	LOCAL	TIME BASE	TRANS-MITTER
Route 24	198+38	62' LT		1						

*See Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE			MAGNETOMETER	
			INDUCTION LOOP		COUNT UNIT	STANDARD	DELAY/EXTEND
			STANDARD	DELAY/EXTEND			
1 *	Solem (SB)	8	1				
2 *	Route 24 (WB)	6	1				
3 *	"	6	1				
4 *	"	1	1				
5 *	Davis (NB)	4	1				
6 *	Route 24 (EB)	2	1				
7 *	"	2	1				
8 *	"	5	1				
TOTAL			8				

* Existing Detector Loop

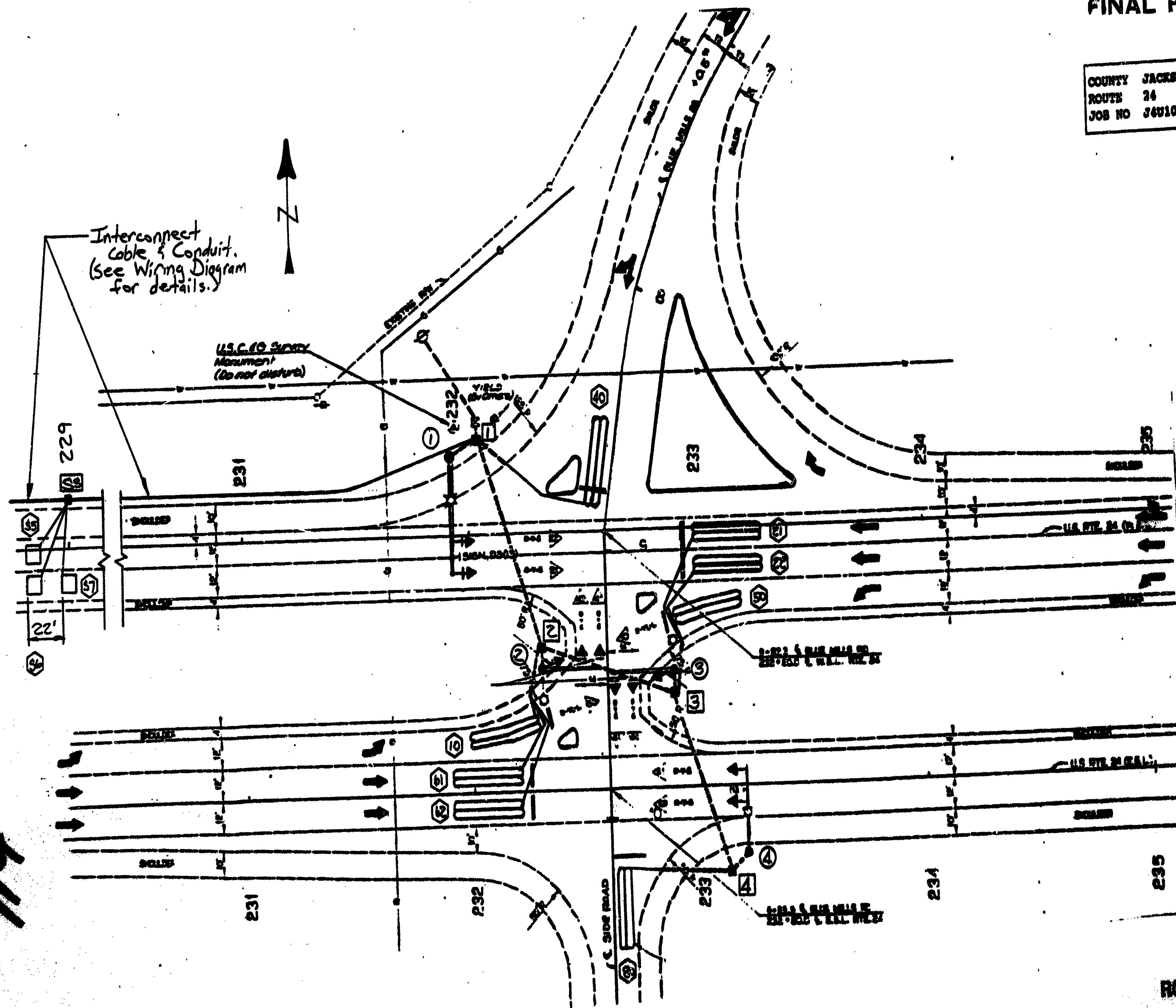
INDUCTION LOOP ASSIGNMENT								
CARD POSITION								
	1	2	3	4	5	6	7	8
1	1	2	3	4				
2	5	6	7	8				

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 4

Route 24 & Solem
INTERSECTION

FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	30
JOB NO	J4U1054	



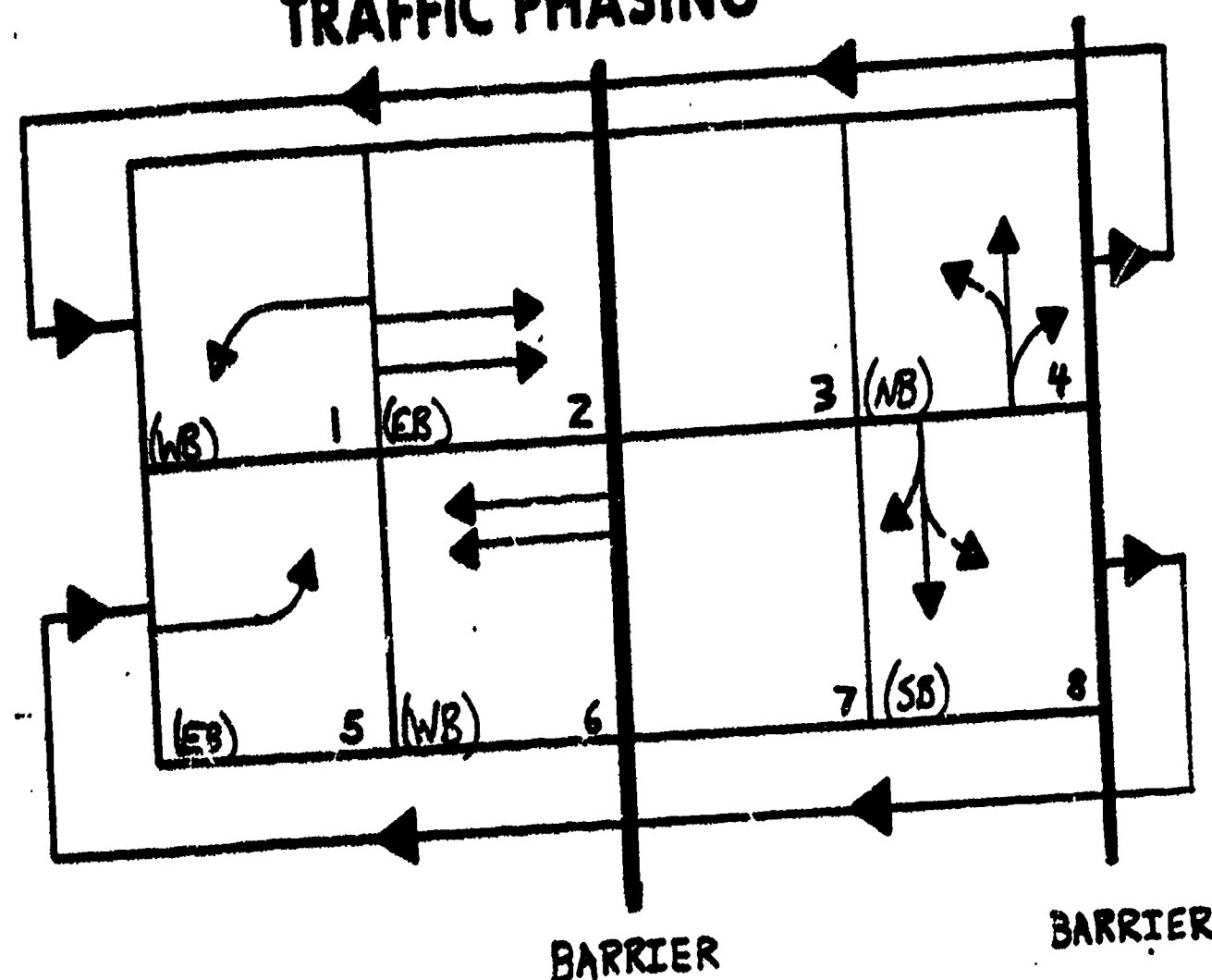
**ROUTE 24
&
BLUE MILLS**

FINAL PLANS

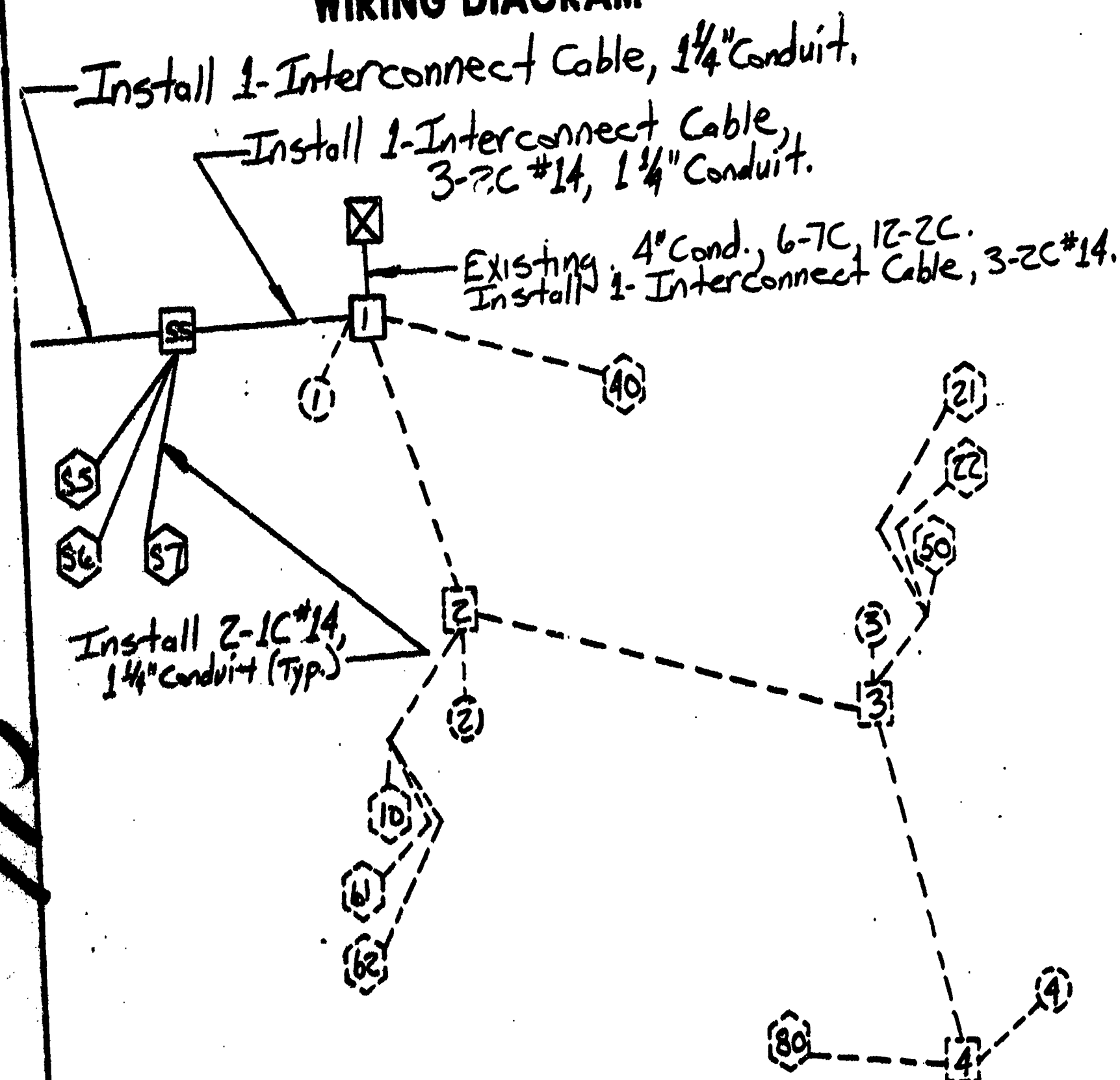
COUNTY JACKSON
ROUTE 24
JOB NO J4U1054

Sht #
31

TRAFFIC PHASING



WIRING DIAGRAM



CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION	ACTUATED	KEYBOARD ENTRY	SOLID STATE ON-OFF PRE-TIMED SWITCH			COORDINATION UNIT		TONE UNIT*	
			TYPE	TYPE	TYPE	MASTER	LOCAL	TIME BASE	TRANS-MITTER RECEIVER
Route 24	E32+04	4S/LT	1						

* See Special Provisions

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	PHASE	TYPE			MAGNETOMETER	
			INDUCTION LOOP	DELAY/EXTEND	COUNT UNIT	STANDARD	DELAY/EXTEND
10 *	Route 24 (EB)	3	1				
61 *	"	2	1				
62 *	"	2	1				
40 *	Blue Mills (SB)	8	1				
50 *	Route 24 (WB)	1	1				
21 *	"	6	1				
22 *	"	6	1				
80 *	Blue Mills (NB)	4	1				
55	Route 24 (WB)	System	1				
56	"	"	1				
57	"	"	1				
TOTAL			11				

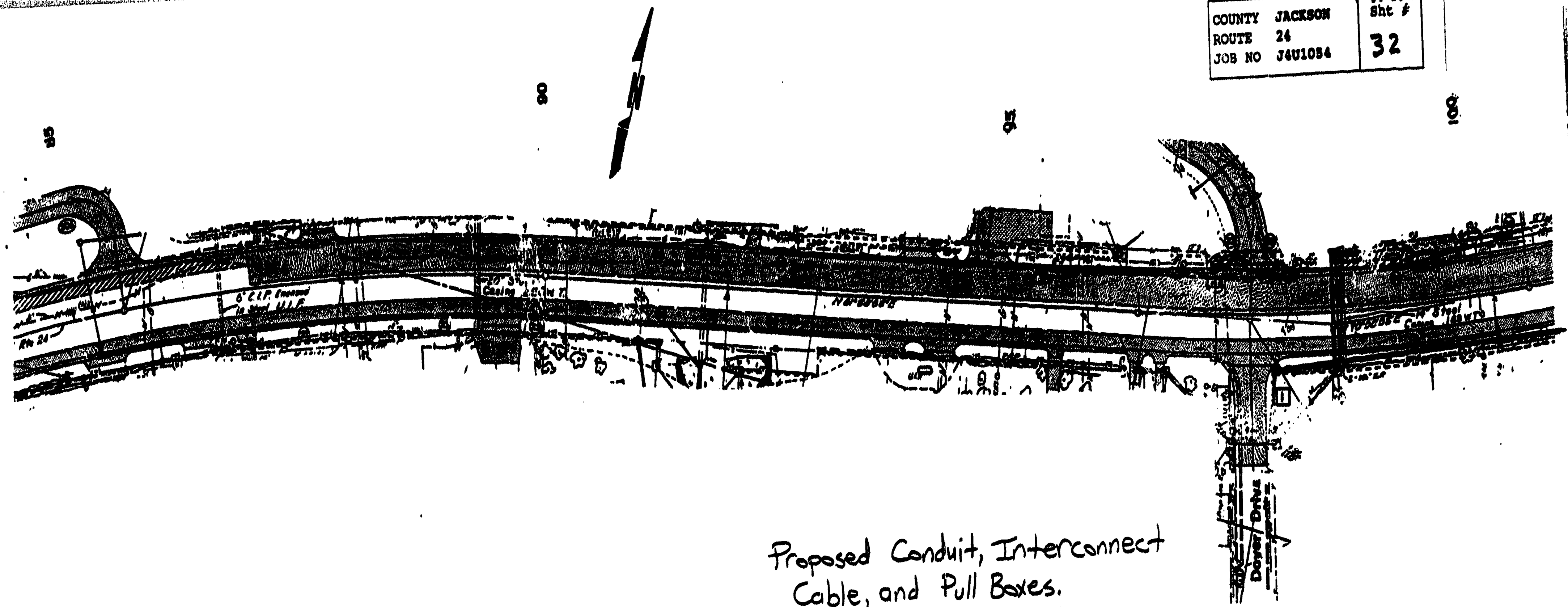
* Existing Detector Loops

INDUCTION LOOP ASSIGNMENT

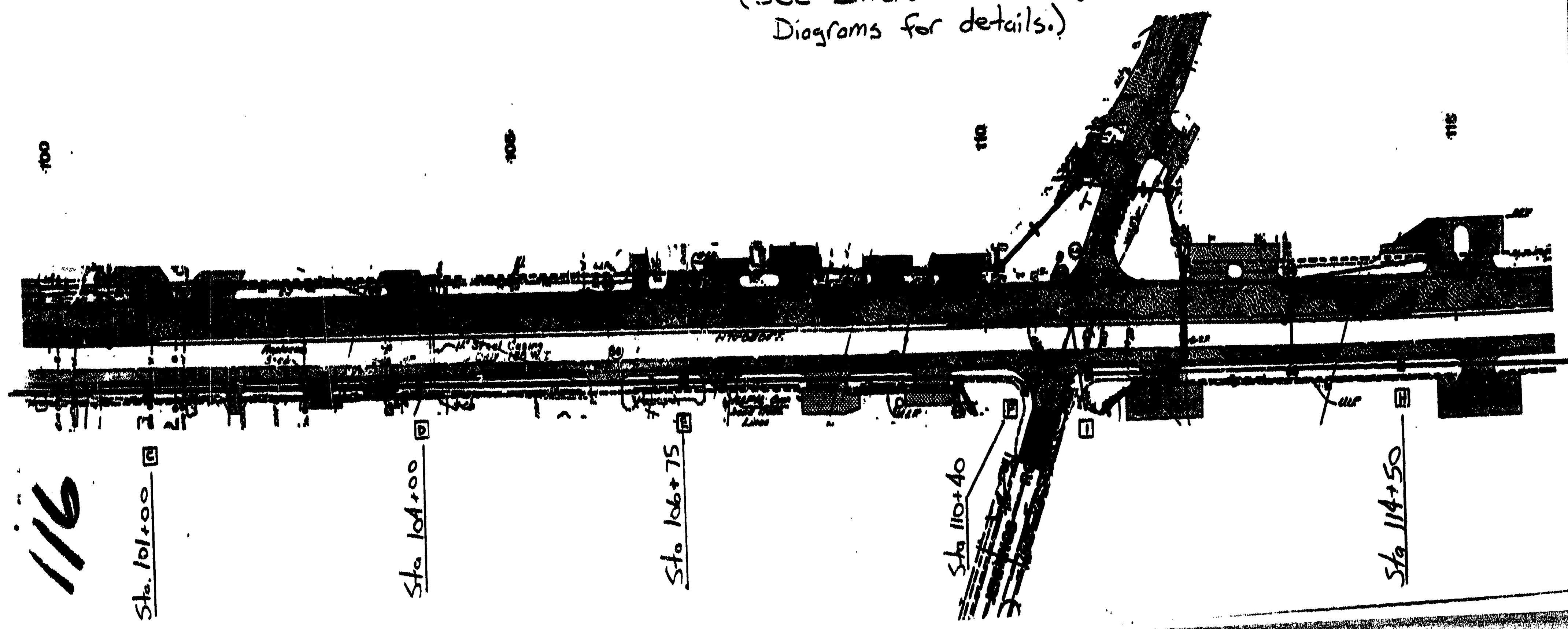
CARD POSITION	CARD POSITION							
	1	2	3	4	5	6	7	8
1	10	61	62	40	55	57		
2	50	21	22	80	56			

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = 6

Route 24 & Blue Mills Road
INTERSECTION



Proposed Conduit, Interconnect
Cable, and Pull Boxes.
(See Intersection Wiring
Diagrams for details.)



116

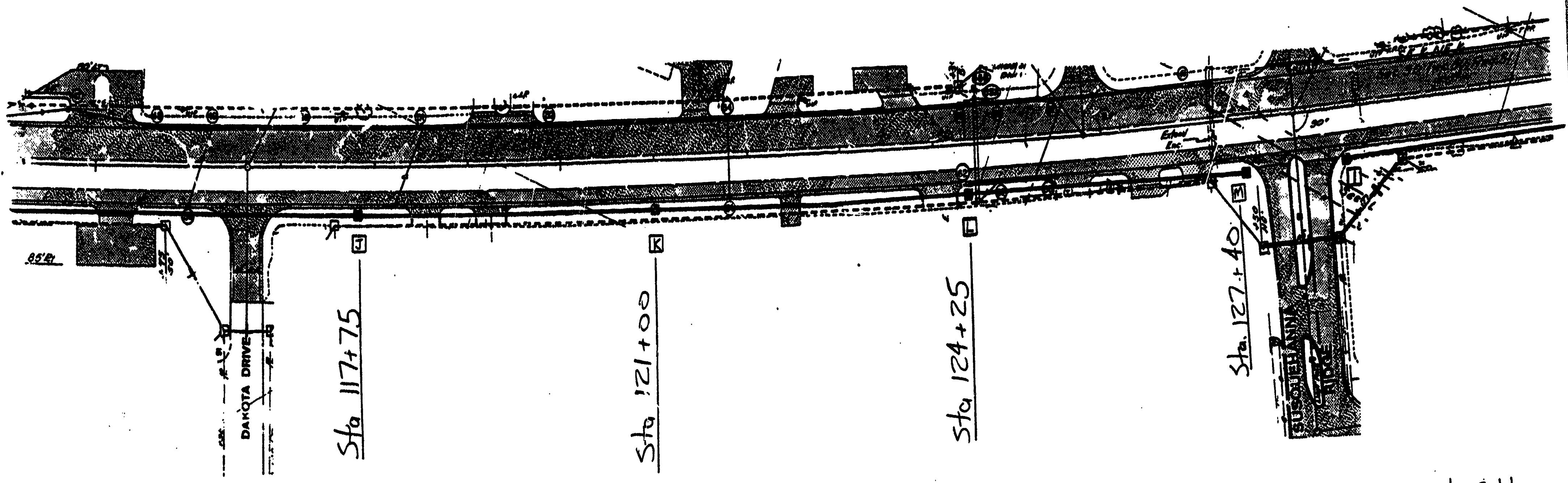
Sta. 101+00

Sta. 104+00

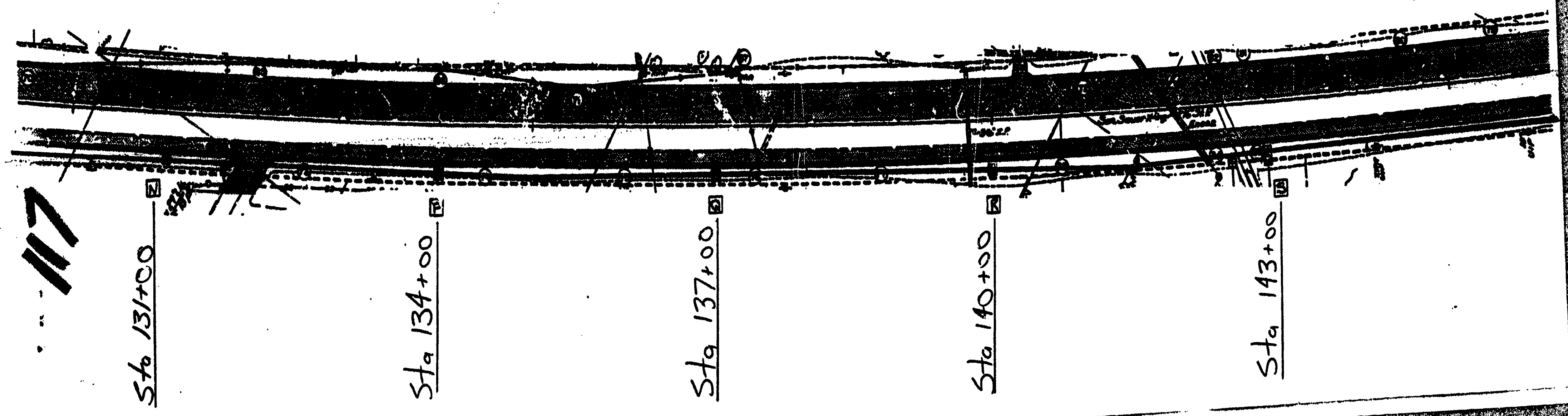
Sta. 106+75

Sta. 110+40

Sta. 114+50

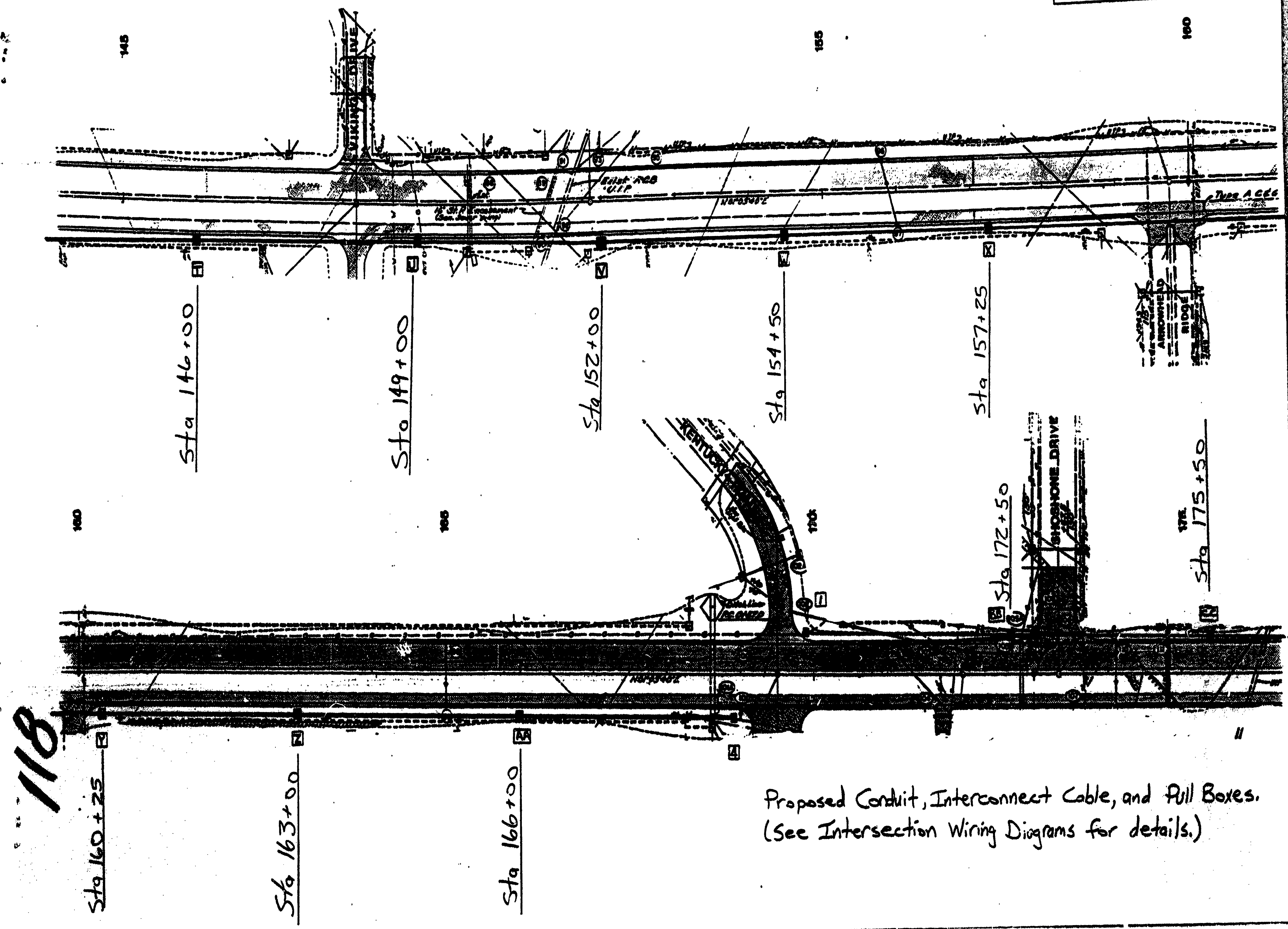


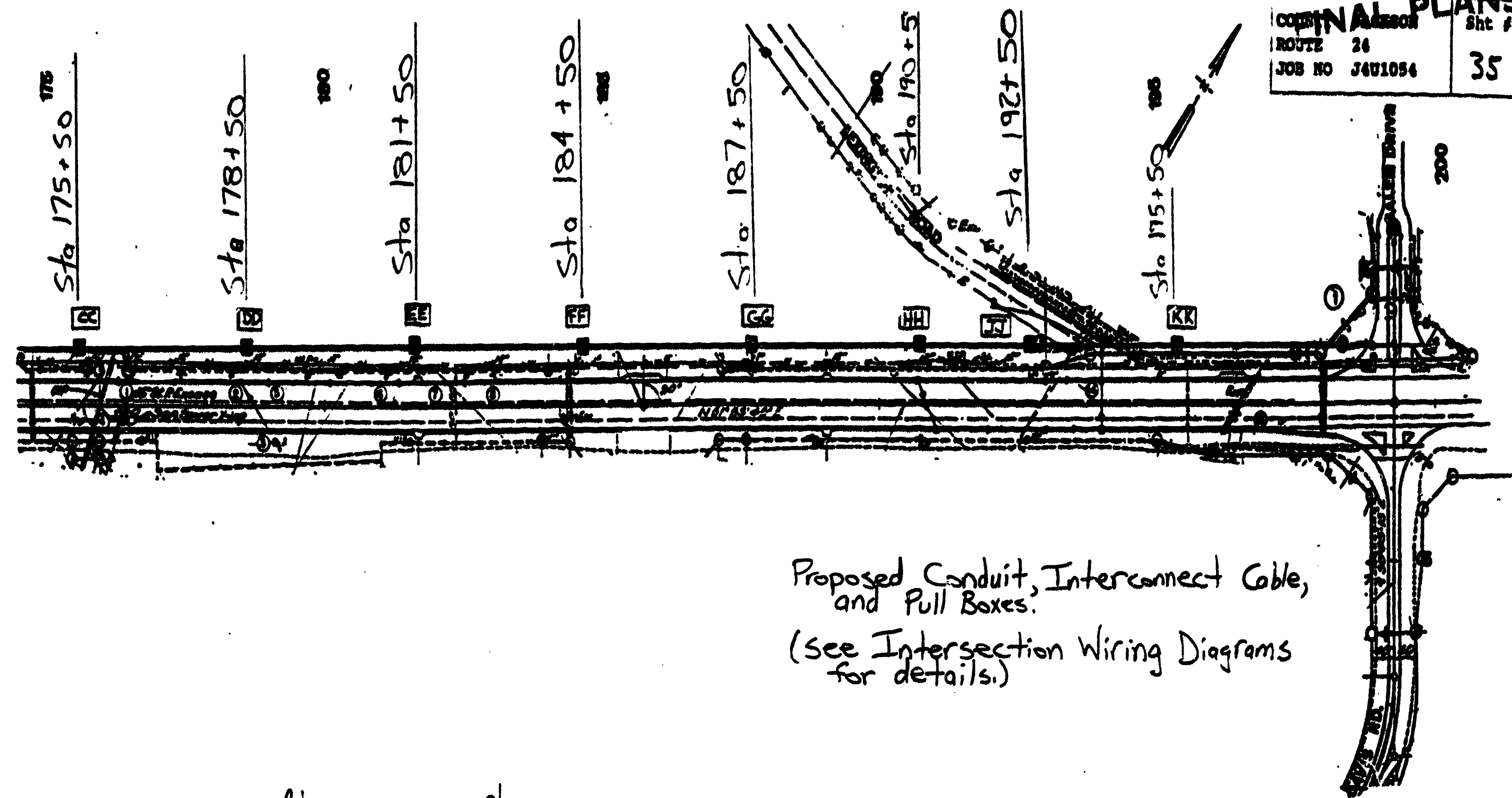
Proposed Conduit, Interconnect Cable,
and Pull Boxes.
(See Intersection Wiring Diagrams for details.)



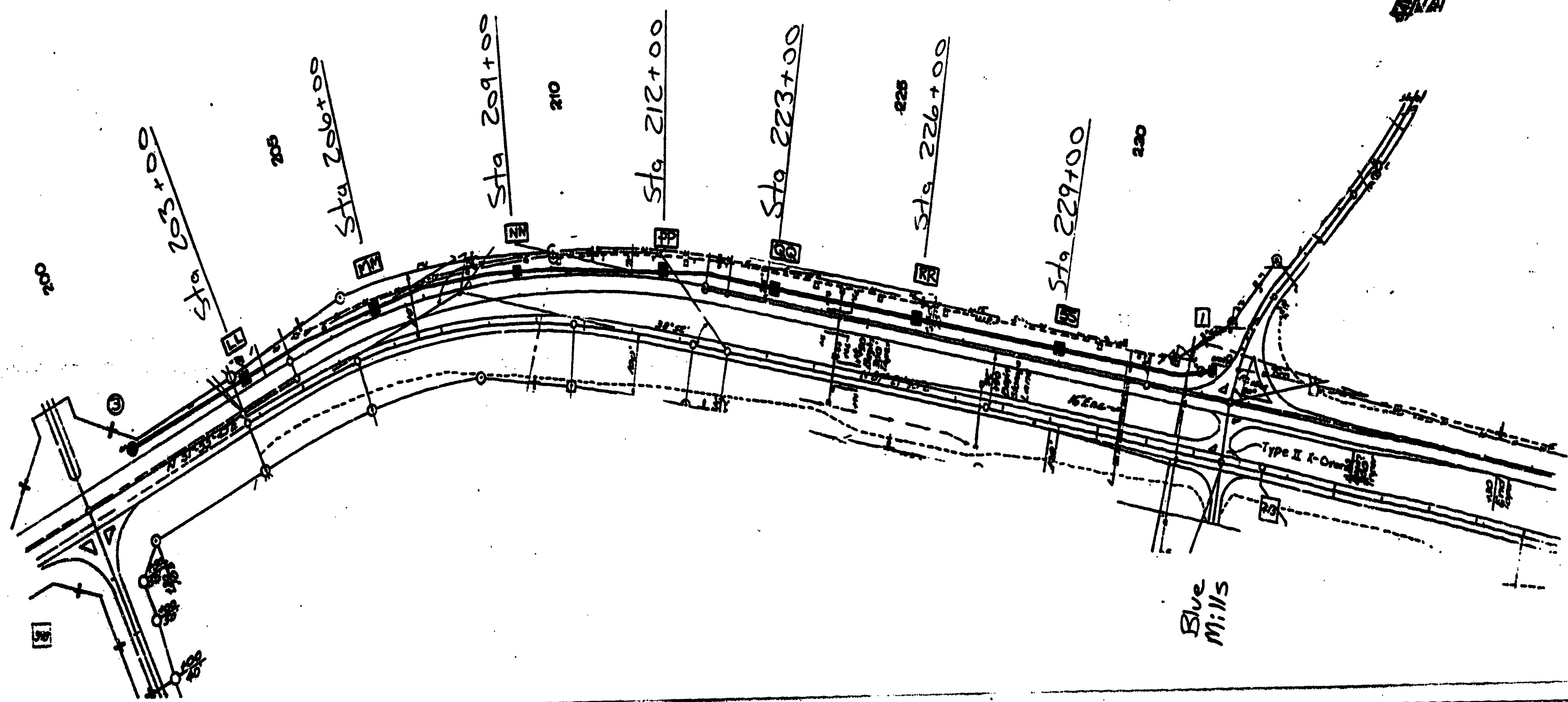
FINAL PLANS

COUNTY	JACKSON	Sht #
ROUTE	24	34
JOB NO	J4U1054	





Proposed Conduit, Interconnect Cable,
and Pull Boxes.
(See Intersection Wiring Diagrams
for details.)



119

REV SEP 7, 99

STATE	MO	JOB NO.	J4X0524	SHEET NO.	9
PROJECT NO.	4	F.A.H.S.-24-1(50)	ROUTE	24	
COUNTY	JACKSON				

CONDUIT																CABLE															
FROM	TO	CTR TO CTR DISTANCE	TRENCH				MEDIAN		PUSHED				ON BRIDGE		REMARKS	FROM	TO	CTR TO CTR DISTANCE	POWER		CONTROL						DETECTOR		REMARKS		
			1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	1-1/4	2	2-1/2	3	3-1/2					4	1c #6	2c #12	3c #12	5c #12	7c #12	12c #12	1c #14	LEAD -IN CABLE				
4	X	19			6											22	5	25										320		MAST ARM JUMPER	
1	2	9			3											21	5	34										338			
9	6	6			6											50	5	44										358		MAST ARM JUMPER	
6	4	3			3											81	3	27										324		MAST ARM JUMPER	
4	3	79			0					0						30	3	37										344			
3	5	93				0					0					10	4	20										310		MAST ARM JUMPER	
2	6	70			14					0						61	4	27										324			
1	X	11						14								82	4	37										344			
X	10				20											41	6	18										306			
3	6	11			16											70	6	29										328			
4	5	17			19											3	X	12										40			
1	3	13			0											4	X	91										315			
2	4	19			22											5	X	106										360			
																6	X	176										392			
																1	X	25					0								
																2	X	111					355								
																3	X	187					0								
																4	X	123					192								
																10	X	90													
TOTALS			109	0	14					0	0					TOTALS			90				547				3296	1107			

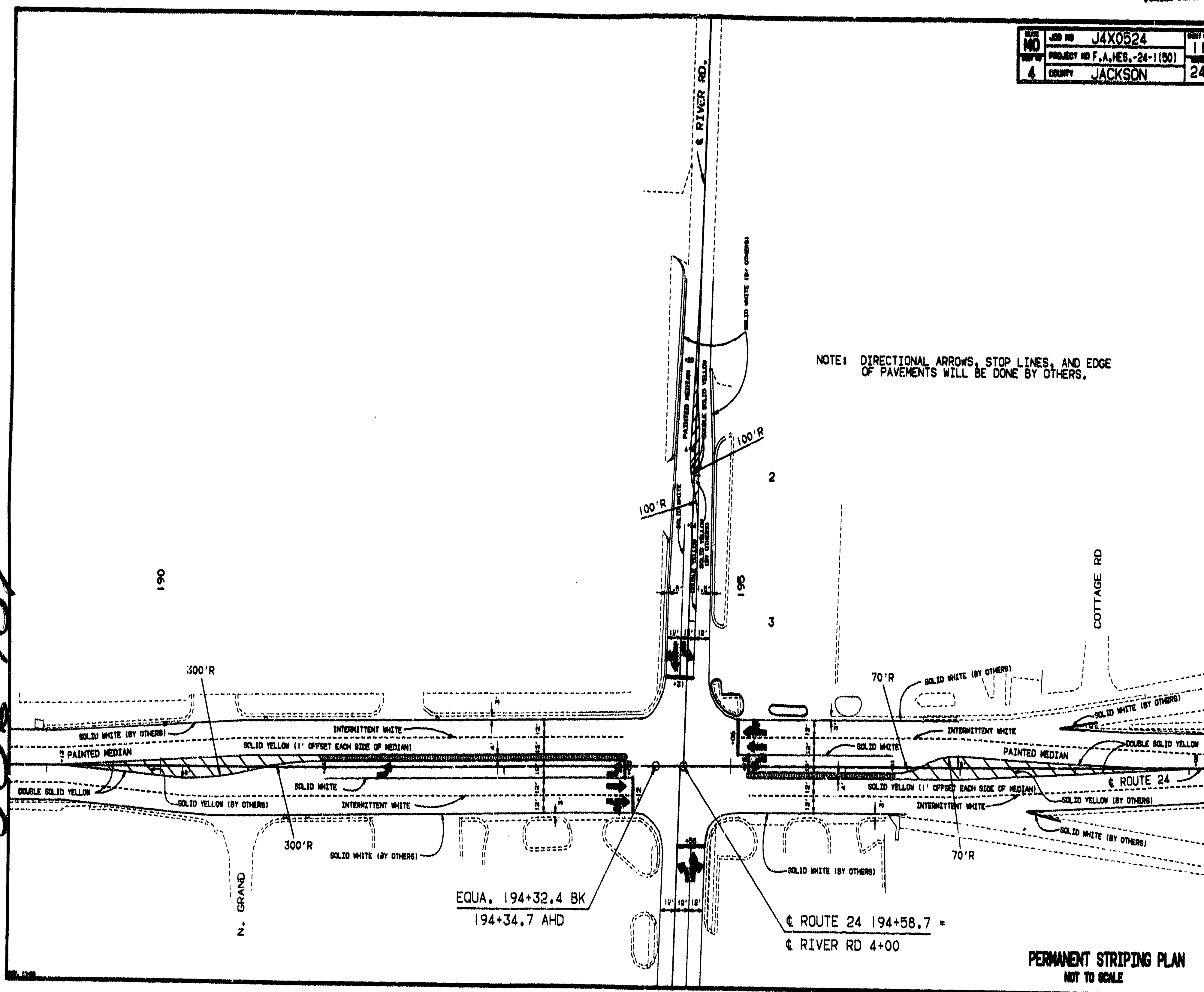
ROUTE 24 AND RIVER RD
INTERSECTION

504487

JOB NO	J4X0524	SHEET NO	11
PROJECT NO	F.A.H.S.-24-1(50)	SHEET	24
COUNTY	JACKSON		

NOTE: DIRECTIONAL ARROWS, STOP LINES, AND EDGE OF PAVEMENTS WILL BE DONE BY OTHERS.

5086 488



PERMANENT STRIPING PLAN
NOT TO SCALE

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

REVISED JAN. 1, 1992

STATE	MO	JOB NO.	J4X0524	SHEET NO.	12
PROJECT NO.	4	PROJECT NO.	E.A.HES-24-1(50)	ROUTE	24
COUNTY	JACKSON				

✓	NO.	DESCRIPTION
	203.00E	EXCAVATION & EMBANKMENT
	203.02C	UNDERGRADING
	203.10B	TABULATED EARTHWORK & SECTION DATA
	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35A	MAIL BOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	203.61	DRIVEWAY TYPE I
	203.62	DRIVEWAY TYPE II
	203.63	DRIVEWAY TYPE III
	203.64	DRIVEWAY TYPE IV
	203.65	DRIVEWAY TYPE V
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	502.00M	CONCRETE PAVEMENT & BASE APPURTENANCES
	502.10E	DOWEL SUPPORTING UNITS
	503.00J	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	604.05B	PIPE CULVERT HEADWALLS - TYPE S
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F
	604.26D	DROP INLET - TYPE G
	604.27D	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40E	PIPE COLLARS
	605.10A	CLASS A UNDERDRAINS
	606.00X	GUARD RAIL (6 SHEETS)
	606.22K	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB ON BRIDGE) (ALSO INCLUDE 606.00)
	606.23C	BRIDGE ANCHOR SECTION (THREE BEAM RAIL ON BRIDGE) (ALSO INCLUDE 606.00)
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.30)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEEL CHAIR RAMPS
	608.20C	CONCRETE STEPS
	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
	609.15B	PAVED DITCHES
	609.40D	DRAIN BASIN, SHOULDER PAVING & FILL SLOPE AT BRIDGE ENDS
	609.60B	DITCH LINER
	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10K	BARRICADES AND FLASHER SIGNS
	613.00B	PAVEMENT REPAIR
	614.10R	CURB INLETS, GRATES & BEARING PLATES
	614.30D	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
	616.10M	TRAFFIC CONTROL DEVICES (3 SHEETS) (ALSO INCLUDE 903.01)
	617.00W	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.21E	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS) (FLARED WINGS) (INCL 706.35)
	703.24E	CONCRETE BOX CULVERTS, SKEW DATA (703.30) (INCL 706.35)
	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21) (3 SHTS) (FLRD WINGS) (INCL 706.35)
	703.30F	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING (INCL 706.35)
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL 706.35)
	703.50H	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35)
	703.51G	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35)
	703.52D	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
	703.54E	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL 706.35)
	703.56E	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL 706.35)
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70D	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS) (INCL 706.35)
	703.71D	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS) (INCL 706.35)
	703.72D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS) (SQUARE) (2 SHEETS) (INCL 706.35)
	703.73D	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS) (SKEWED) (2 SHEETS) (INCL 706.35)
	703.74D	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
	706.30E	REINFORCING BAR SUPPORTS
	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	726.31C	METAL CURTAIN WALL AND METAL INLETS
	726.30C	CULVERT INSTALLATION METHODS
	731.00S	PRECAST MANHOLES (ALSO INCL 614.30)
	731.10K	PRECAST DROP INLETS (4 SHTS) (ALSO INCL 614.30 & 614.10)

✓	NO.	DESCRIPTION
	732.00L	FLARED END SECTION (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS)
	901.01U	POLES & APPURTENANCES-45' (3 SHEETS)
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (SEE NOTE)
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT METERED)
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT METERED)
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG METERED)
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
	902.00F	SIGNAL HEADS, LENSES AND MOUNTING
	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
	902.30G	CONCRETE BASES
	902.40J	TUBULAR STEEL POST
	902.50F	DETECTORS
	902.60F	SPAN WIRE DETAILS-STEEL POST
	902.70D	SPAN WIRE DETAILS-WOOD POLE
	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
	903.01C	ALPHABETS (2 SHEETS)
	903.02Y	HIGHWAY SIGNING (7 SHEETS)
	903.03AP	SIGN MOUNTING DETAILS (5 SHEETS)
	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09C	LIGHTING SUPPORT BRACKET
	903.10T	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS) (INCL 903.03)
	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS) (INCL 903.03)
	903.60S	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS) (INCL 903.03)

NOTES:
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX