

QUANTITY CALCULATIONS

BY DATE	F H W A	STATE	FED. No.
CALC. PK 2 88	REGION	OHIO	F-53(23)
CHECKED PK 2 88			

62
105

NOTE: SHEET DELETED. 61

SUM-59-8.64
SUMMIT COUNTY

ITEM 806 - 4 INCH CENTER LINES, SOLID, DOUBLE

STATION	LIN. FT.
KENT ROAD (S.R. 59)	
94+00 - 98+41	441
88+41 - 99+91 (2)	288
115+52 - 118+40	128
117+64 - 118+25	61
118+25 - 120+60 (2)	470
120+60 - 126+02	542
127+50 - 130+57	308
131+50 - 139+00	830
140+70 - 144+53	383
SUB-TOTAL	3,451 L.F.

STATION	LIN. FT.
FISHCREEK RD.	
51+05 - 51+42	37
51+42 - 52+63 (2)	242
SUB-TOTAL	279 L.F.

ITEM 806 - 4 INCH CENTER LINES, BROKEN AND SOLID, DOUBLE

STATION	LIN. FT.
KENT ROAD (S.R. 59)	
99+91 - 106+93 (2)	1,404
108+20 - 115+52 (2)	1,464
SUB-TOTAL	2,868 L.F.

ITEM 806 - 4 INCH CENTER LINES, BROKEN AND SOLID, DOUBLE

STATION	LIN. FT.
MARSH ROAD	
48+50 - 49+51	101
DAYTON ROAD	
49+20 - 49+65	45
VERNER ROAD	
49+00 - 49+59	59
DEIDRICK ROAD	
49+20 - 49+64	44
SUB-TOTAL	249
TOTAL	6,847 L.F. Or 1.30 MILES

ITEM 806 - ISLAND MARKING, YELLOW

STATION	SQ. FT.
KENT ROAD (S.R. 59)	
99+85 - 99+91	57
TOTAL	57 S.F.

ITEM 806 - 12 INCH CROSSWALK LINES

STATION	LIN. FT.
KENT ROAD (S.R. 59)	
106+97 & 107+04	134
108+09 & 108+16	134
116+44 & 116+51	116
117+53 & 117+60	116
126+06 & 126+13	106
SUB-TOTAL	606 L.F.

STATION	LIN. FT.
K-WART ENTRANCE AND EXIT	
49+53 & 49+50	190
50+33 & 50+40	80

STATION	LIN. FT.
MARSH ROAD	
49+57 & 49+64	110

STATION	LIN. FT.
FISHCREEK ROAD	
50+43 & 50+50	174

STATION	LIN. FT.
DAYTON ROAD	
49+71 & 49+78	90

STATION	LIN. FT.
VERNER ROAD	
49+65 & 49+72	120

STATION	LIN. FT.
DEIDRICK ROAD	
49+70 & 49+77	130

SUB-TOTAL	894 L.F.
TOTAL	1,500 L.F.

ITEM 806 - 24 INCH TRANSVERSE LINES, YELLOW

STATION	LIN. FT.
KENT ROAD (S.R. 59)	
98+41 - 99+85	44
115+45 - 115+92	47
118+25 - 120+60	235
SUB-TOTAL	326 L.F.

STATION	LIN. FT.
FISHCREEK ROAD	
51+42 - 52+63	121
TOTAL	447 L.F.

ITEM 806 - 24 INCH STOP LINES

STATION	LIN. FT.
KENT ROAD (S.R. 59)	
106+93	34
108+20	34
116+40	34
117+64	34
126+02	24
127+50	24
SUB-TOTAL	184 L.F.

STATION	LIN. FT.
CLICK ENTRANCE K-WART ENTRANCE AND EXIT	
49+35	45
50+45	15

STATION	LIN. FT.
MARSH ROAD	
49+53	25
50+57	15

STATION	LIN. FT.
FISHCREEK ROAD	
51+03	27

STATION	LIN. FT.
KID'S PLAY DRIVE	
49+68	12

STATION	LIN. FT.
DAYTON ROAD	
49+67	15

STATION	LIN. FT.
VERNER ROAD	
49+61	25

STATION	LIN. FT.
DEIDRICK ROAD	
49+66	25

SUB-TOTAL	226 L.F.
TOTAL	410 L.F.

ITEM 806 - 8 INCH CHANNELIZING LINES, WHITE

STATION	SIDE	LIN. FT.
KENT ROAD (S.R. 59)		
115+90 - 116+40	RT	50
117+64 - 118+14	LT	50
SUB-TOTAL		100 L.F.

STATION	SIDE	LIN. FT.
FISHCREEK ROAD		
51+05 - 51+42	LT	37
TOTAL		137 L.F.

ITEM 806 - 4 INCH LANE LINES

STATION	SIDE	LIN. FT.
KENT ROAD (S.R. 59)		
95+00 - 99+45	RT	445
99+45 - 106+93	RT & LT	1,486
108+20 - 116+40	RT & LT	1,840
117+64 - 126+02	RT & LT	1,878
127+50 - 130+58	RT & LT	818
130+58 - 131+50	LT	92
131+50 - 139+80	RT & LT	1,880
139+80 - 140+70	LT	90
140+70 - 144+53	RT & LT	768
TOTAL		8,481 L.F. or 1.61 MILES

ITEM 806 - LANE ARROWS

STATION	EACH
KENT ROAD (S.R. 59)	
100+85	1
103+83	1
112+12	1
112+20	1
116+30	1
117+77	1
SUB-TOTAL	6 EA.

STATION	EACH
FISHCREEK ROAD	
51+16	2
TOTAL	8 EA.

ITEM 806 - 4 INCH EDGE LINE, WHITE

STATION	SIDE	LIN. FT.
KENT ROAD (S.R. 59)		
94+00 & 97+90	LT	390
TOTAL		390 L.F. OR 0.07 MILES

ITEM 806 - WORD ONLY ON PAVEMENT, 72 INCH

STATION	EACH
KENT ROAD (S.R. 59)	
116+00	1
118+07	1
FISHCREEK ROAD	
51+42	1
TOTAL	3 EA.

QUANTITY CALCULATIONS

BY DATE		F. H. W. A.	STATE	FED. No.	<div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 63 </div> <div style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 105 </div>	
CALC.	RW	2-88	5	OHIO		F-53(23)
CHECKED	FK	2-88				

SUM-59-B.64
SUMMIT COUNTY

ITEM 630

Station	Offset	Side	Removal of Ground Mounted Sign and Storage (Each)	Removal of Ground Mounted Post Support And Disposal (Each)
KENT ROAD (S.R. 59)				
99+50	27'	LT	1	1
101+40	27'	LT	1	1
104+02	37'	RT	1	1
104+55	45'	LT	1	1
105+35	36'	RT	1	1
107+18	44'	LT	2	1
107+86	30'	LT	1	1
108+80	25'	RT	2	1
109+35	25'	LT	1	1
111+60	25'	RT	1	1
112+55	25'	LT	1	0
115+70	24'	RT	1	1
116+00	17'	LT	1	1
116+45	25'	RT	1	0
118+50	24'	LT	1	0
119+52	26'	LT	1	1
121+72	27'	RT	2	1
124+40	22'	LT	1	1
126+30	25'	RT	1	0
126+91	30'	RT	2	1
127+01	29'	RT	1	2
127+77	20'	LT	1	1
128+70	29'	RT	1	1
130+70	27'	RT	1	1
134+40	17'	LT	1	1
137+15	29'	RT	1	1
138+37	30'	RT	2	0
141+45	22'	LT	1	1
141+85	30'	RT	1	0
142+50	20'	LT	2	2
142+55	21'	LT	2	1
143+00	17'	LT	3	2
144+28	20'	LT	2	2
144+35	30'	RT	1	2
144+42	23'	LT	2	1
SUB-TOTAL			46	34

ITEM 630

Station	Offset	Side	Removal of Ground Mounted Sign and Storage (Each)	Removal of Ground Mounted Post Support and Disposal (Each)
MARSH ROAD				
49+42	20'	LT	2	1
49+55	16'	RT	1	1
49+83	32'	LT	2	1
FISHCREEK ROAD				
50+90	27'	LT	1	1
DAYTON ROAD				
49+24	19'	LT	1	0
49+64	22'	LT	2	1
49+72	18'	RT	1	1
VERNER ROAD				
49+59	35'	RT	1	1
49+80	22'	LT	2	1
DEIDRICK ROAD				
49+47	35'	RT	1	1
49+49	41'	RT	2	1
SUB-TOTAL			16	10
TOTAL			62	44

ITEM 630

Station	Side	Removal of Overhead Mounted Sign and Storage (Each)
KENT ROAD (S.R. 59)		
102+38	CENTER	2
117+18	CENTER	1
120+08	CENTER	1
126+74	CENTER	1
144+55	CENTER	1
TOTAL		6

TRAFFIC CONTROL SUMMARY

CALC.	BY DATE
CHECKED	FR 2-88

FED. RD. DIVISION	STATE	PROJECT	FEEI. NO.
8	OHIO	SUM-59-8.64	F-53(23)

64
105

SUM-59-8.64
SUMMIT COUNTY

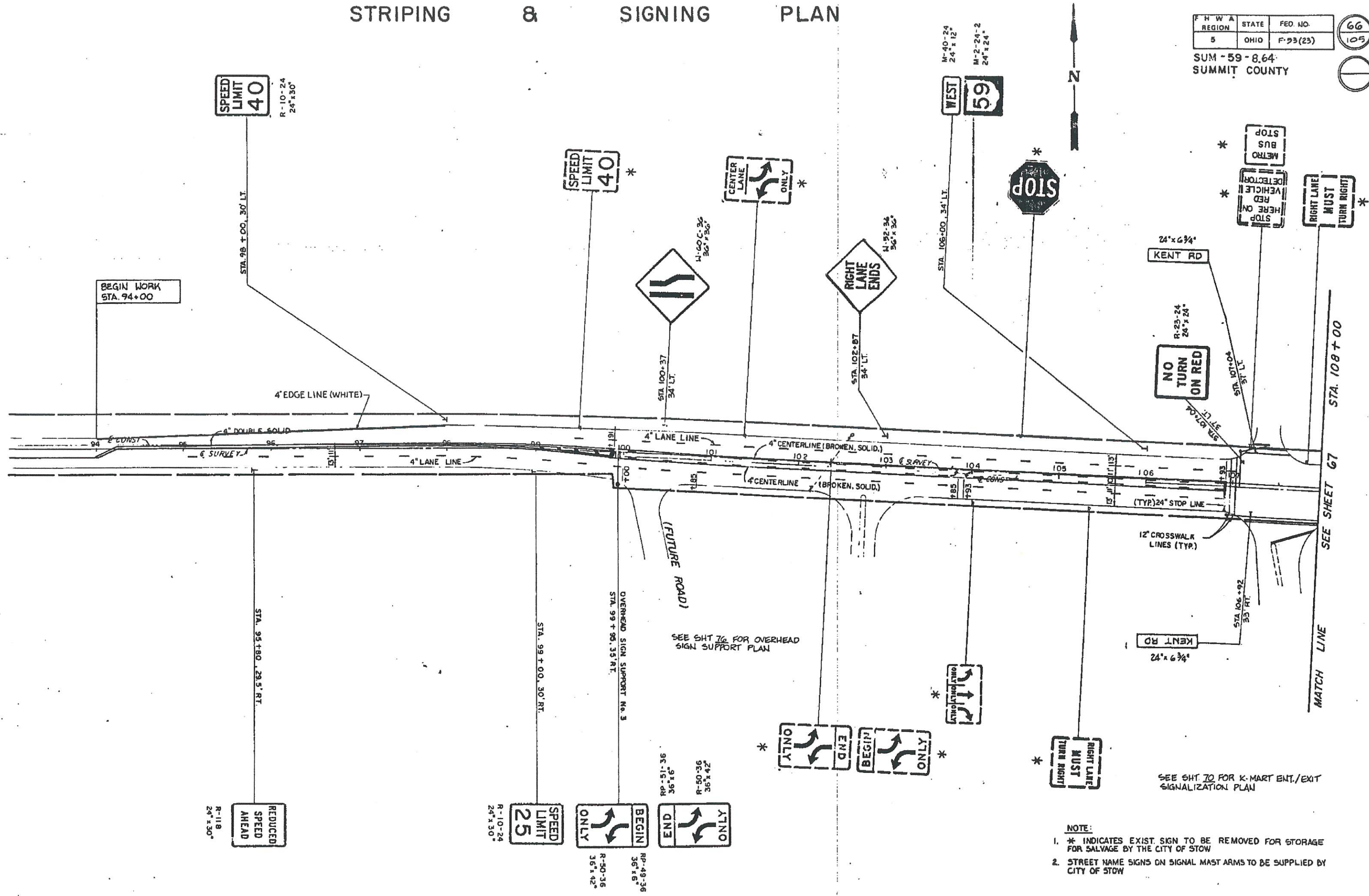
SHT. NO. 60	SHT. NO. 65	SHT. NO. 63	SHT. NO. 62	KENT RD. (S.R. 59) a	KENT RD. (S.R. 59) a	KENT RD. (S.R. 59) a K-MART DR. SHT. NO. 71	KENT RD. (S.R. 59) a MARSH RD. SHT. NO. 73	KENT RD. (S.R. 59) a FISHCREEK RD. SHT. NO. 75	ITEM	TOTAL	UNIT	DESCRIPTION
			1.30						806	1.30	MILES	CENTERLINES
			1.61						806	1.61	MILES	LANE LINES
			137						806	137	LIN. FT.	CHANNELIZING LINES
			410						806	410	LIN. FT.	STOP LINES
			1500						806	1500	LIN. FT.	CROSSWALK LINES
			57						806	57	SQ. FT.	ISLAND MARKINGS
			3						806	3	EACH	WORD, ON PAVEMENT, 72 INCHES
			8						806	8	EACH	LANE ARROWS
			0.07						806	0.07	MILES	EDGE LINES
			447						806	447	LIN. FT.	TRANSVERSE LINES
						5	4	5	625	14	EACH	PULL BOX B: 18" PLASTIC, 713.081
						2	4	4	625	10	EACH	PULL BOX 16x25 PLASTIC, 713.071
2						7	5	5	625	19	EACH	GROUND ROD
						504	426	917	625	1847	LIN. FT.	2-INCH CONDUIT, 713.07
						230	240	194	625	664	LIN. FT.	3-INCH CONDUIT, 713.07
						550	475	960	625	1925	LIN. FT.	TRENCH
						187	191	151	625	529	LIN. FT.	TRENCH IN PAVED AREAS, TYPE B
52									630	52	SQ. FT.	SIGNS, FLAT SHEET, TYPE G
160									630	160	SQ. FT.	SIGNS, FLAT SHEET
13									630	13	SQ. FT.	SIGNS ERECTED, FLAT SHEET, AS PER PLAN
8									630	8	EACH	SIGNS, DOUBLE FACED, 5' X 7' NAME
	62								630	62	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE
	44								630	44	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
	6								630	6	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND STORAGE
3.3									630	3.3	CU. YD.	CONCRETE FOR ANCHOR BASE FOUNDATIONS
32.5									630	32.5	LIN. FT.	GROUND MOUNTED SUPPORTS, NO. 3 POST
4									630	4	EACH	STREET NAME SIGN SUPPORT
2									630	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.20 DESIGN 3, 33 FT. ARM
13									630	13	EACH	SIGN HANGER ASSEMBLY, MAST ARM
30									630	30	LIN. FT.	GROUND MOUNTED SUPPORTS NO. 4 POST
7									802	7	EACH	BARRIER REFLECTOR, TYPE A
12									814	12	EACH	BARRIER REFLECTOR, TYPE B
						538	654	165	632	1357	LIN. FT.	SIGNAL CABLE, 5/C NO. 14 AWG
						4	4	8	632	16	EACH	VEHICULAR SIGNAL HEAD, 3-SECTION, 12 INCH LENS, 1-WAY, POLYCARBONATE, AS PER PLAN
						4	4	—	632	8	EACH	VEHICULAR SIGNAL HEAD, 5-SECTION, 12 INCH LENS, 1-WAY, POLYCARBONATE, AS PER PLAN
						8	8	8	632	24	EACH	COVERING OF VEHICULAR SIGNAL HEAD
						8	8	4	632	20	EACH	PEDESTRIAN SIGNAL HEAD, TYPE A2, POLYCARBONATE, AS PER PLAN
						8	8	4	632	20	EACH	PEDESTRIAN PUSHBUTTON
						1	1	1	632	3	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
						414	360	280	632	1054	LIN. FT.	LOOP DETECTOR PAVEMENT CUTTING
						5	4	4	632	13	EACH	LOOP DETECTOR AMPLIFIER
						2	2	2	632	6	EACH	LOOP DETECTOR AMPLIFIER, DELAY AND EXTENSION TYPE
						128	—	912	632	1040	LIN. FT.	SIGNAL CABLE, 5/C NO. 14 AWG
						766	814	—	632	1580	LIN. FT.	SIGNAL CABLE, 7/C NO. 14 AWG
						1400	1132	1118	632	3650	LIN. FT.	LOOP DETECTOR WIRE, TYPE E
						1246	1088	1707	632	4041	LIN. FT.	LOOP DETECTOR LEAD-IN CABLE
						55	47	34	632	136	LIN. FT.	POWER CABLE, 2/C NO. 8 AWG
						1	1	1	632	3	EACH	POWER SERVICE
						3	3	2	632	8	EACH	CABLE SUPPORT ASSEMBLY
						9.5	9.0	6.0	632	24.5	CU. YD.	CONCRETE FOR ANCHOR BASE FOUNDATIONS
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 1 W/21 FT. ARM
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 2 W/28 FT. ARM
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 2 W/30 FT. ARM
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 4 W/38 FT. ARM
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 4 POLE W/ARMS TC-81.20 DESIGN 3, 38 FT. + DESIGN 3, 33 FT.
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 4 POLE W/ARMS TC-81.20 DESIGN 2, 28 FT. + DESIGN 2, 26 FT.
									632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 11 W/43 FT. ARM
									632	1	EACH	SIGNAL SUPPORT, TYPE 12.30 DESIGN 5 POLE W/ARMS TC-81.20 DESIGN 2, 30 FT. + DESIGN 12, 46 FT.
						2	1	2	632	5	EACH	PEDESTAL, 8 FT.
									633	2	EACH	CONTROLLER, ACTUATED, 5 PHASE, SOLID STATE DIGITAL, MICROPROCESSOR, AS PER PLAN
									633	1	EACH	CONTROLLER, ACTUATED, 3 PHASE, SOLID STATE DIGITAL, MICROPROCESSOR, AS PER PLAN
						1.85	1.85	1.85	633	5.6	CU. YD.	CONCRETE FOR CABINET FOUNDATION

STRIPING & SIGNING PLAN

F H W A REGION	STATE	FED. NO.
5	OHIO	F-93(23)

66
105

SUM-59-8.64
SUMMIT COUNTY



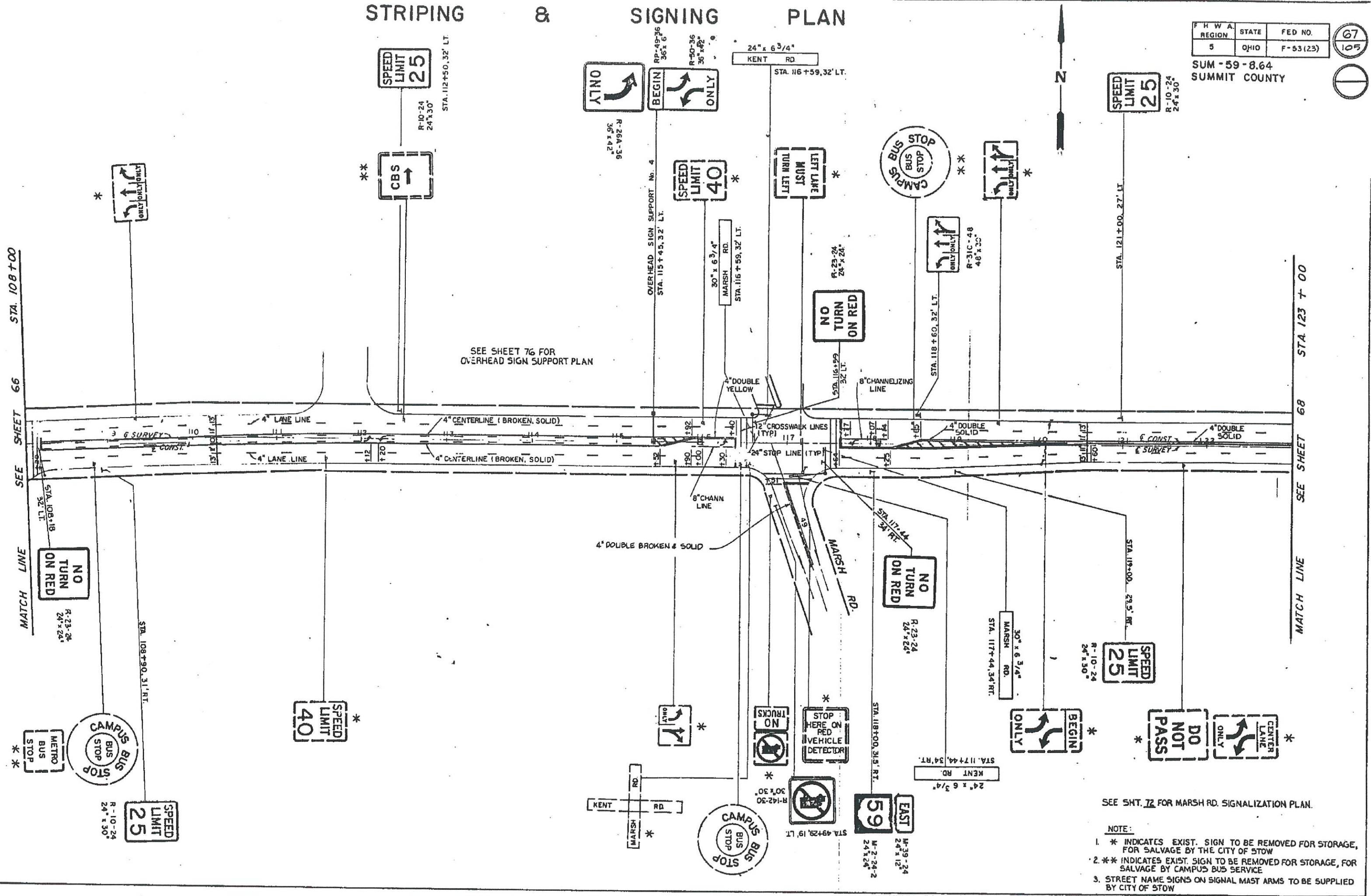
- NOTE:**
- * INDICATES EXIST. SIGN TO BE REMOVED FOR STORAGE FOR SALVAGE BY THE CITY OF STOW
 - STREET NAME SIGNS ON SIGNAL MAST ARMS TO BE SUPPLIED BY CITY OF STOW

STRIPING & SIGNING PLAN

F H W A REGION	STATE	FED NO.
5	OHIO	F-53(23)

67
105

SUM-59-8.64
SUMMIT COUNTY



SEE SHEET 76 FOR
OVERHEAD SIGN SUPPORT PLAN

SEE SHT. 72 FOR MARSH RD. SIGNALIZATION PLAN.

NOTE:

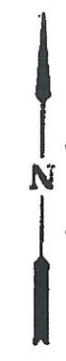
1. * INDICATES EXIST. SIGN TO BE REMOVED FOR STORAGE, FOR SALVAGE BY THE CITY OF STOW
2. ** INDICATES EXIST. SIGN TO BE REMOVED FOR STORAGE, FOR SALVAGE BY CAMPUS BUS SERVICE
3. STREET NAME SIGNS ON SIGNAL MAST ARMS TO BE SUPPLIED BY CITY OF STOW

STRIPING & SIGNING PLAN

F H W A	STATE	FED. NO
REGION	OHIO	F-53(23)

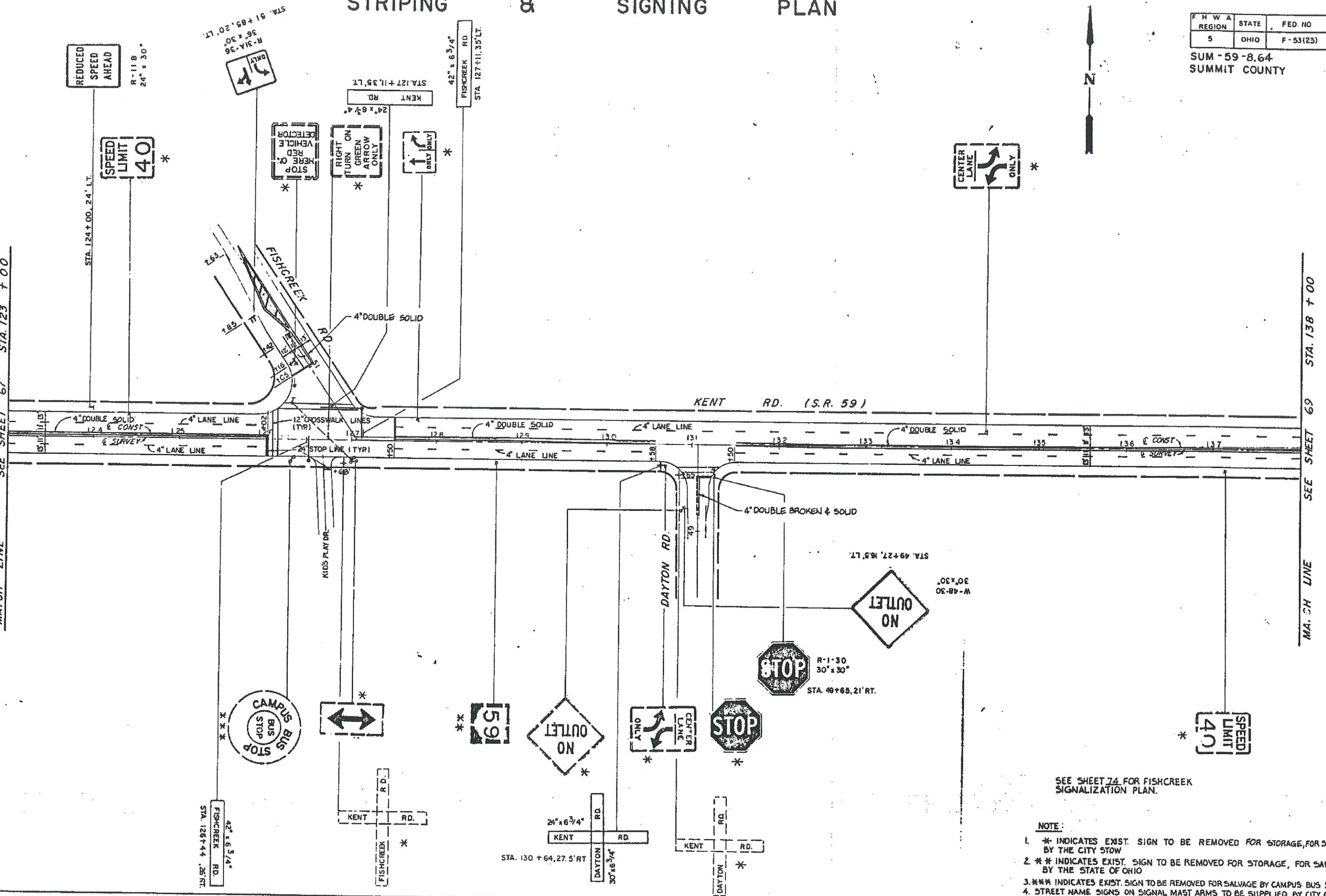
68
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SUM - 59 - 8.64
SUMMIT COUNTY



MATCH LINE SEE SHEET 67 STA. 123 + 00

MATCH LINE SEE SHEET 69 STA. 138 + 00



SEE SHEET 74 FOR FISHCREEK SIGNALIZATION PLAN.

NOTE:

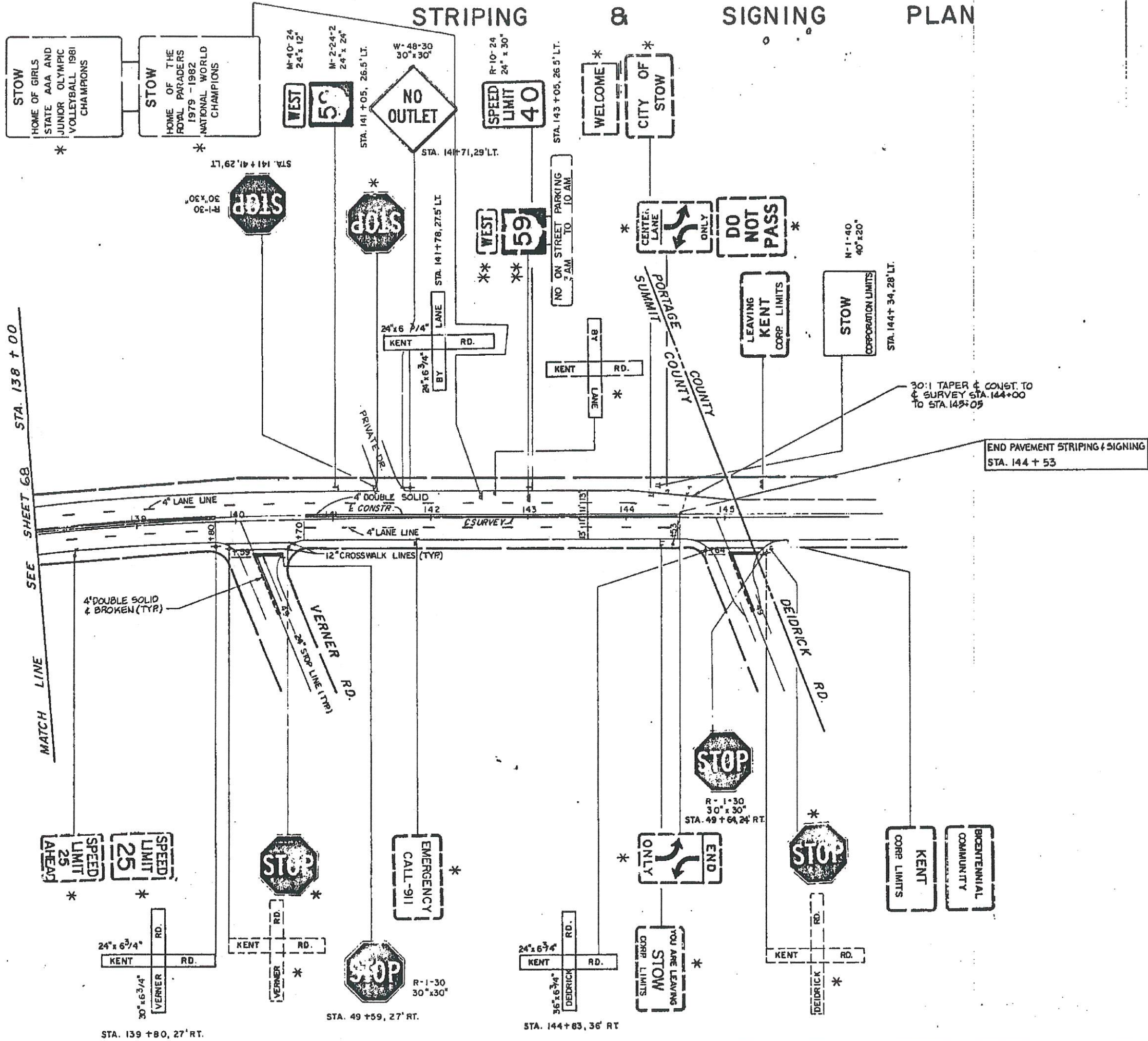
1. * INDICATES EXIST. SIGN TO BE REMOVED FOR STORAGE, FOR SALVAGE BY THE CITY STOW
2. ** INDICATES EXIST. SIGN TO BE REMOVED FOR STORAGE, FOR SALVAGE BY THE STATE OF OHIO
3. *** INDICATES EXIST. SIGN TO BE REMOVED FOR SALVAGE BY CAMPUS BUS SERVICE
4. STREET NAME SIGNS ON SIGNAL MAST ARMS TO BE SUPPLIED BY CITY OF STOW

STRIPING & SIGNING PLAN

F. H. W. A. REGION	STATE	FED. NO.
5	OHIO	F-53(23)

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SUM-59-8.64
SUMMIT COUNTY

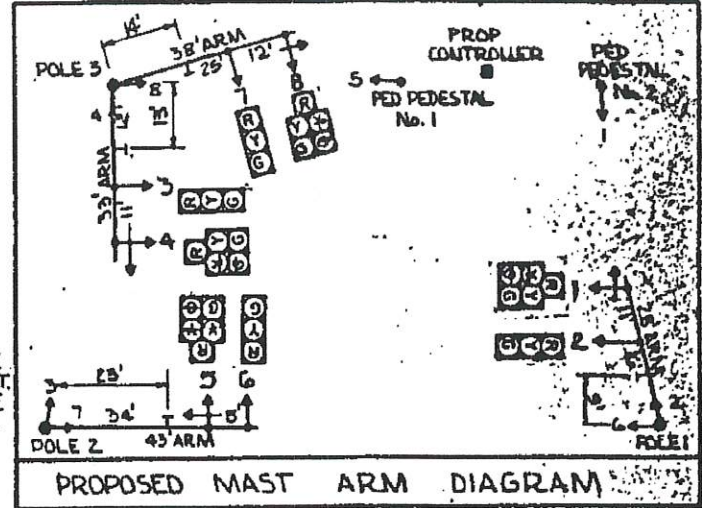
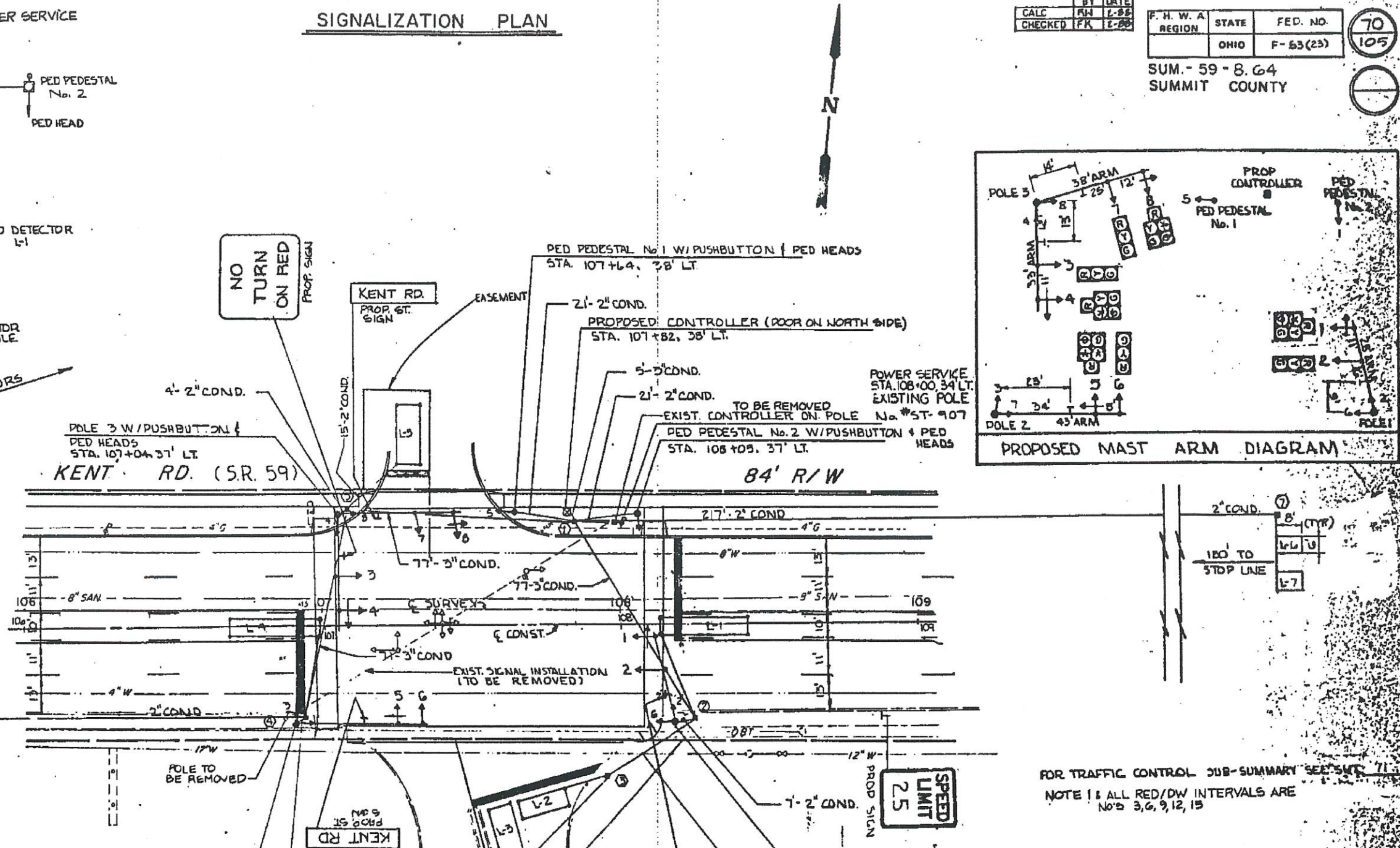
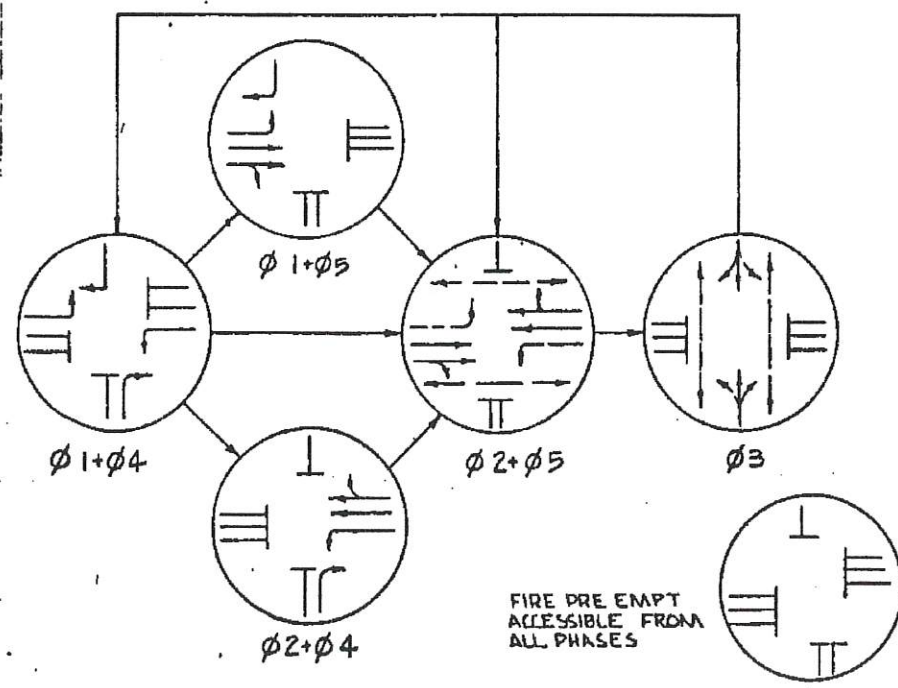
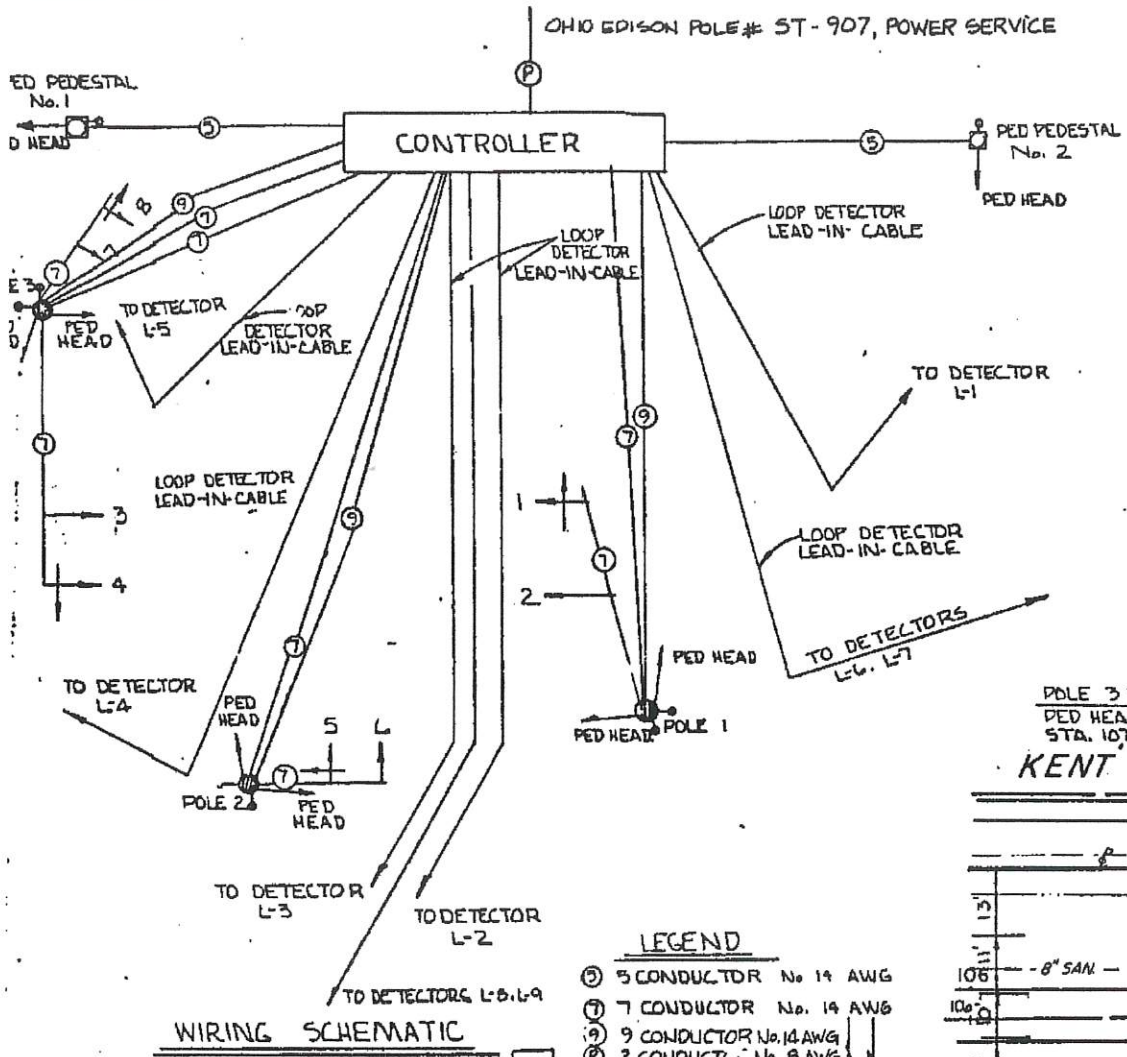


NOTE
 1. * INDICATES EXIST SIGN TO BE REMOVED FOR STORAGE FOR SALVAGE BY THE CITY OF STOW.
 2. ** INDICATES EXIST. SIGN TO BE REMOVED FOR STORAGE FOR SALVAGE BY STATE OF OHIO.

SIGNALIZATION PLAN

BY DATE: **PKH 2-88**
 CHECKED: **FK 2-88**
 F. H. W. A. REGION: **OHIO** STATE: **OHIO** FED. NO.: **F-53(23)**
 SUM. - 59 - 8. 64
 SUMMIT COUNTY

70
105



LOOP DETECTORS

No.	STATION	STREET	SIZE	No. OF TURNS OF WIRE	CONNECT TO AMPLIFIER No.	PHASE	PULSE / PRESENCE
L-1	108+12 TO 108+42	S.R. 59	6'x30'	2	1	4	PR
L-2	49+24 TO 49+30	K-MART DR.	6'x17'	2	2	3	PR
L-3	49+10 TO 49+30	K-MART DR.	8'x20'	2	3	3	PR
L-4	106+70 TO 107+00	S.R. 59	6'x30'	2	4	1	PR
L-5	50+50 TO 50+70	PRIVATE DR.	8'x20'	2	4	3	PR
L-6	109+95 TO 110+05	S.R. 59	6'x8'	3	6	2	PULSE
L-7	109+95 TO 110+05	S.R. 59	6'x8'	3	6	2	PULSE
L-8	105+07 TO 105+15	S.R. 59	6'x8'	3	7	5	PULSE
L-9	105+07 TO 105+15	S.R. 50	6'x8'	3	7	5	PULSE

* DELAY AND EXT. TYPE

COLOR SEQUENCE CHART

INDICATIONS FAULTING	FLASH	No.	1	2	4	5	7	8	10	11	13	14	15
WESTBOUND S.R. 59	Y	3	R	R	G	Y	R	R	R	R	R	R	R
EASTBOUND S.R. 59	Y	2	R	R	R	R	R	R	R	R	G	Y	R
NORTHBOUND PLAZA DR	R	7	R	R	R	R	G	Y	R	R	R	R	R
SOUTHBOUND K-MART ENTR. EXIT	R	5	R	R	R	R	G	Y	R	R	R	R	R
PED 1,2	OFF		DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN
PED 3,5	OFF		DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN
PED 3,4	OFF		DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN
PED 6,7	OFF		DN	DN	DN	DN	DN	DN	DN	DN	DN	DN	DN

NOTE 2: ALL OFFSETS ARE FROM Q CONSTRUCTION

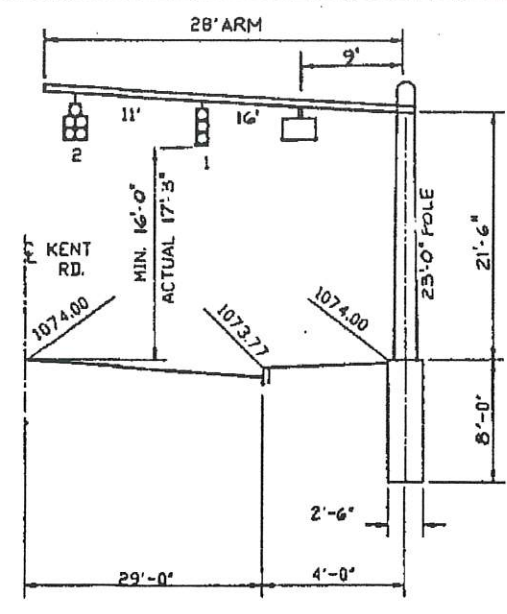
FOR TRAFFIC CONTROL SUB-SUMMARY SEE SHEET 71
 NOTE 1: ALL RED/DW INTERVALS ARE NO'S 3, 6, 9, 12, 15

SIGNAL PHASING

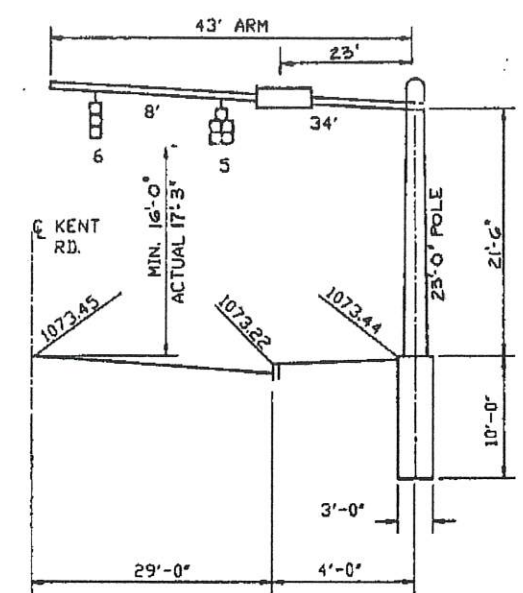
LOOP DETECTORS

SEE NOTE 1

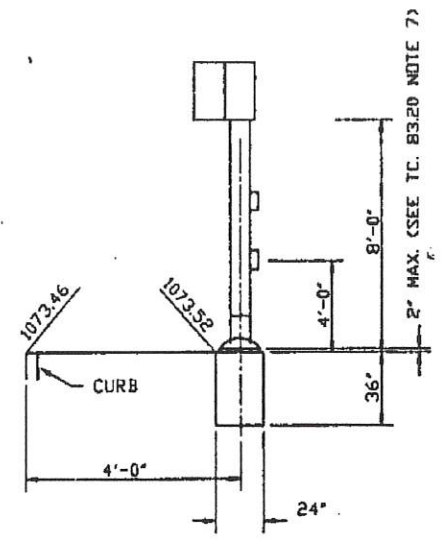
SUM-59-8.64
SUMMIT COUNTY



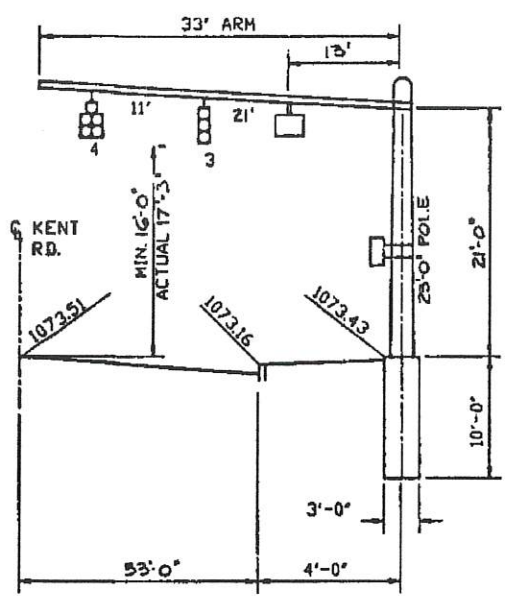
POLE 1
LOOKING EAST
STA.108+18, 32'RT. KENT RD.



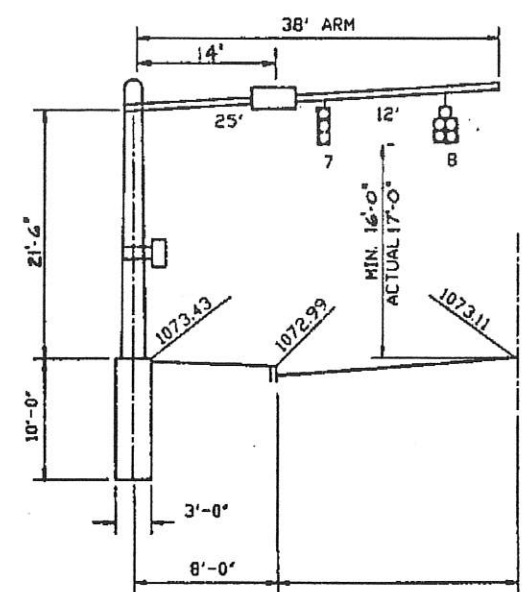
POLE 2
LOOKING SOUTH
STA.106+92, 33'RT. KENT RD.



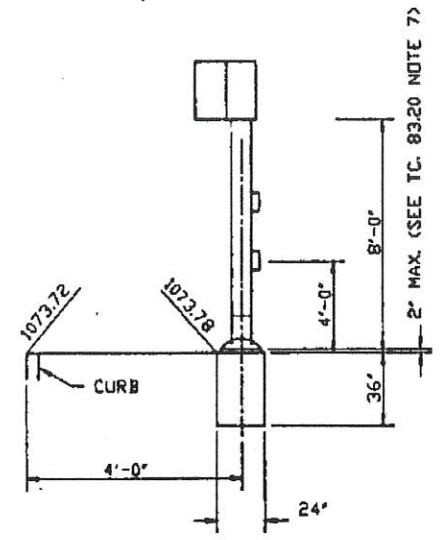
PED PEDESTAL NO.1
LOOKING WEST
STA. 107+64, 38'LT.



POLE 3
LOOKING WEST
STA.107+04, 37'LT. KENT RD.



POLE 3
LOOKING NORTH



PED PEDESTAL NO.2
LOOKING SOUTH
STA. 108+05, 37'LT.

KENT RD. (S.R. 50) AND K-MART ENT./EXIT
TRAFFIC CONTROL SUB-SUMMARY

Quantity	Unit	Item	Description
5	EACH	328	PULLBOX, PLASTIC, 11.9.001-15" X 15"
2	EACH	328	PULLBOX, PLASTIC, 11.9.001-12" X 12"
7	EACH	328	GROUND ROD
504	LIN. FT.	328	2-IN. CONDUIT, 712.07
250	LIN. FT.	328	2-IN. CONDUIT, 712.07
550	LIN. FT.	328	TRENCH
187	LIN. FT.	328	TRENCH IN PAVED AREA, TYPE-B
4	EACH	322	VEHICULAR SIGNAL HEAD, 3-SECTION, 18 IN. LENS, 1-MAY, POLYCARBONATE AS PER PLAN
4	EACH	322	VEHICULAR SIGNAL HEAD, 3-SECTION, 18 IN. LENS, 1-MAY, POLYCARBONATE AS PER PLAN
8	EACH	322	COVERING OF VEHICULAR SIGNAL HEAD
8	EACH	322	PEDESTRIAN SIGNAL HEAD, TYPE AS, POLYCARBONATE, AS PER PLAN
8	EACH	322	PEDESTRIAN PUSHBUTTON
8	EACH	322	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
414	LIN. FT.	322	LOOP DETECTOR PAVEMENT CUTTING
5	EACH	322	LOOP DETECTOR AMPLIFIER
2	EACH	322	LOOP DETECTOR AMPLIFIER, DELAY AND EXTENSION TYPE
128	LIN. FT.	322	SIGNAL CABLE, 2/C NO. 14 AWG
766	LIN. FT.	322	SIGNAL CABLE, 7/C NO. 14 AWG
538	LIN. FT.	322	SIGNAL CABLE, 2/C NO. 14 AWG
1400	LIN. FT.	322	LOOP DETECTOR WIRE, TYPE "E"
1242	LIN. FT.	322	LOOP DETECTOR LEAD-IN CABLE
22	LIN. FT.	322	POWER CABLE, 2/C NO. 8 AWG
1	EACH	322	POWER SERVICE
3	EACH	322	CABLE SUPPORT ASSEMBLY
3.2	CU. YD.	322	CONCRETE FOR ANCHOR BASE FOUNDATIONS
1	EACH	322	SIGNAL SUPPORT, TYPE K B120 DESIGN NO. 2 W/ 70 FT. ARM
1	EACH	322	SIGNAL SUPPORT, TYPE K B120 DESIGN NO. 4 POLE W/ 55 FT. ARM AND 30 FT. ARM TO B1.20
1	EACH	322	SIGNAL SUPPORT, TYPE K B120 DESIGN NO. 11 W/ 48 FT. ARM
2	EACH	322	PEDESTAL, 8 FT.
1	EACH	322	CONTROLLER, ACTUATED, 7 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN
1.85	CU. YD.	322	CONCRETE FOR CABINET FOUNDATION

KENT ROAD (S.R. 50) AND K-MART ENT./EXIT
TIME INTERVAL SCHEDULE

FEATURE	PHASE				
	1	2	3	4	5
MIN. GREEN (INITIAL)	5	10	5	5	10
UNIT EXTENSION	3	5	3	3	5
MAXIMUM GREEN	20	40	40	20	40
VEH. CLEARANCE	3	3	3	3	3
ALL RED	1	1	1	1	1
PED. INITIAL	-	10	10	-	10
PED. CLEARANCE	-	10	15	-	20
RECALL	OFF	ON	OFF	OFF	ON
NOTE: SIGNAL CHANGES IN PHASE 2/5					
MEMORY DETECTION	OFF	ON	ON	OFF	ON

KENT ROAD (S.R. 50) AND K-MART ENT./EXIT

ORIENTATION FOR NEW POLES

Pole No.	Base Plate	Signal Arm	Hand Hole	Pod Button	Pod Signal
1	345°	255°	90°	0°/90°	180°/270°
2	0°	0°	90°	90°/180°	0°/270°
3	0°	0°/90°	270°	180°/270°	0°/90°
PED 1	-	-	-	0°	180°
PED 2	-	-	-	270°	90°

NOTE: Centerline of Kent Road to East is reference of 0°.

SIGNALIZATION PLAN

FOR TRAFFIC CONTROL SUB-SUMMARY, SEE SHT. 73

BY DATE	7/2
CHECKED	FK 2-20
REGION	5
STATE	OHIO
FED NO.	F-53(23)

SUM-59-8.64
SUMMIT COUNTY

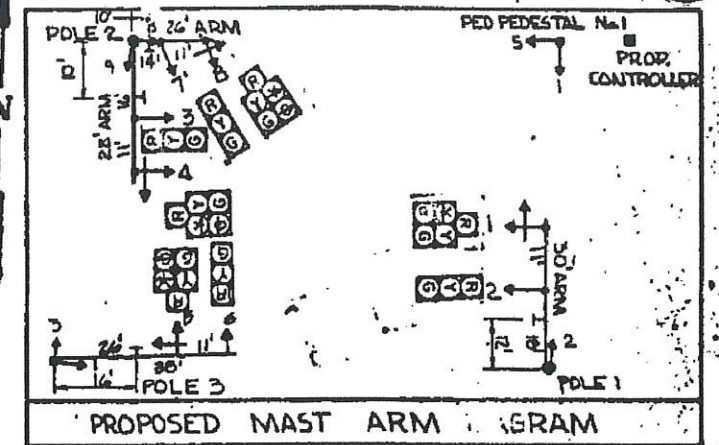
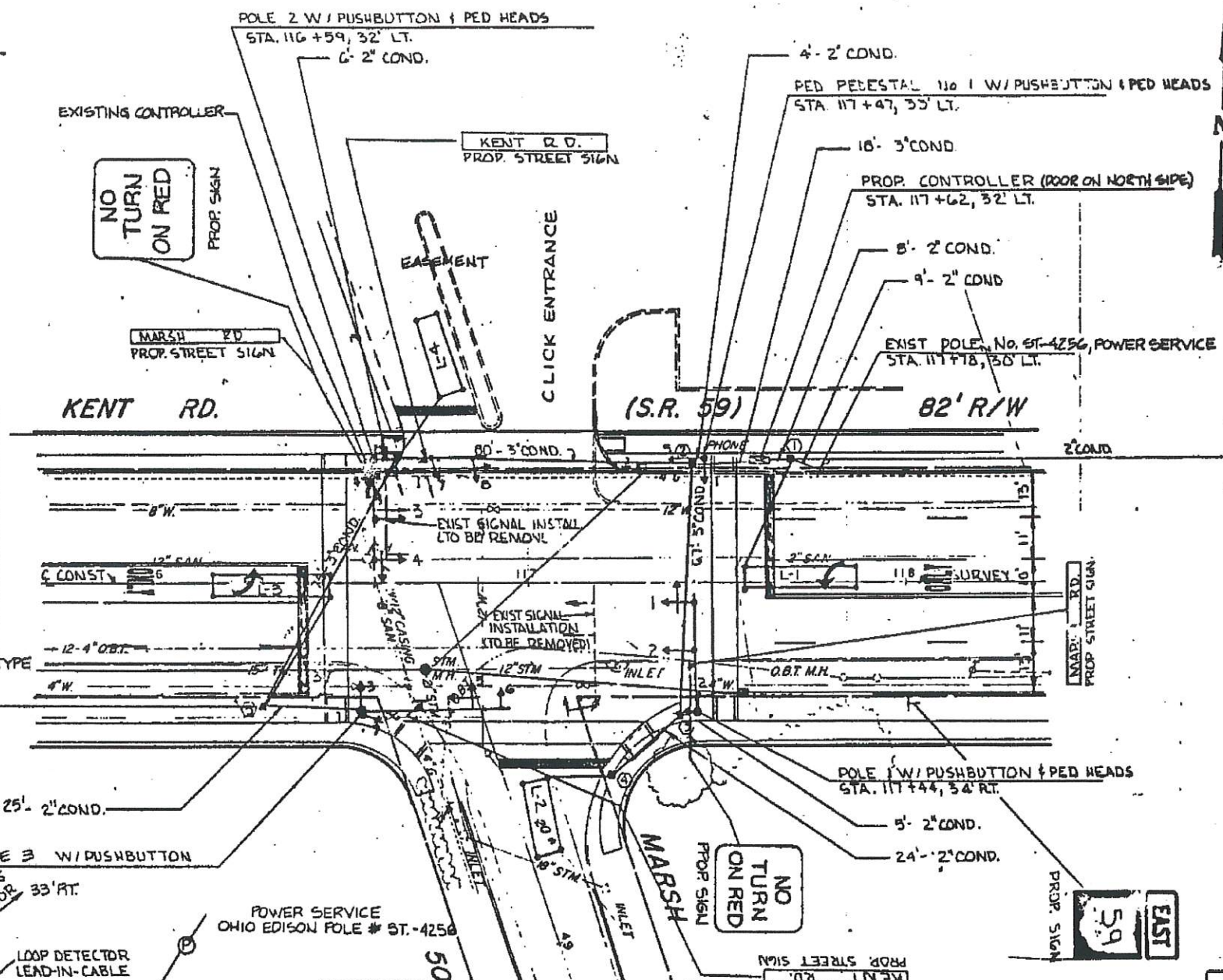
COLOR SEQUENCE CHART

INDICATIONS FACING	FLASH	No	INTERVALS														FIRE PRE-EMPT			
			1	2	4	5	7	8	10	11	13	14								
WESTBOUND S.R. 59	Y	3	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R
EASTBOUND S.R. 59	Y	1	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
NORTHBOUND CLICK ENTRANCE	R	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SOUTHBOUND MARSH RD.	R	5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED 1,2	OFF		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PED 3,4	OFF		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PED 5,6	OFF		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PED 7,8	OFF		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

NOTE 1: ALL RED/DW INTERVALS ARE No. 3, 6, 9, 12, 15

No.	STATION	STREET	SIZE	NO. OF TURNS OF WIRE	CONNECT TO AMPLIFIER No.	PHASE	PULSE / PRESENCE
L-1	117+88 TO 117+88	S.R. 59	6'x30'	2	1	4	PR
L-2	49+23 TO 49+23	MARSH	6'x20'	2	2	3	PR
L-3	111+16 TO 116+46	S.R. 59	6'x30'	2	3	1	PR
L-4	50+30 TO 50+70	CLICK ENTR.	6'x20'	2	4	3	PR
L-5	112+60 TO 112+68	S.R. 59	6'x8'	3	5	5	PULSE
L-6	112+60 TO 112+68	S.R. 59	6'x8'	3	5	5	PULSE
L-7	119+45 TO 119+45	S.R. 59	6'x8'	3	6	2	PULSE
L-8	119+45 TO 119+45	S.R. 59	6'x8'	3	6	2	PULSE

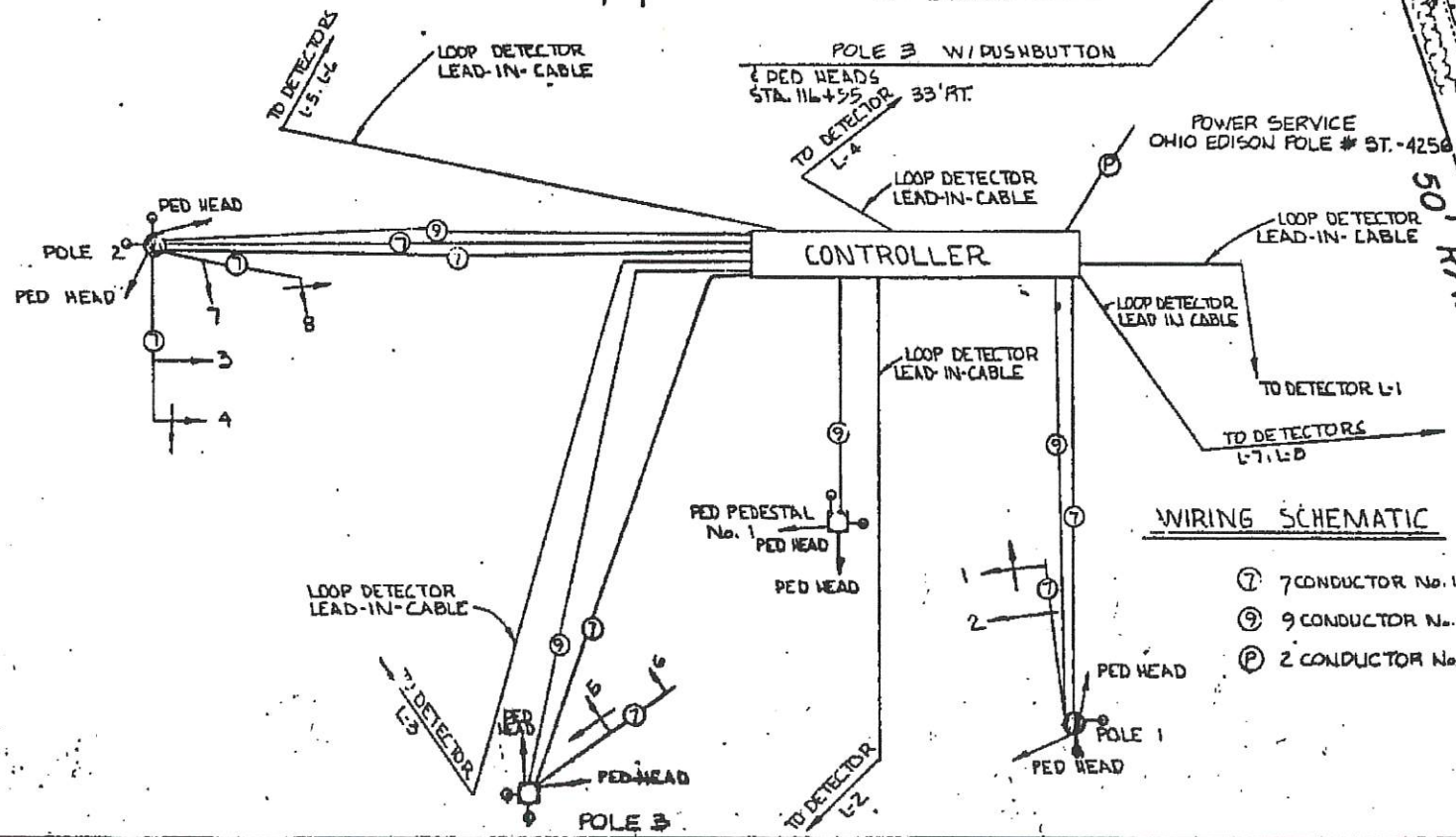
LOOP DETECTORS ** DELAY AND EXT TYPE



Note: SIGNAL HEADS No. 5 & 6 SHALL BE ADJUSTED IN THE FIELD TO FACE TRAFFIC FROM CLICK ENTRANCE

625 18" x 18" PLASTIC PULLBOXES
* 6" x 25" PLASTIC PULLBOXES

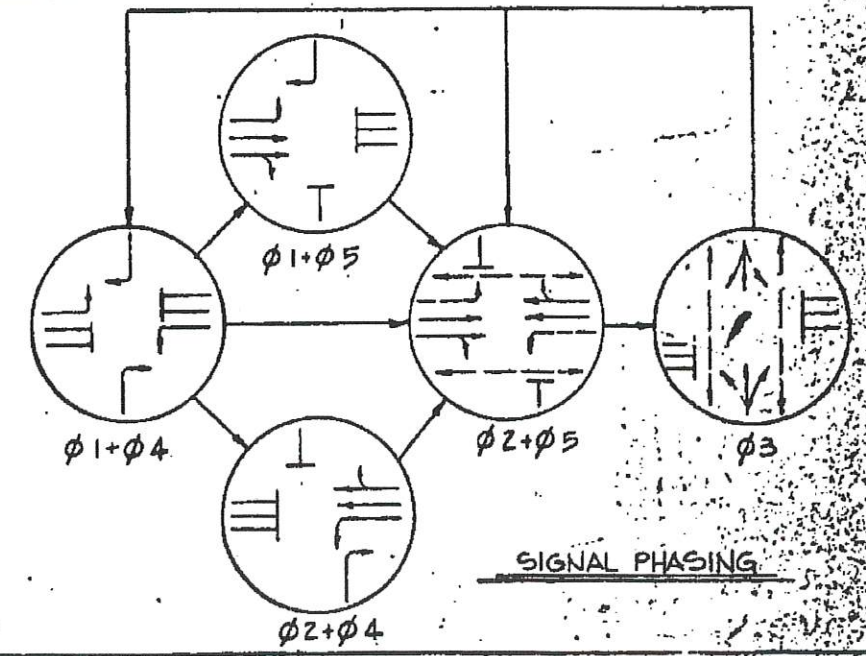
STATION	OFFSET
#1	117+71 33' LT.
#2	117+44 32' LT.
#3	117+40 30' RT.
#4	117+22 51' RT.
#5	116+29 32.5' RT.
#6	116+65 38' LT.
#7	112+65 32.5' RT.
#8	119+45 33.0' LT.



WIRING SCHEMATIC

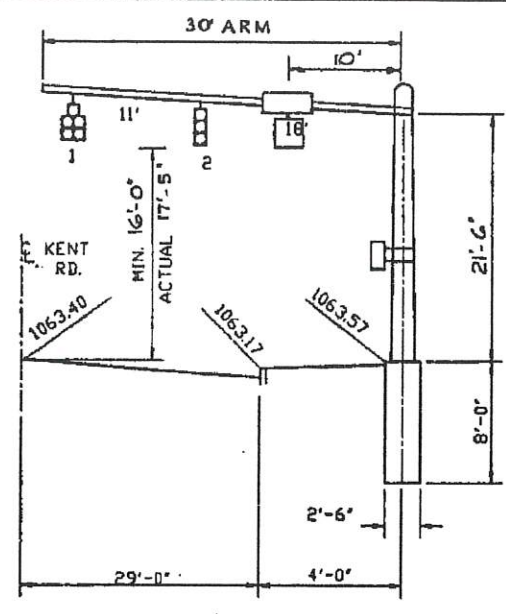
- ⑦ 7 CONDUCTOR No. 14 AWG
- ⑨ 9 CONDUCTOR No. 14 AWG
- ② 2 CONDUCTOR No. 8 AWG

FIRE PRE EMPT ACCESSIBLE FROM ALL PHASES

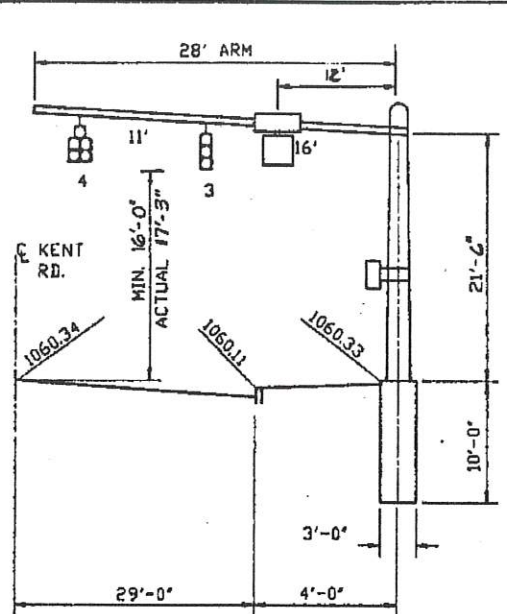


SIGNAL PHASING

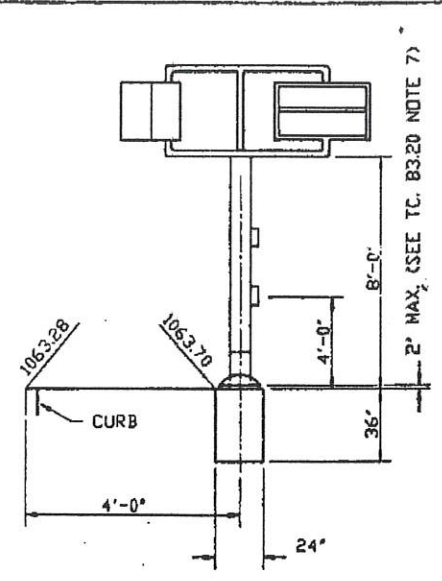
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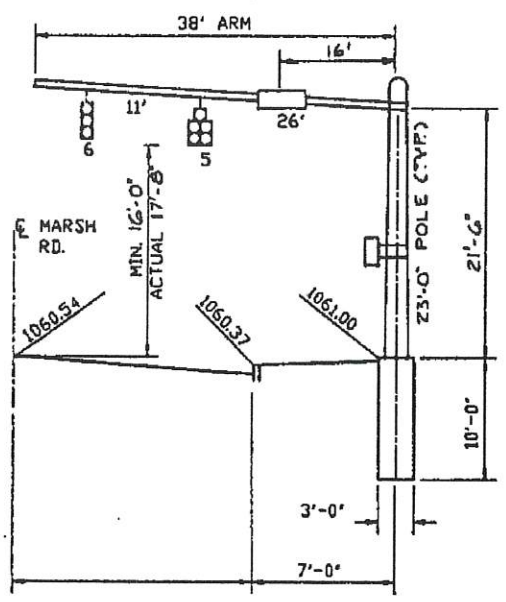
POLE 1
LOOKING EAST
STA. 117+44, 34 RT. KENT RD.



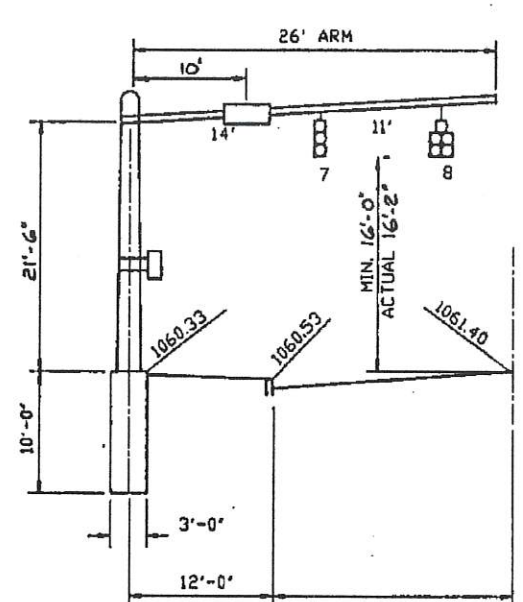
POLE 2
LOOKING WEST
STA. 116+59, 32 LT. KENT RD.



PED PEDESTAL NO. 1
LOOKING WEST
STA. 117+47, 33 LT.



POLE 3
LOOKING SOUTH
STA. 116+55, 33 RT. KENT RD.



POLE 2
LOOKING NORTH

KENT ROAD (S.R. 50) AND MARSH ROAD
ORIENTATION FOR NEW POLES

Pole No.	Base Plate	Signal Arm	Head Hais	Pod Button	Pod Signals
1	0°	270°	90°	0°/90°	180°/270°
2	0°	0°/90°	270°	180°/270°	0°/90°
3	0°	0°	90°	90°/180°	0°/270°
PED 1	-	-	-	0°/270°	90°/180°

NOTE: Centerline of Kent Road to East is reference of 0°.

KENT RD. (S.R. 50) AND MARSH ROAD
TRAFFIC CONTROL SUB-SUMMARY

Quantity	Unit	Item	Description
4	EACH	628	PULL BOX, PLASTIC, 719.081 - 15" x 18"
4	EACH	628	PULL BOX, PLASTIC, 719.081 - 12" x 22"
4	EACH	628	GROUND ROD
426	LIN. FT.	624	2-IN. CONDUIT, 719.07
840	LIN. FT.	626	2-IN. CONDUIT, 719.07
47	LIN. FT.	628	TRENCH
15	LIN. FT.	628	TRENCH IN PAVED AREA, TYPE B
4	EACH	632	VEHICULAR SIGNAL HEAD, 3-SECTION, 18 IN. LENS, 1-WAY, POLYCARBONATE, AS PER PLAN
4	EACH	632	VEHICULAR SIGNAL HEAD, 3-SECTION, 18 IN. LENS, 1-WAY, POLYCARBONATE, AS PER PLAN
8	EACH	632	COVERING OF VEHICULAR SIGNAL HEAD
8	EACH	632	PEDESTRIAN SIGNAL HEAD, TYPE AS, POLYCARBONATE, AS PER PLAN
8	EACH	632	PEDESTRIAN MOUNTING
1	EACH	632	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
460	LIN. FT.	632	LOOP DETECTOR PAVEMENT CUTTING
4	EACH	632	LOOP DETECTOR AMPLIFIER
2	EACH	632	LOOP DETECTOR AMPLIFIER, DELAY AND EXTENSION TYPE
514	LIN. FT.	632	SIGNAL CABLE, 7/G NO. 14 AWG
654	LIN. FT.	632	SIGNAL CABLE, 9/G NO. 14 AWG
1172	LIN. FT.	632	LOOP DETECTOR WIRE, TYPE E
1172	LIN. FT.	632	LOOP DETECTOR LEAD-IN CABLE
77	LIN. FT.	632	POWER CABLE, 3/G NO. 8 AWG
1	EACH	632	POWER SERVICE
3	EACH	632	CABLE SUPP. RT ASSEMBLY
3.0	CU. YD.	632	CONCRETE FOR ANCHOR BASE FOUNDATIONS
1	EACH	632	SIGNAL SUPPORT, TYPE TC. 01.20, DESIGN NO. 2, 1/2" x 30 FT. ARM
1	EACH	632	SIGNAL SUPPORT, TYPE TC. 01.20, DESIGN NO. 4, 1/2" x 12 FT. ARM AND 1/2 FT. ARM-TC. 01.20
1	EACH	632	SIGNAL SUPPORT, TYPE TC. 01.20, DESIGN NO. 4, 1/2" x 3 FT. ARM
1	EACH	632	PROXY, 8 FT.
1	EACH	632	CONTROLLER, ACTUATED, 3 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN
1.00	CU. YD.	632	CONCRETE FOR CABINET FOUNDATION

KENT ROAD (S.R. 50) AND MARSH ROAD
THE INTERNAL SCHEDULE

FEATURE	PHASE				
	1	2	3	4	5
MIN. GREEN (INITIAL)	5	20	5	5	10
UNIT EXTENSION	3	5	3	3	5
MIN GREEN	20	40	40	20	40
VEL. CLEARANCE	3	3	3	3	3
ALL RED	1	1	1	1	1
PED. INITIAL	-	10	10	-	10
PED. CLEARANCE	-	10	15	-	15
RECALL	OFF	ON	OFF	OFF	ON
NOTE: SIGNAL DELLS IN PHASE 2/5					
MEMORY DETECTION	OFF	ON	ON	OFF	ON

LOOP DETECTORS

SIGNALIZATION PLAN

FOR TRAFFIC CONTROL SUB-SUMMARY SEE SMT. 75

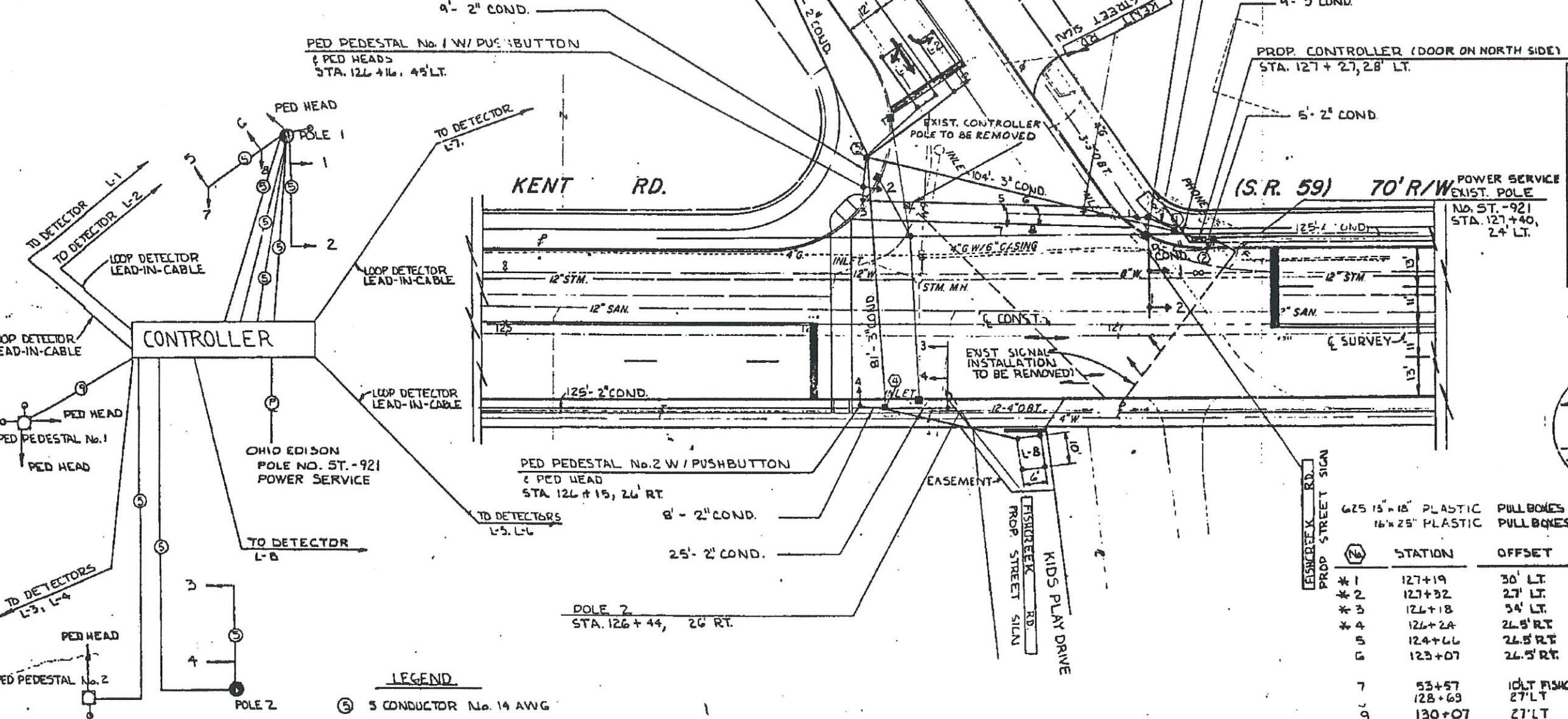
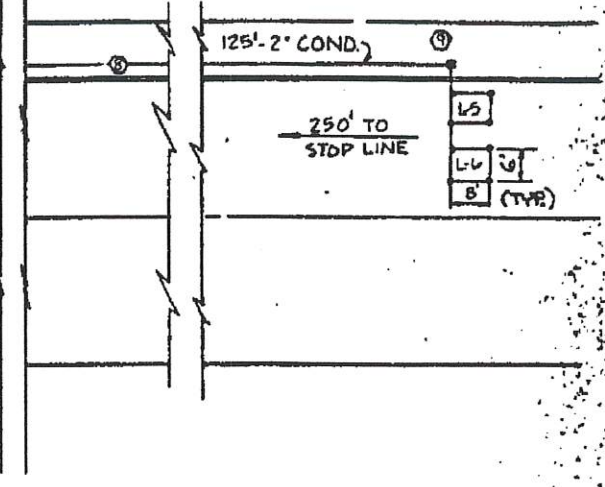
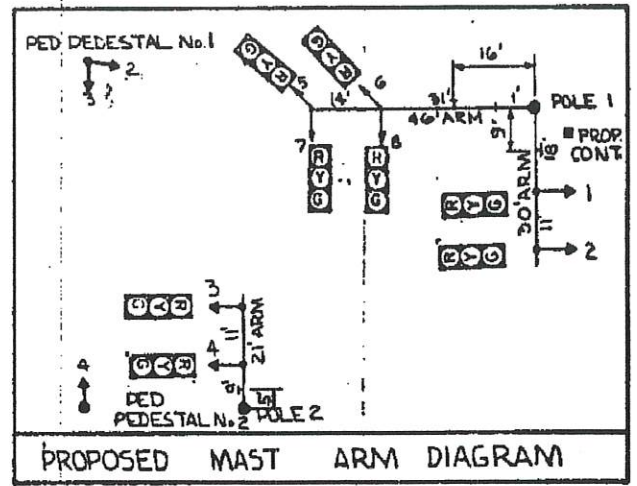
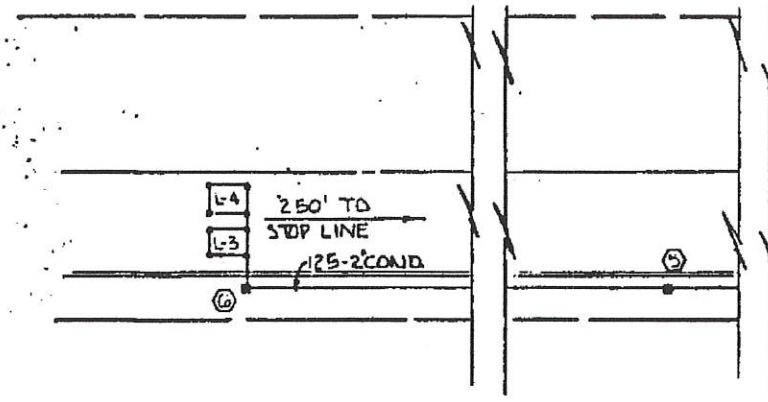
H W A REGION	STATE	FED. NO.
5.	OHIO	F-53 (23)

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No.	STATION	STREET	SIZE	No. OF TURNS OF WIRE	CONNECT TO AMPLIFIER No.	PHASE	PU SE 1 P. LENSE
L-1	51+02 TO 51+22	FISHCREEK	8'x20'	2	#1	3	DR
L-2	51+00 TO 51+20	FISHCREEK	6'x20'	2	2	3	PR
L-3	122+99 TO 123+07	S.R. 59	6'x8'	3	3	1	PULSE
L-4	122+19 TO 123+07	S.R. 59	6'x8'	3	3	1	PULSE
L-5	130+07 TO 130+15	S.R. 59	6'x8'	3	4	1	PULSE
L-6	130+07 TO 130+15	S.R. 59	6'x8'	3	4	1	PULSE
L-7	53+49 TO 53+57	S.R. 59	6'x8'	3	3	3	PULSE
L-8	49+58 TO 49+68	PR DRIVE	6'x10'	3	#5	4	PR

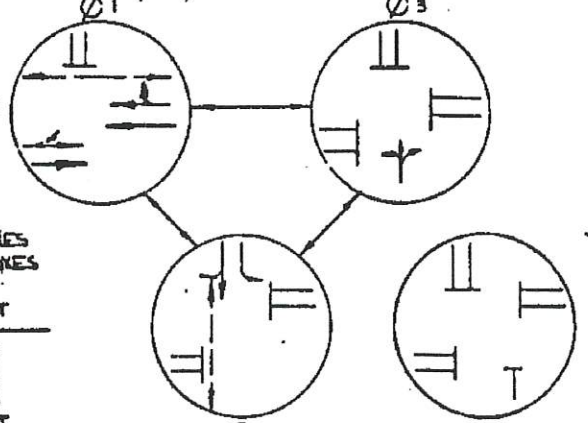
MM DELAY AND EXT. TYPE



COLOR SEQUENCE CHART

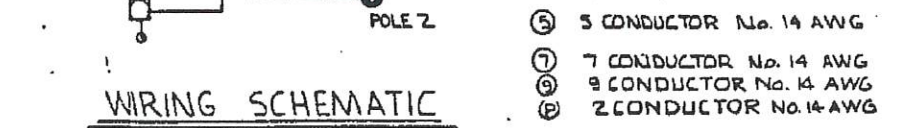
INDICATIONS FACING	FLASH	No.	INTERVALS											FIRE PRE-EMPT	
			1	2	3	5	6	7	8	9	10	11			
WESTBOUND S.R. 59	Y	1	G	G	Y	R	R	R	R	R	R	R	R	R	R
EASTBOUND S.R. 59	Y	3	G	G	Y	R	R	R	R	R	R	R	R	R	R
SOUTHBOUND FISHCREEK RD.	R	5	R	R	R	G	G	Y	R	R	R	R	R	R	R
NORTHBOUND KIDS PLAY DR	R	7	R	R	R	R	R	R	R	R	R	R	R	R	R
PED 3-4	OFF		DW	DW	DW	W	F	DW	DW	DW	DW	DW	DW	DW	DW
PED 1-2	OFF		F	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

NOTE: 1. INTERVAL NO. 4 IS ALL RED/DW



FIRE PRE-EMPT ACCESSIBLE FROM ALL PHASES

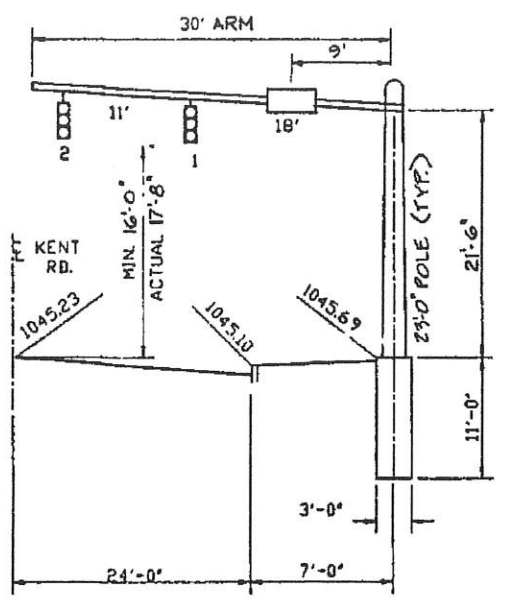
WIRING SCHEMATIC



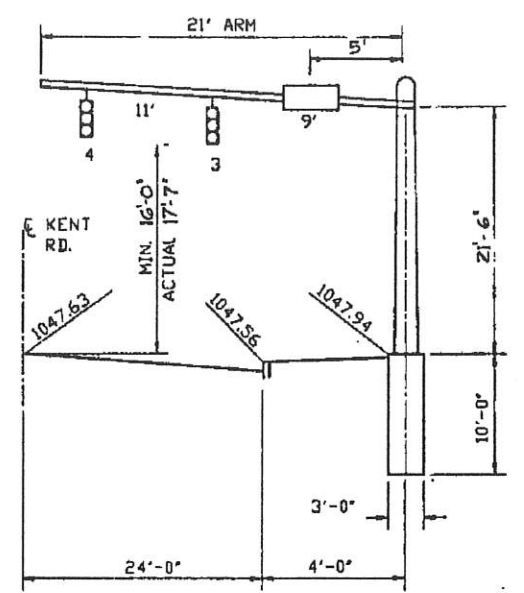
STATION	OFFSET
* 1	127+19 30' LT.
* 2	127+32 27' LT.
* 3	126+18 34' LT.
* 4	126+24 26.5' RT.
5	124+66 26.5' RT.
6	123+07 26.5' RT.
7	53+57 10' LT. FISHCREEK
8	128+63 27' LT.
9	130+07 27' LT.

NOTE 2: ALL OFFSETS ARE FROM Q CONSTRUCTION

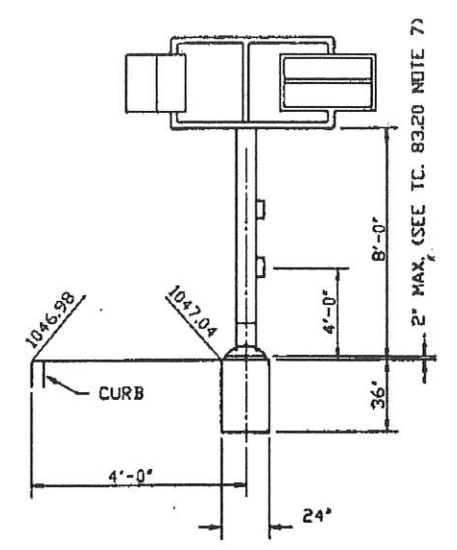
SUM-59-8.64
SUMMIT COUNTY



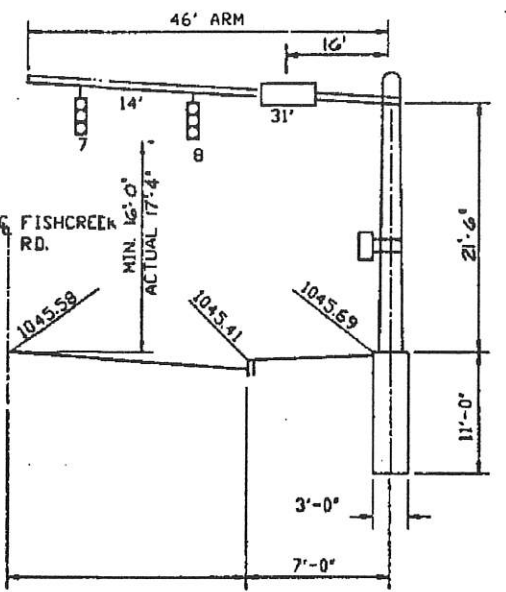
POLE 1
LOOKING WEST
STA. 127+11, 35' LT. KENT RD.



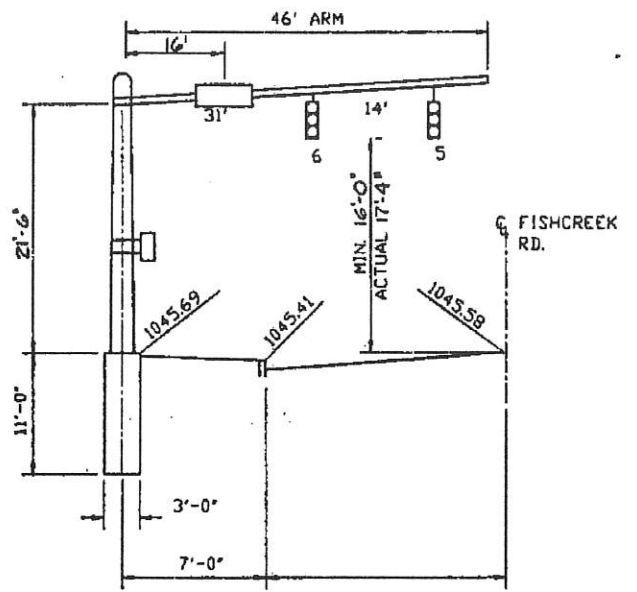
POLE 2
LOOKING EAST
STA. 126+44, 26' RT. KENT RD.



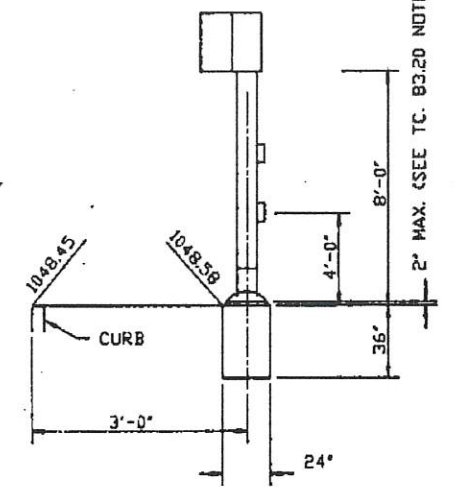
PED PEDESTAL NO. 1
LOOKING EAST
STA. 126+16, 45' LT.



POLE 1
LOOKING NORTH



POLE 1
LOOKING SOUTH



PED PEDESTAL NO. 2
LOOKING EAST
STA. 126+15, 26' RT.

KENT ROAD (S.R. 50) AND FISHER CREEK RD.

ORIENTATION FOR NEW POLES

Pole No.	Base Plate	Signal Arm	Hand Side	Ped Button	Pod Signals
1	0°	90°/180°	270°	0°	180°
2	0°	270°	90°	-	-
PED 1	-	-	-	180°/270°	0/90°
PED 2	-	-	-	90°	270°

NOTE: Centerline of Kent Road to East is reference of 0°.

KENT RD (S.R. 50) AND FISHER CREEK ROAD.
TRAFFIC CONTROL SUB-SUMMARY

Quantity	Unit	Item	Description
5	EACH	828	PULLBOX, PLASTIC, 718.881 - 15" x 10"
4	EACH	828	PULLBOX, PLASTIC, 718.881 - 16" x 9"
5	EACH	828	GROUND ROD
917	LIN. FT.	828	2-IN. CONDUIT, 718.87
194	LIN. FT.	718	2-IN. CONDUIT, 718.87
920	LIN. FT.	718	TRENCH
121	LIN. FT.	828	TRENCH IN PAVED AREA, TYPE B
8	EACH	832	VEHICULAR SIGNAL HEAD, 8-SECTION, 12 IN. LENS, 1-WAY, POLYCARBONATE AS PER PLAN
-	EACH	832	VEHICULAR SIGNAL HEAD, 8-SECTION, 12 IN. LENS, 1-WAY, POLYCARBONATE AS PER PLAN
6	EACH	832	COVERING OF VEHICULAR SIGNAL HEAD
4	EACH	832	PEDESTRIAN SIGNAL HEAD, TYPE AB, POLYCARBONATE, AS PER PLAN
4	EACH	832	PEDESTRIAN PUSHBUTTON
-	EACH	832	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
200	LIN. FT.	832	LOOP DETECTOR PAVEMENT CUTTING
4	EACH	832	LOOP DETECTOR AMPLIFIER
2	EACH	832	LOOP DETECTOR AMPLIFIER DELAY AND EXTENSION TYPE
912	LIN. FT.	832	SIGNAL CABLE, 5/C NO. 14 AWG
-	LIN. FT.	832	SIGNAL CABLE, 7/C NO. 14 AWG
129	LIN. FT.	832	SIGNAL CABLE, 9/C NO. 14 AWG
1118	LIN. FT.	832	LOOP DETECTOR WIRE, TYPE E
1707	LIN. FT.	832	LOOP DETECTOR LEAD-IN CABLE
34	LIN. FT.	832	POWER CABLE, 2/C NO. 8 AWG
1	EACH	832	POWER SERVICE
1	EACH	832	CABLE SUPPORT ASSEMBLY
60	CU. YD.	832	CONCRETE FOR ANCHOR BASE FOUNDATIONS
1	EACH	838	SIGNAL SUPPORT, TYPE TC B.20, DESIGN NO. 1 W/ 21 FT. ARM
1	EACH	838	SIGNAL SUPPORT, TYPE TC B.20, DESIGN NO. 5 POLE W/ 50 FT. ARM AND 40 FT. ARM - TC B.20
-	EACH	838	SIGNAL SUPPORT, TYPE TC B.20 DESIGN NO. 1 W/ 21 FT. ARM
2	EACH	832	PEDESTAL, 8 FT.
1	EACH	838	CONTROLLER, ACTUATED, 5 PHASE SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN
185	CU. YD.	838	CONCRETE FOR CABINET FOUNDATION

KENT ROAD (S.R. 50) AND FISHER CREEK ROAD.

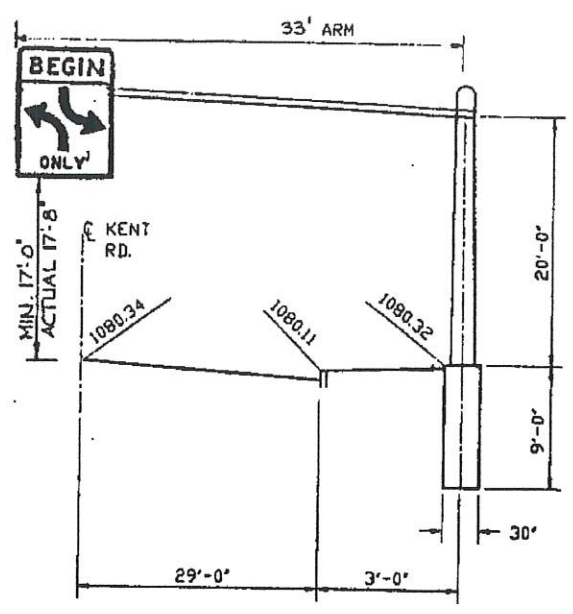
TIME INTERVAL SCHEDULE

FEATURE	PHASE		
	1	2	3
MIN. GREEN (INITIAL)	15	10	8
UNIT EXTENSION	5	5	3
MAXIMUM GREEN	40	30	20
MIN. CLEARANCE	4	3	3
ALL RED	1	1	1
PED. INITIAL	10	10	-
PED. CLEARANCE	20	15	-
RECALL	ON	OFF	OFF
NOTE: SIGNAL DIMLS IN PHASE 1			
MEMORY DETECTION	OFF	ON	ON

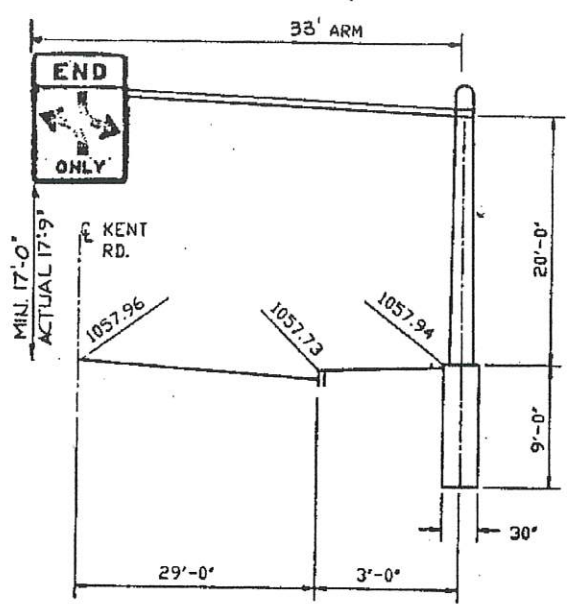
FHWA REGION	STATE	REGION	FED No.
5	OHIO		F-53(23)

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SUMMIT COUNTY



POLE W/ LANE CONTROL SIGN
LOOKING WEST
STA.100+00, 32'LT. KENT RD.



POLE W/ LANE CONTROL SIGN
LOOKING WEST
STA.115+50, 32'LT. KENT RD.