

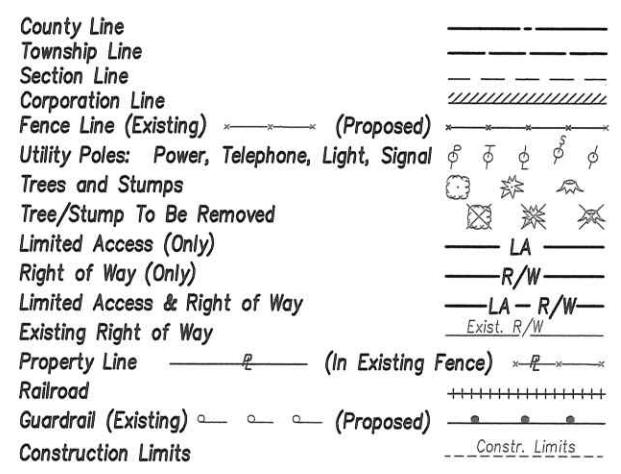
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Jul 12, 2001 - 10:12:24

SCOTT STREET (S.R. 108) AND HERITAGE TOWNE CENTER SIGNALIZATION PLANS

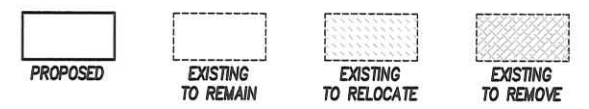
CITY OF NAPOLEON HENRY COUNTY, OHIO

CONVENTIONAL SIGNS



TRAFFIC CONTROL

SIGNS



SIGN SUPPORTS

SINGLE POST
DOUBLE POST

EXISTING



NEW



SIGNAL PLANS

VEHICULAR SIGNAL HEADS
PEDESTRIAN SIGNAL HEADS
CONDUIT
PULLBOX, CONCRETE, 18" & 24"
CONTROLLER
LOOP DETECTORS

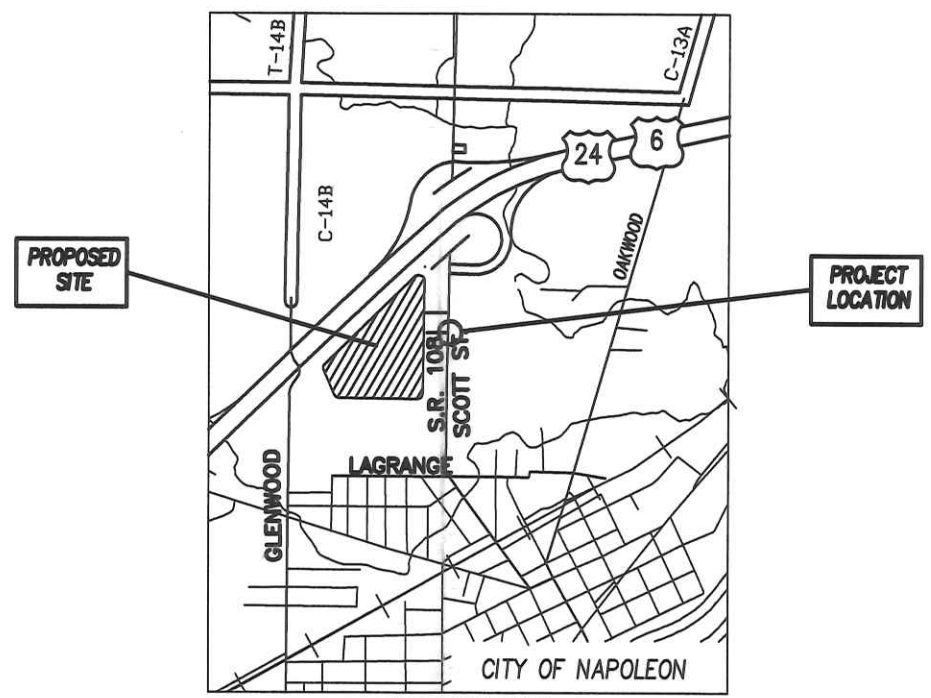


PROJECT DESCRIPTION

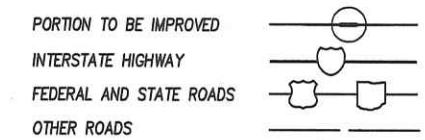
TRAFFIC SIGNAL INSTALLATION AND TRAFFIC CONTROL
IMPROVEMENTS AT SCOTT STREET (S.R. 108)
AND HERITAGE TOWNE CENTER.

INDEX OF SHEETS

SIGNALIZATION TITLE SHEET	1
SIGNALIZATION GENERAL NOTES	2
SIGNALIZATION GENERAL SUMMARY	3
PAVEMENT MARKING & SIGNING PLAN	4
SIGNALIZATION PLANS	5
SIGNALIZATION DETAILS	6



LOCATION MAP



PLAN SIGNATURES

APPROVED _____
DATE _____ CITY OF NAPOLEON, CITY ENGINEER

APPROVED _____
DATE _____ CITY OF NAPOLEON, MAYOR

ENGINEERS SEAL

SIGNED: _____
DATE: _____

PLAN PREPARED BY
DANSARD-GROHNKE-LONG, Limited
110 Arco Drive Toledo, Ohio 43607
(419) 535-1015

CONSTRUCTION ISSUE
JULY 12, 2001

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

FEDERAL PROJECT NO.

FD NO.

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

SCOTT STREET (S.R. 108) AND
HERITAGE TOWNE CENTER

ITEM CODE	10+45, RT. (SIGNAL SUPT. NO.1)	10+45, RT. (SIGNAL) TO 10+35, RT. (PULLBOX)	10+35, RT. (PULLBOX) TO 9+62, RT. (PULLBOX)	9+55, RT. (SIGNAL SUPT. NO. 2)	9+55, RT. (SIGNAL) TO 9+2, RT. (PULLBOX)	9+62, RT. (PULLBOX) TO 9+62, LT. (PULLBOX)	9+57, LT. (SIGNAL SUPT. NO. 3)	9+57, LT. (SIGNAL) TO 9+62, LT. (PULLBOX)	10+50, LT. (PEDESTAL)	10+50, LT. (PEDESTAL) TO 10+44, LT. (PULLBOX)	10+44, LT. (PULLBOX) TO 9+62, LT. (PULLBOX)	9+62, LT. (PULLBOX) TO 9+68, LT. (CONTROLLER)	9+67, RT.	FROM PAVEMENT MARKING PLAN, SHEET 4	FROM GENERAL NOTES, SHEET 2	FROM CBM SPECS.	ITEM CODE	TOTAL QUANTITY	UNIT	DESCRIPTION
603													49		100		603	100	LIN. FT.	CONDUIT, 4", TYPE E
608													1		100		608	49	SQ. FT.	4" CONCRETE WALK
608															100		608	1	EACH	CURB RAMP, TYPE 2
614																				
623															LUMP		614	LUMP		MAINTAINING TRAFFIC
624															LUMP		623	LUMP		CONSTRUCTION LAYOUT STAKING
624															LUMP		624	LUMP		MOBILIZATION
625	16			10			6			6					25		625	63	LIN. FT.	CONDUIT, 2" 713.07
625															25		625	25	LIN. FT.	CONDUIT, 3" 713.04
625		73									82				25		625	180	LIN. FT.	CONDUIT, 3" 713.07
625												10			25		625	35	LIN. FT.	CONDUIT, 4" 713.07
625															25		625	109	LIN. FT.	CONDUIT, 3" 713.04 JACKED OR DRILLED, AS PER PLAN
625	16	73		10			6			6	82	10			25		625	228	LIN. FT.	TRENCH
625	1	1		1			1			1		1			1		625	5	EACH	PULLBOX, 24"
625																	625	5	EACH	GROUND ROD
630																	630	32	SQ. FT.	SIGN, FLAT SHEET, TYPE G
630																	630	108	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 2 POST
630																	630	26	LIN. FT.	GROUND MOUNTED SUPPORT, NO. 3 POST
630																	630	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
630																	630	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
632	1			2			1										632	4	EACH	VEHICULAR SIGNAL HEAD, 3 SECTION 12" LENS, 1-WAY, AS PER PLAN
632	1						1										632	2	EACH	VEHICULAR SIGNAL HEAD, 5 SECTION 12" LENS, 1-WAY, AS PER PLAN
632				1			2	1									632	4	EACH	PEDESTRIAN SIGNAL HEAD, TYPE A2
632	2			2			2										632	6	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632				1			2	1									632	4	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632				1			2	1									632	4	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632																	632	3	EACH	DETECTOR LOOP
632																	632	3	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632				14	17	89	28	26	14		13	87	84				632	372	LIN. FT.	SIGNAL CABLE, 2 CONDUCTOR, NO. 12 AWG, AS PER PLAN
632	22			40	17	89	36	26	18		13	87	84				632	432	LIN. FT.	SIGNAL CABLE, 5 CONDUCTOR, NO. 12 AWG, AS PER PLAN
632	68	23	78	83	17	178	70	13					63				632	593	LIN. FT.	SIGNAL CABLE, 7 CONDUCTOR, NO. 12 AWG, AS PER PLAN
632	1			1			1										632	3	EACH	SIGNAL SUPPORT FOUNDATION
632												1					632	1	EACH	PEDESTAL FOUNDATION
632						5						10	63				632	78	LIN. FT.	LOOP DETECTOR LEAD-IN- CABLE
632							38	13					21				632	72	LIN. FT.	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
632							1										632	1	EACH	POWER SERVICE, AS PER PLAN
632	1						1										632	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.20 DESIGN 4, 38' ARM
632				1													632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.20 DESIGN 11, 45' ARM
632																	632	1	EACH	PEDESTAL, 8', W/TRANSFORMER BASE
633												1					633	1	EACH	CONTROLLER, AS PER PLAN
633												1.85					633	1.85	CU. YD.	CONCRETE FOR CONTROLLER FOUNDATION
633												10.4					633	10.4	SQ. FT.	CONTROLLER WORK ROD
642																	642	0.024	MILE	EDGE LINE, TYPE 1
642																	642	0.059	MILE	CENTER LINE, TYPE 1
642																	642	320	LIN. FT.	CHANNELIZING LINE, TYPE 1
642																	642	51	LIN. FT.	STOP LINE, TYPE 1
642																	642	103	LIN. FT.	CROSSWALK LINE, TYPE 1
642																	642	180	LIN. FT.	TRANSVERSE LINE, TYPE 1
642																	642	4	EACH	LANE ARROW, TYPE 1
642																	642	2	EACH	WORD ON PAVEMENT, 72 INCH, TYPE 1

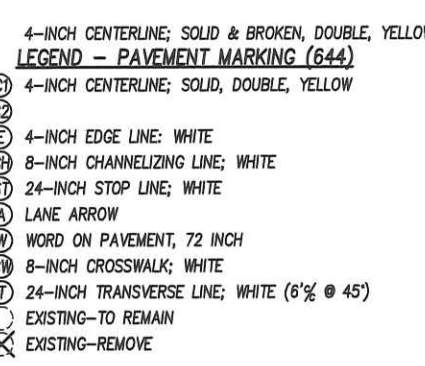
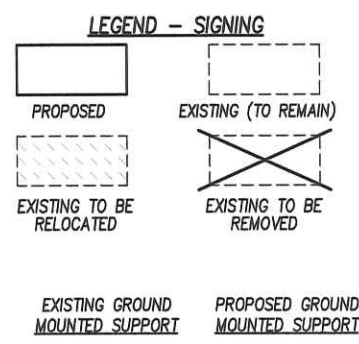
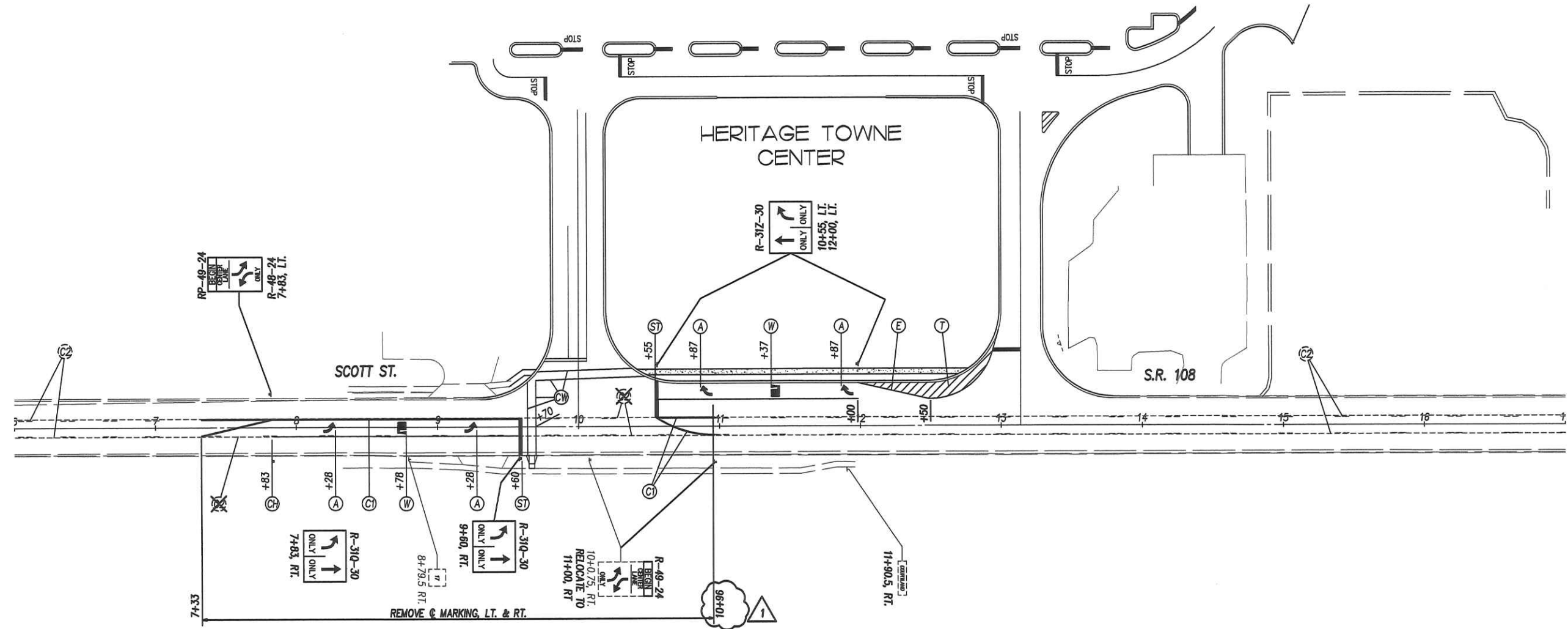
1 CONSTRUCTION ISSUE
JULY 12, 2001

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CHECKED
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SIGNALIZATION SUBSUMMARIES AND GENERAL SUMMARY

SCOTT STREET (S.R. 108) AND
HERITAGE TOWNE CENTER

3
9



SIGNING SUBSUMMARY

STATION		SIDE	CODE	SIZE W x H (inches)	SIGN, FLAT SHEET, TYPE G	630		REMOVAL OF			
FROM	LOCATE AT OR RELOCATE TO					GROUND MOUNTED SUPPORT		GROUND MOUNTED SIGN AND REECTION	GROUND MOUNTED POST SUPPORT AND DISPOSAL		
						NO. 2 POST	NO. 3 POST			NO. 2 POST	NO. 3 POST
				SQ. FT.	LIN. FT.		EACH				
SCOTT ST. (S.R. 108)											
7+33	7+83	LT.	RP-49-24	24 x 6	1		13.0				
	7+83	RT.	R-48-24	24 x 30	5						
	7+83	RT.	R-31Q-30	30 x 30	6.25	13.5,13.5					
	9+60	RT.	R-31Q-30	30 x 30	6.25	13.5,13.5					
10+07.5	11+00	RT.	RP-49-24	24 x 6	1		13.0	1	1		
	10+55	LT.	R-31Z-30	30 x 30	6.25	13.5,13.5					
	12+00	LT.	R-31Z-30	30 x 30	6.25	13.5,13.5					
TOTALS CARRIED TO GENERAL SUMMARY					32	108	26	1	1		

PAVEMENT MARKING SUBSUMMARY

STATION		SIDE	REMOVAL OF PAVEMENT MARKINGS *	642								
FROM	TO			LIN. FT.	4 INCH EDGE LINE (WHITE)	4 INCH CENTER LINE SOLID, DOUBLE (YELLOW)	8 INCH CHANNELIZING LINE (WHITE)	24 INCH STOP LINE	12 INCH CROSSWALK LINE (WHITE)	24 INCH TRANSVERSE LINE (WHITE)	LANE ARROW	72 INCH WORD "ONLY" ON PAVEMENT
SCOTT ST. (SR 108)												
7+33	10+96	LT & RT	726									
7+83	9+58	LT & RT		225	175							
	8+28	©							1	1		
	8+78	©							1	1		
	9+28	©							1	1		
	9+60	LT & RT				26						
9+64	9+70	LT & RT					103					
	10+55	LT & RT				25						
10+55	12+00	LT										
	10+87	LT							1			
	11+37	LT								1		
	11+87	LT								1		
12+00	13+00	LT	126					180				
TOTALS CARRIED TO GENERAL SUMMARY			-	126	310	320	51	103	180	4	2	

CONSTRUCTION ISSUE
JULY 12, 2001

(A) 126/5280 = 0.024 MILES (B) 310/5280 = 0.059 MILES

SCOTT ST. (S.R. 108) AND HERITAGE TOWNE CENTER

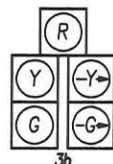
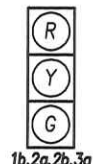
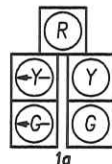
PAVEMENT MARKING & SIGNING PLAN & SUBSUMMARIES

CALCULATED: MAT, CHECKED: LLA

4/6

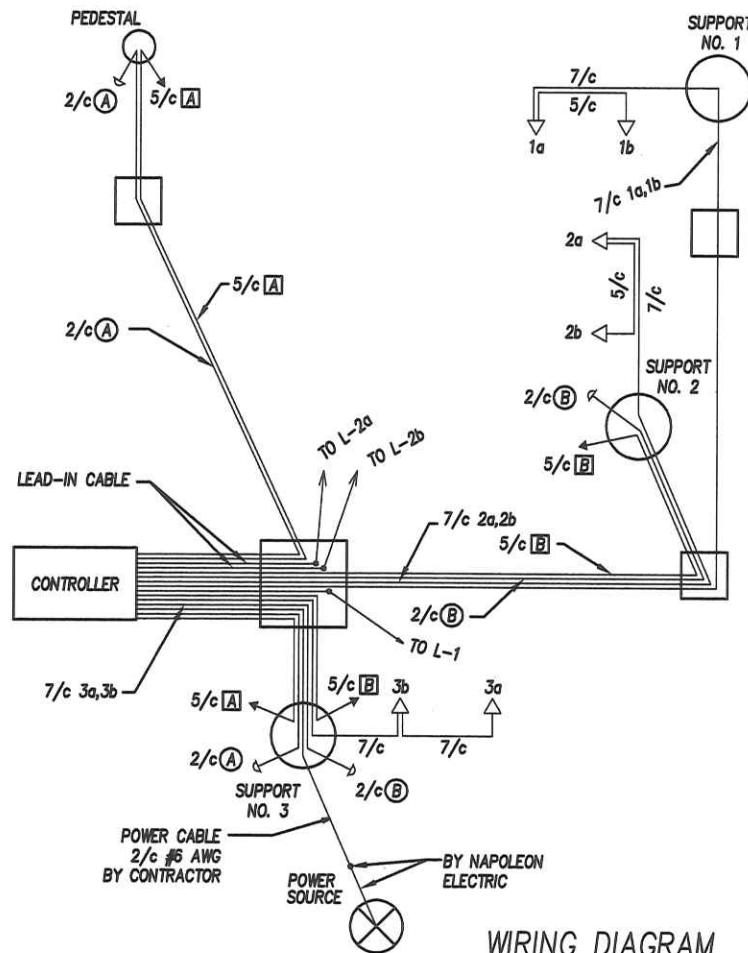
Jul 12, 2001 11:18:55

- NOTES:
1. ALL SIGNAL MAST ARMS 90° TO THE C. OF THE CONTROLLED APPROACH.
 2. FORM POLE FOUNDATIONS PARALLEL AND ADJACENT TO EDGE OF WALK.
 3. STATION AND OUTS ARE IN REFERENCE TO SCOTT ST. (S.R. 108).
 4. PULLBOXES TO BE CONCRETE, 24".
 5. CONDUIT TO BE 713.07, UNLESS OTHERWISE NOTED.
 6. CONTROLLER TO BE EXPANSIBLE TO ACCOMMODATE FUTURE B PHASE ACTUATED OPERATION.
 7. COMBINATION SUPPORTS 2 AND 3 ARE DESIGNED AND WIRED FOR FUTURE 5-SECTION HEADS FOR 2A AND 3A.



PROPOSED PEDESTRIAN SIGNAL HEADS TYPE A2

PROPOSED VEHICULAR SIGNAL HEADS ALL 12" LENSES



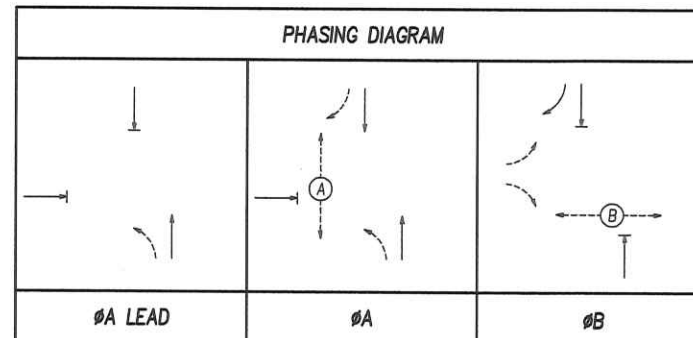
WIRING DIAGRAM
SPLICE •

CONTROLLER TO DWELL ON INTERVAL 3 UNTIL A CALL IS RECEIVED ON LOOP L-2a OR L-2b. OR UNTIL CROSSWALK B IS ACTIVATED.

COLOR SEQUENCE CHART										
INDICATION FACING	FLASH	HEAD	INTERVAL							
			1	2	3	4	5	6	7	8
EB - WALMART	R	2a,2b	R	R	R	R	R	G	G	Y
NB - SCOTT (S.R. 108)	Y	1a	G	Y	G	G	Y	R	R	R
		1b	G	G	G	G	Y	R	R	R
SB - SCOTT (S.R. 108)	Y	3a	R	R	G	G	Y	R	R	R
		3b	R	R	G	G	Y	G	G	Y
CROSSWALKS(A)	DARK		DW	DW	W	FL DW	FL DW	DW	DW	DW
CROSSWALKS(B)	DARK		DW	DW	DW	DW	W	FL DW	FL DW	DW
PHASE			#A LEAD				#B (ACTUATED)			

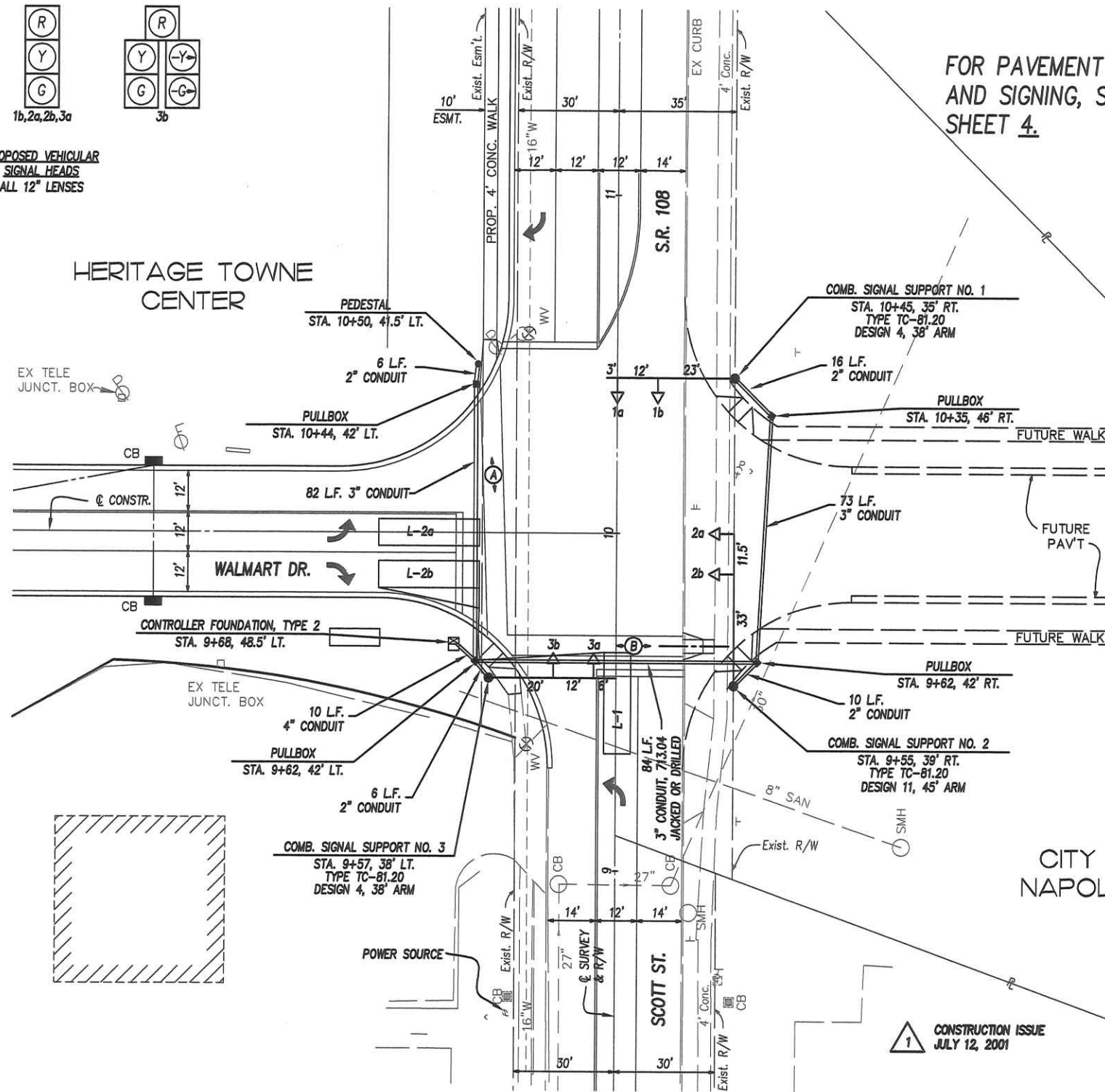


LOOP DETECTOR TABLE											
LOOP NO.	SIZE (FT.)	NO. TURNS	SHAPE	DELAY	MODE	MINIMUM	INTERVAL	CONNECT TO UNIT	ASSOC. CONTR. #	MEMORY	
L-1	8x30	2	RECT.	-	PRES.	6 SEC.	1 SEC.	1	A LEAD	ON	
L-2a	8x30	2	RECT.	-	PRES.	6 SEC.	1 SEC.	2	B	OFF	
L-2b	8x30	2	RECT.	6 SEC.	PRES.	6 SEC.	1 SEC.	3	B	OFF	



TIMING CHART			
	#A LEAD	#A	#B
MINIMUM GREEN PASSAGE	-	-	-
FLASHING DW	-	13	14
MAX. 1	12	34	20
MAX. 2	-	-	-
SEC./ACT.	-	-	-
MAX. INITIAL	-	-	-
PED. RECALL	-	-	-
YELLOW	4	4	4
ALL RED	-	1	1

(SIGNAL TO OPERATE FREE)



FOR PAVEMENT MARKING AND SIGNING, SEE SHEET 4.

HERITAGE TOWNE CENTER

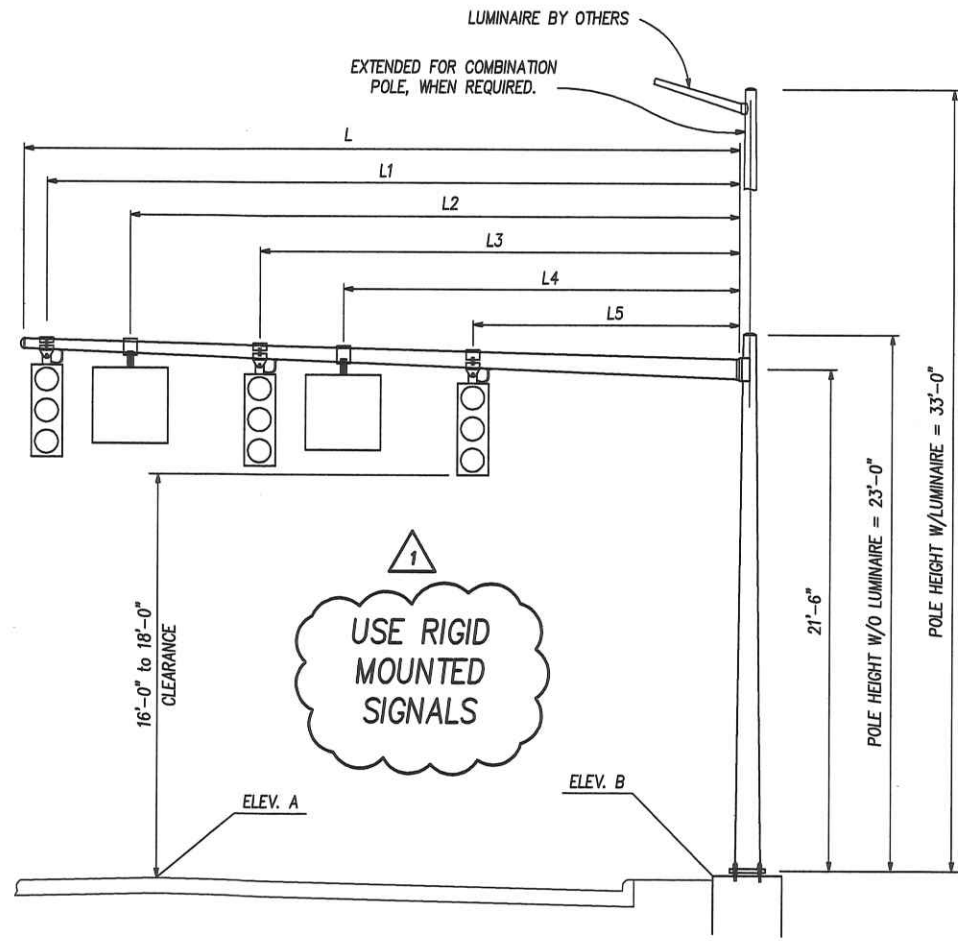
CITY OF NAPOLEON

WALMART SUPER CENTER SIGNALIZATION-NAPOLEON, OHIO

S.R. 108 (SCOTT STREET) / WALMART DRIVE SIGNALIZATION PLAN

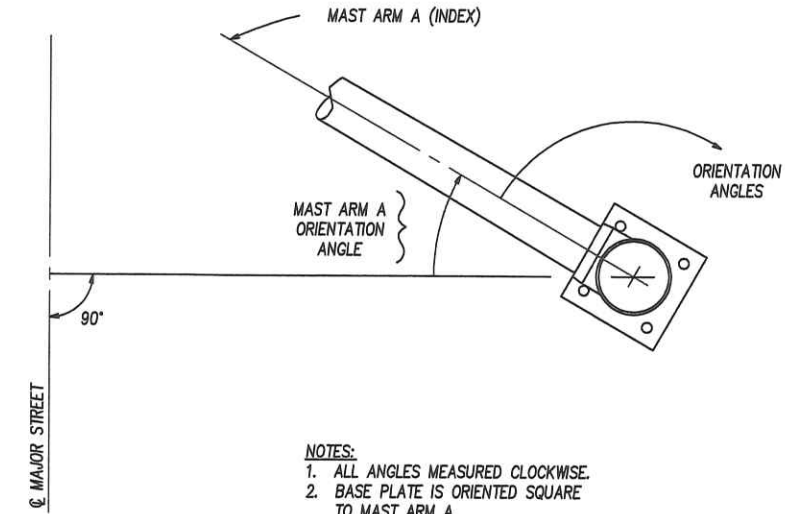
0022 SIGNAL_0022-TDA.DWG

5
6



FOR SIGNAL SUPPORT DETAILS
SEE STD. DWG. TC-81.20
FOUNDATION DETAILS SEE
STD. DWG. TC-21.20
SIGN MOUNTING DETAILS SEE
STD. DWG. TC-41.41

SIGNAL SUPPORT



NOTES:
1. ALL ANGLES MEASURED CLOCKWISE.
2. BASE PLATE IS ORIENTED SQUARE TO MAST ARM A.

INTERSECTION AND SUPPORT NO.	SIGNAL SUPPORT TYPE TC-81.20								MAST ARM A ORIENTATION ANGLE (DEG.)	ORIENTATION ANGLES (DEG.) FROM MAST ARM A						ELEVATION		
	DESIGN NO.	POLE HEIGHT (FT.)	L (FT.)	L1 (FT.)	L2 (FT.)	L3 (FT.)	L4 (FT.)	L5 (FT.)		SIGNAL SUPPORT				FOUNDATION		A	B	
										PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	LUMINAIRE BRACKET	HANDHOLE	CABLE ENTRANCE (12" FROM TOP)	CONDUIT ELL, 2" SPARE	CONDUIT ELL, 2" TRAFFIC CONTROL	PROFILE GRADE	TOP OF FOUNDATION
1	4	32	38	35		23			90	-	-	0	180	-	180	225	-	684.60
2	11	32	45	44.5	1	33			180	0	90	0	180	-	180	45	-	684.70
3	4	32	38	32		20			90	0,270	90,0	0	180	-	180	231	-	684.35

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