CITY OF RIDGELAND, MISSISSIPPI

FEDERAL AID SYSTEM 1992 TRAFFIC SIGNAL IMPROVEMENTS LAKE HARBOUR DRIVE @ WHEATLEY AND PEAR ORCHARD ROAD

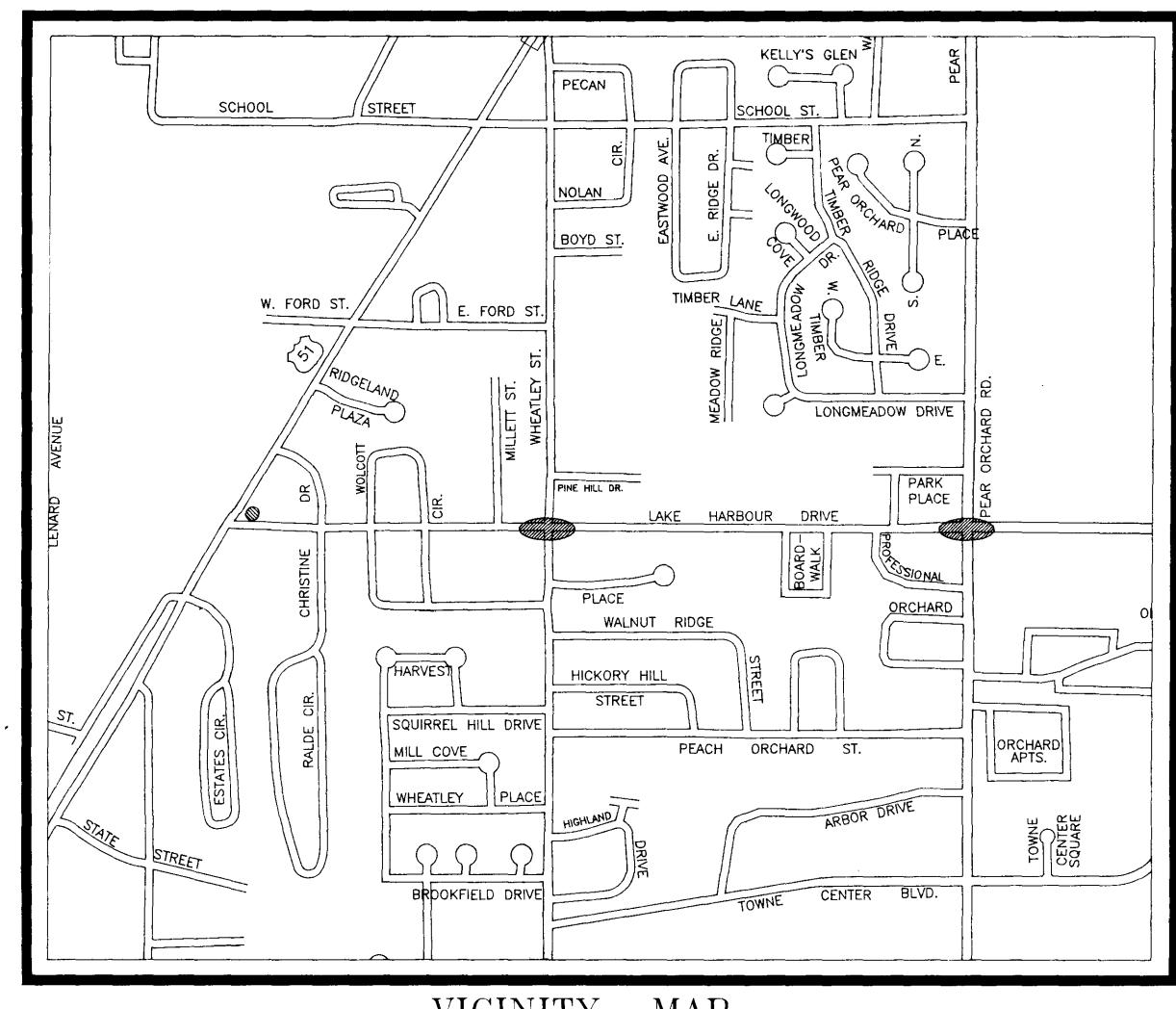
MADISON COUNTY, MS.

FEDERAL AID PROJECT NO. STP-8323 (1)/48-8323-00-001-10

Mayor: Gene F. McGee

Mayor Pro Tem: Harvey Carr, Jr.

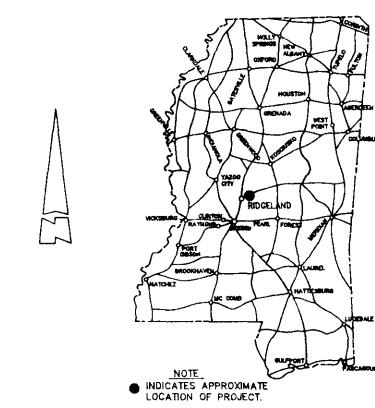
City Attorney: Jerry Mills



VICINITY MAP

JUNE , 1992

WAGGONER ENGINEERING, INC. Consulting Engineers Jackson, Mississippi



Aldermen:

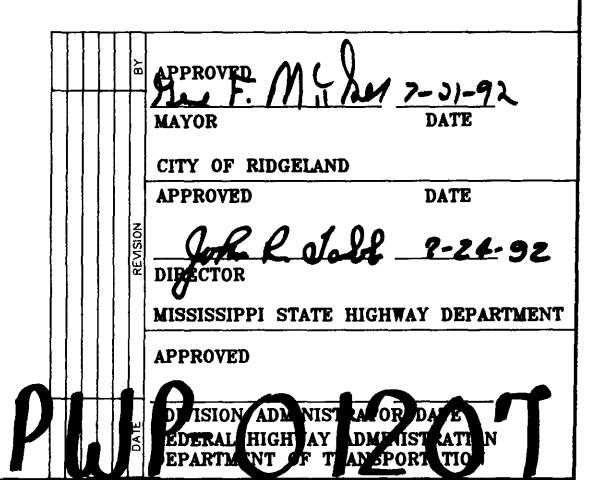
Brian Barcellona Al Bible Harvey Carr, Jr. Linda Davis Daryl Smith

Public Works Director: Sam Vinson

City Clerk: Micheal McPhearson



DESIGN CONTROL 35 MPH = V (SPEED DESIGN)ADT (1990) = 9950: ADT (2010) = 14925DHV = 1493 D = 60 - 40% T = 4.5%



PREPARED BY		
	CITY ENGINEER	DATE

PAY ITEM NO.	PAY ITEM		LAKE HARBOUR & WEATLEY STREET		LAKE HARBOUR ® PEAR ORCHARD ROAD		TOTAL	
			PRELIM.	FINAL	PRELIM.	FINAL	PRELIM.	FINAL
618-A	MAINTENANCE OF TRAFFIC	L.S.	L.S.			<u>,</u>		
620-A	MOBILAZATION	L.S.	L.S.		L.S. L.S.		L.S.	
020 A	TRAFFIC SIGNAL ITEMS	L.S.	L.J.	_	L.3.		L.S.	
908-635-A	VEHICLE LOOP ASSEMBLIES	LF.	1466		1844		3310	
908-636-A	SHIELDED CABLE (UNDERGROUND)	LF.	1696		2316		4012	···-
908-638-A	LOOP DETECTOR AMPLIFIER CARD		1030		. 2310		4012	
300 000 X	RACK MOUNTED (4 CHANNEL)	EA.	1		1	 	2	
	,		·····		•			
907-639-C	STEEL TRAFFIC SIGNAL & EQUIP.							
	POLES (TYPE II) (SINGLE MAST ARM)	EA.			4		4	
	(16' SHAFT LENGTH)							
907-639-C	STEEL TRAFFIC SIGNAL & EQUIP.							-
	POLES (TYPE III) (DOUBLE MAST ARM)	EA.	2			-	2	
	(16' SHAFT LENGTH)							
								
908-640-A	TRAFFIC SIGNAL HEADS (TYPE I)	EA.	8	1	8		16	
908-642-A	SOLID STATE TRAFFIC ACTUATED							
	CONTROLLERS (TYPE 8A)	EA.	1		1		3	
908-643-A	CLOSED LOOP ON STREET	EA.					1	
	MASTER SYSTEM			+			•	
908-644-A	OPTICAL DETECTOR	EA.	4	1	4		8	
908-644-B	OPTICAL DETECTOR CABLE	LF.	359		586	-	945	
908-647-A	PULLBOXES (TYPE 1)	EA.	4		4	<u>_</u>	8	
908-647-A	PULLBOXES (TYPE 2)	EA.	4				4	
				1				
907-649	STREET NAME SIGNS	S.F.	30		30		60	
908-666-B	ELECTRIC CABLE (UNDERGROUND			-				
	IN CONDUIT) (POWER LEAD IN)							
	(AWG #6) (2 CONDUCTOR)	LF.	122		338		460	<u> </u>
				-			400	
				++				·
908-666-B	ELECTRIC CABLE (UNDERGROUND							
	IN CONDUIT) (SIGNAL CABLE)							
	(AWG #14) (5 CONDUCTOR)	LF.		++	227		227	
908-666-B	ELECTRIC CABLE (UNDERGROUND			-	221		22/	
300 000 0	IN CONDUIT) (SIGNAL CABLE)							
	(AWG #14) (7 CONDUCTOR)	LF.	387		596		983	
008-666-B	ELECTRIC CABLE (UNDERGROUND			1	550			
	IN CONDUIT)(COMMUNICATION CAB			1			-	
	LE)(IMSA40-4)(AWG #19)(6 PAIR)	LF.	244	++	69		313	
	TOWNS TO THE PLANT FAIR)		<u>⊾ 1</u> ∓	+ +	09			
08-666-C	ELECTRIC CABLE (AERIAL SUPP-			-				
	ORTED)(COMMUNICATIONS CABLE)		·	++				
	(IMSA 40-4)(AWG #6)(6 PAIR)	LF.	2000	+	2700		4700	
	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7				2,00		7700	
908-668-A	TRAFFIC SIGNAL CONDUIT			+				
	(UNDERGROUND) (TYPE 1) (1")	LF.	358	+	312		670	
	(070	
-		+					!	<u> </u>
908-668-A	TRAFFIC SIGNAL CONDUIT					+		·
	(JACKED) (TYPE 1) (3")	LF.	171				171	
	(1) (0)		- · · ·	+				
908-668-B	TRAFFIC SIGNAL CONDUIT			+				
200 000-0	(UNDERGROUND) (TYPE IV) (1")	LF.	271	+	186		757	
908-668-B	TRAFFIC SIGNAL CONDUIT		۷/۱		486		/5/	<u> </u>
200 000-0	(UNDERGROUND) (TYPE IV) (2")	LF.	134	++	60		104	
908-668-B	TRAFFIC SIGNAL CONDUIT		134	+			194	
	(UNDERGROUND) (TYPE IV) (3")	LF.	7.0	+	18		54	
ľ	(DIADELIOLOGIAD) (1 ILE 14) (2)	!	36	1 1	10		54	

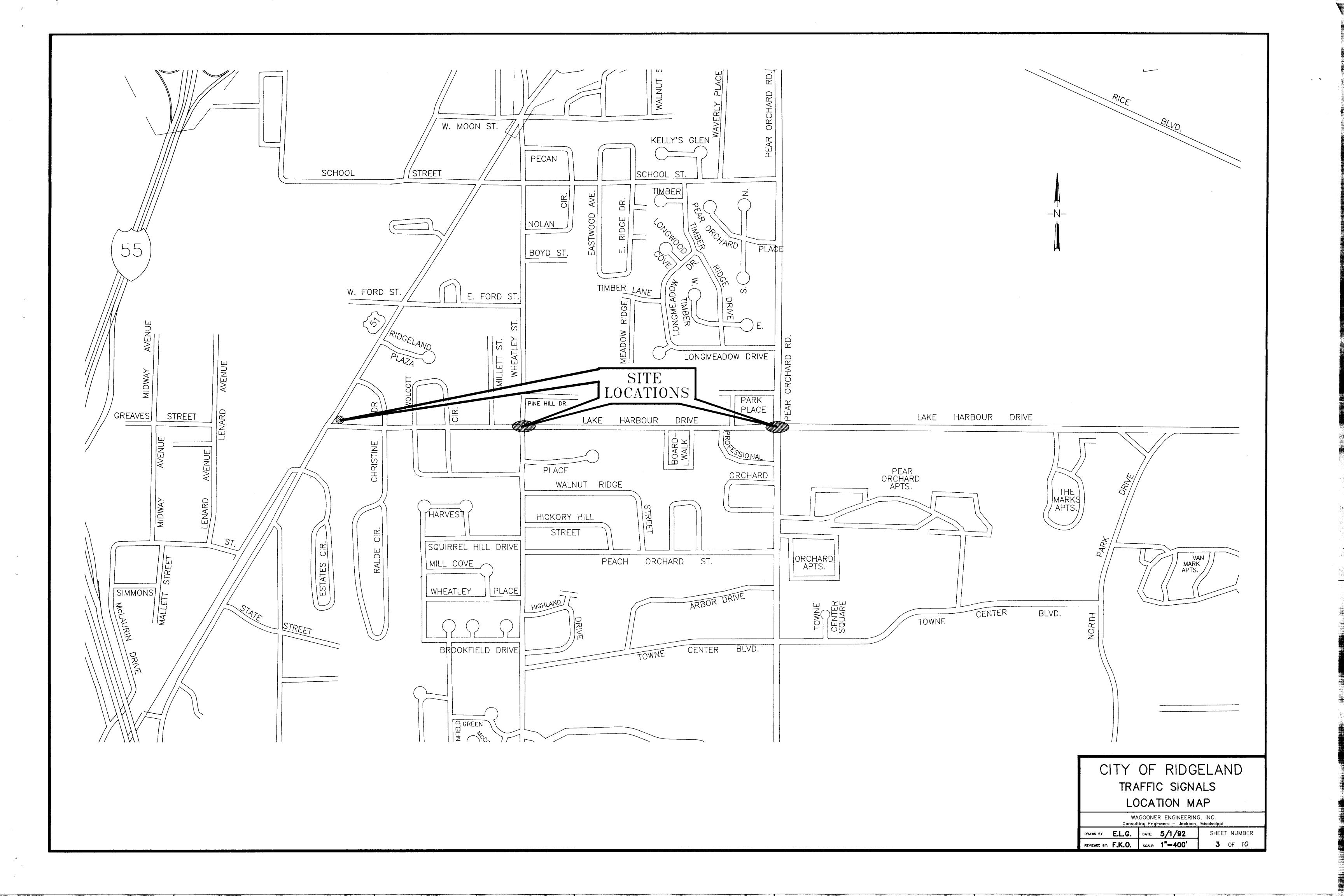
SHEET NO.	TITLE			
1	COVER SHEET			
2	SUMMARY OF QUANTITIES, INDEX, APPLICATION RATES & GENERAL NOTES			
3	PROJECT LOCATION MAP			
4 TRAFFIC SIGNALIZATION DETAILS (LAKE HARBOUR DRIVE @ PEAR ORCHAI				
5	TRAFFIC SIGNALIZATION DETAILS (LAKE HARBOUR DRIVE @ WHEATLEY STREET)			
6	TRAFFIC SIGNAL INSTALLATION DETAIL			
7	STANDARD DETAILS TYPICAL TRAFFIC CONTROL PLANS			
8 STANDARD SIGNS FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION				
9	STANDARD SIGNAL DETAILS VEHICLE LOOP DETECTOR ASSEMBLY			
10	STANDARD SIGNAL DETAILS CONDUIT, PULLBOX AND PEDESTRIAN PUSHBUTTON			

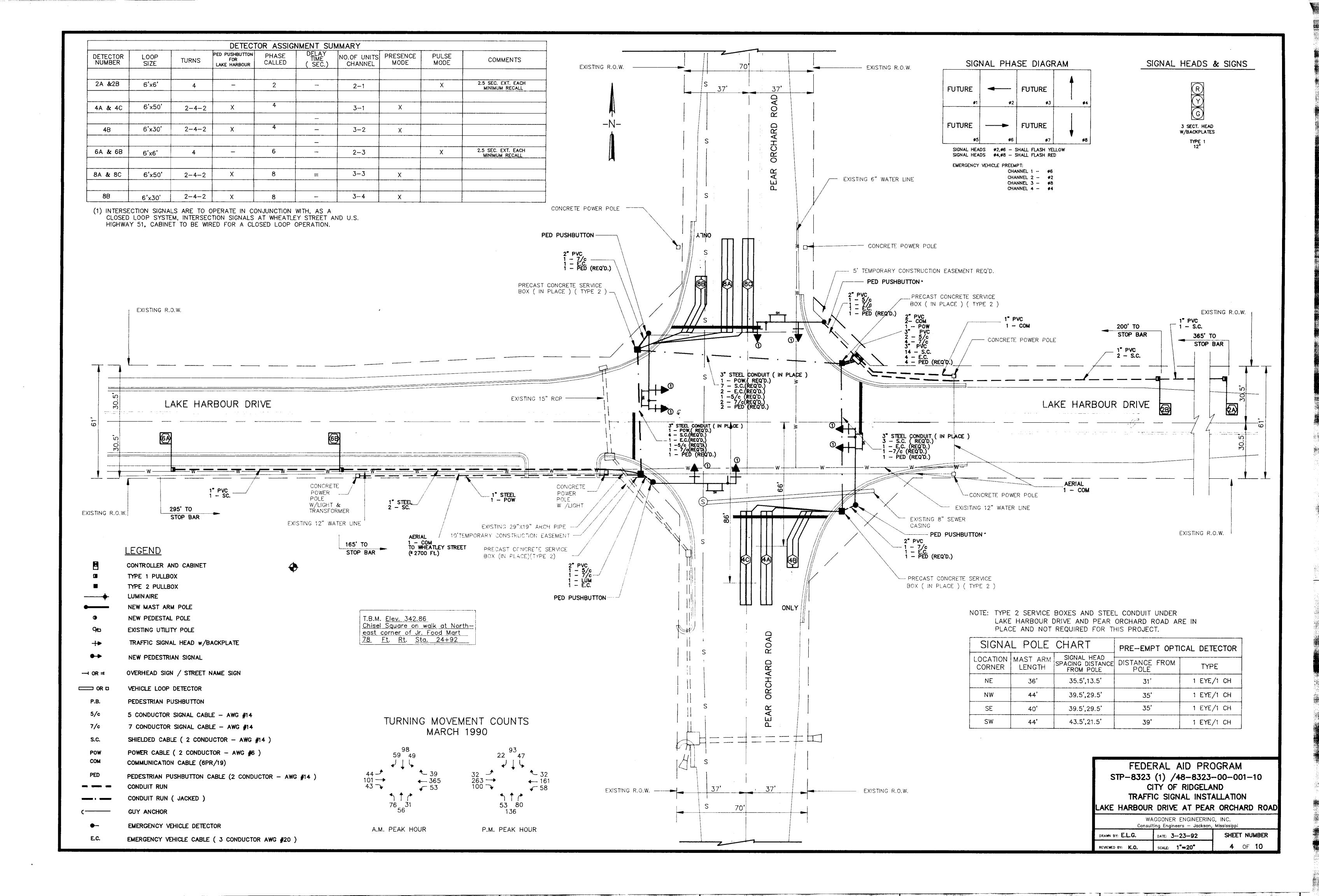
ONE SOLID STATE TRAFFIC ACTUATED COTROLLER AND CLOSED LOOP MASTER TO BE PLACED IN NORTHEAST QUADRANT OF U.S. HIGHWAY 51/LAKE HARBOUR DRIVE ON EXISTING CONCRETE PAD. EXISTING CONTROLLER BOX TO BE REMOVED BY CONTRACTOR AND STORED ON SITE FOR PICKUP BY STATE.

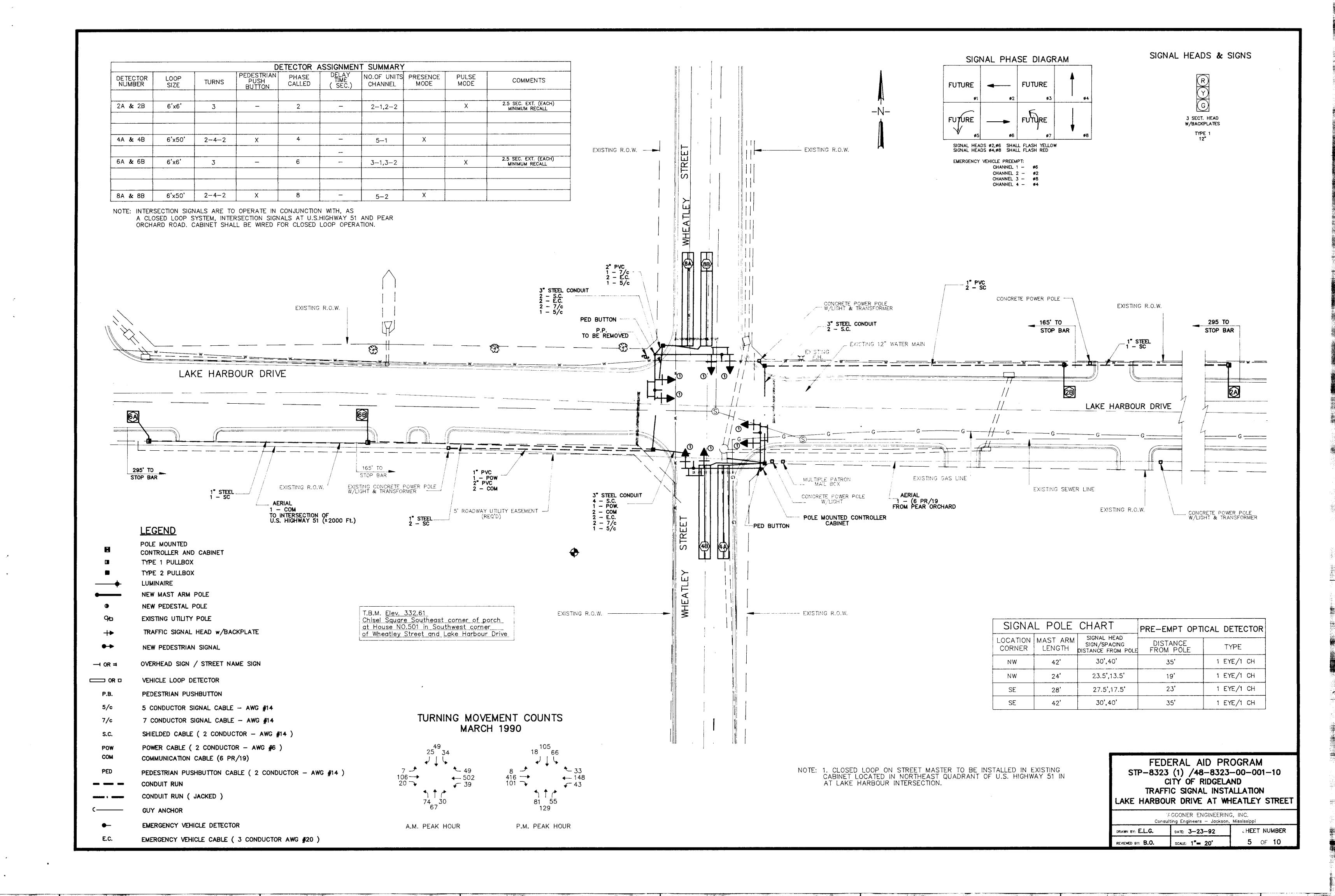
Traffic Signal Installation General Notes

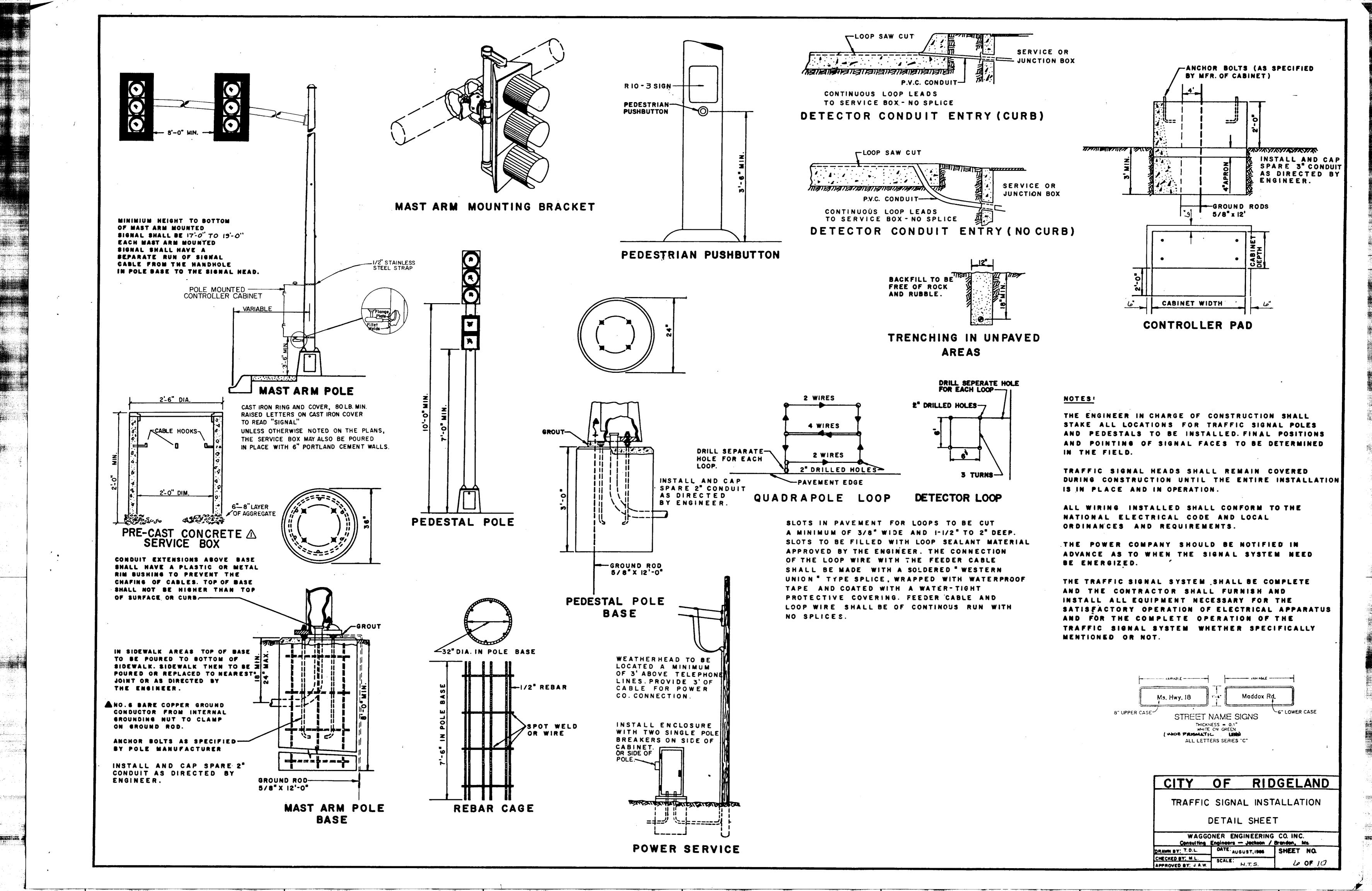
- The plan locations of underground utilities are approximate only. The contractor shall notify all the utility companies prior to starting any excavation on the project, in order to establish exact locations. The contractor shall be responsible for making independent investigations, as necessary, to verify all utility locations at no cost to the owner.
- All signs, signals, pavement markings and temporary traffic control devices are to conform to the Manual on Uniform Traffic Control Devices (1988 Edition) and all subsequent revisions.
- 3. All raised objects are to be placed a minimum of 2' behind the face of curb. New traffic signal poles are to be placed a minimum of 5' behind the face of curb except where conflicts with utilities and/or right—of—way exists.
- 4. All poles, pullboxes, controllers and pavement markings shall be field located by the Engineer and the Contractor at the nearest practical location indicated on the plan sheets.
- 5. The signal controller timings shall be provided by the Engineer.
- The Contractor shall make application for power service, coordinating with City Officials and utility company involved, in advance of requiring the electrical service.
- The Contractor is responsible for the maintenance of existing traffic signals and/or signs after work begins at either site. Cost to be included in other items bid.
- 8. All existing detector cabinets, controllers, signal heads, cable, poles, signs, etc. are to be removed and stored on site to be picked up by the City. Cost to be included in other items bid.
- 9. All detector cabinet and controller bases are to be completely removed. All existing pole bases are to be removed a minimum of 6" below finished ground level. Cost to be included in other items bid.
- 10. The Contractor shall schedule work so that the change over from existing controller cabinet to the new controller cabinet shall be done expeditiously. The Contractor shall notify the city at least 24 hours prior to signal being out of operation for traffic control by local law enforcement.
- 11. All pavement markings, etc. will be provided by others in a separate contract prior to initiation of construction activities under this project.
- 12. Cost of pedestrian pushbuttons and related signing R10—3, "Push Button For Green Light", to be included in Pay Item No. 908—642—A
- 13. Contractor to strip away support cable from communication cable, Pay Item No.. 908—666—B, prior to installation in underground conduit. Cost to be absorbed in Pay Item No. 908—666—B.

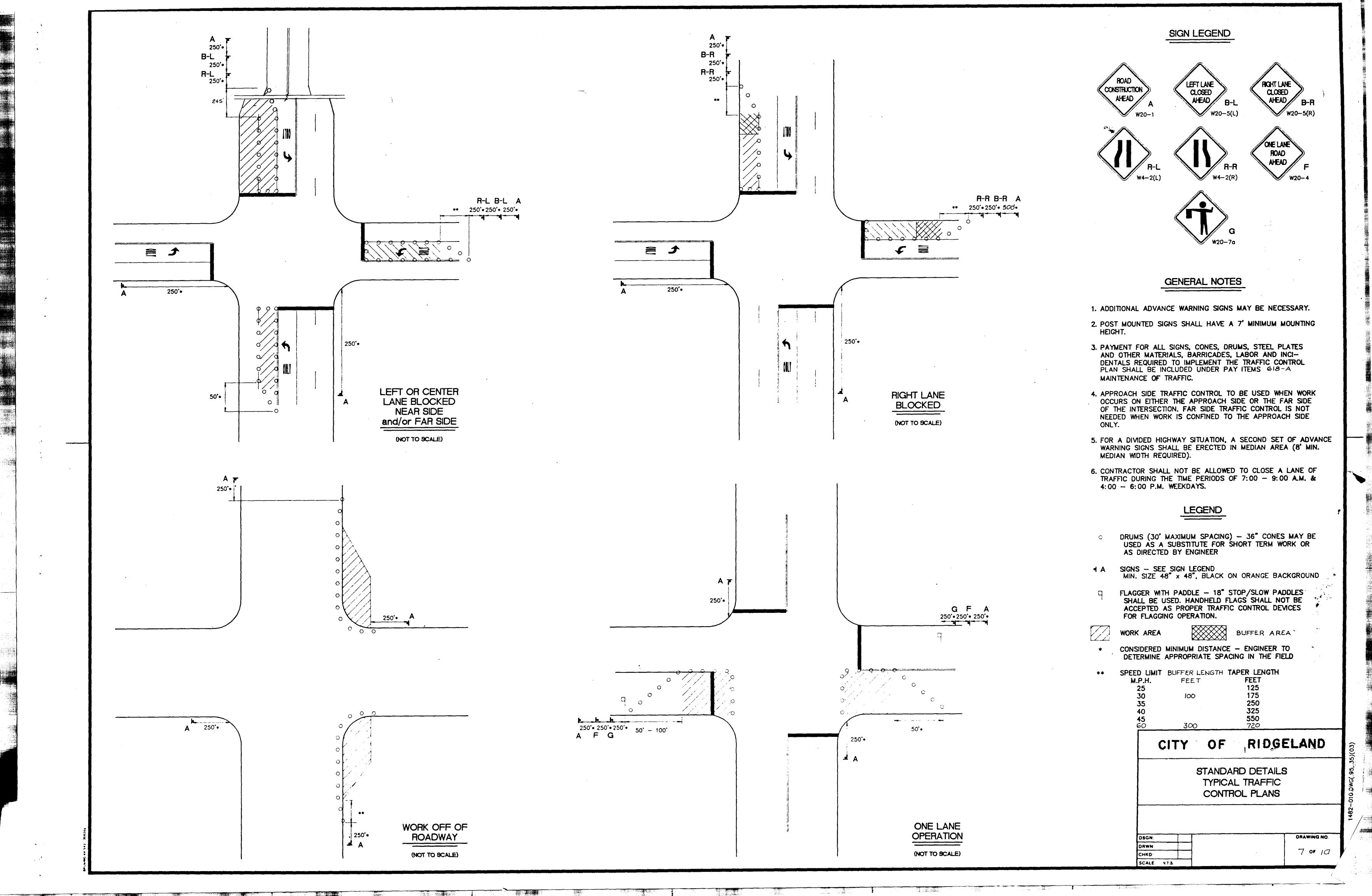


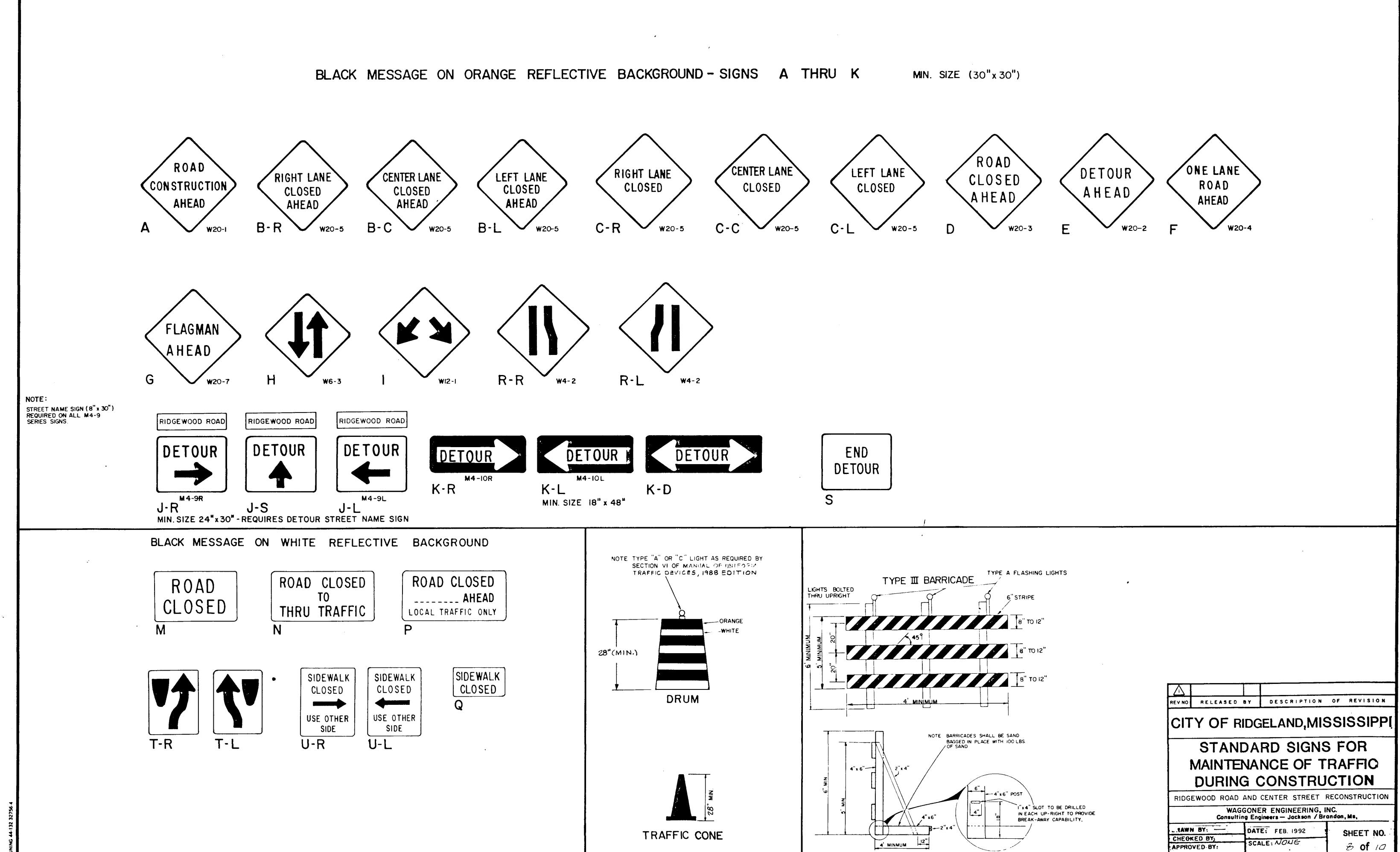


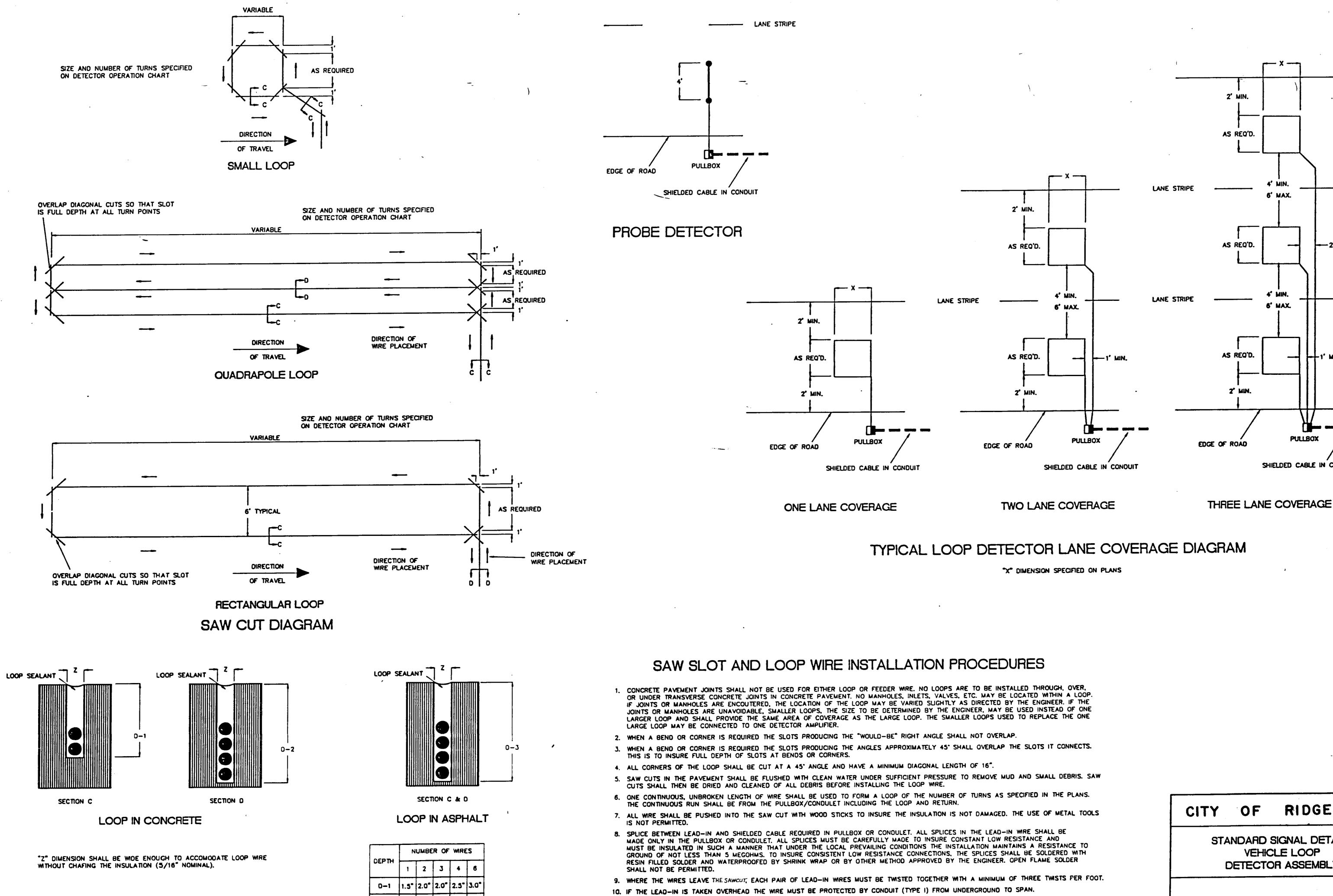












SAW SLOT DETAIL

11. WHEN A PULLBOX IS NOT USED IN THE LEAD-IN (THE WRE WHICH CONNECTS THE SENSING LOOP TO THE DETECTOR AMPLIFIER), THE

LOOP WRE SHALL BE TWISTED A MINIMUM OF THREE TURNS PER FOOT FROM THE LOOP TO THE DETECTOR AMPLIFIER.

RIDGELAND STANDARD SIGNAL DETAILS **VEHICLE LOOP** DETECTOR ASSEMBLY 90010 CHRO:

SHIELDED CABLE IN CONDUIT

