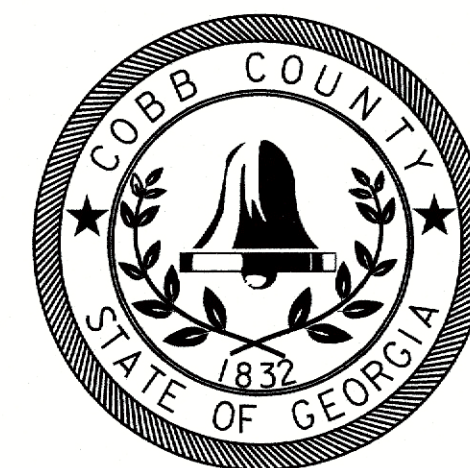
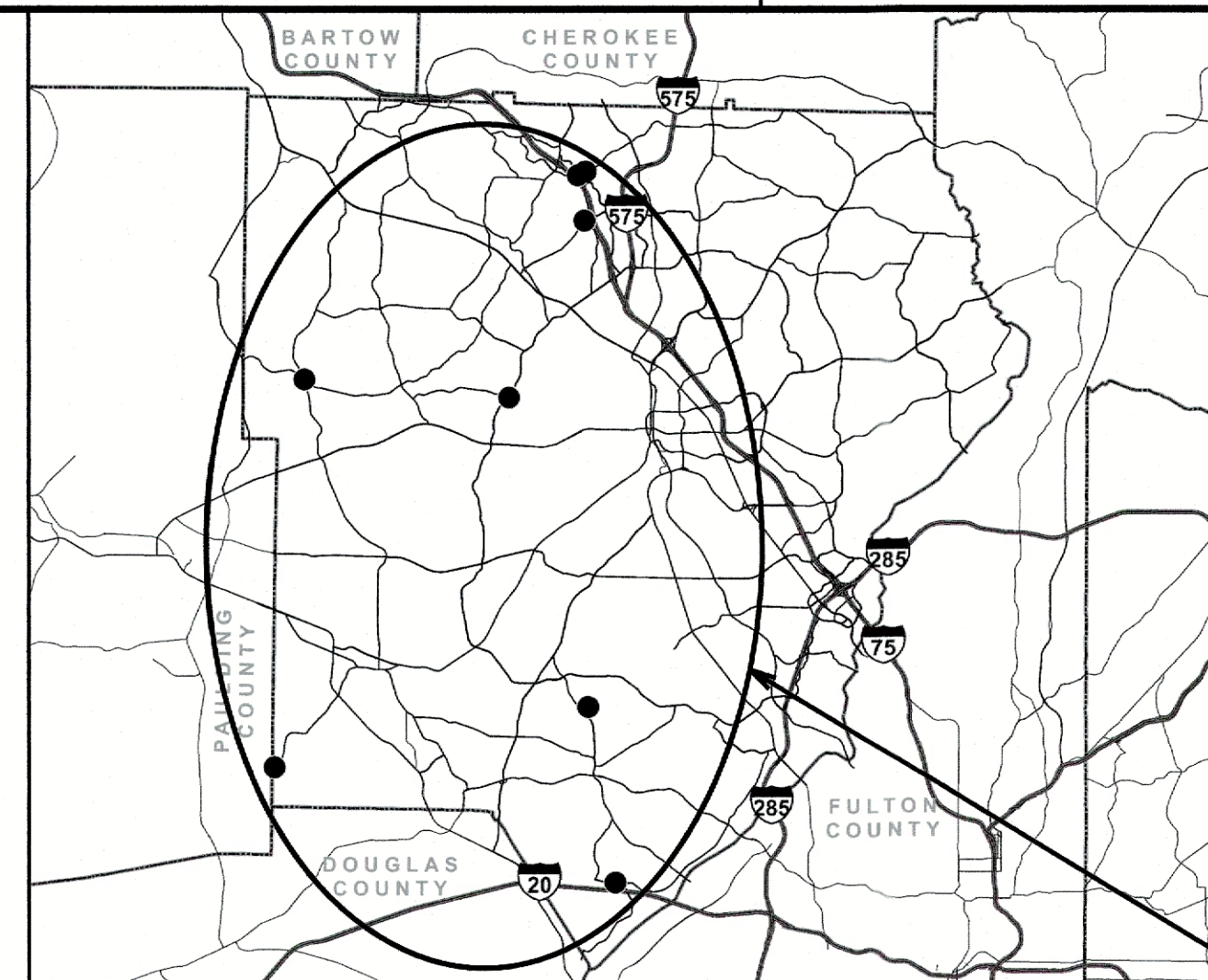


DEPARTMENT OF TRANSPORTATION COBB COUNTY



TRAFFIC SIGNALS: FYA UPGRADE PROJECT NO. B2559



LOCATION SKETCH (NOT TO SCALE)

THIS PROJECT IS 100% IN COBB COUNTY.

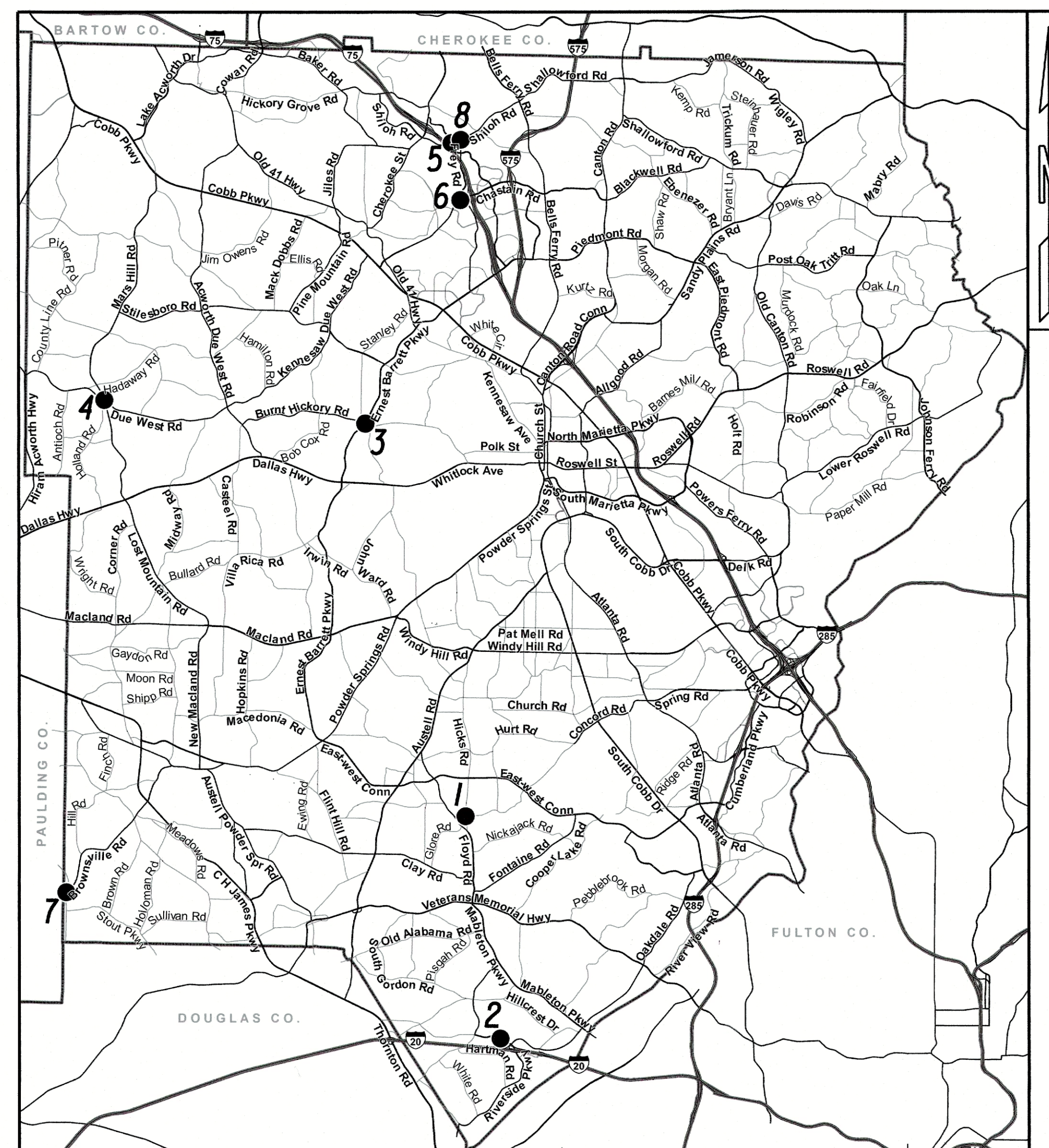
COBB COUNTY COMMISSION DISTRICTS 1,3,4

PROJECT LENGTH: N/A

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



LOCATION SKETCH (NOT TO SCALE)

LIST OF LOCATIONS:

1. Hicks Road at Concord Road
2. Riverside Parkway at Premier Lane
3. Ernest Barrett Parkway at Burnt Hickory Road
4. Mars Hill Road at Due West Road
5. George Busbee Parkway at Shiloh Road
6. Chastain Road at Town Point Drive/Kennesaw State University Road
7. Brownsville Road at Burnt Hickory Road/Pine Valley Road
8. Shiloh Road at Frey Road

PREPARED BY: COBB COUNTY DEPARTMENT OF TRANSPORTATION
1890 COUNTY SERVICES PARKWAY
MARIETTA, GEORGIA 30008
(770) 528-1600
www.cobbdot.org

ACCEPTED BY:

1/25/2024
DATE

PLANS COMPLETED 01-11-2024
REVISIONS

DRAWING No.

01-0001

DATE##
\$USCR\$

TIME##
\$PRFB\$
\$PENTABLE\$

SDGN\$

Proj. No.
B2559

INDEX

DRAWING NO.	DESCRIPTION	DETAIL NO.	DESCRIPTION
01-0001	COVER SHEET		GDOT CONSTRUCTION DETAILS
02-0001	INDEX SHEET		
03-0001	REVISION SUMMARY		
07-0001	QUANTITIES REQUIRED BY CONSTRUCTION	TS-13B	VIDEO CAMERA SENSOR MOUNTING WITH COAXIAL VIDEO CABLE AND JUNCTION BOX (3/2016)
08-0001	QUANTITIES REQUIRED BY AMENDMENT	TS-13C	VIDEO CAMERA SENSOR MOUNTING WITH COAXIAL AND ETHERNET CABLES (3/2016)
09-0001	DETAILED ESTIMATE		GDOT STANDARDS
27-0000	TRAFFIC SIGNAL GENERAL NOTES		
27-0001	HICKS RD AT CONCORD RD	9100	TRAFFIC SIGNAL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS (3/2006)
27-0002	HICKS RD AT CONCORD RD DETAILED ESTIMATE		
27-0003	RIVERSIDE PKWY AT PREMIER LN		
27-0004	RIVERSIDE PKWY AT PREMIER LN DETAILED ESTIMATE		
27-0005	ERNEST BARRETT PKWY AT BURNT HICKORY RD		
27-0006	ERNEST BARRETT PKWY AT BURNT HICKORY RD DETAILED ESTIMATE		
27-0007	MARS HILL RD AT DUE WEST RD		
27-0008	MARS HILL RD AT DUE WEST RD DETAILED ESTIMATE		
27-0009	GEORGE BUSBEE PKWY AT SHILOH RD		
27-0010	GEORGE BUSBEE PKWY AT SHILOH RD DETAILED ESTIMATE		
27-0011	CHASTAIN RD AT KSU RD/TOWN POINT DR		
27-0012	CHASTAIN RD AT KSU RD/TOWN POINT DR DETAILED ESTIMATE		
27-0013	BROWNSVILLE RD AT BURNT HICKORY RD/PINE VALLEY RD		
27-0014	BROWNSVILLE RD AT BURNT HICKORY RD/PINE VALLEY RD DETAILED ESTIMATE		
27-0015	SHILOH RD AT FREY RD		
27-0016	SHILOH RD AT FREY RD DETAILED ESTIMATE		
THE GEORGIA D.O.T. STANDARDS AND CONSTRUCTION DETAILS REQUIRED FOR THIS PROJECT ARE LISTED IN THE INDEX WITH THE LATEST KNOWN REVISION DATE BUT ARE NOT INCLUDED AS PART OF THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING THE GEORGIA D.O.T. STANDARD DRAWINGS AND CONSTRUCTION DETAILS REQUIRED BY THIS PROJECT. FULL SIZE SHEETS MAY BE PURCHASED BY THE CONTRACTOR AT HIS EXPENSE FROM GEORGIA D.O.T.			

10/23/2015

GPLN

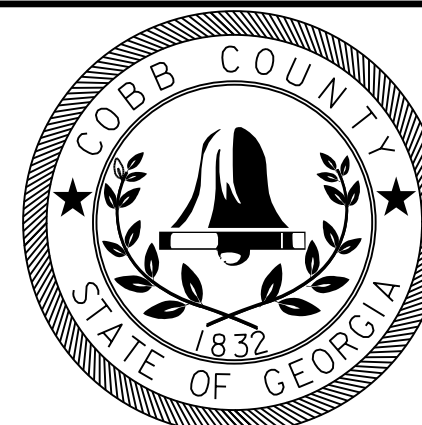
INDEX

COBB COUNTY

STATE OF GEORGIA

REVISION DATES

CHECKED:	DATE:	DRAWING No. 02-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

[illegible]

REVISION DATES			REVISION SUMMARY			
			TRAFFIC SIGNALS: FYA UPGRADE			
			CHECKED:		DATE:	
			BACKCHECKED:		DATE:	
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	
						DRAWING No.
						03-0001

QUANTITIES REQUIRED BY AMENDMENT

[illegible]

REVISION DATES

QUANTITIES (CONSTRUCTION)

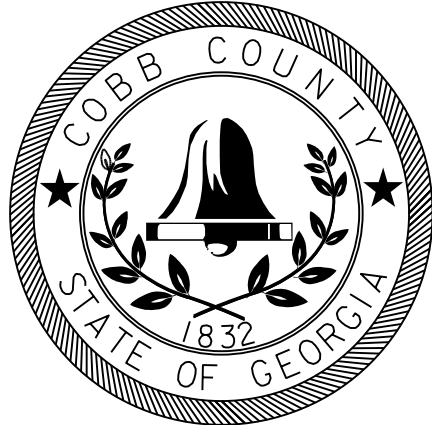
TRAFFIC SIGNALS: FYA UPGRADE

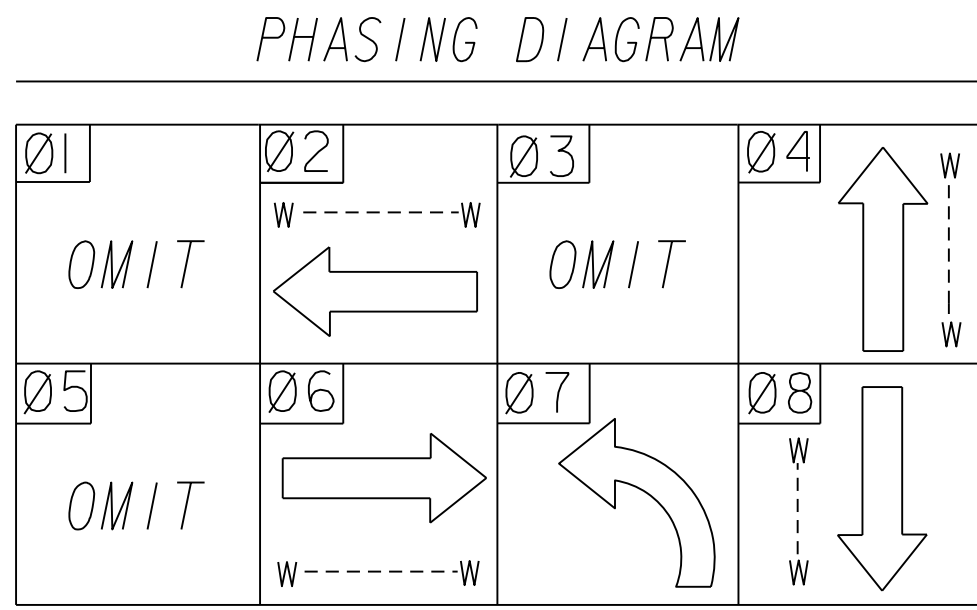
CHECKED:		DATE:		DRAWING No. 08-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

DETAILED ESTIMATE

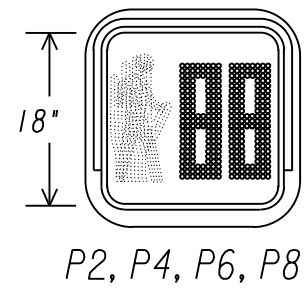
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	ROADWAY ITEMS		
150-1000	TRAFFIC CONTROL - PROJECT B2559	LS	1
205-0100	CONSTRUCTION ALLOWANCE - PROJECT B2559	LS	1
	TRAFFIC SIGNALS		
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 2	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 3	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 4	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 5	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 6	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 7	LS	1
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 8	LS	1
647-5395C	LUMINAIRE EXT. W/ARM 20 FT.	EA	1
937-6050	INT VIDEO DETECTION SYSTEM ASSY TP A	EA	4
937-8030	TESTING - INTERSECTION VIDEO DETECTION	LS	1

NOTES:
MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.

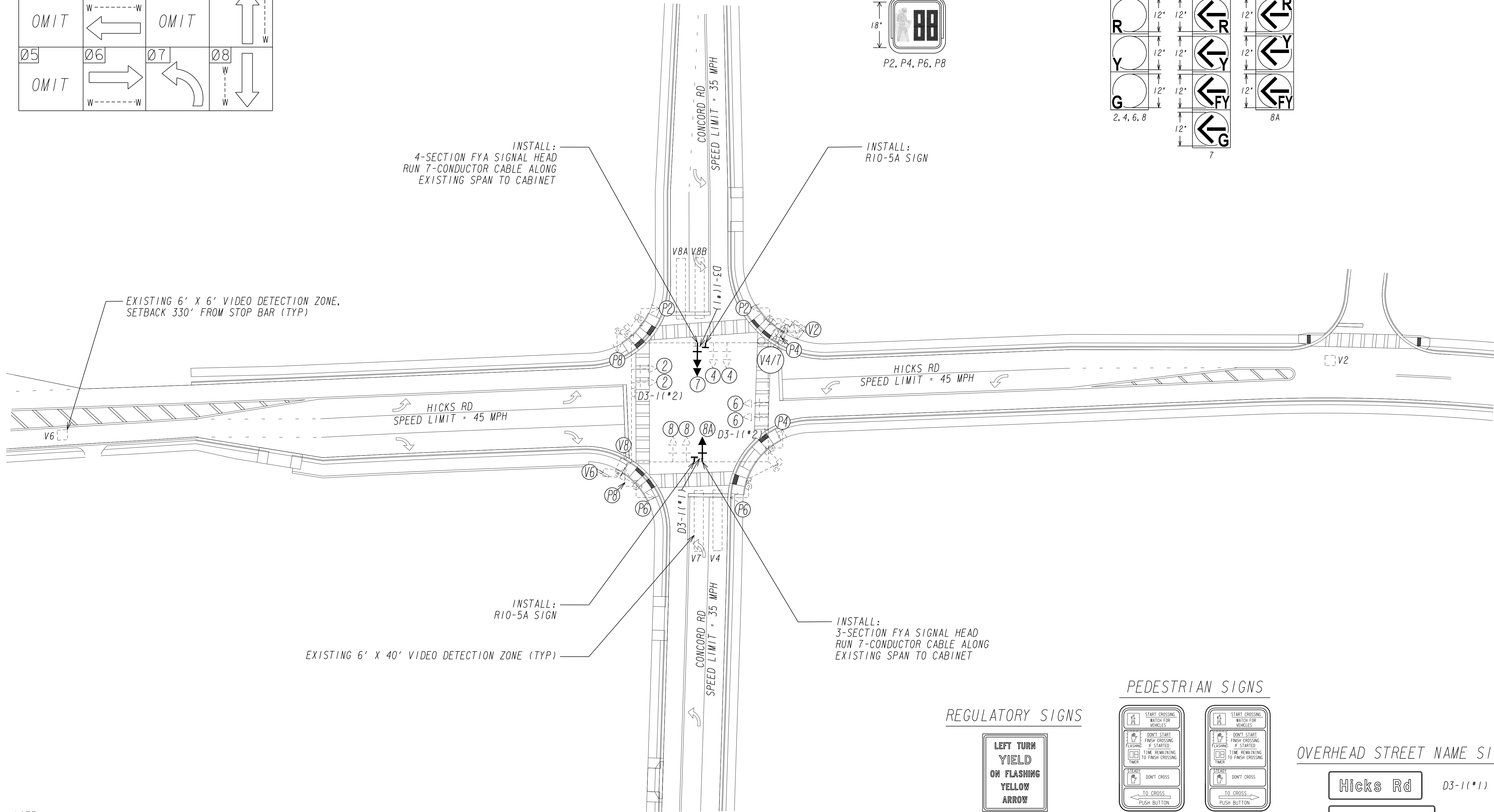
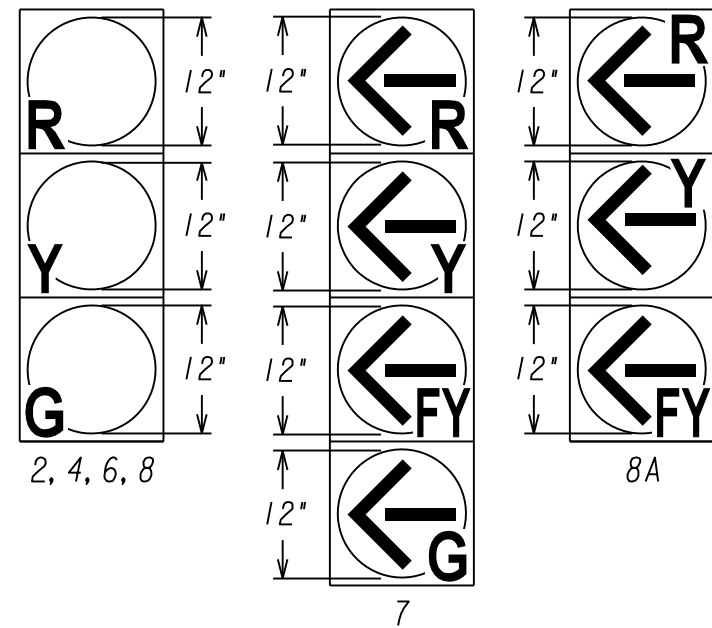
9/11/2023 Inman1		9:15:12 AM gplot-v8 gplotborder-V81-P0.1b1		B2559_27-0000.dgn		Proj. No. B2559																																																	
TRAFFIC SIGNAL GENERAL NOTES 1. THE COMPLETE SIGNAL INSTALLATION, MODIFICATION AND/OR REBUILD SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION INCLUDING SUBSEQUENT PUBLISHED RULINGS. 2. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL/CCTV INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE CURRENT GDOT/COBB COUNTY SPECIFICATIONS. 3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT COBB COUNTY AND GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. 4. THE CONTRACTOR IS REQUIRED TO MAINTAIN VEHICLE DETECTION WITHOUT INTERRUPTION FOR ALL TRAFFIC SIGNAL PHASES DURING CONSTRUCTION OF THE PROJECT. APPROVED DETECTION (RADAR or VIDEO) SHALL BE USED FOR PRESENCE DETECTION AND PULSE DETECTION. TEMPORARY POLES MAY BE REQUIRED TO SUPPORT THESE DETECTION DEVICES DURING PROJECT CONSTRUCTION. 5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS, CCTV, AND COMMUNICATIONS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL/CCTV OPERATION INCLUDING COMMUNICATIONS TO BE INOPERABLE. ANY NECESSARY INTERRUPTION IN COMMUNICATION OR OPERATION DUE TO CONSTRUCTION MUST BE APPROVED BY COBB COUNTY TRAFFIC ENGINEER OR HIS/HER DESIGNEE. 6. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES, CONDUIT, AND PULL BOXES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF FIVE (5) FEET) IN THE LOCATION OF NEW SIGNAL POLES, CONDUIT, AND PULL BOXES, SHALL BE AT THE DISCRETION OF THE COBB SIGNAL DESIGN ENGINEER. 7. PROVIDE A MINIMUM OF 10' CLEARANCE BETWEEN POWER LINES AND MAST ARMS. RAISE POWER LINES IF NECESSARY. 8. ALL INSTALLED FIBER OPTIC CABLE SHALL BE THE FIRST CABLE ATTACHED BELOW THE NEUTRAL CONDUCTORS. THE VERTICAL SEPARATION BETWEEN THE ATTACHMENT POINT OF THE FIBER AND THE ATTACHMENT POINT OF THE NEUTRAL CONDUCTOR SHALL BE A MINIMUM OF 40 INCHES, AND THE VERTICAL SEPARATION BETWEEN THE ATTACHMENT POINT OF THE FIBER OPTIC CABLE AND THE LOWEST POINT OF THE NEUTRAL CONDUCTOR (IN THE SPAN OR AT THE CROSSING) SHALL BE MINIMUM OF 12 INCHES. THE MINIMUM VERTICAL SEPARATION BETWEEN THE ATTACHMENT POINT OF THE FIBER AND ATTACHMENT POINT OF ALL OTHER CABLES SHALL BE A MINIMUM OF 12 INCHES. 9. POLE FOUNDATIONS SHALL CONFORM TO GDOT STANDARD CAISSON DETAILS FOR SITE SOIL STRENGTH. FOUNDATIONS SHALL BE ENLARGED AS NECESSARY TO COMPENSATE FOR INFERIOR OR FILL SOIL. 10. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL HEADS. 11. WHERE SIGNAL AND PEDESTRIAN HEADS ARE INDICATED TO BE INSTALLED OR REPLACED THIS SHALL INCLUDE ANY AND ALL HARDWARE TO COMPLETE THE INSTALLATION. 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. 13. THE SIGNAL INSPECTOR (770-528-3679) MUST BE CONTACTED THREE (3) DAYS IN ADVANCE OF POURING CONCRETE FOUNDATIONS TO VERIFY BOLT PATTERNS AND CONDUIT PLACEMENT. 14. WHEN REMOVED, EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE COBB COUNTY DEPARTMENT OF TRANSPORTATION, 1890 COUNTY SERVICES PARKWAY, MARIETTA, GEORGIA 30008. THE CONTRACTOR SHALL PROVIDE AN INVENTORY LIST OF RETURNED EQUIPMENT AND ARRANGE A MUTUALLY AGREEABLE DELIVERY TIME WITH THE COBB COUNTY WAREHOUSE TECHNICIAN TWENTY-FOUR (24) HOURS (770-528-4379) IN ADVANCE. 15. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE COBB COUNTY TRAFFIC ENGINEER OR HIS/HER DESIGNEE PRIOR TO FINAL ACCEPTANCE. 16. THE CONTRACTOR SHALL CONTACT COBB COUNTY DEPARTMENT OF TRANSPORTATION FOR A PRE-CONSTRUCTION MEETING TO BE HELD AT THE COBB COUNTY DOT OFFICE, AT WHICH TIME THE CONTRACTOR SHALL ISSUE A LETTER TO COBB COUNTY DOT ACCEPTING RESPONSIBILITY OF THE SPECIFIED INTERSECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND MAINTAIN CONTROL OF THE SIGNAL UNTIL FINAL ACCEPTANCE OF THE SIGNAL BY COBB COUNTY DEPARTMENT OF TRANSPORTATION. 17. INSTALL (4) EA. 3" NONMETAL CONDUIT AND (2) EA. 1" NONMETAL CONDUIT BETWEEN THE CONTROL CABINET AND ITS ADJACENT PULLBOX. 18. INSTALL (3) EA. 2" NONMETAL CONDUIT AND (2) EA. 1" NONMETAL CONDUIT BETWEEN EACH STEEL STRAIN POLE (WITH OR WITHOUT MAST ARM) AND ITS ADJACENT PULLBOX. 19. INSTALL (2) EA. 2" NONMETAL CONDUIT AND (1) EA. 1" NONMETAL CONDUIT BETWEEN PEDESTAL POLE AND ITS ADJACENT PULLBOX. 20. APPROVED DETECTION (RADAR or VIDEO) AND 2070 CONTROLLERS SHALL BE CAPABLE OF WORKING IN THE EXISTING ADAPTIVE TRAFFIC CONTROL SYSTEM (SCATS) AND BE IP ADDRESSABLE. 21. APPROVED CCTV SURVEILLANCE CAMERAS SHALL BE IP ADDRESSABLE WITH BUILT-IN ENCODER. 22. LFE OR EQUIVALENT TRAFFIC SIGNAL HEADS ARE REQUIRED WITH INCANDESCENT LOOK L.E.D. MODULES AND ALUMINUM BACKPLATES WITH A 2" RETROREFLECTIVE TAPE BORDER. 23. PEDESTRIAN SIGNAL HEADS SHALL BE LED (ITE STANDARD) PEDESTRIAN AND COUNTDOWN (16"X 18" TYPE W/OVERLAPPING FULLY POPULATED HAND AND MAN + COUNTDOWN) AND SHALL BE INSTALLED FOR ALL PEDESTRIAN SIGNAL HEADS. 24. MOMENTARY PUSHBUTTONS (PRESSURE SENSITIVE) SHALL BE INSTALLED FOR ALL PUSHBUTTONS. 25. GROUNDING SHALL BE 5 OHMS OR LESS. 26. CONNECT POWER SERVICE TO CABINET WITH 1 INCH RIGID CONDUIT AND RISER. 27. ALL D3'S (STREET NAME SIGNS ON MAST ARMS OR SPAN WIRE) SHALL BE FURNISHED AND INSTALLED BY THE SIGNAL CONTRACTOR. REFER TO SIGNING AND MARKING GENERAL NOTES FOR SPECIFICATIONS. 28. MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION. 29. THE SIGNAL CONTRACTOR IS RESPONSIBLE FOR RELOCATIONS OF ANY SIGNAL WIRES AND/OR FIBER OPTIC CABLES ASSOCIATED WITH THIS PROJECT, INCLUDING POWER SERVICE TO SIGNAL EQUIPMENT. THIS ALSO INCLUDES RELOCATIONS OF EXISTING SIGNAL FACILITIES TO ALLOW OTHER UTILITY COMPANIES TO RELOCATE THEIR FACILITIES. 30. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY CONDITIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. 31. THE CONTRACTOR SHALL ADHERE TO THE CALL BEFORE YOU DIG LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT GEORGIA811 BEFORE BEGINNING CONSTRUCTION. 32. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES. 33. THE CONTRACTOR IS REQUIRED TO MAINTAIN FULL ACTUATED OPERATION OF ALL PEDESTRIAN SIGNALS AT THIS INTERSECTION DURING ALL PHASES OF CONSTRUCTION. THIS INCLUDES ACCESS TO ALL EXISTING PEDESTRIAN PUSH BUTTONS AND CROSSWALKS. INSTALLATION OF TEMPORARY POLES OR PEDESTALS, PEDESTRIAN SIGNAL DISPLAYS, PUSH BUTTONS, CONDUIT, OR WIRING MAY BE REQUIRED. 34. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE TECHNICIAN WITH AN IMSA LEVEL II CERTIFICATION AT ANY TIME THE CONTRACTOR IS PRESENT ON THE JOB SITE. 35. APPROXIMATE LOCATIONS OF DETECTION (RADAR or VIDEO) ARE SHOWN ON THE PLANS. THE FINAL LOCATION OF ALL DETECTION (RADAR or VIDEO) MUST BE APPROVED BY THE SIGNAL INSPECTOR. RELOCATION OF UNAPPROVED DETECTION UNITS SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE. 36. ALL MICROWAVE RADAR DETECTION UNITS SHALL BE GROUNDED TO THE POLE WITH A SEPARATE WIRE. GEORGIA811 Utilities Protection Center, Inc Know where below. Call before you dig.  <table><tr><th colspan="3">REVISION DATES</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table><table><tr><th colspan="4">SIGNAL PLANS</th></tr><tr><td colspan="4">TRAFFIC SIGNALS: FYA UPGRADE</td></tr><tr><td>CHECKED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>BACKCHECKED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>CORRECTED:</td><td></td><td>DATE:</td><td></td></tr><tr><td>VERIFIED:</td><td></td><td>DATE:</td><td></td></tr></table> DRAWING No. 27-0000 10/23/2015GPLMREVISED 08/10/16								REVISION DATES																								SIGNAL PLANS				TRAFFIC SIGNALS: FYA UPGRADE				CHECKED:		DATE:		BACKCHECKED:		DATE:		CORRECTED:		DATE:		VERIFIED:		DATE:	
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PEDESTRIAN
LED SIGNAL HEADS

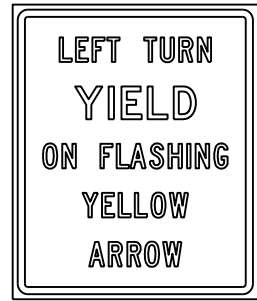


LED SIGNAL HEADS WITH
RETRO-REFLECTIVE BACK PLATES



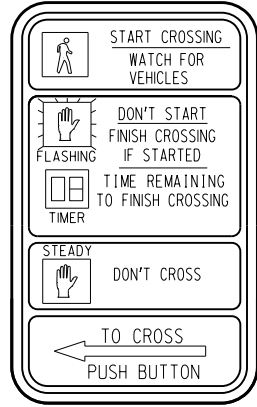
NOTE:
ADJUST EXISTING OVERHEAD STREET NAME SIGNS AND/OR CAMERAS AS REQUIRED.

REGULATORY SIGNS

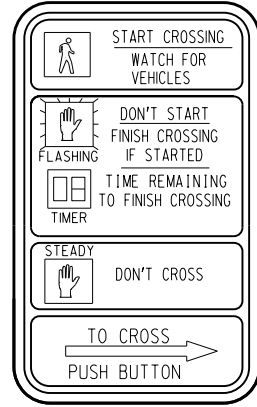


30" X 36"

PEDESTRIAN SIGNS



9" X 15"



9" X 15"

OVERHEAD STREET NAME SIGNS

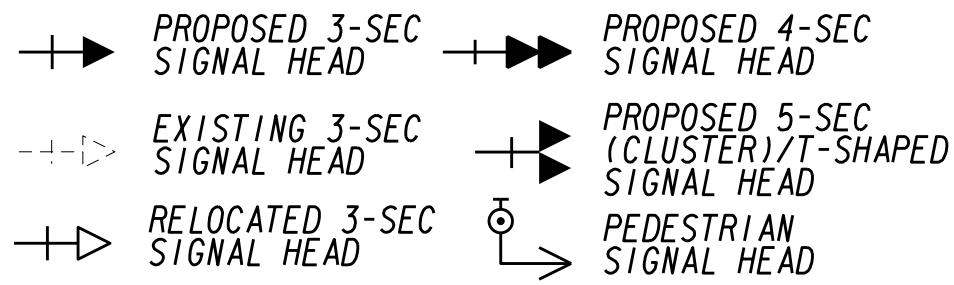
Hicks Rd

D3-1(*1)

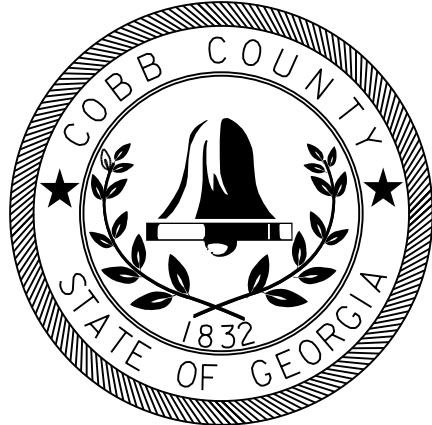
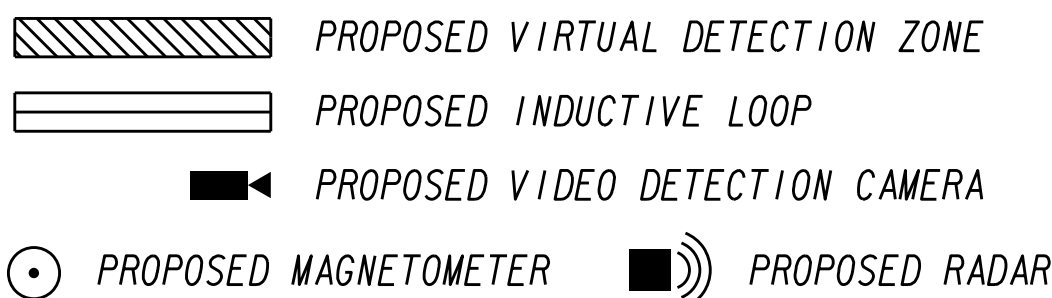
Concord Rd

D3-1(*2)

SIGNAL LEGEND



DETECTION LEGEND



REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS

HICKS RD @ CONCORD RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

COBB COUNTY DEPARTMENT OF TRANSPORTATION

HICKS ROAD AT CONCORD ROAD

DETAILED ESTIMATE

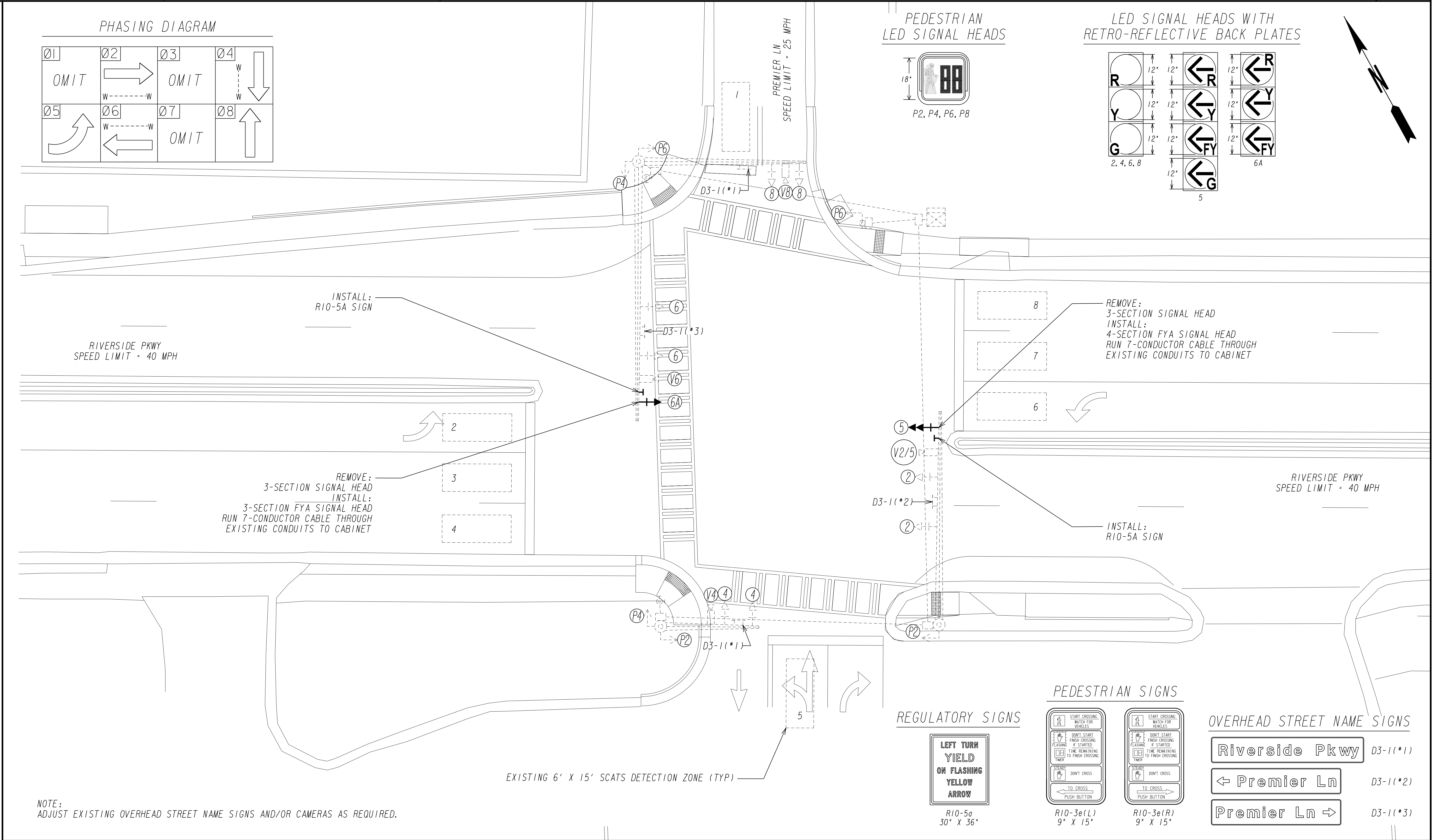
LIST OF MATERIALS	UNIT	QTY
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	1
4-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	1
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	1
BACKPLATE FOR ONE-WAY, 4-SECTION,12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	1
HARDWARE FOR SPAN WIRE MOUNTING	EA	2
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	1
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1	LS	1

332 CABINET INPUT ASSIGNMENTS																
UPPER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD			VIDEO				VIDEO						DC ISO	DC ISO	DC ISO
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
		FUNCTION		1					3					Ø2 PED	Ø6 PED	FLASH
		FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
		FUNCTION		5					7					Ø4 PED	Ø8 PED	STOP TIME
		FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C
LOWER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD			VIDEO			VIDEO	VIDEO								
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
		FUNCTION		2				V7	4							
		FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
		FUNCTION		6					8							
		FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.



SIGNAL LEGEND

→ PROPOSED 3-SEC SIGNAL HEAD	→ PROPOSED 4-SEC SIGNAL HEAD
→ EXISTING 3-SEC SIGNAL HEAD	→ PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD
→ RELOCATED 3-SEC SIGNAL HEAD	⊙ PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

▨ PROPOSED VIRTUAL DETECTION ZONE	▬ PROPOSED INDUCTIVE LOOP
◀ PROPOSED VIDEO DETECTION CAMERA	⊙ PROPOSED MAGNETOMETER
■ PROPOSED RADAR	

COBB COUNTY
STATE OF GEORGIA

SCALE IN FEET

0 10 20 40

REVISION DATES

SIGNAL PLANS

RIVERSIDE PKWY @ PREMIER LN

CHECKED:	DATE:	DRAWING No. 27-0003
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

COBB COUNTY DEPARTMENT OF TRANSPORTATION

RIVERSIDE PARKWAY AT PREMIER LANE

DETAILED ESTIMATE

LIST OF MATERIALS	UNIT	QTY
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	1
4-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	1
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	1
BACKPLATE FOR ONE-WAY, 4-SECTION,12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	1
HARDWARE FOR MAST ARM MOUNTING	EA	2
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	2
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

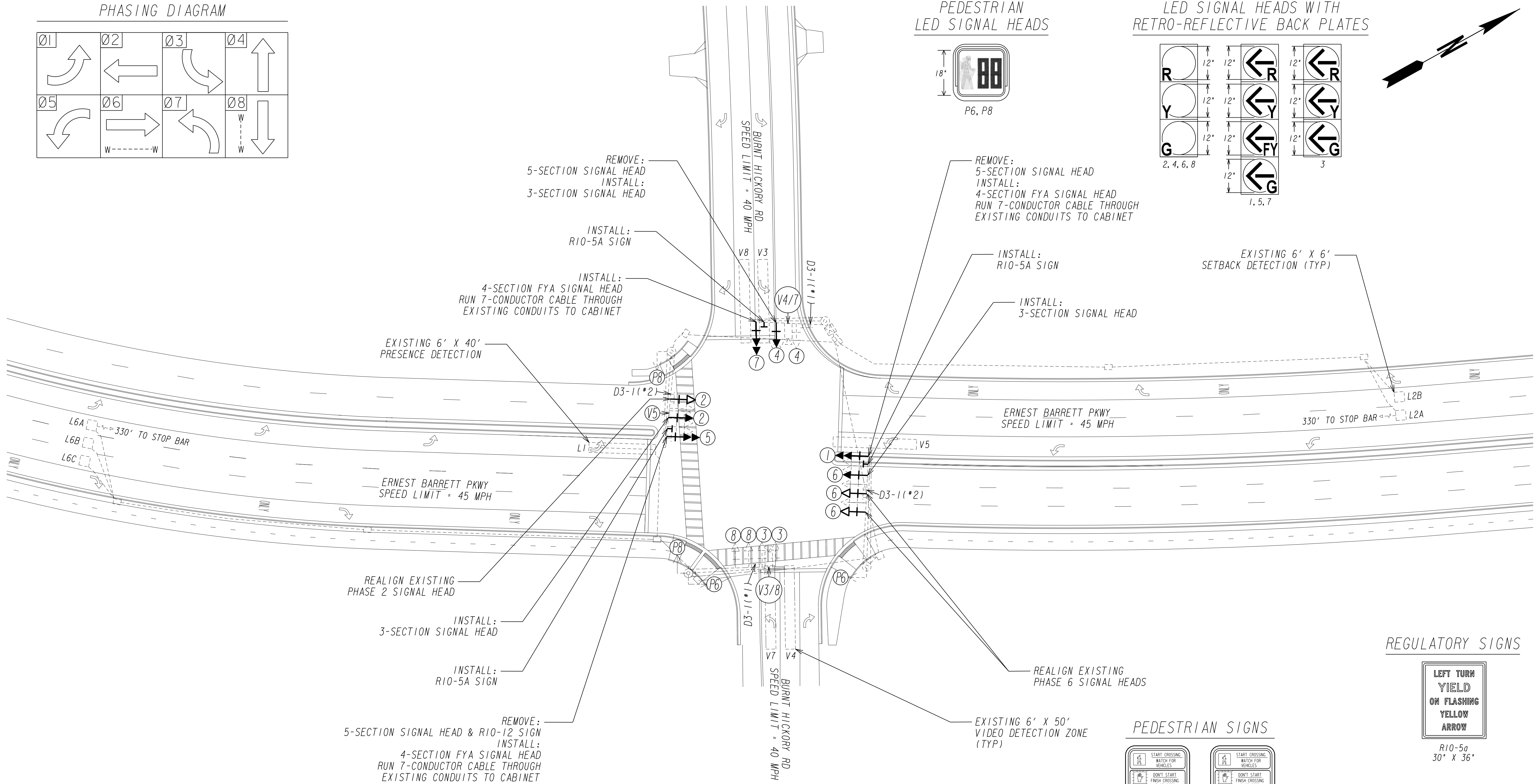
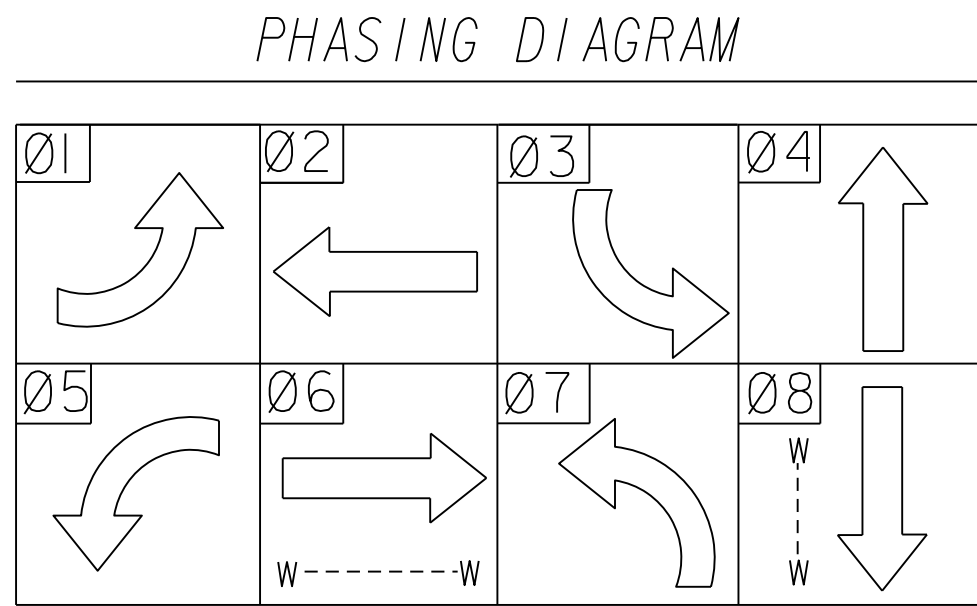
PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 2	LS	1

332 CABINET INPUT ASSIGNMENTS																
UPPER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD			VIDEO				VIDEO						DC ISO	DC ISO	DC ISO
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
		FUNCTION		V2				V4						Ø2 PED	Ø6 PED	FLASH
		FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
		FUNCTION												Ø4 PED	Ø8 PED	STOP TIME
		FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

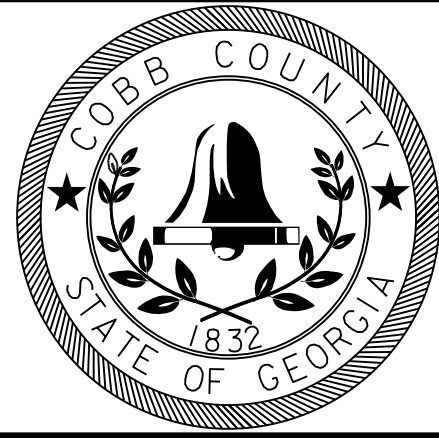
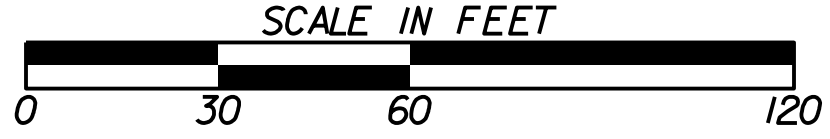
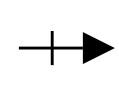
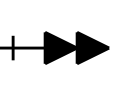
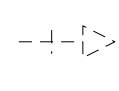
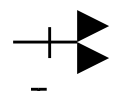
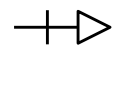
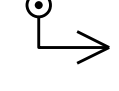
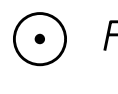
LOWER INPUT FILE		SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
		CARD		VIDEO			VIDEO	VIDEO								
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
		FUNCTION		V6			V7	V8A								
		FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
		FUNCTION						V8B								
		FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.



NOTE:
ADJUST EXISTING OVERHEAD STREET NAME SIGNS AND/OR CAMERAS AS REQUIRED.

SIGNAL LEGEND		DETECTION LEGEND				REVISION DATES		SIGNAL PLANS			
	PROPOSED 3-SEC SIGNAL HEAD		PROPOSED 4-SEC SIGNAL HEAD					ERNEST BARRETT PKWY @ BURNT HICKORY RD			
	EXISTING 3-SEC SIGNAL HEAD		PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD					CHECKED:		DATE:	
	RELOCATED 3-SEC SIGNAL HEAD		PEDESTRIAN SIGNAL HEAD					BACKCHECKED:		DATE:	
					PROPOSED MAGNETOMETER			CORRECTED:		DATE:	
					PROPOSED RADAR			VERIFIED:		DATE:	
											DRAWING No. 27-0005

COBB COUNTY DEPARTMENT OF TRANSPORTATION

ERNEST BARRETT PARKWAY AT BURNT HICKORY ROAD

DETAILED ESTIMATE

LIST OF MATERIALS	UNIT	QTY
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	2
4-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	3
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	2
BACKPLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	3
HARDWARE FOR MAST ARM MOUNTING	EA	5
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	3
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

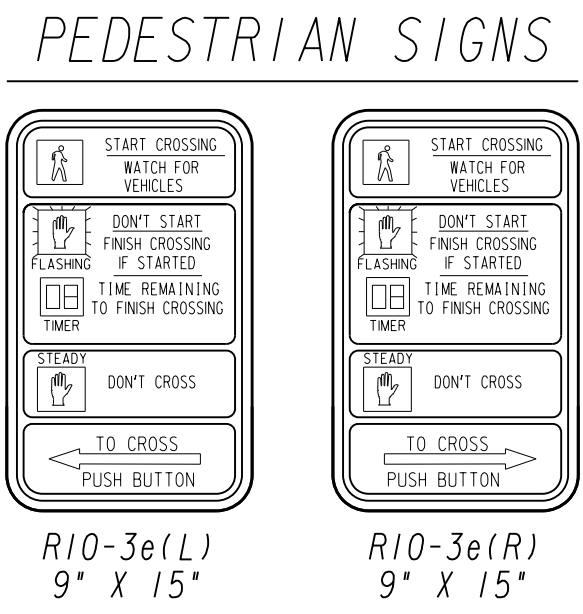
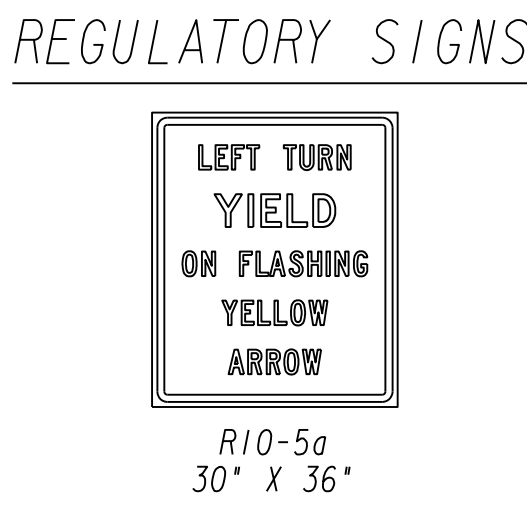
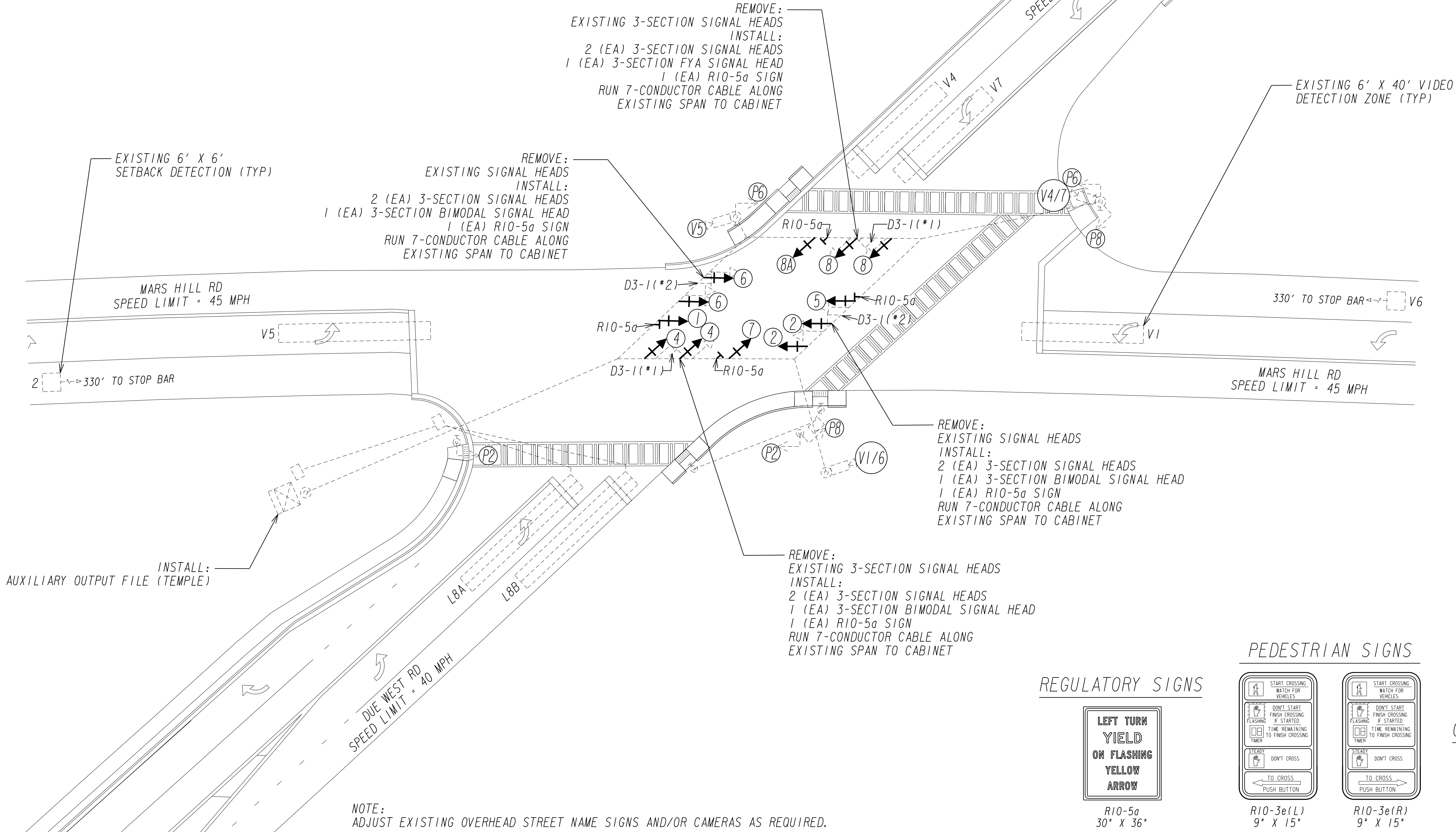
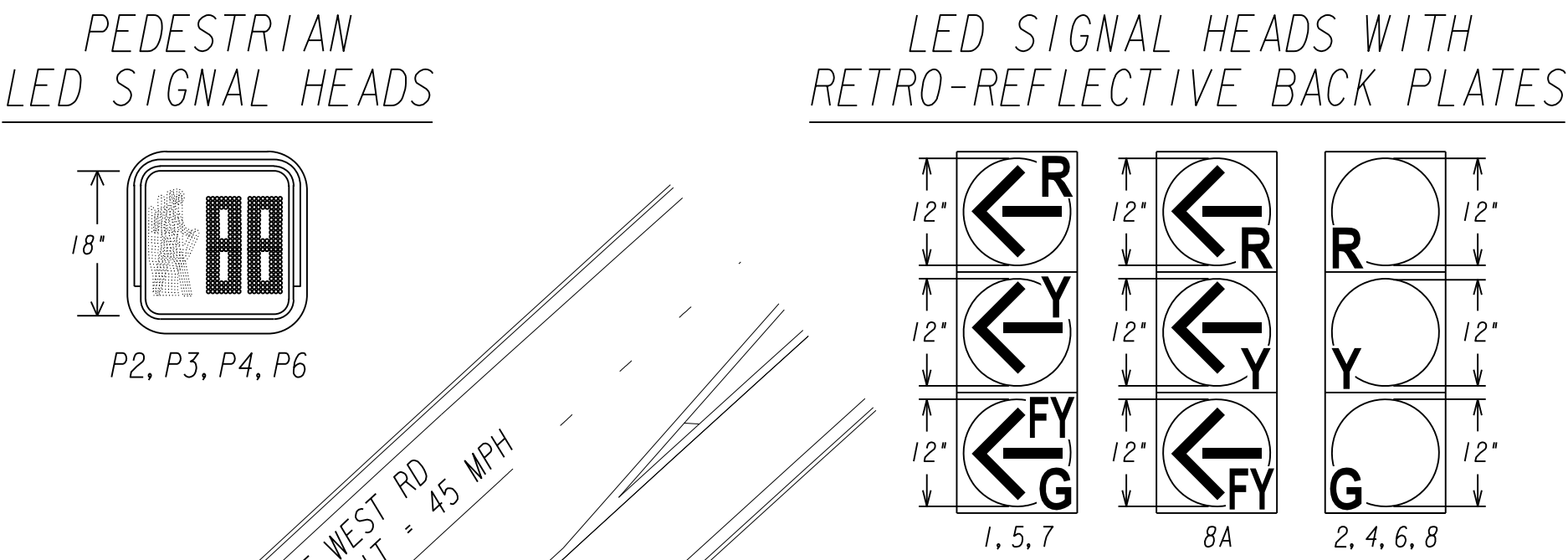
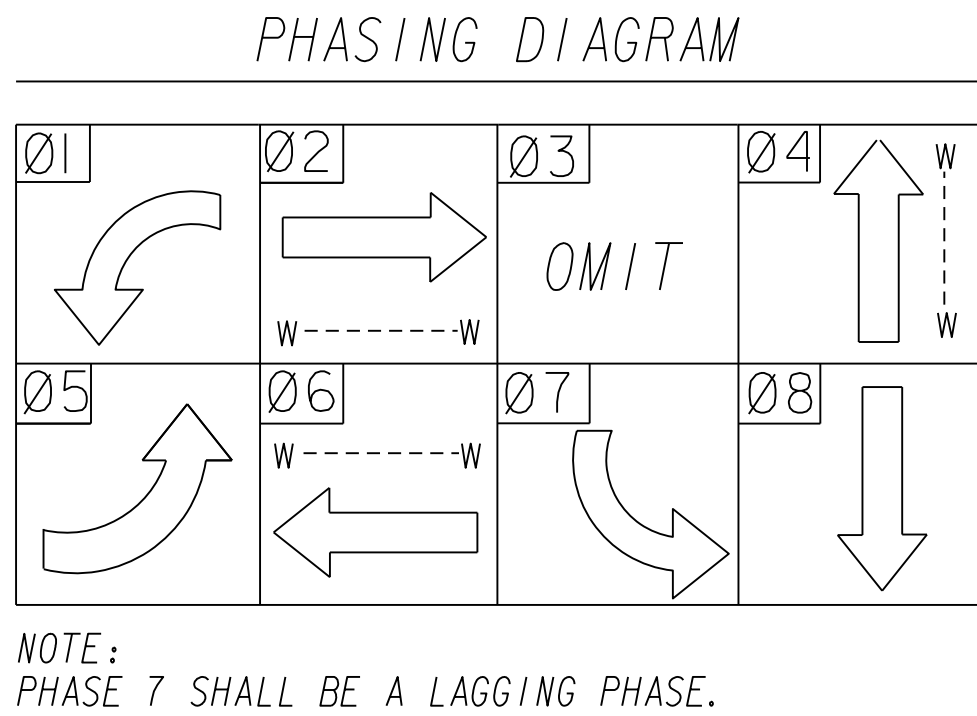
PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 3	LS	1

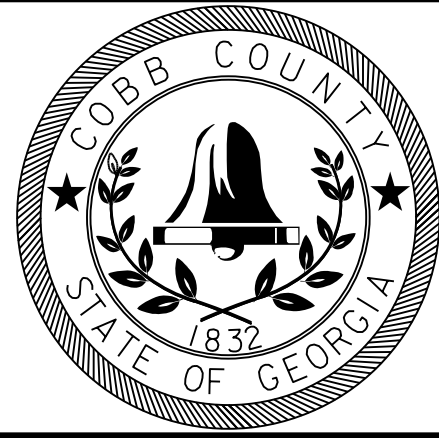
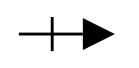
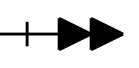
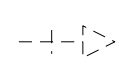
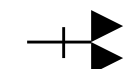
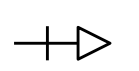
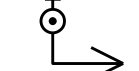
332 CABINET INPUT ASSIGNMENTS																
UPPER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2-CH	2-CH			VIDEO	VIDEO						DC ISO	DC ISO	DC ISO
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
		FUNCTION	L1	L2A			V3	V4						Ø2 PED	Ø6 PED	FLASH
		FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
		FUNCTION		L2B										Ø4 PED	Ø8 PED	STOP TIME
		FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

LOWER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO	2-CH	2-CH		VIDEO	VIDEO								
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
		FUNCTION	V5	L6A	L6C		V7	V8								
		FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
		FUNCTION		L6B												
		FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.



SIGNAL LEGEND		DETECTION LEGEND			SCALE IN FEET 0 20 40 80	REVISION DATES		SIGNAL PLANS			
	PROPOSED 3-SEC SIGNAL HEAD		PROPOSED 4-SEC SIGNAL HEAD					MARS HILL RD @ DUE WEST RD			
	EXISTING 3-SEC SIGNAL HEAD		PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD								
	RELOCATED 3-SEC SIGNAL HEAD		PEDESTRIAN SIGNAL HEAD					CHECKED:		DATE:	
								BACKCHECKED:		DATE:	
								CORRECTED:		DATE:	
								VERIFIED:		DATE:	

COBB COUNTY DEPARTMENT OF TRANSPORTATION

MARS HILL ROAD AT DUE WEST ROAD

DETAILED ESTIMATE

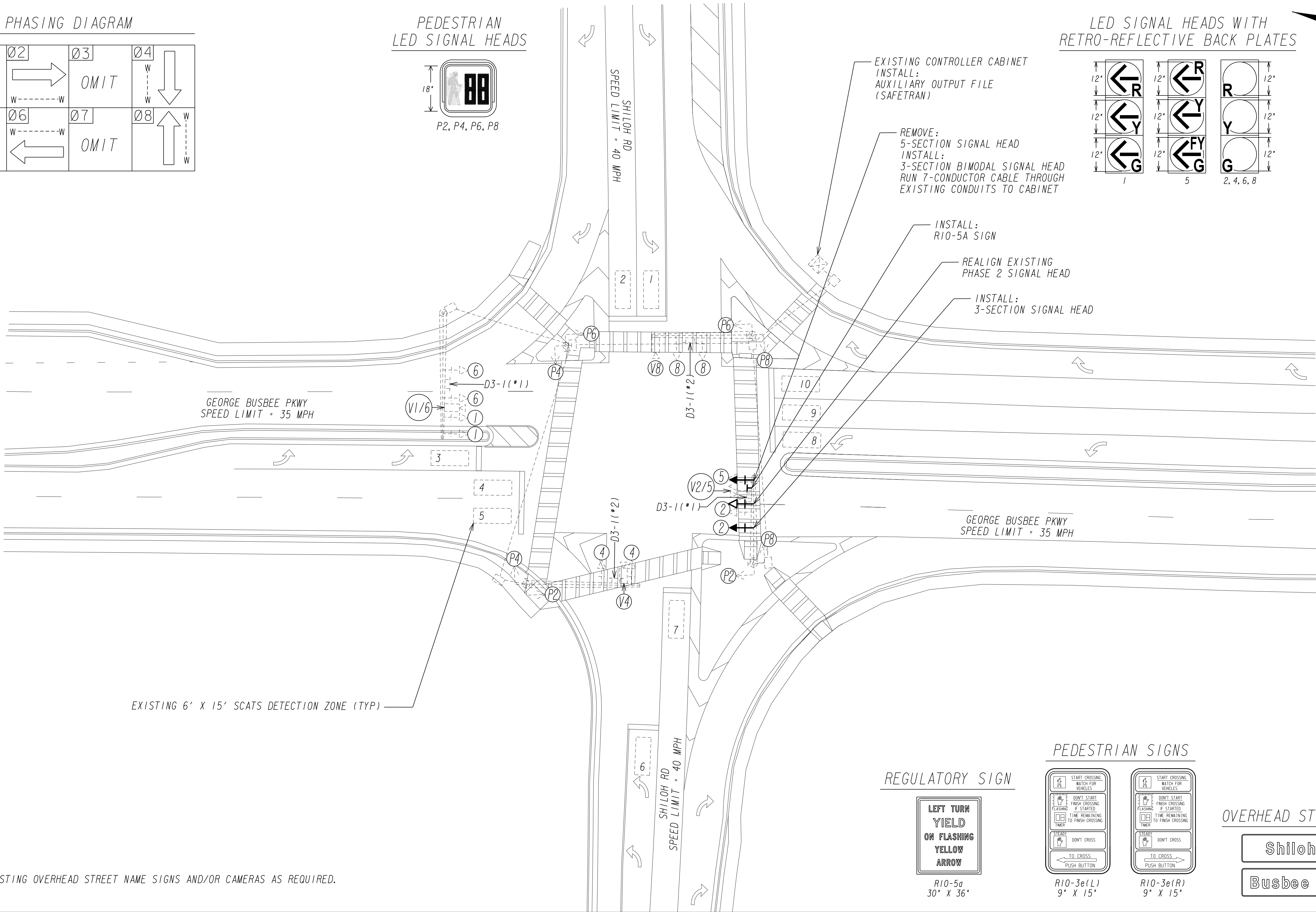
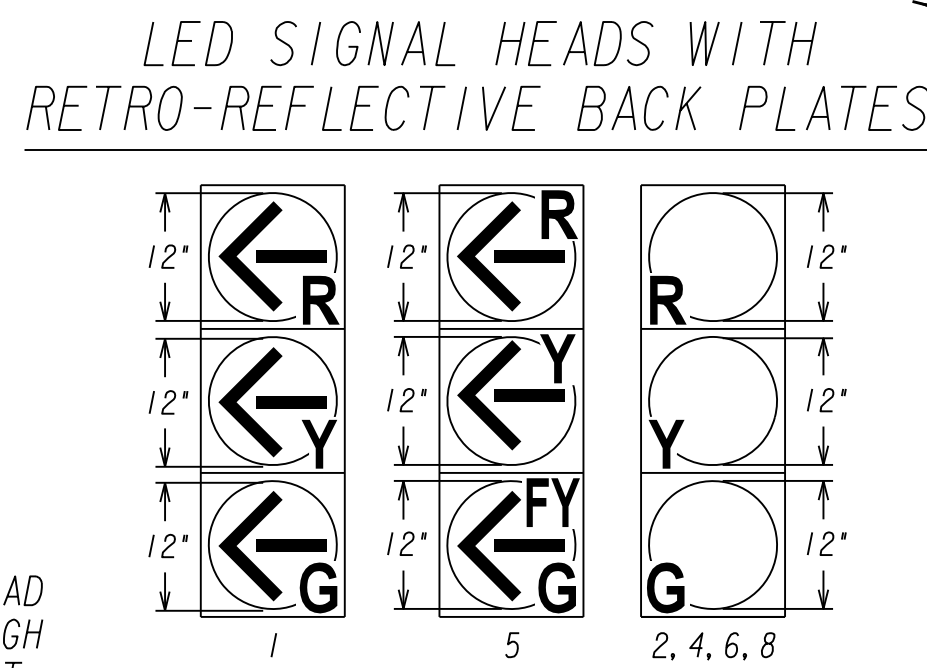
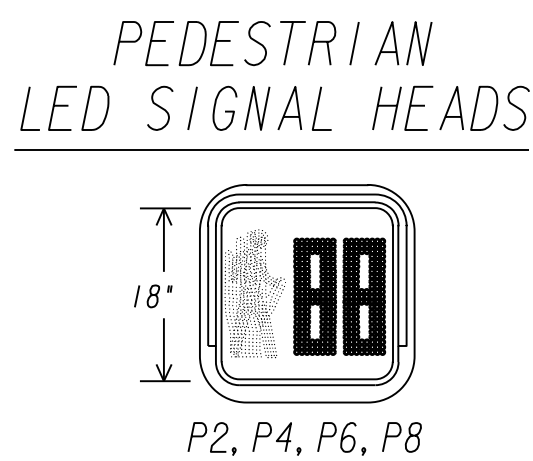
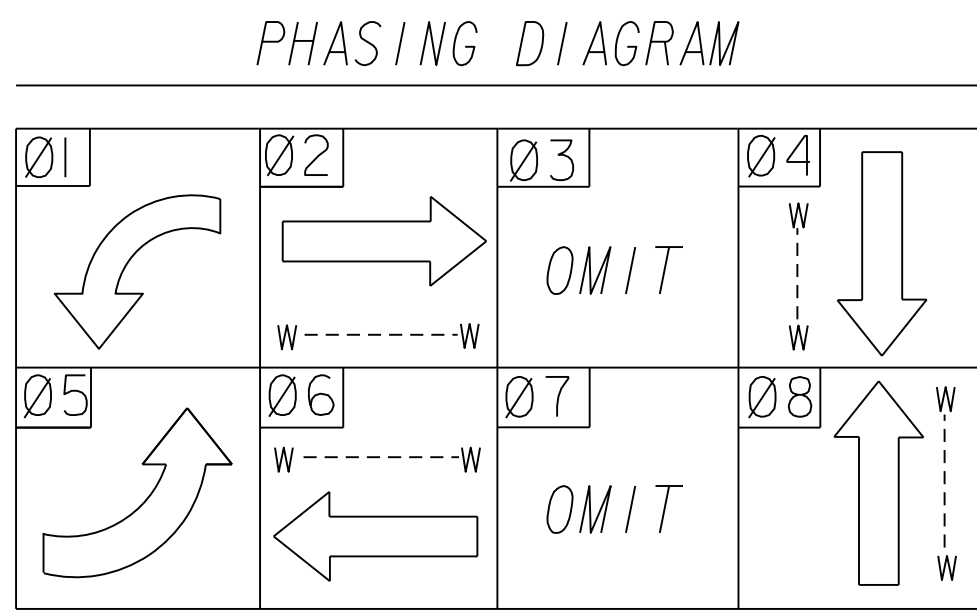
LIST OF MATERIALS	UNIT	QTY
CONTROLLER CABINET ASSEMBLIES		
M. AUXILIARY OUTPUT FILE	EA	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ BLACK FRONT, PLASTIC	EA	9
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	9
HARDWARE FOR MAST ARM MOUNTING	EA	9
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	4
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 4	LS	1

332 CABINET INPUT ASSIGNMENTS																
UPPER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO	2-CH				VIDEO						DC ISO	DC ISO	DC ISO
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
		FUNCTION	V1	L2				V4						Ø2 PED	Ø6 PED	FLASH
		FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
		FUNCTION												Ø4 PED	Ø8 PED	STOP TIME
		FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C
LOWER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO	VIDEO			VIDEO	2-CH								
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
		FUNCTION	V5	V6			V7	L8A								
		FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
		FUNCTION						L8B								
		FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

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NOTE:
ADJUST EXISTING OVERHEAD STREET NAME SIGNS AND/OR CAMERAS AS REQUIRED.

SIGNAL LEGEND		DETECTION LEGEND				REVISION DATES		SIGNAL PLANS			
	PROPOSED 3-SEC SIGNAL HEAD		PROPOSED 4-SEC SIGNAL HEAD					GEORGE BUSBEE PKWY @ SHILOH RD			
	EXISTING 3-SEC SIGNAL HEAD		PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD					CHECKED:		DATE:	DRAWING No.
	RELOCATED 3-SEC SIGNAL HEAD		PROPOSED VIDEO DETECTION CAMERA					BACKCHECKED:		DATE:	27-0009
	PEDESTRIAN SIGNAL HEAD		PROPOSED RADAR					CORRECTED:		DATE:	
								VERIFIED:		DATE:	

COBB COUNTY DEPARTMENT OF TRANSPORTATION

GEORGE BUSBEE PARKWAY AT SHILOH ROAD

DETAILED ESTIMATE

LIST OF MATERIALS	UNIT	QTY
CONTROLLER CABINET ASSEMBLIES		
M. AUXILIARY OUTPUT FILE	EA	1
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	2
4-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	1
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	2
BACKPLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	1
HARDWARE FOR MAST ARM MOUNTING	EA	2
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	1
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

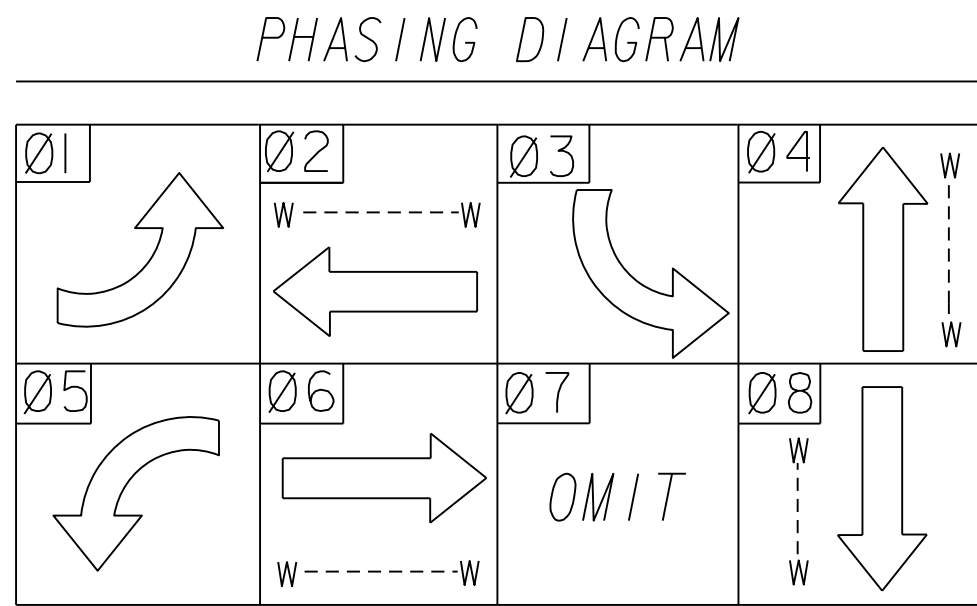
PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 5	LS	1

332 CABINET INPUT ASSIGNMENTS															
UPPER INPUT FILE	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO		VIDEO		VIDEO						DC ISO	DC ISO	DC ISO
	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
	FUNCTION		1		9		3						Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		5				7						Ø4 PED	Ø8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

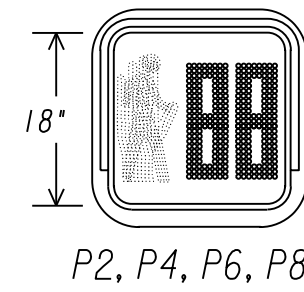
LOWER INPUT FILE	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO		VIDEO		VIDEO								
	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		2		10		4								
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		6				8								
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.

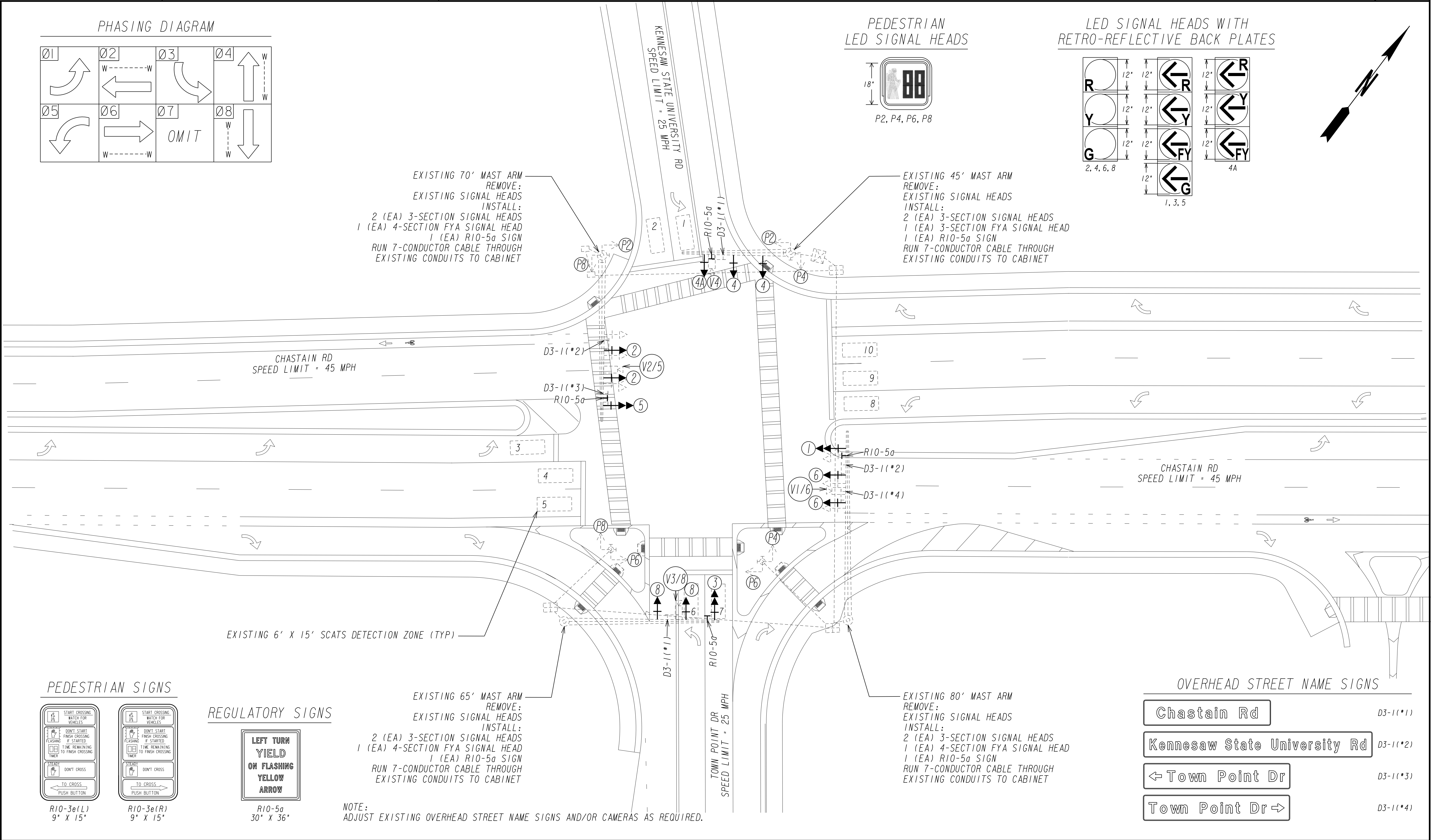
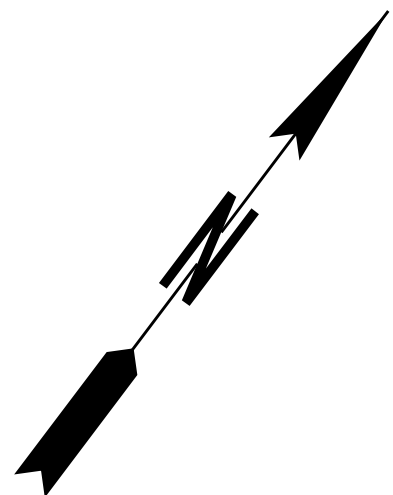
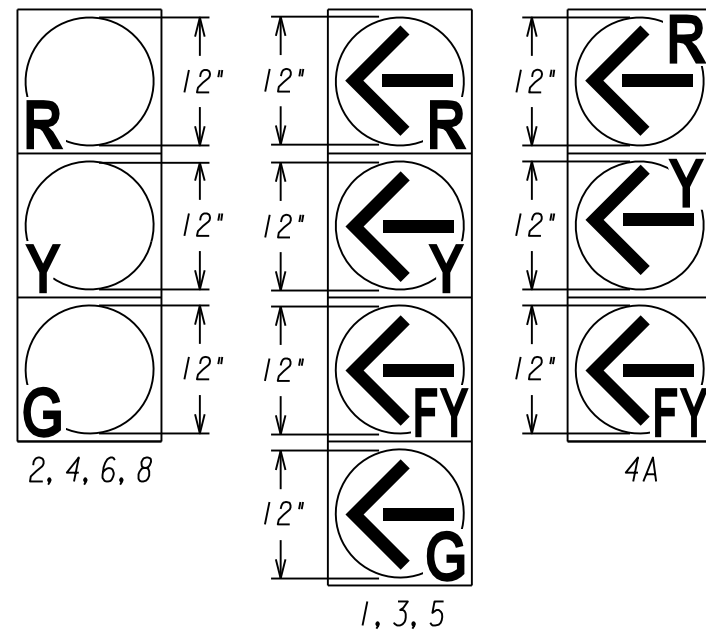


PEDESTRIAN
LED SIGNAL HEADS



P2, P4, P6, P8

LED SIGNAL HEADS WITH
RETRO-REFLECTIVE BACK PLATES



SIGNAL LEGEND		DETECTION LEGEND			SCALE IN FEET	REVISION DATES			SIGNAL PLANS			
	PROPOSED 3-SEC SIGNAL HEAD		PROPOSED 4-SEC SIGNAL HEAD						CHASTAIN RD @ TOWN POINT DR / KENNESAW STATE UNIVERSITY RD			
	EXISTING 3-SEC SIGNAL HEAD		PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD						CHECKED:		DATE:	
	RELOCATED 3-SEC SIGNAL HEAD		PEDESTRIAN SIGNAL HEAD		PROPOSED MAGNETOMETER				BACKCHECKED:		DATE:	
					PROPOSED RADAR				CORRECTED:		DATE:	
									VERIFIED:		DATE:	
												DRAWING No. 27-0011

COBB COUNTY DEPARTMENT OF TRANSPORTATION

CHASTAIN ROAD AT TOWN POINT DRIVE/KENNESAW STATE UNIVERSITY ROAD

DETAILED ESTIMATE

LIST OF MATERIALS	UNIT	QTY
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" LED SIGNAL HEAD, BLACK HOUSING W/ BLACK FRONT, PLASTIC	EA	9
4-SECTION, 12" LED SIGNAL HEAD, BLACK HOUSING W/ BLACK FRONT, PLASTIC	EA	3
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	9
BACKPLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP	EA	3
HARDWARE FOR MAST ARM MOUNTING	EA	11
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	3
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

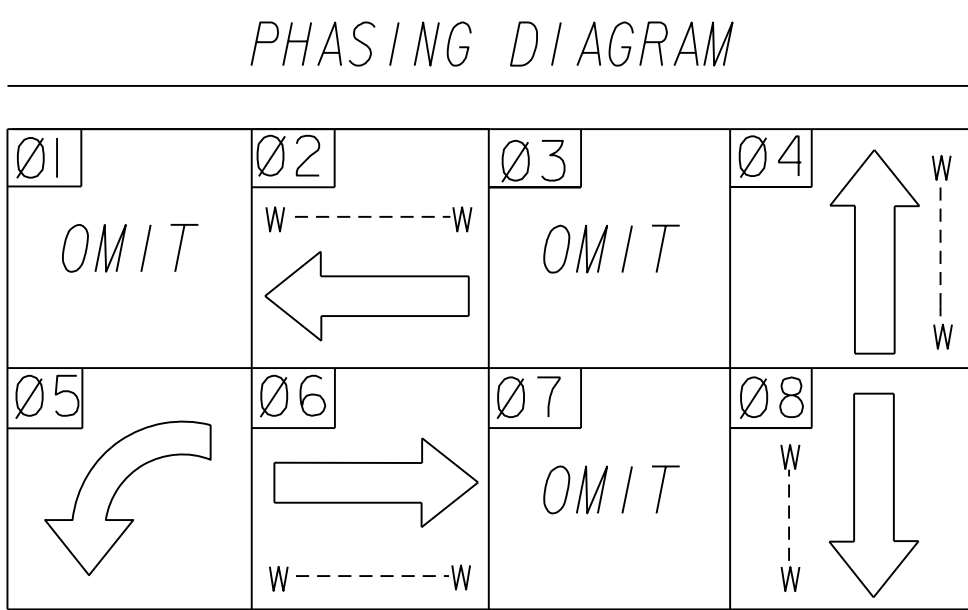
PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 6	LS	1

332 CABINET INPUT ASSIGNMENTS															
UPPER INPUT FILE	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO		VIDEO		VIDEO						DC ISO	DC ISO	DC ISO
	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
	FUNCTION		1		9		3						Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		5				7						Ø4 PED	Ø8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

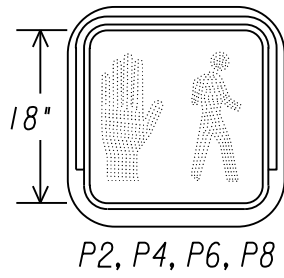
LOWER INPUT FILE	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		VIDEO		VIDEO		VIDEO								
	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		2		10		4								
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		6				8								
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE MATERIALS AND QUANTITIES REQUIRED FOR THE COMPLETE AND ACCEPTED INSTALLATION.

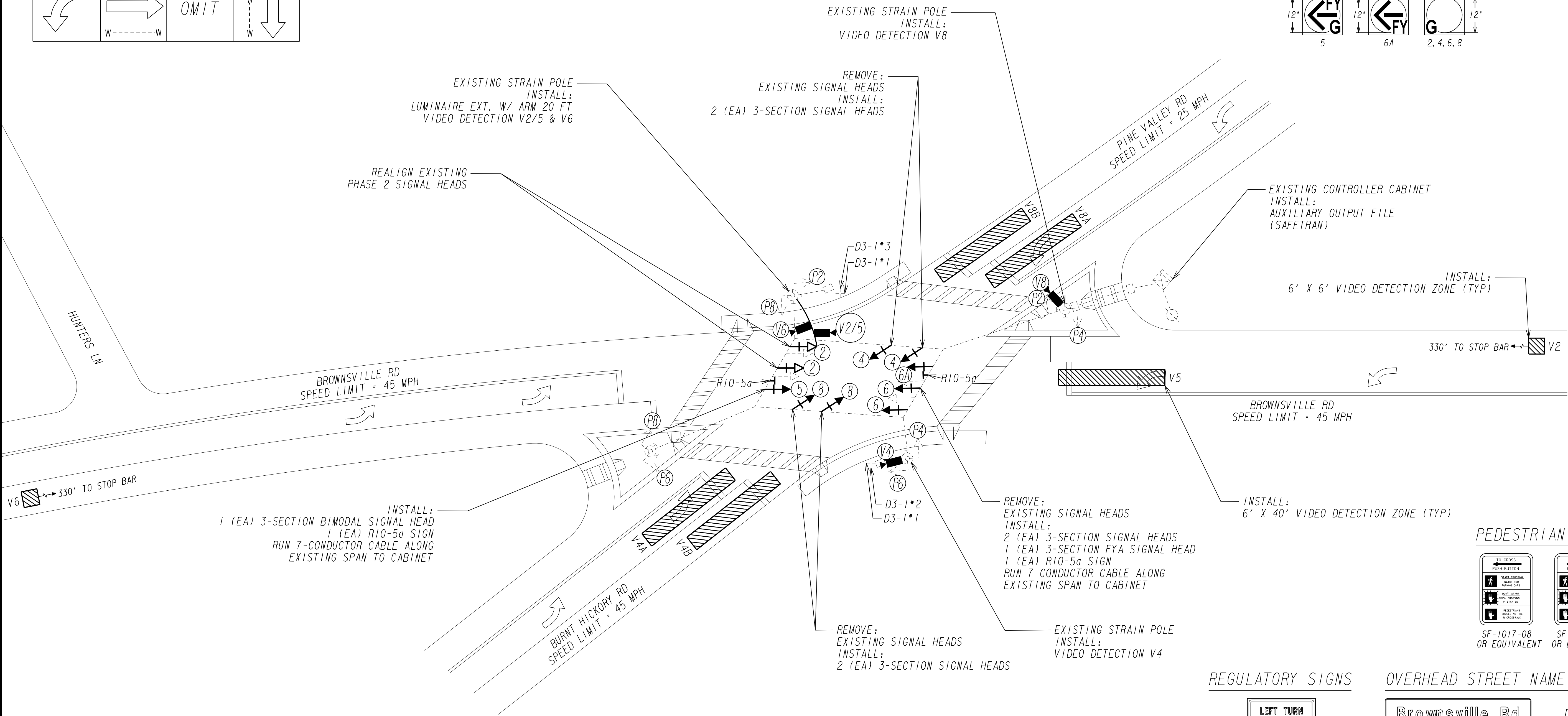
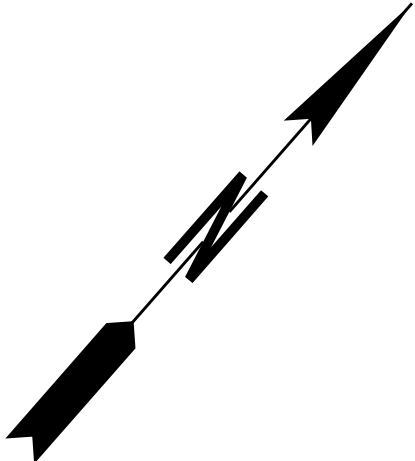
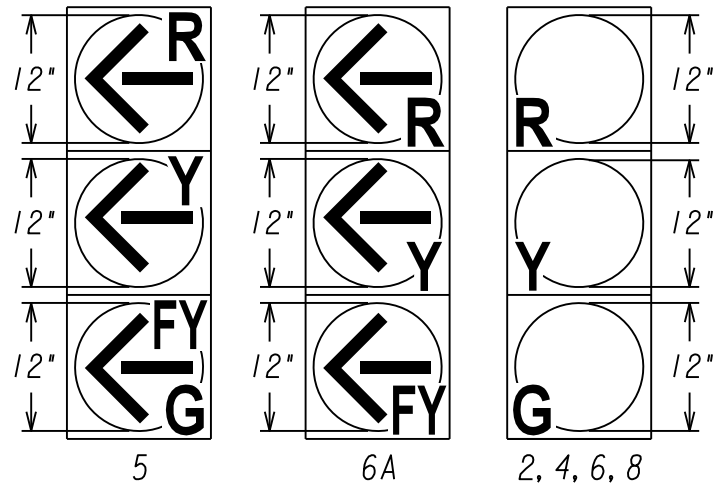


PEDESTRIAN
LED SIGNAL HEADS

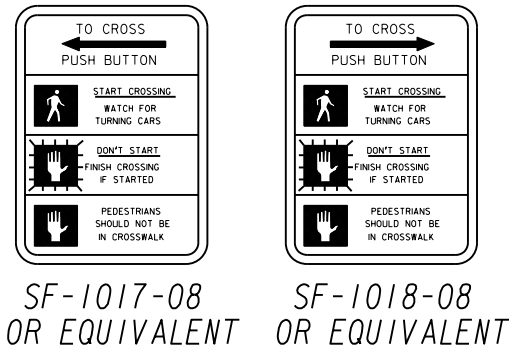


P2, P4, P6, P8

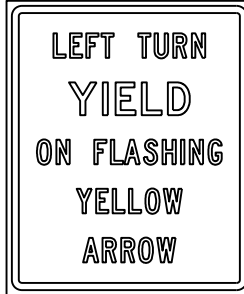
LED SIGNAL HEADS WITH
RETRO-REFLECTIVE BACK PLATES



PEDESTRIAN SIGNS



REGULATORY SIGNS



R10-5a
30" X 36"

OVERHEAD STREET NAME SIGNS

Brownsville Rd	D3-1(*1)
Burnt Hickory Rd	D3-1(*2)
Pine Valley Rd	D3-1(*3)

SIGNAL LEGEND ➔ PROPOSED 3-SEC SIGNAL HEAD ➔➔ PROPOSED 4-SEC SIGNAL HEAD ➔➔ EXISTING 3-SEC SIGNAL HEAD ➔➔ PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD ➔➔ RELOCATED 3-SEC SIGNAL HEAD Ⓢ PEDESTRIAN SIGNAL HEAD	DETECTION LEGEND ▨ PROPOSED VIRTUAL DETECTION ZONE ▬ PROPOSED INDUCTIVE LOOP ◼ PROPOSED VIDEO DETECTION CAMERA ⊙ PROPOSED MAGNETOMETER ◼ PROPOSED RADAR		SCALE IN FEET 0 20 40 80	REVISION DATES <table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>																			SIGNAL PLANS BROWNSVILLE RD @ BURNT HICKORY RD / PINE VALLEY RD <table><tr><td>CHECKED:</td><td>DATE:</td><td rowspan="4">DRAWING No. 27-0013</td></tr><tr><td>BACKCHECKED:</td><td>DATE:</td></tr><tr><td>CORRECTED:</td><td>DATE:</td></tr><tr><td>VERIFIED:</td><td>DATE:</td></tr></table>	CHECKED:	DATE:	DRAWING No. 27-0013	BACKCHECKED:	DATE:	CORRECTED:	DATE:	VERIFIED:	DATE:
CHECKED:	DATE:	DRAWING No. 27-0013																														
BACKCHECKED:	DATE:																															
CORRECTED:	DATE:																															
VERIFIED:	DATE:																															

COBB COUNTY DEPARTMENT OF TRANSPORTATION

BROWNSVILLE ROAD AT BURNT HICKORY ROAD/PINE VALLEY ROAD

DETAILED ESTIMATE

LIST OF MATERIALS	UNIT	QTY
CONTROLLER CABINET ASSEMBLIES		
M. AUXILIARY OUTPUT FILE	EA	1
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC	EA	8
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROREFLECTIVE STRIP	EA	8
HARDWARE FOR SPAN WIRE MOUNTING	EA	8
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN	EA	2
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION	LS	1

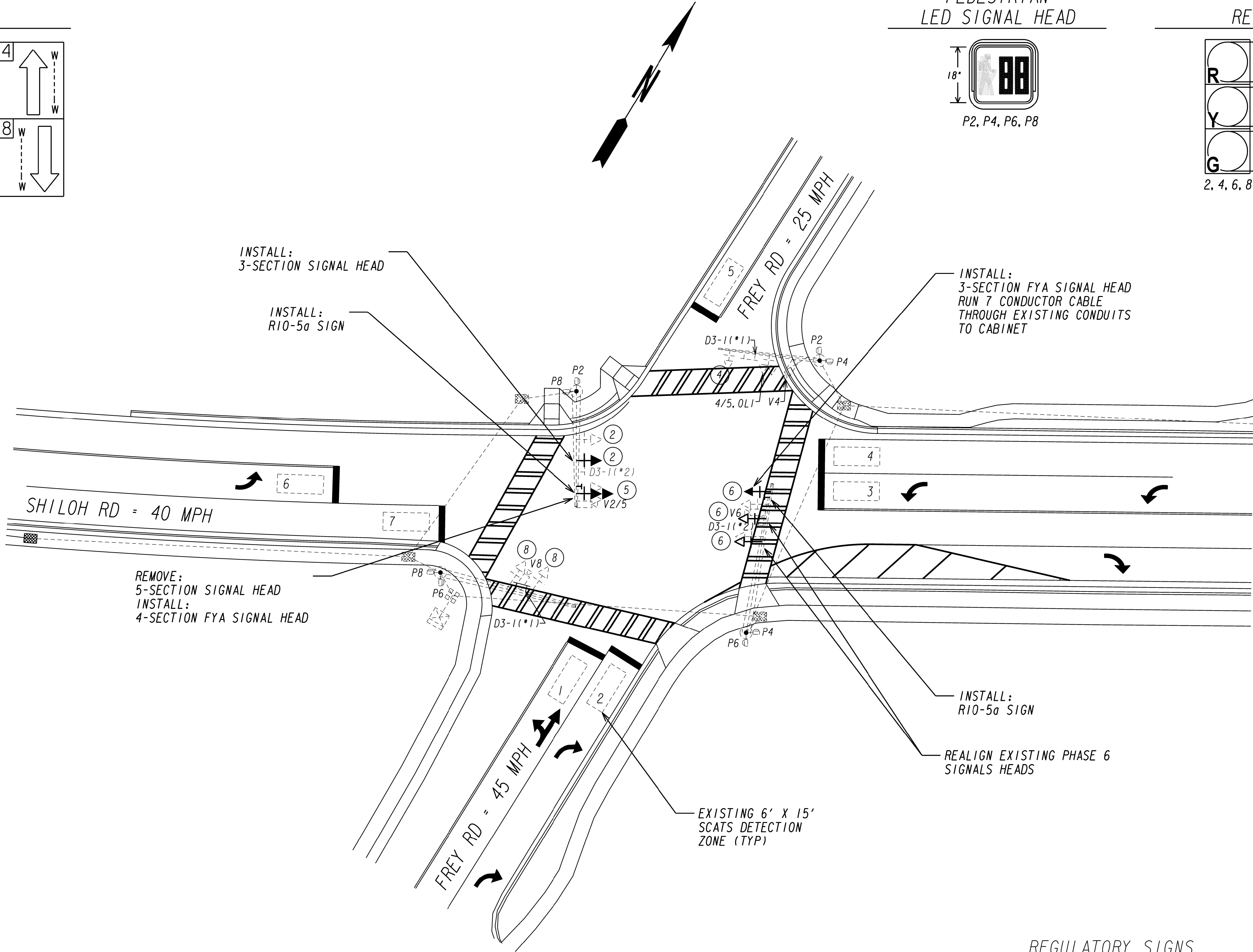
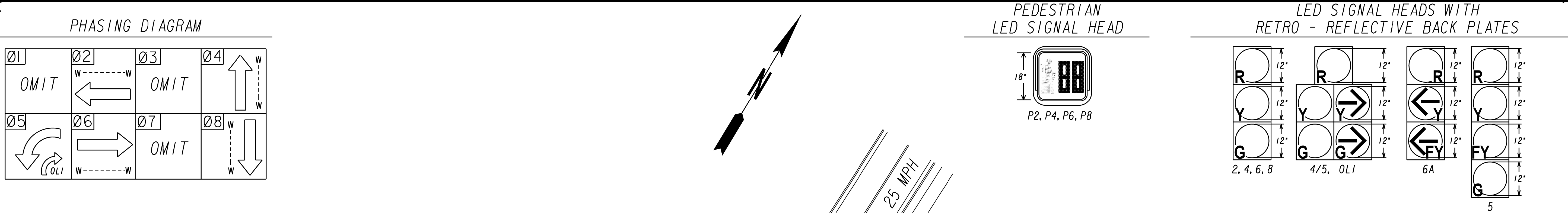
PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 7	LS	1
647-5395C	LUMINAIRE EXT. W/ARM 20 FT.	EA	1
937-6050	INT VIDEO DETECTION SYSTEM ASSY TP A	EA	4
937-8030	TESTING - INTERSECTION VIDEO DETECTION	LS	1

332 CABINET INPUT ASSIGNMENTS																
UPPER INPUT FILE	SLOT		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	TYPE		DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD			VIDEO				VIDEO						DC ISO	DC ISO	DC ISO
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
		FUNCTION		V2				V4A						Ø2 PED	Ø6 PED	FLASH
		FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
		FUNCTION						V4B						Ø4 PED	Ø8 PED	STOP TIME
FIELD TERM		TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C	

LOWER INPUT FILE		SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
		CARD	VIDEO	VIDEO				VIDEO								
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
		FUNCTION	V5	V6				V8A								
		FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
		FUNCTION						V8B								
		FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

NOTES:

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SIGNAL LEGEND

➔ PROPOSED 3-SEC SIGNAL HEAD	➔➔ PROPOSED 4-SEC SIGNAL HEAD
➔➔ EXISTING 3-SEC SIGNAL HEAD	➔➔ PROPOSED 5-SEC (CLUSTER)/T-SHAPED SIGNAL HEAD
➔➔ RELOCATED 3-SEC SIGNAL HEAD	⊙ PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

▨ PROPOSED VIRTUAL DETECTION ZONE	▬ PROPOSED INDUCTIVE LOOP
◼ PROPOSED VIDEO DETECTION CAMERA	⊙ PROPOSED MAGNETOMETER
◼ PROPOSED RADAR	

SCALE IN FEET

0 20 40 80

REVISION DATES

SIGNAL PLANS

SHILOH ROAD AT FREY RD

CHECKED:	DATE:	DRAWING No. 27-0015
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

DATE\$\$\$
\$USER\$

TIME\$\$\$
\$PRF\$
\$PENTABLE\$

\$DGN\$

Proj. No.
B2559

COBB COUNTY DEPARTMENT OF TRANSPORTATION
SHILOH ROAD AT FREY RD
DETAILED ESTIMATE

LIST OF MATERIALS		UNIT	QTY
SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT		REEL	1
3-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/YELLOW FRONT, PLASTIC		EA	2
4-SECTION, 12" LED SIGNAL HEAD, YELLOW HOUSING W/ YELLOW FRONT, PLASTIC		EA	1
BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP		EA	2
BACKPLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD, ALUMINUM, BLACK W/ RETROFLECTIVE STRIP		EA	1
HARDWARE FOR MAST ARM MOUNTING		EA	3
R10-5A, LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN		EA	2
MISCELLANEOUS MATERIALS TO COMPLETE INSTALLATION		LS	1

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION			
PAY ITEM	DESCRIPTION	UNIT	QTY
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 8	LS	1

332 CABINET INPUT ASSIGNMENTS																
UPPER INPUT FILE	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	
	CARD		VIDEO		VIDEO		VIDEO						DC ISO	DC ISO	DC ISO	
	CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		60	67	68	81
	FUNCTION		1					3						Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10				TB8 4,6	TB8 7,9	N/C
	CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
FUNCTION		5					7						Ø4 PED	Ø8 PED	STOP TIME	
FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12				TB8 5,6	TB8 8,9	N/C	
LOWER INPUT FILE	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	
	CARD		VIDEO		VIDEO		VIDEO									
	CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		2		10			4								
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10				TB9 4,6	TB9 7,9	TB9 10,12
	CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
FUNCTION		6														
FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12				TB9 5,6	TB9 8,9	TB9 11,12	

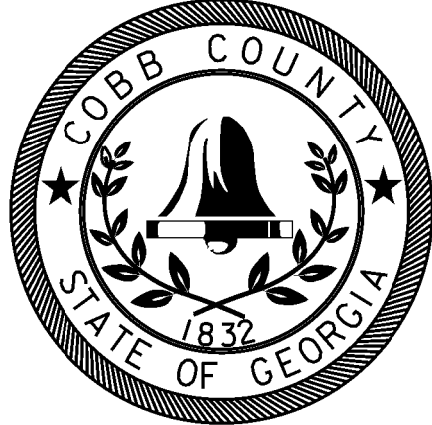
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10/23/2015

GPLN

REF 108
REF 109
REF 110
REF 111
REF 112
REF 113
REF 114



REVISION DATES		

SIGNAL PLANS			
SHILOH ROAD AT FREY ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
27-0016