



## SPLOST Project Initiation Package

1. **Date:** May 13, 2025

2. **Project Name and Requesting Department:**

The Department of Transportation will coordinate with the Purchasing Department to facilitate the installation of a new traffic signal at the Valley Brook Road and Stephenson Road intersection. Funding for this project is available through SPLOST I, Category 1D – *Transportation Enhancements*. The total estimated cost for this project is \$700,000.00.

David Pelton, Deputy Director, Transportation David Pelton Digitally signed by David Pelton  
Date: 2025.05.14 15:42:59 -04'00' Date \_\_\_\_\_  
 Richard W. Lemke, Director, Department of Public Works Richard W. Lemke Digitally signed by Richard W.  
Lemke  
Date: 2025.05.14 15:49:52 -04'00' Date \_\_\_\_\_

3. **Prepared by SPLOST Program Management Team:**

Ernest Slaughter, SPLOST Program Management Coordinator  
 Ledia King, SPLOST Program Manager

4. **Need and Purpose:**

The unsignalized intersection of Valley Brook Road and Stephenson Road requires the installation of a new traffic signal to improve traffic flow and enhance public safety.

5. **Requested Services and Work Scope:**

a. **Type of Work Being Requested.** Services shall include personnel and materials necessary to provide the goods or services that comply with specifications as authorized by the County.

<b>X</b>	a.	<b>Construction</b>
	b.	Renovation/Restorations/Repairs/System Upgrades
	c.	Engineering
	d.	Architectural/Building Renovation
	e.	Mechanical/Electrical/Plumbing
	f.	Transportation Study
	g.	Others



b. **Brief Description of Proposed Project:** A traffic signal for Valley Brook Road and Stephenson Road

**Pre-Construction Services When Required for Various Project Tasks:**

- Use of current on-call firm for services: N/A
- Right of way or land acquisition required: N/A
- Environmental and permits required: N/A
- Utility design or coordination: N/A

6. **Proposed Budget** (Including supporting details, detailed preliminary or final cost estimates, and SPLOST category)

Category	Estimated Cost	SPLOST Fund	Other Funds
Design	N/A	N/A	N/A
Right of Way/Land Acquisition	N/A	N/A	N/A
Utilities (Reimbursable Costs)	N/A	N/A	N/A
Environmental Mitigation	N/A	N/A	N/A
Purchasing & Installation of Equipment	\$700,000	104783-80651-541401-4.1.15.602006	N/A
Procurement of Goods	N/A	N/A	N/A
<b>Total Estimated Cost</b>	<b>\$700,000</b>		

Approval Capital and Grants: \_\_\_\_\_

Date 5.14.25

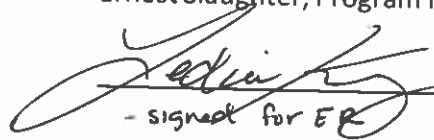


**7. Expected Start and Finish Dates:**

Category	Anticipated Start	Anticipated Completion
Design	N/A	N/A
Right of Way/Land Acquisition	N/A	N/A
Utilities (Reimbursable Costs)	N/A	N/A
Environmental Mitigation	N/A	N/A
Construction (Communication Equipment)	June 2025	June 2026

**8. Program Manager Action:**

- a. Date PM received: May 13, 2025
- b. PM Recommendation: Proceed to Purchasing for Action  
Ernest Slaughter, Program Management Coordinator

 Date 5/27/25  
- signed for ER

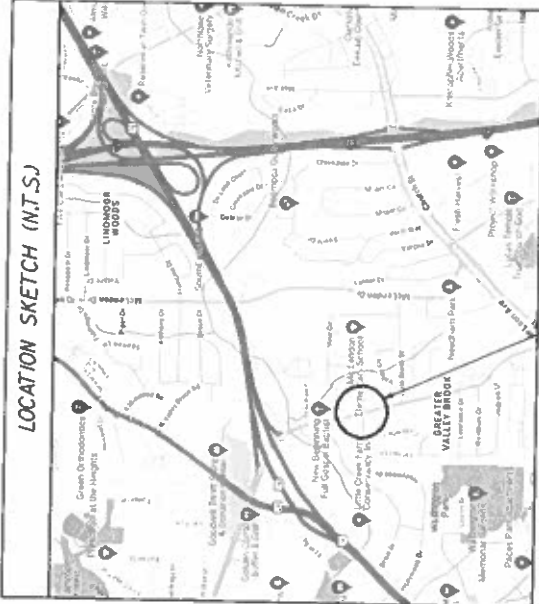
**9. SEC Action**

- a. SEC Action

Approve:  Date 5/27/25  
 Disapprove: \_\_\_\_\_  
 Defer: \_\_\_\_\_

# DEKALB COUNTY PUBLIC WORKS DEPARTMENT

## TRAFFIC SIGNAL IMPROVEMENTS VALLEY BROOK RD STEPHENSON RD



VALLEY BROOK RD @ HOLLYWOOD DR  
 DECATUR  
 LATITUDE: 33.804352  
 LONGITUDE: -84.267436



STEPHENSON RD @ ALFORD RD  
 STONE MOUNTAIN  
 LATITUDE: 33.774066  
 LONGITUDE: -84.118828

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK. ALL REVISED APPLICABLE REVISIONS TO THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK ARE SHOWN IN RED. ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2024 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.



DESIGN

PLANS PREPARED BY:

RECOMMENDED FOR ACCEPTANCE BY:

DEKALB COUNTY

DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY RELATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON SURVEYS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY TO VERIFY THE DATA. THE DEPARTMENT DOES NOT GUARANTEE, WARRANT, OR REPRESENT THE ACCURACY OF THE DATA SHOWN OR SHOWN IN ANY WAY. THE ENGINEER'S LIABILITY IS SPECIFICALLY DIRECTED TO THE DESIGN OF THE SPECIFICATIONS.

PLANS COMPLETED	DATE



THE DRAWINGS AS LISTED BELOW  
HAVE BEEN SIGNED AND SEALED BY  
ASHLYN MORGAN  
PE No. 0036142

**C AtkinsRealis**

1800 American Edge Parkway, NW  
Atlanta, GA 30328  
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20241101

- DRAWING No.
- 01-0001
- 01-0002
- 04-0001 - 04-0003
- 05-0001
- 27-0000
- 27-0001, 27-0005

- DRAWING DESCRIPTION
- COVER SHEET
- SIGNATURE SHEET
- GENERAL SUMMARY DRAWING
- SUMMARY OF QUANTITIES
- SIGNAL LEGEND
- SIGNAL PLANS

REVISION DATES

NO.	DATE	DESCRIPTION

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SIGNATURE SHEET

TRAFFIC SIGNALS IMPROVEMENTS

NO.	DATE	DESCRIPTION

01-0002

USA, Inc.  
1800 Buffalo Plains, NW  
Suite 100  
Lawrenceville, GA 30046  
Tel: 770.962.1289

DATE

DOWN

DRAWING NO.	DESCRIPTION	DRAWING NO.	DESCRIPTION
01-0001	COVER		
02-0002	TITLE SHEET		
03-0001	INDEX		
04-0001	REVISION SUMMARY		
05-0001	GENERAL NOTES		
06-0001	GENERAL NOTES		
27-0000	SIGNAL LEGEND		
27-0001 TO 27-0005	SIGNAL PLANS		
28-0001	SECTION CONTROL LEGEND AND SECTION SHEETS		
28-0002	SECTION CONTROL LEGEND AND SECTION SHEETS		
28-0003	SECTION CONTROL LEGEND AND SECTION SHEETS		
28-0004	SECTION CONTROL LEGEND AND SECTION SHEETS		
28-0005	SECTION CONTROL LEGEND AND SECTION SHEETS		
28-0006	SECTION CONTROL LEGEND AND SECTION SHEETS		
28-0007	SECTION CONTROL LEGEND AND SECTION SHEETS		



CREATED, BACKLOGGED, CORRECTED, WIP/REP.

DATE DATE  
DATE DATE

CHANGES

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DATE DATE  
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ISSUES: 10

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# GENERAL NOTES

1. ALL WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE CURRENT EDITION OF GEORGIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS.
2. NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT.
3. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, CURRENT EDITION AND THE NATIONAL ELECTRICAL SAFETY CODE, CURRENT EDITION.
4. THE CONTRACTOR SHALL REPAIR ALL EXISTING CONDUIT, CABLE, OR PIPE THAT IS DAMAGED BY THE INSTALLATION OF PROPOSED DEVICES WITHIN 24 HOURS. THERE IS NO SEPARATE PAYMENT FOR THIS WORK.
5. THE CONTRACTOR SHALL NOT STAGE OR STORE ANY EQUIPMENT WITHIN THE ENVIRONMENTALLY SENSITIVE AREA (ESA) BOUNDARIES.
6. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL, OR IN AN ENGINEERED FILL. SEE SECTION 20 OF GDOT'S STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.
7. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN THE GEORGIA SPECIFICATION 201 TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE CITY.
8. THE CONTRACTOR SHALL NOT WORK WITHIN FORESTED AREAS, NO CLEARING, CUTTING, OR TRIMMING OF ANY TREES IS PERMITTED WITHIN FORESTED AREAS. FORESTED AREAS FOR THESE PURPOSES SHOULD BE CONSIDERED ANY VEGETATED AREAS CONTAINING TREES, EXCEPT WHERE TREES OCCUR WITHIN LANDSCAPED AREAS, LANDSCAPED AREAS ARE ANY LAND AREAS WHERE THE NATURAL VEGETATION COMMUNITY HAS BEEN MODIFIED FOR AESTHETIC OR PRACTICAL PURPOSES, SUCH AS TO INSTALL PREFERRED PLANT MATERIALS, OR TO INCLUDE FREQUENTLY MOWED GRASSES AND/OR MULCH.
9. ALL WHEEL CHAIR RAMPS AND SIDEWALKS WITHIN THE INTERSECTION RADIUS ARE TO BE CONSTRUCTED USING 8 INCH CONCRETE WHEEL CHAIR RAMPS SHALL BE PAID FOR BY THE CURB CUT RAMP PAY ITEMS 44-7011, 44-7012, 44-7013, AND 44-7014.
10. PER GDOT CONSTRUCTION DETAIL A-4, NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE MARKINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL. FOR CUT THROUGH ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL, THE COST OF THE DETECTABLE MARKINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.
11. IF ANY CONTAMINATED SOIL IS ENCOUNTERED DURING THE CONSTRUCTION PROCESS IT WILL BE PLACED IN AN APPROVED CONTAINER FOR DISPOSAL IN A LICENSED HAZARDOUS WASTE LANDFILL.
12. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM DISTANCE FROM GAS LINES. CONTACT GAS COMPANY A MINIMUM OF SEVEN (7) DAYS PRIOR TO WORK ACTIVITIES.
13. ALL EXISTING PAVEMENT MARKINGS THAT ARE TO BE REMOVED SHALL BE REMOVED VIA SAND OR HYDRO BLASTING.
14. CONTRACTOR SHALL LOCATE ALL UTILITIES PER THE WHITE LINES SPECIFICATION PRIOR TO ALL WORK BEGINNING. ANY CONTACTS WITH UTILITIES AND DESIGN SHALL BE SUBMITTED TO THE COUNTY TRAFFIC ENGINEER WITHIN 48 HOURS OF DETERMINATION.



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GENERAL NOTES



## GENERAL NOTES TRAFFIC SIGNALS

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 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 FACES.
3. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET, DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET.
4. THE CONTRACTOR SHALL LOCATE UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES PRIOR TO ORDERING. AT THE DISCRETION OF THE ENGINEER, MINOR SHIFTS, UP TO A MAXIMUM OF 5 FEET, IN LOCATION OF NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGROUND OVERHEAD UTILITIES. CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. MINIMUM PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE SHOWN OFFICE OF UTILITIES FOR ALL "MAKE READY" WORK.
5. N/A
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TOWER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DEKALB COUNTY TRANSPORTATION/SIGNALS DIVISION PRIOR TO FINAL ACCEPTANCE.
8. WHEN REMOVED, EXISTING EQUIPMENT SHALL BE DELIVERED AND UNLOADED BY THE CONTRACTOR TO THE DEKALB COUNTY TRANSPORTATION/SIGNALS DIVISION. CONTACT THE COUNTY SIGNAL ENGINEER AT (404) 308-4112 TO COORDINATE DELIVERY AND ALLOW FOR A 48-HOUR ADVANCE NOTICE PRIOR TO DELIVERY.
9. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.
10. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE DOT SPECIFICATION.
11. THE INSTALLATIONS SHALL BE CAPABLE OF MONITORING OVER ETHERNET NETWORKS FROM CELLULAR ROUTERS, IS REQUIRED BY THE CONTRACTOR, NOTED PRIOR TO FINAL ACCEPTANCE.
12. POLE ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.
13. SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMP SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM.
14. THE CONTRACTOR SHALL REPLACE IN KIND AND SIZE, AT NO SEPARATE EXPENSE TO THE DEPARTMENT, ANY BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAILS, LANDSCAPING, GRASSINGS, UTILITY SERVICE LINES, STORM DRAIN PIPES, MASONRY WALLS AND PAVING THAT IS REMOVED, DAMAGED OR DESTROYED, DUE TO CONTRACTOR'S ACTIVITY.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES TO ENSURE COMPLIANCE TO ALL STATE AND FEDERAL LAWS AND GUIDELINES. THE COST SHALL BE CONSIDERED INCIDENTAL AND BE INCLUDED IN THE OVERALL BID PRICE. NO ADDITIONAL PAYMENTS SHALL BE MADE TO THE CONTRACTOR FOR EROSION CONTROL.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES TO ENSURE COMPLIANCE TO ALL STATE AND FEDERAL LAWS AND GUIDELINES. THE COST SHALL BE CONSIDERED INCIDENTAL AND BE INCLUDED IN THE OVERALL BID PRICE. NO ADDITIONAL PAYMENTS SHALL BE MADE TO THE CONTRACTOR FOR EROSION CONTROL.
17. ALL TRAFFIC MARKING, SYMBOLS OR STRIPING TO BE REMOVED AND/OR REPLACED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM.
18. THE CONTRACTOR SHALL RELOCATE ANY EXISTING EQUIPMENT NOT NOTED ON THE PLANS, AT NO ADDITIONAL COST TO THE COUNTY. RE-INSTALLATION SHALL COMPLY WITH THE CURRENT GDOT AND COUNTY SPECIFICATIONS. ANY NON-ESSENTIAL EQUIPMENT THAT IS NOT RELOCATED SHALL BE RETURNED TO THE COUNTY.
19. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH MODIFYING EXISTING AND ESTABLISHING NEW POWER AND COMMUNICATIONS SERVICES FOR TRAFFIC SIGNAL. VIDEO DETECTION SYSTEMS AND/OR CCTV CAMERAS ON THIS PROJECT. IF A UTILITY TRANSFORMER IS REQUIRED FOR TRAFFIC SIGNAL EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INCLUDE AS PART OF THEIR BID PRICE, FOR THAT TRAFFIC SIGNAL INSTALLATION IF THE RESPECTIVE UTILITY REQUIRES PAYMENT FOR INSTALLATION.
20. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MONTHLY POWER AND COMMUNICATION SERVICE TO THE TRAFFIC SIGNAL INSTALLATION AND SUPPORT DEVICES, UNTIL THE NEW TRAFFIC SIGNAL INSTALLATION HAS SATISFACTORILY COMPLETED A TEST PERIOD OF UNINTERRUPTED OPERATION, FOR 30 DAYS. UPON COMPLETION OF THE TEST PERIOD, THE CONTRACTOR WILL COMPLETE A TRANSFER OF UTILITY COST TO DEKALB COUNTY PUBLIC WORKS.

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**GENERAL NOTES**











# LEGEND TRAFFIC SIGNALS

## EXISTING

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION FACE
- 3 SECTION FACE W/BACKPLATE
- 4 SECTION FACE
- 4 SECTION FACE W/BACKPLATE
- 4/5 SECT JON (CLUSTER/T-SHAPE) FACE
- 4/5 SECT JON (CLUSTER/T-SHAPE) FACE W/BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL FACE
- CURB CUT RAMP, ALL TYPE
- PULLBOX, (TYPE TO BE CALLED OUT)
- DIPOLE INDUCTANCE LOOP (SIZE TO BE CALLED OUT)
- QUADRUPOLE INDUCTANCE LOOP (SIZE TO BE CALLED OUT)
- VIRTUAL DETECTION ZONE (RADAR, VIDEO, ETC.)
- CONDUIT, ALL TYPE
- RAILROAD CONTROLLER
- SIGN POST
- RADAR DETECTION DEVICE
- MAGNETOMETER DETECTION DEVICE
- VIDEO DETECTION DEVICE

## PROPOSED

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION FACE W/BACKPLATE
- 4 SECTION FACE W/BACKPLATE
- 4/5 SECTION (CLUSTER/T-SHAPE) FACE W/BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL FACE
- CURB CUT RAMP, (TYPE TO BE CALLED OUT)
- PULLBOX, (TYPE TO BE CALLED OUT)
- DIPOLE INDUCTANCE LOOP (SIZE TO BE CALLED OUT)
- QUADRUPOLE INDUCTANCE LOOP (SIZE TO BE CALLED OUT)
- VIRTUAL DETECTION ZONE (RADAR, VIDEO, ETC.)
- CONDUIT, (TYPE TO BE CALLED OUT)
- RAILROAD CONTROLLER CABINET
- SIGN POST
- RADAR DETECTION DEVICE
- MAGNETOMETER DETECTION DEVICE
- VIDEO DETECTION DEVICE

## RELOCATED

- 3 SECTION FACE W/BACKPLATE
- 4 SECTION FACE W/BACKPLATE
- 4/5 SECTION (CLUSTER/T-SHAPE) FACE W/BACKPLATE
- PEDESTAL POLE
- PED SIGNAL FACE

## AGENCY SPECIFIC

- PROPERTY LINE
- EXISTING R/W LINE
- REQUIRED R/W LINE
- CONSTRUCTION CUT LIMIT
- CONSTRUCTION FILL LIMIT
- EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES
- EASEMENT FOR CONSTR OF SLOPES
- EASEMENT FOR CONSTR OF DRIVES
- BEGIN LIMIT OF ACCESS
- END LIMIT OF ACCESS
- REQ'D LIMIT OF ACCESS
- REQ'D LIMIT OF ACCESS & R/W
- ORANGE BARRIER FENCE
- ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

THE PURPOSE OF THE TRAFFIC SIGNAL DETAILS IS TO SHOW TYPICAL INSTALL-

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SIGNAL PLANS



PHASING DIAGRAM

12.1J	W	031	VI
OMIT	W	OMIT	W
@J	OSJ	11J	OMIT
OMIT	W	W	W

2411451 and 6-00087603 Low-End Signal was replaced 6-2001 with C-400Q and 241009 09-

LED SIGNAL HEADS  
 WITH RETROREFLECTIVE BACKPLATES

8J. i  
 nn .a  
 OJ. P2, P4, P6, P8  
 2-165, 8

8 6 IN. TP 2 100 LPI

WITH  
 COUNTDOWN SIGNAL HEAD P2  
 SIGN. ROD SET  
 IT PER GOOD DETAIL

CURE 6 IN. TP 2 125 LPI  
 BORE  
 TAL TP 3 2 IN. 2 60 LPI 1120 LPI

TAL POLE WITH  
 TRAIL COUNTDOWN SIGNAL HEAD, P8  
 AND SIGN. ROD SET  
 IT PER GOOD DETAIL  
 SIDEWALK BIN 2 SY

EXHIBIT UNDER CURB 6 IN. TP 2 114 LPI

TRAIL SIGN. ROD SET

1 1/2 TYPE

2 1/2 60 LPI 1120 LPI

INSTALL  
 FROM  
 INSTAL

6 1/8 MICROWAVE DETECTION ZONE  
 267 FROM BACK OF STOPBAR TYPE

REVISION NOTES

TRAIL SIGN. ROD SET

D PEDESTRIAN COUNTDOWN SIGN, HEADS, 6'x4'  
- PUSHBUTTONS AND SIGNS, R/R 3E/11 & R/R 3D  
BILL BOX: TP REQUIRED CONDUIT PER GDOT DVA

P  
I  
NSTALL  
RAMP  
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PHASE 2 J. S. MICROWAVE DETECTION SYSTEM, NO. 1, TYPE 6  
PAGE 2, 3, 4, 5, 6 - FIELD SERVICE INSTRUCTIONS, NO. 1, TYPE 6  
NOTE:



TRAFFIC SIGNAL INSTALLATION NO. 1			
LOCATION: VALLEY BROOK RD @ HOLLYWOOD DR			
LIST OF MATERIALS			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
	SIGNAL CONTROLLER ASSEMBLIES	--	1
	A. CONTROLLER UNIT, TYPE 2070 LX	EA	1
	1. TYPE 2018 SIGNAL MONITOR	EA	1
	IGNAL CABINET ASSEMBLIES	--	1
	B. CABINET ASSEMBLY, MODEL 332L	EA	1
	D. SWITCH PACK (LOAD SWITCH)	EA	8
	E. DC ISOLATOR	EA	1
	PREFABRICATED CABINET BASE	EA	1
	SIGNAL CABLE (1/4 AWG); 7 CONDUCTOR, PER 1000 FT	EA	1
	3-SECTION, 12" SIGNAL HEAD LED -ALL BLACK HOUSING & FRONT, POLYCARBONATE BACKPLATE FOR 3-SECTION, 12" SIGNAL HEAD -ABS POLYCARBONATE, BLACK, W/ RETROREFLECTIVE STRIP	REEL	2
	1-SECTION, 18" x 18" PEDESTRIAN SIGNAL HEAD HOUSING, W/ 16" LED COUNTDOWN INSERT, FULL HAND/ARM OVERLAP 9" NUMBERS & 12" SYMBOLS	EA	8
	HARDWARE FOR MAST ARM MOUNTING	--	8
	HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	8
	HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	4
	PEDESTAL POLE, BLACK	EA	2
	PULL BOX, PB-2	EA	7
	PULL BOX, PB-3	EA	3
	CONDUIT, NONMETAL, TP 2, 1 IN	EA	3
	CONDUIT, NONMETAL, TP 2, 2 IN	LF	185
	MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LF	240
		LS	1

ELECTRICAL WIRING, CABLE, AND CONDUIT ITEMS			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
682-6233	CONDUIT, NONMETL, TP 3, 2 IN	LF	585
682-9950	DIRECTIONAL BORE, 5 IN	LF	120
682-9950	DIRECTIONAL BORE, 7 IN	LF	115

DETECTION SYSTEMS			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
937-4100	PEDESTRIAN DETECTION SYSTEM	LS	1
	A. DC ISOLATOR	EA	2
	B. 3-PAIR LOOP LEAD-IN CABLE, PER 1000 FT.	REEL	1
	C. PUSHBUTTON STATION ASSEMBLY WITH SIGN TYPE A	EA	8
	E. DUAL PUSHBUTTON STATION ADAPTER FOR 4" PEDESTAL POLE	EA	2
937-6010	MICROWAVE VEHICLE DETECTION SYSTEM	LS	1
	A. MVDS COMMUNICATIONS MODULE	EA	1
	B. MICROWAVE RADAR UNIT, TYPE B, W/ MOUNTING ASSEMBLY	EA	4
	C. CABLES	LF	900

MISCELLANEOUS ITEMS			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	39
441-7012	CURB CUT WHEELCHAIR RAMP, TYPE B	EA	3
441-7013	CURB CUT WHEELCHAIR RAMP, TYPE C	EA	1
441-7014	CURB CUT WHEELCHAIR RAMP, TYPE D	EA	1
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFLECTIVE SHEETING, TP 9	SF	30
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFLECTIVE SHEETING, TP 9	SF	55.75
636-2070	GALV STEEL POSTS, TYPE 7	LF	52
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	200
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	57
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	600

POLES			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
639-3004	STEEL STRAIN POLE, TP IV, W/ 50" MAST ARM, BLACK	EA	1

COMMUNICATIONS ITEMS			
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
926-2104	WIRELESS SYSTEM, TYPE 4	EA	1

NOTE  
LIST OF MATERIALS IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING QUANTITIES PRIOR TO ORDERING MATERIALS.

1800 Inverness Parkway  
Atlanta, GA 30328  
Amproxa  
Certificates of Authorization REC-00000  
Expiration date 06/30/2015

REVISION DATES

**SIGNAL PLANS**  
SIGNAL INSTALLATION NO. 1  
LIST OF MATERIALS  
VALLEY BROOK RD HOLLYWOOD DR  
DATE DATE DRAWING NO

ONE-CED.  
BACKCHECKED

1778111111



PHASING DIAGRAM

12.1J	OMIT	0.3	VI	W
@J	OMIT	Q\$J	fiJ	OMIT
				W

LED SIGNAL HEADS  
 WITH RETROREFLECTIVE BACKPLATES

STEEL STRAIN POLE  
 100

W/ FAN BEAM 24" 30" ANST  
 MICROWAVE DETECTION SYSTEM (MDS) AS PER  
 LED PEDESTAL COUNTDOWN SIGNAL HEAD  
 PUSHBUTTON AND SIGN, R/O  
 FULL BOX TP2  
 REQUIRED CONDUIT PER FOOT DETAIL  
 NOTE: MAXIMUM DIAMETER FOUNDATION IS

-INSTALL  
 CONDUIT, NONMETAL, TP 2, 2 IN, 2 @ 60 LF (120 LF)  
 -REMOVE EXISTING  
 SLIPING BEFORE STICP BAR

INSTALL  
 LED PEDESTAL POLE WITH  
 LED PEDESTAL COUNTDOWN SIGNAL HEAD, PB  
 PUSHBUTTON AND SIGN, R/O 3E/1 R1  
 FULL BOX, TP 2  
 REQUIRED CONDUIT PER FOOT DETAIL

REMOVE EXISTING  
 ARROW (INSTALL)

INSTALL  
 GE-11-4  
 INSTALL  
 R 0-5A

INSTALL  
 D WHITE THERMOPLASTIC (TP)

INSTALL  
 RAMP TYPE B

-INSTALL:  
 8 SOLID WHITE THERMOPLASTIC  
 -REMOVE:  
 TYPE 7 THERMOPLASTIC ARROW  
 -INSTALL:  
 TYPE 2 THERMOPLASTIC ARROW

INSTALL  
 0740' MICROWAVE DETECTION ZONE (TP)

2 6, 8  
 2A  
 2A, P6, P8

5 SUP WHITE THERMOPLASTIC (TP)  
 12' SEG., 6" GAP

CONDUIT.

CONDUIT.

CONDUIT

OVERHEAD STREET NAME SIGNS

[ Stephenson Rd ]  
 D-J/K-JJ

[ Alford Rd ]  
 D-J/K-KU

PEDESTRIAN SIGNS

P WHITE THERMOPLASTIC  
 2" GAP

SIGN AND POST

TALL:  
 SECTIONAL BORE  
 TP, NONMETAL, TP 2, 2 IN, 3 @ 60 LF (180 LF)  
 EXISTING  
 - SOLID WHITE  
 PAINT EXISTING

TALL:  
 CUT THROUGH WITH DIMS  
 EXISTING 1 SL AND

INSTALL:  
 D PEDESTAL POLE WITH  
 LED PEDESTAL COUNTDOWN SIGNAL HEADS, P4 & P8  
 BOTTOM TP 2  
 REQUIRED CONDUIT PER FOOT DETAIL

ATTENTION TYPES:

PHASES 2 & 8 - MICROWAVE DETECTION SYSTEM, RD. 2, TYPE B  
 PHASE 11 - RETROREFLECTIVE PEDESTAL SIGNAL HEADS

RED CONDUIT PER FOOT DETAIL

NOTES:  
 1. SIGNAL POLES, MOUNTING ARMS, SIGNAL HEADS AND PEDESTALS SHALL BE

R10-3E/1 U  
 9' X 15'  
 R10-3E/1 R  
 9' X 15'

REGULATORY SIGNS  
 BLUR  
 A, 17  
 COLO

2. 3/4" DIA. X 1/2" LONG X 1/2" WIDE X 1/2" HIGH

7. DIRECTIONAL BORE  
CONDUIT, NONMETAL TP 3, 2 IN, 3 @ 45 LF / 135 LF

STATE LAW  
YIELD  
ON FLASH  
YELLOW  
ARROW

6. LEFT TURN  
YIELD  
ON FLASH  
YELLOW  
ARROW

GENERAL PLAN

LEGEND

LEGEND

R560-5 RI-2 R10-1  
IB X24 36' X36' X36' 30' X4'

REVISION DATES

SIGNAL PLANS



**TRAFFIC SIGNAL INSTALLATION NO. 2**  
**LOCATION: STEPHENSON RD@ ALFORD RD**

**LIST OF MATERIALS**

SIGNAL CONTROLLER ASSEMBLIES	
A CONTROLLER UNIT, TYPE 2070 LX	
1. TYPE 2018 SIGNAL MONITOR	
SIGNAL CABINET ASSEMBLIES	
B CABINET ASSEMBLY, MODEL 332L	
D SWITCH PACK (LOAD SWITCH)	
E, DC ISOLATOR	
1. AUXILIARY OUTPUT FILE	
PREFABRICATED CABINET BASE	
SIGNAL CABLE (14 AWG), 7 CONDUCTOR, PER 1000 FT	
3-SECTION, 12" SIGNAL HEAD LED - ALL BLACK HOUSING & FRONT, POLYCARBONATE	
BACKPLATE FOR 3-SECTION, 12" SIGNAL HEAD - ABS POLYCARBONATE, BLACK W/ RETROREFLECTIVE STRIP	
1-SECTION 18" x 18" PEDESTRIAN SIGNAL HEAD HOUSING, W/ 16" LED COUNTDOWN INSERT, FULL HANDICAP OVERLAP	
9" NUMBERS & 12" SYMBOLS	
HARDWARE FOR MAST ARM MOUNTING	
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	
HARDWARE FOR SIDE-OF-POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY - CONCRETE, TIMBER, OR STEEL POLE	
PEDESTAL POLE	
PULL BOX, PB-2	
PULL BOX, PB-3	
CONDUIT, NONMETAL, TP 2, 1 IN	
CONDUIT, NONMETAL, TP 2, 2 IN	
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	

**POLES**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
639-3004	STEEL STRAIN POLE, TP IV, W/ 25 MAST ARM	EA	1
639-3004	STEEL STRAIN POLE, TP IV, W/ TANDEM 30' & 30' MAST ARMS	EA	1

**COMMUNICATIONS ITEMS**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
925-2104	WIRELESS SYSTEM, TYPE 4	EA	1

**ELECTRICAL WIRING, CABLE, AND CONDUIT ITEMS**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
682-6233	CONDUIT, NONMETAL, TP 3, 2 IN	LF	540
682-9850	DIRECTIONAL BORE, 7 IN	LF	180

**DETECTION SYSTEMS**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
937-4100	PEDESTRIAN DETECTION SYSTEM	LS	1
	A, DC ISOLATOR	EA	2
	B, 3-PAIR LOOP LEAD-IN CABLE, PER 1000 FT.	REEL	1
	C, PUSHBUTTON STATION ASSEMBLY WITH SIGN, TYPE A	EA	6
	E DUAL PUSHBUTTON STATION ADAPTER FOR 4" PEDESTAL POLE	EA	1
937-6010	MICROWAVE VEHICLE DETECTION SYSTEM	LS	1
	A, MWDS COMMUNICATIONS MODULE	EA	1
	B, MICROWAVE RADAR UNIT, TYPE B, W/ MOUNTING ASSEMBLY	EA	4
	C, CABLES	LF	815

**MISCELLANEOUS ITEMS**

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
441-7012	CURB CUT WHEELCHAIR RAMP, TYPE B	EA	1
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFLECTIVE SHEETING, TP 9	SF	7.5
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFLECTIVE SHEETING, TP 11	SF	3.0
636-1041	HIGHWAY SIGNS, TP 2 MATL, REFLECTIVE SHEETING, TP 9	SF	32.25
636-2070	GALV STEEL POSTS, TYPE 7	LF	13
653-0120	THERMOPLASTIC PYMT MARKING ARROW, TP 2	EA	1
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	44
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	172
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	150
653-4630	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	22

**NOTE**

LIST OF MATERIALS IS FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING QUANTITIES PRIOR TO ORDERING MATERIALS.

**0-AtkinsRealis**  
North America

Division of Transportation (11/10/20)

REVISION DATES

SIGNAL PLANS

SIGNAL INTERSECTION NO. 2  
LIST OF MATERIALS  
STEPHENSON RD - W ALFORD RD.

CHECKED

DATE

Operation date 09/30/2025

Sheet No. 3003a  
of 7 (11/10/20)

DATE

CORRECTED

27-000

Large empty rectangular box for drawing content.

Vertical rectangular box for drawing content.

Vertical rectangular box for drawing content.

Table with multiple columns and rows, likely a schedule of materials or revision log.





