



**CITY OF OPELIKA
CITY COUNCIL
WORKSESSION MEETING AGENDA
300 Martin Luther King Blvd.
August 1, 2023
TIME: 5:55 PM**

1. CALL TO ORDER
 1. George Allen, Erica Norris, Tim Aja, Todd Rauch, Eddie Smith
2. PRESENTATIONS
3. RESOLUTIONS
 1. Grant Application through ALDOT for traffic signals at Gateway Drive and Marvyn Parkway - ENG.
4. ORDINANCES
5. GENERAL UPDATES
6. REVIEW/DISCUSS CURRENT COUNCIL MEETING AGENDA
7. GENERAL / DISCUSSION
8. END OF WORK SESSION

“In compliance with the Americans with Disabilities Act, the City of Opelika will make reasonable arrangements to ensure accessibility to this meeting. If you need special assistance to participate in this meeting, please contact the ADA Coordinator 72 hours prior to the meeting at (334)705-5130.”

RESOLUTION NO. _____

**RESOLUTION AUTHORIZING THE SUBMITTAL OF A GRANT APPLICATION
WITH ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT)
FOR THE REBUILD ALABAMA GRANT APPLICATION**

WHEREAS, the Alabama Department of Transportation (“ALDOT”) Rebuild Alabama Act (“RAA”) Annual Grant Program is an ALDOT administered transportation infrastructure grant program for projects of local interests created under the Rebuild Alabama Act of 2019; and

WHEREAS, the City of Opelika (the “City”) desires to submit an application to participate in a transportation project through the Rebuild Alabama Act Grant Program; and

WHEREAS, the City is proposing to install, operate and maintain traffic control signals at the intersection of Gateway Drive and Marvyn Parkway (AL-51) (the “Project”); and

WHEREAS, the traffic control signals are necessary in order to obtain a safer and more expeditious flow of traffic at said intersection and is determined by the City Council to be in the best interest of the City and the residents therein; and

WHEREAS, the estimated cost of the Project, including labor, materials and equipment is \$250,000; and

WHEREAS, the maximum funding to be provided for a project under Rebuild Alabama for FY 2023 is \$250,000; and

WHEREAS, the City is eligible to apply to ALDOT for a Rebuild Alabama grant in the amount of \$250,000 for the installation of the traffic control signals at the intersection of Gateway Drive and Marvyn Parkway (AL-51); and

WHEREAS, the City desires to submit a grant application to ALDOT for the Rebuild Alabama grant for the installation of said traffic control signals.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Opelika, Alabama, as follows:

1. That the Mayor is hereby authorized to execute and submit to ALDOT on behalf of the City a Rebuild Alabama grant application in an amount not to exceed \$250,000 for the installation of traffic control signals at the intersection of Gateway Drive and Marvyn Parkway (AL-51) and any prior authorization of said application is hereby ratified and approved.

2. That upon approval of the application, the Mayor is hereby authorized and directed to execute a grant agreement with ALDOT and to carry out and comply with the terms

of the grant agreement.

3. That the City hereby agrees to accept the grant funds and comply with the terms of the grant as well as all applicable laws and regulations as stated in the grant agreement.

4. That the officers of the City and any person or persons designated and authorized by any officers of the City to act in the name and on behalf of the City, or any one or more of them, are authorized to do or cause to be done or performed in the name and on behalf of the City such other acts and to execute and deliver or cause to be executed and delivered in the name and on behalf of the City such other notices, certificates, assurances or other instruments or other communications under the seal of the City or otherwise, as they or any of them deem necessary or advisable or appropriate in order to carry into effect the intent of the provisions of this Resolution.

5. That this Resolution shall take effect upon its passage and adoption by the City Council.

ADOPTED AND APPROVED this the ____ day of _____, 2023.

PRESIDENT OF THE CITY COUNCIL OF THE
CITY OF OPELIKA, ALABAMA

ATTEST:

CITY CLERK

Rebuild Alabama Act Annual Grant Program Application Fiscal Year 2023



ALABAMA DEPARTMENT OF TRANSPORTATION

This document provides the format in which the required information is to be included in all applications seeking consideration for the Rebuild Alabama Act (RAA) Annual Grant Program. Applicants may develop and prepare their own applications; however, the headings (A through G) shall be listed with supporting narratives/attachments included. Prospective project sponsoring governmental agencies are encouraged to review the *FY 2023 RAA Annual Grant Program Guidelines* when considering the development of applications. Sponsors will be required to submit the application electronically to the ALDOT Local Transportation Bureau no later than **February 10, 2023**.

A. Sponsoring local governmental entity

Sponsor Entity:	<u>City of Opelika</u>
Mayor/Chairman:	<u>Mayor</u>
Sponsor Contact:	<u>Gary Fuller</u>
Address:	<u>P.O. Box 390 Opelika, AL 36803</u>
Phone:	<u>334-705-5150</u>
Email:	<u>gfuller@opelika-al.gov</u>
Project Manager:	<u>Scott Parker P.E.</u>
Title:	<u>City of Opelika Engineer</u>
Address:	<u>700 Fox Trail Opelika, AL 36801</u>
Phone:	<u>334-7055450</u>
Email:	<u>sparker@opelika-al.gov</u>

B. Briefly describe the proposed project improvements, identifying the points of origin, destination and all intermediate points of access. Detail the intended use of the project.

The intent of this project is to install a three-leg traffic control signal at the intersection of AL Highway 51 (Marvyn Parkway) and Gateway Drive in the City of Opelika. This signal has been warranted and approved for installation by ALDOT Southeast Region. This signal is intended to adequately control the traffic flow at this location that is constantly growing with the development in the area.

- C. Provide a detailed preliminary pay item estimate of the total project cost, the amount of RAA Annual Grant Program funds requested, and the amount and source of any other funds to be applied to the project.

ALDOT Traffic Signal Estimate

Region: Southeast
Area: District: Montgomery 6
Municipality: City of Opelika

Date: Intersection: 7/20/2023
Number of Legs: AL-51 & Gateway Drive 3

Pay Item	Description	Type	Quantity	Unit Cost	SubTotal
600A-000	Mobilization	Lump sum	1	\$54,000	\$54,000
730C-000	Furnishing and Installing Traffic Control Unit	Lump Sum	1	\$5,000.00	\$5,000.00
730E-000	3/8" Messenger Cable, Required Signs, Misc. Hardware	Each	4	\$2,500.00	\$10,000.00
	4C #14 AWG IMSA 20-1 Cable, 7C #14 AWG IMSA 20-1 Cable				
	3C #6 AWG Copper Wire, 1C #6 AWG Copper Wire				
	3C #8 AWG IMSA 20-1 Cable, 3C #10 AWG IMSA 20-1 Cable				
	Radio Communications				
	Metal Traffic Signal Pole Foundation				
730G-004	Metal Traffic Signal Strain Pole	Each	4	\$12,000.00	\$48,000.00
730N-010	Luminaire Extension Assembly, 12 Ft	Each	4	\$2,500.00	\$10,000.00
730P-022	Signal Luminaire Head (Min 14,000 Lumens)	Each	6	\$500.00	\$3,000.00
	Vehicular Signal Head, 12 Inch, 3 Section, Type LED				
730P-023	Backplate for 3-Section Signal Head, Mounting Hardware	Each	1	\$750.00	\$750.00
	Vehicular Signal Head, 12 Inch, 4 Section, type LED				
730R-041	Backplate for 4-Section Signal Head, Mounting Hardware	Each	1	\$12,500.00	\$12,500.00
	Controller Assembly, Type NEMA, 16 Phase				
730T-010	Electrical Power Service Assembly With Wood Pole	Each	1	\$1,500.00	\$1,500.00
	Disconnect Switch, Riser Assembly, 1" Metallic, Conduit				
730T-020	Battery Backup Power Supply System, Managed	Each	1	\$12,000.00	\$12,000.00
730U-015	Video Detection System	Lump Sum	1	\$18,000.00	\$18,000.00
				Total Cost:	\$169,750
Employees	7 - Traffic Signal Techs	Lump Sum	1	\$ 27,250.00	\$ 27,250.00
	2 - Traffic Signal Tech, Sr	Lump Sum	1	\$ 10,000.00	\$ 10,000.00
Equipment	2 - Bucket Trucks	Lump Sum	1	\$ 5,000.00	\$ 5,000.00
	1 - Auger Truck	Lump Sum	1	\$ 3,000.00	\$ 3,000.00
TCP	1- Traffic Control Crew	Lump Sum	1	\$ 10,000.00	\$ 10,000.00
Total Labor/Equipment Cost:					\$55,250
Contingency					\$25,000
TOTAL PROJECT COST:					\$250,000

- D. Identify any project phases that could adversely impact the project's progression. Note that these phases are not eligible for reimbursement.
- a. Environmental and/or cultural resources—**NONE**
 - b. Right-of-way or temporary/construction easements—**NONE**
 - c. Utility relocations—**NONE**
- E. Describe the life expectancy of the project. Identify the agency responsible for maintenance, and the funding source for maintenance efforts.
- It is anticipated that the life expectancy of this signal system will be 30-years. The City of Opelika will be responsible for the maintenance and cost of maintenance of this signal according to the submitted Traffic Signal Agreement. (Exhibit A)**
- F. Provide any additional comments the sponsor wishes to be considered, including any letters of support from elected officials, local agencies, or property owners.
- G. Include any supporting photographs, maps, drawings, or plans necessary to support the project application (all in color and limited in size to 11" by 17").
- (Exhibit B)**

All applications **must be submitted electronically** no later than 5:00 pm on **February 10, 2023**. Applications should be sent to RAAGrantApp@dot.state.al.us as a .pdf (25 mb max per email, multiple emails may be sent if necessary) with **"FY 2023 RAA Grant Application – Sponsor Name"** in the subject line.

The office of Local Transportation Bureau (LTB) will send a confirmation email once an application is received. If you do not receive a confirmation, please contact LTB at 334-242-6020 to ensure receipt of the application.

For Official Use Only: ALDOT Agreement Number: _____

Region Tracking Number: _____ Project Number: _____

Region: Southeast Region County: Lee

**STATE OF ALABAMA acting by and through the
ALABAMA DEPARTMENT OF TRANSPORTATION: AGREEMENT for the
INSTALLATION and/or OPERATION and/or MAINTENANCE OF TRAFFIC CONTROL SIGNALS and/or
ROADWAY LIGHTING**

This Agreement, in accordance with resolution number 176-23 dated (or minutes dated) July 11, 2023 attached hereto and made part of this Agreement, is made and entered into by and between the Alabama Department of Transportation (herein referred to as STATE) and the City of Opelika (herein referred to as **MAINTAINING AGENCY**) for the accomplishment of the following work as hereinafter indicated by the alphabetic letter of "X" marked in the check-boxes below, to wit:

	(A) New Installation	(B) Equipment Upgrade	(C) Complete Removal	(D) Operation	(E) Maintenance
Traffic Control Signal:	☒	☐	☐	☒	☒
Intersection Flashing Signal/Beacon:	☐	☐	☐	☐	☐
Roadway Lighting:	☐	☐	☐	☐	☐
Other: _____	☐	☐	☐	☐	☐

The accomplishment of the work indicated by the alphabetic letter of "X" marked in the check-box(es) above and hereinafter signified by the use of the corresponding alphabetic letter A, B, C, D, and/or E as applicable, will be at the following location(s): *{Example: AL-3/US-31 @ Main Street [A, D, & E] denotes the installation, operation, and maintenance of the equipment installed}* **NOTE – If more space is needed, please use continuation sheets.**

AL-51 @ Gateway Drive [A, D, & E]

- For the purposes of this Agreement, "equipment and/or associated hardware" shall refer to the equipment and/or associated hardware used to install, upgrade, maintain, and/or operate traffic control signals, intersection flashing signals/beacons, roadway lighting, and/or other as specified in the chart above.
- In the event the work to be accomplished above is identified by (A) and/or (B), the ☒ STATE ☐ MAINTAINING AGENCY will furnish and the ☒ STATE ☐ MAINTAINING AGENCY will install the equipment and/or associated

hardware utilized in the accomplishment of the work. In the event the STATE contributes funds to the work and the MAINTAINING AGENCY will be credited or debited for under-runs or overruns respectively, the "**Exhibit O**" is attached to and made part of this Agreement.

3. The equipment and/or associated hardware shall be installed in accordance with the applicable portions of the:
 - A. Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), current ALDOT approved edition.
 - B. State of Alabama Project Details and Special and Standard Highway Drawings, current year version.
 - C. National Electrical Code, current edition.
 - D. Alabama Department of Transportation (ALDOT) Standard Specifications for Highway Construction, current edition and applicable special provisions.
 - E. Code of Alabama, 1975 (as Amended) with specific reference to:
 - (1) §23-1-113, Municipal Connecting Link Roads – Stipulations and Conditions [specifically sub-paragraphs (6) and (7)].
 - (2) §32-5A-32, Traffic – Control signal legend.
 - (3) §32-5A-33, Pedestrian – Control signals.
 - (4) §32-5A-34, Flashing signals.
 - (5) §32-5A-35, Lane – Direction – Control signals.
4. The STATE shall determine the quantity of the equipment and/or associated hardware to be utilized in the accomplishment of the work identified by (A) and/or (B) above. In the event the MAINTAINING AGENCY furnishes the equipment and/or associated hardware to be utilized in the accomplishment of the work identified by (A) and/or (B) above, the MAINTAINING AGENCY shall ascertain that the type and quality of the equipment and/or associated hardware is in accordance with the STATE's Materials, Sources, and Devices with Special Acceptance Requirements (APL) as maintained by the STATE's Bureau of Materials and Tests.
5. It is the sole responsibility of the MAINTAINING AGENCY to locate and/or relocate any and all utilities in conflict with the installation, upgrade, and/or maintenance of equipment and associated hardware prior to commencing work to install, upgrade, and/or maintain equipment and associated hardware. The MAINTAINING AGENCY will locate and/or relocate such utilities in accordance with all applicable Federal and State laws, regulations, and procedures. Associated utility costs will be at the sole expense of the MAINTAINING AGENCY. In the event utilities are damaged during the installation, upgrade, and/or maintenance of equipment and associated hardware due to failure of the MAINTAINING AGENCY to relocate and/or relocate such utilities, the MAINTAINING AGENCY shall be responsible for providing the funding to pay for any and all associated costs to repair the utilities.
6. Title to any and all equipment and/or associated hardware furnished by the STATE shall remain in the STATE and the STATE is deemed to be the sole owner of such equipment and/or hardware.
7. The equipment and/or associated hardware shall be operated and maintained at the sole expense of the MAINTAINING AGENCY. The MAINTAINING AGENCY agrees to provide electrical energy on a continuing basis as required, beginning at the time of the initial electrical service connection during the construction of the system. The MAINTAINING AGENCY agrees further to maintain the equipment and/or associated hardware in a good state of repair at all times, as required in

accordance with the applicable documents: Manual on Uniform Traffic Control Devices for Streets and Highways and the Alabama Department of Transportation Standard Specifications for Highway Construction and applicable special provisions. Any traffic control signal equipment and/or associated hardware must also be maintained in accordance with any traffic signal operating plan of the STATE which is in effect at the applicable time of the maintenance. If a malfunction of the equipment and/or associated hardware should ever occur, the MAINTAINING AGENCY shall make or cause to be made any repairs immediately. If a malfunction presents a potential hazard to the motoring public and the MAINTAINING AGENCY is unable to repair the equipment and/or associated hardware in a timely manner as determined by the STATE, the MAINTAINING AGENCY agrees that the STATE reserves the right to and may repair the equipment and/or associated hardware, and invoice the MAINTAINING AGENCY for all costs incurred. The MAINTAINING AGENCY agrees to pay the STATE all such costs incurred by the STATE promptly upon receipt of the invoice from the STATE.

- 7a. In instances where ALDOT maintains a fiber-optic trunk line that is used in conjunction with a closed-loop signal system, the MAINTAINING AGENCY shall maintain the fiber-optic cable from the splice point in the trunk line out to the traffic control equipment.
- 8a. Installation requests made by the MAINTAINING AGENCY and identified on page one as "(A) New Installation" with "Traffic Control Signal" marked must follow the Traffic Signal Warrant and Justification procedure as identified in the Alabama Department of Transportation Traffic Signal Design Guide and Timing Manual, latest edition. For any warrant study/analysis which does not satisfy a traffic signal warrant or warrants, the MAINTAINING AGENCY agrees to accept any and all responsibility for any damage or injury that may be caused by or related to the installation, location, operation, sequencing, and/or maintenance of the equipment and/or associated hardware and shall defend, indemnify, and hold harmless the State of Alabama, the Alabama Department of Transportation, and its agents, servants, employees, in their official or individual capacities and/or facilities from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from the installation, operation, and maintenance of the equipment and/or associated hardware, or any claim, damage, loss, or expense to the person or property caused. A copy of the warrant study/analysis shall be attached to and made part of this Agreement.
- 8b. Check one:

The ☒ CITY (Incorporated Municipality)

Subject to the limitations on damages applicable to municipal corporations under Alabama Code § 11-47-190(1975), the CITY shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, and employees from and against (1) claims, damages, losses, and expenses, including but not limited to attorney's fees arising out of, connected with, resulting from, or related to the work performed by the CITY, or its officers, employees, contracts, agents or assigns (2) the provision of any services or expenditure of funds required, authorized, or undertaken by the CITY pursuant to the terms of this Agreement, or (3) any damage, loss, expense, bodily injury, or death, or injury or destruction or tangible property (other than the work itself), including loss of use therefrom, and including but not limited

to attorney's fees, caused by the willful, negligent, careless, or unskillful acts of the CITY, its agents, servants, representatives, or employees, or the misuse, misappropriation, misapplication, or misexpenditure of any source of funding, compensation, or reimbursement by the CITY, its agents, servants, representatives, or employees, or anyone for whose acts the CITY may be liable.

The ☐ COUNTY (County Government or Agency)

The COUNTY shall be responsible at all times for all of the work performed under this agreement and, as provided in Alabama Code § 11-93-2(1975), the COUNTY shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, and employees.

For all claims not subject to Alabama Code § 11-93-2(1975), the COUNTY shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, its officers, officials, agents, servants, and employees from and against any and all damages, claims, loss, liabilities, attorney's fees or expense whatsoever, or any amount paid in compromise thereof arising out of, connected with, or related to (1) work performed under this Agreement, (2) the provision of any services or expenditure of funds required, authorized, or undertaken by the COUNTY pursuant to the terms of this Agreement, or (3) misuse, misappropriation, misapplication, or misexpenditure of any source of funding, compensation or reimbursement by the COUNTY, its officers, officials, agents, servants, and employees.

The term "hold harmless" includes the obligation of the MAINTAINING AGENCY to pay damages on behalf of the State of Alabama, the Alabama Department of Transportation, and its agents, servants, and/or employees.

9. Complete removal of the equipment and/or associated hardware, hereinabove identified by (C), will be at the sole expense of the ☐ STATE ☒ MAINTAINING AGENCY.
10. The STATE reserves the right to demand the removal of the equipment and/or associated hardware should the STATE determine that the signal is no longer required or deem its condition or operation hazardous. Further, the STATE shall have the right to remove the equipment and/or associated hardware should the MAINTAINING AGENCY fail to do so upon demand by the STATE. The MAINTAINING AGENCY agrees to reimburse the STATE for its costs associated with the removal. Any equipment and/or associated hardware which is deemed by the STATE to be non-uniform or obsolete will be removed and disposed of by the MAINTAINING AGENCY. None of the non-uniform or obsolete equipment and/or associated hardware which has been removed shall be reused on the STATE highway system.
11. If future traffic conditions require changes and/or adjustments to said equipment and/or associated hardware (other than ordinary timing), the MAINTAINING AGENCY shall obtain the approval of the STATE before such changes are implemented and the STATE shall make a determination on whether a new Agreement is required to be submitted for the UPGRADING, OPERATION, and MAINTENANCE of the new equipment and/or associated hardware. All such changes shall be at the sole cost and expense of the MAINTAINING AGENCY.

12. At such time as a warrant study is conducted on an existing signalized intersection and the results differ from the previous warrant study conducted at that signalized intersection, a new Agreement for Installation and/or Operation and/or Maintenance of Traffic Control Signals and/or Roadway Lighting shall be executed with the MAINTAINING AGENCY.

13. In the event Federal funds are utilized in the accomplishment of the work hereinbefore described, "**Exhibit M**" is attached to and made a part of this Agreement.

14. FUNDS SHALL NOT BE CONSTITUTED AS A DEBT

It is agreed that the terms and commitments contained herein shall not be construed as a debt of the State of Alabama in violation of Article 11, Section 213 of the Constitution of Alabama, 1901, as amended by Amendment Number 26. It is further agreed that if any provision of this Agreement shall contravene any statute or Constitutional Provision or Amendment, then the conflicting provision in this Agreement shall be deemed null and void.

For any and all disputes arising under the terms of this Agreement, the parties hereto agree, in compliance with the recommendations of the Governor and Attorney General, when considering settlement of such disputes, to utilize appropriate forms of non-binding alternative dispute resolution including, but not limited to, mediation by and through the Attorney General's Office of Administrative Hearings or where appropriate, private mediators.

15. The type and number of signal & pedestrian heads per intersection or roadway lighting hardware are as follows: {Example: 5 – 3 sec, 12", red ball, yellow/green left arrow. *OPTION: If plans are available to convey information below, just enter "SEE ATTACHED PLANS".*} **NOTE – If more space is needed, please use continuation sheets.**

6 - 3 sec, 12": green, yellow & red balls

1 - 4 sec, 12" green arrow, yellow arrow, yellow flashing arrow, red arrow

TYPE OF SIGNAL		CONTROLLER	
☒ Traffic Control	☐ Pedestrian Control	Make:	Model #:
☐ Flashing	☐ Lane Control	☐ Fixed Time	☐ Two Phase
☐ School Flasher	☐ Railroad Crossing	☐ Semi Actuated	☐ Four Phase
☐ Other: _____		☒ Full Actuated	☒ Eight Phase
		☐ Other: _____	
		SYSTEM ☐ YES ☐ NO	

16. In the event the work to be accomplished is identified by (A), (B), and/or (C) and [1] in part or wholly constitutes an interconnected, coordinated, fixed time relationship, signal control operation between two or more intersections (herein referred to as a SYSTEM and hereinabove indicated by the SYSTEM check-box for YES marked in the controller box above), [2] is located within the limits of a SYSTEM, or [3] is within close proximity as to adjoin a SYSTEM, the ☐ STATE ☐ MAINTAINING AGENCY shall substantiate the work identified by (A), (B), and/or (C) to be SYSTEM compatible.
17. By entering into this agreement, the MAINTAINING AGENCY is not an agent of the State, its officers, employees, agents or assigns. The MAINTAINING AGENCY is an independent entity from the State and nothing in this agreement creates an agency relationship between the parties.
18. By signing this contract, the contracting parties affirm, for the duration of this agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of this agreement and shall be responsible for all damages resulting there from.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK. SIGNATURE PAGE TO FOLLOW. ____

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by those officers, officials, and persons thereunto duly authorized, and the Agreement is deemed to be dated and to be effective on the date stated hereinafter as the date of the approval of the Region Engineer.

(Seal of MAINTAINING AGENCY)



Attest: Barbara J. Arrington
(Seal or notary signature)

City of Opelika

Legal Name of MAINTAINING AGENCY

By: [Signature]
Authorized Signature for MAINTAINING AGENCY

Agreement Recommended for approval:

By: _____
Area Traffic Engineer Signature

STATE OF ALABAMA acting by and through the ALABAMA DEPARTMENT OF TRANSPORTATION

The within and foregoing Agreement is hereby approved on this _____ day
of _____, 20_____.

APPROVED:

RECORDED:

By: _____
Region Engineer Signature

By: _____
State Traffic Engineer Signature

Date: _____
(Added to Archive)

TRAFFIC SIGNAL LAYOUT
SR-51 AT GATEWAY DR

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
	2023	

REQUIRED SIGNAL HEADS

R

Y

G

2, 4, 6

A

Y

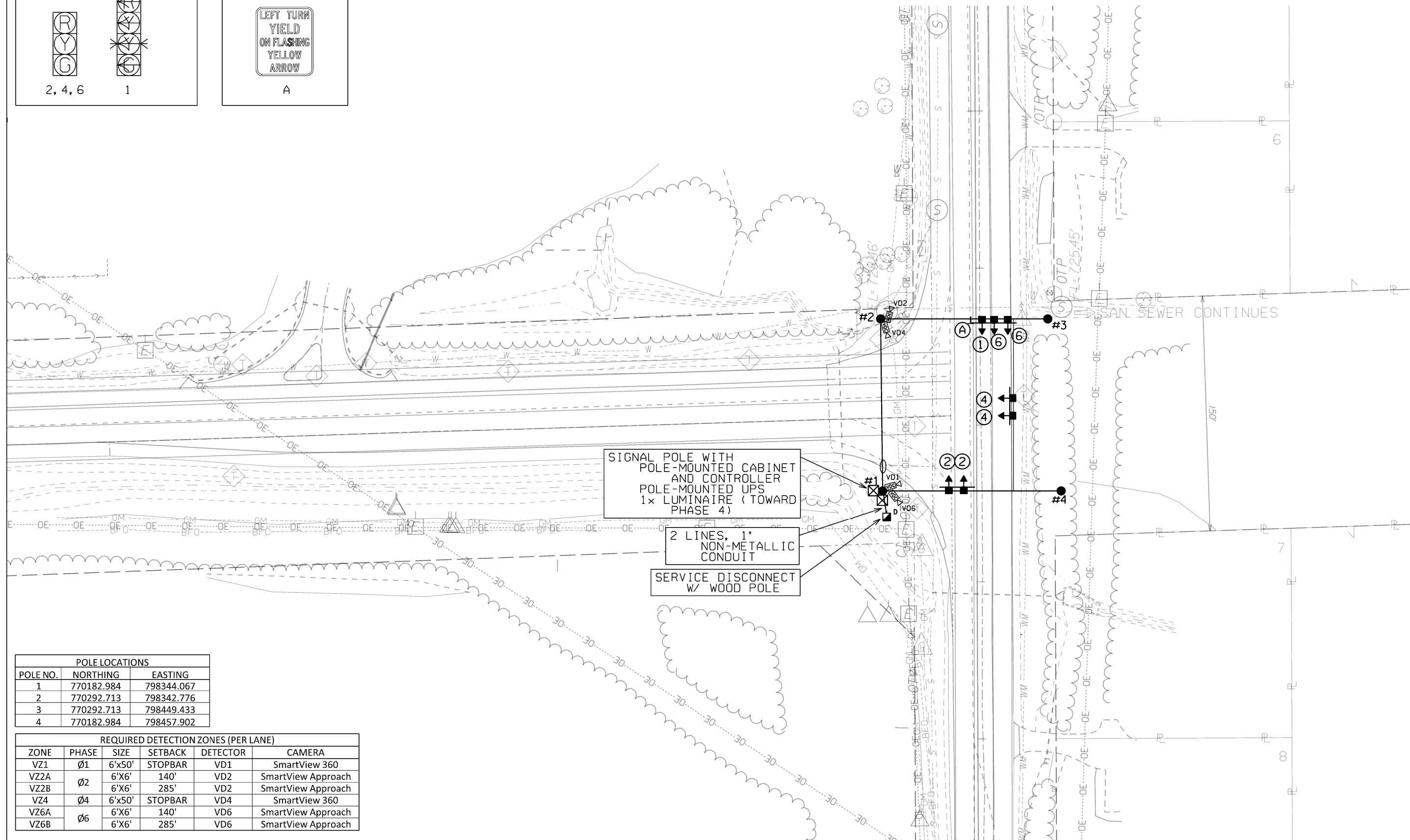
G

1

REQUIRED SIGNS

LEFT TURN
YIELD
ON FLASHING
YELLOW
ARROW

A



POLE LOCATIONS		
POLE NO.	NORTHING	EASTING
1	770182.984	798344.067
2	770292.713	798342.776
3	770292.713	798449.433
4	770182.984	798457.902

REQUIRED DETECTION ZONES (PER LANE)					
ZONE	PHASE	SIZE	SETBACK	DETECTOR	CAMERA
VZ1	Ø1	6'x50'	STOPBAR	VD1	SmartView 360
VZ2A	Ø2	6'x6'	140'	VD2	SmartView Approach
VZ2B		6'x6'	285'	VD2	SmartView Approach
VZ4	Ø4	6'x50'	STOPBAR	VD4	SmartView 360
VZ6A	Ø6	6'x6'	140'	VD6	SmartView Approach
VZ6B		6'x6'	285'	VD6	SmartView Approach