

Huntsville, Alabama

308 Fountain Circle Huntsville, AL 35801

Cover Memo

Meeting Type: City Council Regular Meeting	g Meeting Date: 7/27/2023	File ID: TMP-3146
Department: Engineering		
Subject:	Type of Actio	on: Approval/Action
Resolution authorizing the Mayor to enter into and the City of Huntsville, Alabama for the Infor Huntsville Northern Bypass, ALDOT Proj	stallation, Operation and Mainte	± ±
Resolution No.		
Finance Information:		
Account Number: N/A		
City Cost Amount: N/A		
Total Cost: N/A		
Special Circumstances:		
Grant Funded: N/A		
Grant Title - CFDA or granting Agency: N	/A	
Resolution #: N/A		
Location: (list below)		
Address: N/A		
District: District 1 □ District 2 □ Dist	rict 3 District 4 Distr	rict 5 \square
Additional Comments:		
Agreement between the City of Huntsville and		
signal at the intersection of Memorial Parkwa	y and Huntsville Northern Bypas	SS.

RESOLUTION NO. 23-

BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, that the Mayor be, and is hereby authorized, to enter into an Agreement between Alabama Department of Transportation and the City of Huntsville, Alabama for the Installation, Operation and Maintenance of Traffic Control Signals for Huntsville Northern Bypass, ALDOT Project No. CRSA-PE10(917), on behalf of the City of Huntsville, a municipal corporation in the State of Alabama, which said Agreement is substantially in words and figures similar to that document attached hereto and identified as "Resolution authorizing the Mayor to enter into an Agreement between Alabama Department of Transportation and the City of Huntsville, Alabama for the Installation, Operation and Maintenance of Traffic Control Signals for Huntsville Northern Bypass, ALDOT Project No. CRSA-PE10(917)," consisting of a total of sixteen (16) pages, and the date of July 27, 2023, appearing on the margin of the first page, together with the signature of the President or President Pro Tem of the City Council, and an executed copy of said document being permanently kept on file in the Office of the City Clerk of the City of Huntsville, Alabama.

ADOPTED this the $\underline{27th}$ day of \underline{J}	<u>uly</u> , 2023.
	President of the City Council of the City of Huntsville, Alabama
APPROVED this the <u>27th</u> day of	F <u>July</u> , 2023.
	Mayor of the City of Huntsville, Alabama

Region Tracking Number:		Project	Number:	CRSA-PE	10(917)
Region: NR - C	Guntersville		County:	MADISO	N
STATE O ALABAMA DEPARTM INSTALLATION and/or OPERATION	MENT OF TRA N and/or MAI		N: AGREEME	*	ALS and/or
This Agreement, in accordance with	resolution num	ber		dated (or	minutes date
and between the Alabama Departm	nent of Tran	(herein refe	erein referred rred to as M/	to as STA	ATE) and t
	(A) New Installation	(B) Equipment Upgrade	(C) Complete Removal	(D) Operation	(E) Maintenanc
Traffic Control Signal:	X		X	x	X
Intersection Flashing Signal/Beacon:					
Roadway Lighting:					
Other:					
The accomplishment of the work increase in the corresponding of the corr	oonding alphabe Street [A, D, & s needed, please emorial Parky	tic letter A, B, C, E] denotes the use continuation Nay - Traffic	D, and/or E as a installation, ope on sheets. Control Sign	pplicable, will be eration, and ma al [A, D, & E	e at the followi intenance of t
For the purposes of this Agreement, associated hardware used to install, signals/beacons, roadway lighting, an In the event the work to be accomp	upgrade, maint d/or other as sp lished above is	ain, and/or ope ecified in the ch identified by (A	rate traffic cont art above.) and/or (B), th	rol signals, inte	rsection flashi
		e 1 of 7			· · – 03/11/21

President of the City Council of the City of Huntsville, AL Date: _____ July 27, 2023

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

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 <u>Constitution of Alabama, 1901</u>, 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.

SEE ATTACHED PLANS	- CRSA-PE10 (917)		
·			
TYI	PE OF SIGNAL	C	ONTROLLER
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) Legal Name of MAINTAINING AGENCY Attest: _____(Seal or notary signature) Authorized Signature for MAINTAINING AGENCY Agreement Recommended for approval: 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: **Region Engineer Signature** State Traffic Engineer Signature (Added to Archive)

Region Tracking Number:		Project Number:	CRSA-PE10 (917)
Region:	NR - Guntersville	County:	MADISON

7/18/90 EXHIBIT M

<u>CERTIFICATION</u>

This certification is applicable to the instrument to which it is attached whether attached directly or indirectly with other attachments to such instrument.

The prospective participant/recipient, by causing the signing of and the submission of this Federal contract, grant, loan, cooperative agreement, or other instrument as might be applicable under Section 1352, Title 31, U.S. Code, and the person signing same for and on behalf of the prospective participant/recipient each respectively certify that to the best of the knowledge and belief of the prospective participant or recipient and of the person signing for and on behalf of the prospective participant/recipient, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the prospective participant/recipient or the person signing on behalf of the prospective participant/recipient as mentioned above, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, or other instrument as might be applicable under Section 1352, Title 31, U.S. Code, the prospective participant/recipient shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant/recipient also agrees by submitting this Federal contract, grant, loan, cooperative agreement or other instrument as might be applicable under Section 1352, Title 31, U.S. Code, that the prospective participant/recipient shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub-recipients shall certify and disclose accordingly.

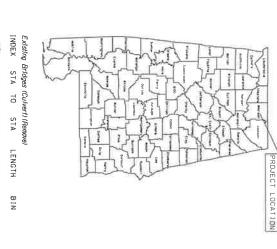
Region Tracking Number:		Project Number: _	CRSA-PE10 (917)	_
Region:	NR - Guntersville	County:	MADISON	
		_		

3/31/2000 EXHIBIT O

CERTIFICATION

FUNDING RATIO FOR THE INSTALLATION OF TRAFFIC CONTROL SIGNALS AND/OR ROADWAY LIGHTING

				am . mr	. 1	. 1
The Alabama Department of Transportation	(hereinafter	referred	to as the	STATE	and	the
City of Huntsville	(herein	after	referred	to	as	the
MAINTAINING AGENCY) wishes to install						
Huntsville Northern Bypas	is		This in	stallatio	n requ	iires
participation by the STATE and the MAINTA						
The total estimated cost to install the tra	iffic control	signal	and/or roa	adway 1	ighting	g is
with percent funded	by the STA	ATE an	d pe	rcent f	unded	by
the MAINTAINING AGENCY. In the even						
estimated cost, the STATE and the OWNER	R will share	in the c	ost under-	run at 1	the abo	ove-
mentioned funding ratio and, therefore, the ST.	ATE will refu	and to the	MAINTA	INING	AGEN	ICY
o percent of the under-run. In the event the	ne final instal	lation co	st exceeds	the tota	l estim	ated
cost, the STATE and the MAINTAINING AG	ENCY will s	hare in th	ne cost ove	r-run at	the ab	ove-
mentioned funding ratio and, therefore, the MA	AINTAININC	G AGEN	CY will su	bmit a c	heck to	the
STATE for 0 percent of the cost over-run.						



TOTAL EFFECT

Required Bridge (Culvert) STA TO STA LENGTH BIN

(1) CD-8'x6' 287+09.09 287+29.99 20.90 21711

37°30'40" LT AH (EBR)

SKEW

⟨2⟩ CD-8'x6' 287+09.09 287+29.99 355+90.11 356+22.67 32.56 21714 21713 39°49'54" LT AH (EBR)TSHP 37°30'40" LT AH (WBR)

CT-8'x5' 355+90.11 356+22.67 21712

39"49'54" LT AH (WBR)

Sta. 195+00.00

TOTAL EFFECT (EB ONLY) 53.46

Equations & Exceptions

Total Stationing of Project Equations & Exceptions Net Length of Project Net Length of Bridges 18203.07 0.00 18203.07 53.46 18149.61

3.447 0.010 3.437

ALABAMA

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER CRSA-PE10(917)

FROM 1.2 MILES EAST OF CR-86 (PULASKI PIKE) TO 1500' EAST OF SR-1 (US HIGHWAY 431) HUNTSVILLE NORTHERN BYPASS

BRIDGE CULVERTS, AND BRIDGE CULVERT REMOVAL GRADE, DRAIN, BASE, PAVÉ, SIGNALS, MADISON COUNTY





Preliminary Project No. Code No. STPHV-PE101917) 4321 STHVM 100054997-2

ADT (2022) 10.992
ADT (2012) 16.865
K 10%
D 53%
TOW 53%
TOW 37%
V 1 Design Speed 1 35%
V 1 Design Speed 1 47%
V Design Designation

These plans have been prepared to conform with the Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition,



NOTE: THE PROJECT NUMBER AS LISTED ON THIS SHEET IS CORRECT FOR THIS PROJECT AND SHALL SUPERCEDE ANY OTHER PROJECT NUMBER LISTED ON

ISSUED FOR ALDOT REVIEW

THE FOLLOWING SHEETS.

TSHP 2S



200 Decim Aurosa Sara 820 M. Ampira Albania 36881 PHONE (256) 533-1561 * FAX (256) 533-1564

PREPARED BY:

TO HUNTSVILLE

HUNTSVILLE POPULATION: 180,105 (2010)

NOTES THAT APPLY TO THIS PROJECT

TRAFFIC SIGNAL PLAN NOTES

THE EVENT CONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES AND THE MUTCD, THE MUTCD WILL GOVERN.

- (SOL) MHEN THE COMPROLER IS IN THE FLASHING MODE, THE VEHICULAR SIGNAL HEADS SHALL PLASH YELLOW ON THE MAIN STREET, RED ON ALL CROSS STREETS, AND RED ON PROTECTED LETT TURKS.
- 501. ALL EXEMING TRAFFIC COMPROL EQUIPALITY WHICH IS THE PROPERTY OF THE STATE INCLUDING SHOAN JEEJS, COMTROLLERS, POLES, AND MEGRALMEDUS HARDWARE SHALL BE REMOVED UPON COMPLITION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR FERMANDY) AND STORED TO COMPLY WITH SECTION 7300.3 OF THE STANDARD OF PEGRICATIONS. THE SAME SHALL BE DISJURGED TO THE ALABAMA GEPARTURDIT OF TRAMSPORTATION AS DIRECTED BY THE ENGINEER.
- 502.) ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE CITY OF HUNTSVILLE INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, AND MISCELLANEOUS MARDINARE SYALL BE REMOVED IPON COMPLETION OF THE MARY TRAFFIC COMPROL UNIT (TEMPORARY OR PERMANEUT) AND STORED TO THE NEW TRAFFIC COMPROL UNIT (TEMPORARY OR PERMANEUT) AND STORED TO THE MARGINATION AS DIRECTED BY THE ENGINEER
- (503) THE LOCATION OF THE POWER SOURCE AS SHOWN IN THE PLANS IS APPROXIMATE. THE CONTRACTOR SMALL DETERMINE THE EXACT LOCATION OF THE POWER SOURCE AND THE SHOPREST ROUTE TO SERVE THE TRAFFIC SIGNAL CONTROLLER CABNET AND CLIMINAIRES.
- SUA) AS WORK BEGINS RELATED TO OR AFTECTING THE SIGNAL(S) WITHIN THE CONTRICTION UNITS, THE CONTRICTION SHALL ASSUME RESPONSIBILITY OF ALL EXENING, THAPPORTY, AND RECURRED SHAML(S). THE CONTRICTION SHALL BE RESPONSIBLE FOR CONTRIVIAL DEFENION AND MAINTENANCE OF THE SPAIL(S) WITH, ALL ASSUME WORK AFTECTION THE SOFALL(S) WITH, ALL ASSUME WORK AFTECTION THE SOFALL(S) WITH ALL ASSUME OF TRANSPORTATION.
- SOS.) THE CONTRACTOR SHALL INSTALL TEMPORARY SIGNAL(S) AS REQUIRED BY THE TEMPORARY TRAFFIC SIGNAL PLAN LATOUT OR THE TRAFFIC CONTRACTOR SHALL BE MEAN TEMPORARY TRAFFIC SHALL BE ASSOCIATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFING AND ADJUSTING THE ENSING AND CREATED SHALL BE SHALL(S) SO THAT ALL LINE SHIFTS, ADJURES, AND ANY OTHER CHARGES TO THE ROADWAY DURING CONSTRUCTION ARE CONTROLLED BY THE EXSTING AND/OR REQUIRED SIGNAL(S).
- (SAB.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO LOCATE ALL ORER-ED AND UNDERGROUND ITLITES, WIGHTER SHOWN ON THE PLANS OR HOT, DAMAGE TO UTILITIES CURED BY THE CONTRACTOR SHALL BE REPAISED BY THE CONTRACTOR OF THE STATE ACTION OF THE UTILITY COMPANY AND THE ENGREEN. THE CONTRACTOR SHALL BEAR ALL COST TO REPAIR ANY AND ALL DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR.
- 508. (83) THE CONTRACTOR SHALL HAVE THE APPROVAL OF THE ENGINEER PRIOR TO THE RELIGIAL OF ANY EXISTING TRAFFIC CONTROL UNIT. THE CONTRACTOR SHALL NOT REMOVE AN EXISTING TRAFFIC CONTROL UNIT UNTIL THE REQUIRED TRAFFIC) THE ALBAMA DEPARTMENT OF TRANSPOORTATION RESERVES THE RIGHT TO RESPOND TO TRAFFIC COMPRO, UNIT(S) MALFANCTIONS IN AN EMERGEN OF NATURAL DISASTER, IN DOME SO THE CONTRACTOR'S UMBUTTY AND RESPONSIBILITY RELATED TO MAINTAINING THE TRAFFIC UNIT(S) OR SYSTEM REMAINS IN EFFECT.
- (203) ELAH RECURRED TRAFFIC SIGNAL STRAIN POLE AND MAST ARM POLE MAY VARY IN LENGTH AND SIZE. THE CONTRACTOR SMALL ASSERTIAN THAT THE FOLK REDIGITS ARE SUFFICIALT TO PROVIDE THE REQUIRED VEHICLAR TRAFFIC SIGNAL CLEARANCE. EXTENSIONS FOR MOUNTING SIGNALS SHALL BE PROVIDED WHEN NECESSARY. CONTROL UNIT IS INSTALLED AND COMPLETELY OPERATIONAL
- SIQ. PEACH MAST ARM MAY VARY IN LENGTH. THE CONTRACTOR SHALL ASCERTAIN THAT CONFORMS TO THE MUTCO.

- (S11.) THE TRAFFIC SIGNAL POLE LOCATION(S) AS SHOWN IN THE PLANS IS(ARE)
 APPROXIMATE. THE CONTRACTOR SHALL SCORTINATE THE POLE LOCATION(S) MITH
 APPROXIMATE. THE CONTRACTOR SHALL SCORTINATE THAT FOR LOCATION(S) PROVIDE FOR THE VEHICULAR TRAFFIC SIGNAL HEADS TO MEET THE
 LOCATION(S) PROVIDE FOR THE VEHICULAR TRAFFIC SIGNAL HEADS TO MEET THE
 DISTANCE RECOVERED TO THE SIDNE UNE AS REQUIRED BY THE MITTOL, WHICH
 PRODISTINATE SHOULD HEAD TO THE RELATIVE SECTIONS OF
 SAME SAID POLE LOCATION(S) SHALL ALSO CONFIDENT TO THE RELATIVE SECTIONS OF
- (312) THE CONTRACTOR SHALL LOCATE EACH REQUIRED AND RELOCATED VEHICULAR TRAFFIC SWALL HEAD ON THE SPAM WIRE OR MAIST ARM SO THAT EACH HEAD IS LOCATED IN THE APPROASH LANE FOR MINICH IT APPLIES. LOCATION OF SIGNAL HEADS SHALL CONFORM TO THE MUTCD.
- THE TRAFFIC SIGNAL STRAIN POLE LOCATION(S) AS SHOWN IN THE PLANS IS (ARE) APPROXIMATE. THE ENGINEER SHALL APPROVE ALL FOUNDATION LOCATIONS PRIOR TO THE CONTRACTOR EXCAVATING FOR EACH FOUNDATION.

528.

- 514. BALANCE ADJASTERS SHALL BE INSTALLED ON TRAFFIC SIGNAL HEADS FOR PROPER ANI. THE CONTRACTOR SHALL ALIGN THE SIGNAL HEADS IN ACCORDANCE WITH THE MUTCO AND TO THE SATISFACTION OF THE EMBRER.
- SIL.) A 12 INCH DRIP COL WITH 3 LOOPS SHALL BE PROVIDED TO THE RIGHTS OF EACH VEHICULAR TRAFFIC SIGNAL HEAD. A DRIP LOOP SHALL BE FORMED SO THAT WATER CANNOT ENTER THE CLAMP TROM THE WRIE SHALL ENTER THE CLAMP FROM THE BOTTOM OF THE DRIP LOOP.
- MAST ARM POLE. THE CONTRACTOR SHALL BOND THE CONTROLLER TO THE POLE WITH A #6-1C BONDING CABLE
- (S17.) MARKINO/MARKINO TAPE SHALL BE BURIED OVER CONDUIT. THE TAPE SHALL BE 4 MICH POLYETHYLENE, RED IN COLOR WITH BLACK LETTERING.
- 518. WHEN EXISTING LOOP WIRE AND VEHICLE LOOP DETECTORS ARE TO BE RETAINED AND REUSED, OR RELOCATED IN A NEW CONTROLLER CABINET, THE CONTRACTOR SHALL ASCERTAIN THE MANUFACTURER AND MODEL NUMBER OF EACH EXISTING DETECTOR AMPLIFIER AND PROVIDE A NEW MIRING HARNESS COMPLETELY WIRED IN THE CONTROLLER CABINET FOR EACH EXISTING DETECTOR AMPLIFIER
- (519.) WHEN SYSTEM TIMINGS ARE NOT INCLUDED IN THE PLANS FOR TIME BASE OR CLOSED LOOP SYSTEMS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LOCATION TO THE CASED FOR THE COST OF CALCULATING SYSTEM TIMINGS SHALL BE A SUBSIDIARY OBJUGATION OF 730C.
- (\$20.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO INPUT THE THAINGS AND FINE TUNE THE THAINGS. THE COST OF NPUTTING AND FINE TUNING THAINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.
- 521. THE | AREA TRAFFIC ENGINEER / CITY TRAFFIC ENGINEER / COUNTY TRAFFIC ENGINEER | SHALL BE RESPONSIBLE FOR IMPUTTING AND FINE TUNING THE THRIBGS
- 522 WHEN EXISTING SPAN WIRE THAT IS TO BE RETAINED HAS SAGGED, THE CONTRACTOR SHALL ADJUST THE SPAN WIRE SO THAT SIGNAL HEADS COMPLY WITH THE CLEARANCE SHOWN ON THE STANDARD DETAIL DRAWING.
- 523. A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE HAS BEEN FILED WITH ADEM FOR THIS PROJECT. A COPY OF THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) IS AVAILABLE THROUGH OFFICE ENGINEER PRIOR TO BIDDING.
- 524.) THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS TO THE AREA TRAFFIC ENGINEER AND THE CITY OF HUNTSVILLE.

- \$23.) THE CONTRACTOR SHALL INSTALL BACKPLATES WITH A 2 INCH PLUDRESCENT YILLOW RESILECTIVE BROTHER ON THE ENSING AND REQUENCED SIGNAL HEADS AS SHOWN ON PAINS BACKPLATES ON REQUENCE SIGNAL HEADS SHALL BE PAID FOR AS A SUBSIDIARY OF 729P, BACKPLATES ON EXISTING SIGNAL HEADS SHALL BE PAID FOR AS A SUBSIDIARY OF 720D,
- (528. PHOTOETECTORS MAY BE MUNITED BY HE TOP OR SIGE OF THE SIGMA CABINET WHERE HO SHADONS ARE EXPECTED TO BE CAST BY THE CABINET THAT WOULD MPAIR THE FUNCTION OF THE PROTOECLL WHEN COMPARED TO MONITHIC BY THE DISCONNECT POLE IN ITS TRADITIONAL LIDICATION, WHERE THE EFFECT OF SHADONS IS UNCERTAIN, THE WHEN LUMINAIRES PAID FOR AS A SUBSIDIARY OF 730N ARE INCLUDED, THE RELATED CONTRACTOR SHALL MOUNT THE PHOTODETECTOR IN ITS STANDARD LOCATION
- (SZ)) WHEN MISA SIGNAL CABLE 20-1 IS USED THAT IS 70 DR LARGER, THE CONTRACTOR SMALL CALARY, TAG AND MARK IN THE CONTROLLER CABRIET THE SIGNAL INDICATION EACH COMBUCTOR CONNECTS TO WEERE THE CONDUCTOR LARCET DOES NOT MATCH IN COLOR THE ASSOCIATED SIGNAL HEAD COLOR.
- ON ALL LODPS, THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A LEANAGE TO AROUND TIST USING A MEG-DHM METER WITH 500 VOLTS APPLIED. THE LODPS SHALL ALSO BE TISTED AFTER THE LEADS (HOME RIN) ARE PILLED TO THE AMERICATE TO BY A STATE INSPECTIOR OFFICING FOR LEANAGE. ANY LOOP FALING TO READ 100 MEGS OR BETTER WILL NOT BE ACCEPTED AND SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.





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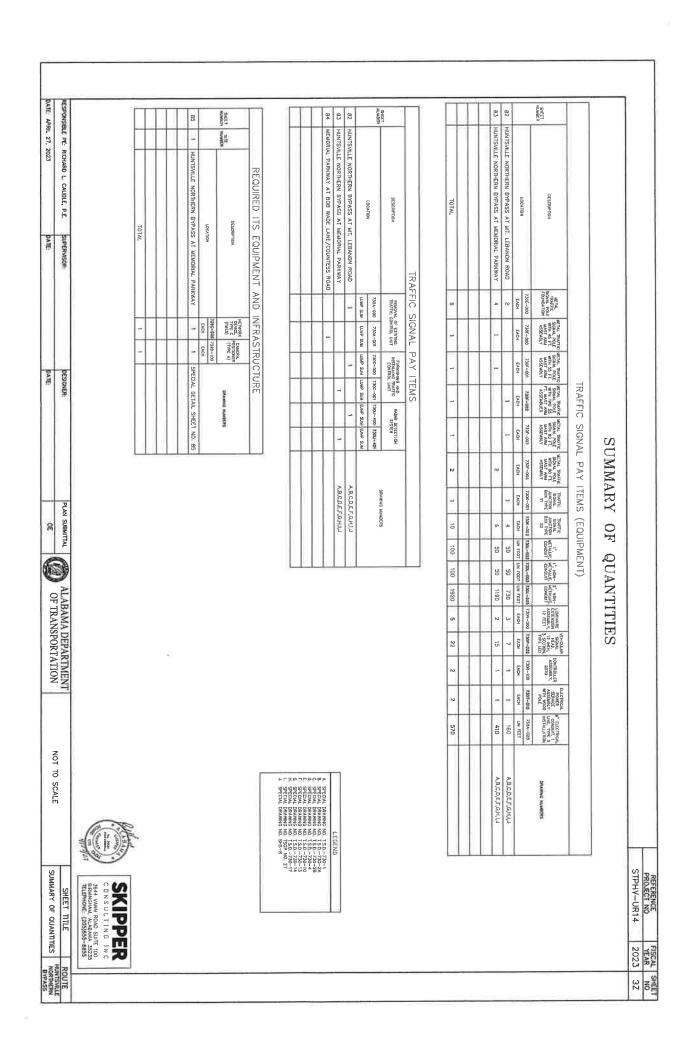
SUPERVISOR

DESIGNER:

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IN THE EVENT CONFLICTS OCCUR BETWEEN THE ITS PLAN NOTES AND THE MUTCD, THE MUTCD WILL GOVERN.	INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLAN NOTES	
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m		27) L. CAUDLE, P.E. SUPERVISOR: DESIGNER	NSIBLE PE: RICHARD
844 VANN ROAD SUIT	4 FINAL LOCATION OF REQUIRED CCTV AND RVD POLES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.	1124	ALL CONDUIT MOUNTED UNDER THE BRIDGE DECK SHALL BE STRAPPED TO THE BRIDGE DECK IN FIVE (5) FEET MAXIMUM INTERVALS.	1110 AI ST MJ
SKIPPER	THE LOCATION OF REQUIRED COMMBOXES SHALL BE COMMBOXES SHALL BE COMMBOXED WITH THE ENGINEER PRIOR TO INSTALLATION.	1123	L ANCHORS PLACED IN BRIDGE DECKS SHALL PENETRATE DECK A MAXIMUM OF 1-1/4 INCHES.	1109 ALL THE
CONTROLLER CABINET SIZE W CONTRACTOR.	REQUIRED STRAPPING OF FIBER OPTIC CABLE TO MESSENGER CABLE SHALL BE STAINLESS STEEL LOCATED MAXIMUM FIVE (5) FEET ON CENTER.	1122	THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ALL ANCHORS, MOUNTING BRACKETS, CLAMPS AND STRAPS PRIOR TO ANY INSTALLATION OF PRODUCT.	1106 TE AJ AA
0	AERIAL DROPS SHALL HAVE ADEQUATE SLACK IN THE OF TRUNK SERVICE LOOP WITH AMELE LENGTH OF THE DROP TRUNK SERVICE HOOP FOR THE DETECHMENT OF THE CABBLE CHARLET OF THE SERVICE AND THE SERVICE CHARLET OF THE ABELTY TOORER SALD HE SERVICE CHARLET AND DROP WITHOUT HAVING TO WORK IN A BUCKET TRUCK.	1121	PRIOR TO INSTALLATION OF FIBER OFFIC CABLE, THE CONTRACTOR SHALL CONDINATE FIBER ALLOCATIONS WITH THE ENGINEER. THE CONTRACTOR SHALL HAVE ALL SPLICE CHARTS APPROVED BY THE ENGINEER RRIOR TO INSTALLING FIBER OFFIC CABLE. IF THE CONTRACTOR INSTALLING FIBER OFFIC CABLE FIATOR TO THE ENGINEER'S APPROVAL OF SPLICE CHARTS, THE CONTRACTOR SHALL	1107 PH
TIRED CCTV CAMERA SHALL BE: C	THE VERTICAL SEPARATION BETWEEN FIBER CABLE AND ELECTRICAL LINES AT BOLE ATTACHMENT SHALL MEET ALL PROVISIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NESC), CURRENT EDITION, REGARDING CLEARANCE FROM ELECTRIC LINES.	1120	CONTRACTOR SHALL PROVIDE ACCURATE 'AS-BUILT' PLAN SET AND SELICE CHARTS AS PART OF THE PROJECT ACCEPTANCE PROCESS. THE INGLINEER SHALL VERITY THE ACCURACY OF THE DRAWINGS PRIOR TO ACCEPTANCE.	6
TYPE 1 (OPEN TRENCH) OR TYPE 5 (PRECISION DIRECTIONAL BORING) METHODS UNLESS OTHERNI INDICATED ON THE PLANS. TYPE 5 METHOD IS TEREFERRED METHOD FOR UNDERGOUND COMDUTES WILL CONTAIN FIBER OPTIC CARLES. DETECTABL MARKING TAPE SHALL BE REQUIRED FOR FIBER OF THE CONTRACTOR SHALL BE AMARE OF THE FOLLOWER.	THE COMMBOXES THAT ARE TO BE PLACED ALONG ROADWAYS SHALL HAVE A MINIMOM CLEARANCE OF TEN (10) FRET FROM THE EDGE OF THE PAYED SHOULDER AND FITTERN (15) THE FROM THE EDGE OF PAYERINT MIRES NO PAYER APPOYED BY THE PROJECT RIGHTER, NO COMBOXES SHALLS BERIED OR PLACED MITTIN SIDEMAKS, SMALLS, DRAINAGE AREAS, OR UNDER ITS DEVICES AND CABINETS	1119	AT FIBER OPTIC CABLE END-TO-END SPLICE LOCATION(S) AND AT FIBER OPTIC CABLE END-OF-RUN LOCATION(S). THE CONTRACTOR SHALL PROVIDE A COMPETET SUSION SPLICE INSTALLATION. FUSION SPLICE INSTALLATION SHALL BE EQUIPPED WITH SPLICE CLOSURE AND SPLICE TRAY (AND F2 COMMBOX IF CABLE IS BURIED AT SPLICE LOCATION).	1105 AI AN TH SH SH TE TE LC
	8 THE CONTRACTOR SHALL CONNECT EACH POLE GROUND SYSTEM IMMEDIATILY AFTER THE POLE HAS BEEN PLACED ON ITS FOUNDATION. NO METAL POLE SHALL BE LEFT UNGROUNDED AFTER IT HAS BEEN PLACED ON ITS FOUNDATION. 1132	1118	THIS PROJECT SHALL BE LIMITED TO ZERO (0) END-TO-END SELICES OF THE 36 THER SINGLE MODE FIBER OFFIC CABLE AT LOCATIONS SELECTED BY THE COMPRACTOR AND APPROVED BY THE ENGINEER. TEND-OF-DAY" CABLE CUTS AND SPLICING ARE NOT PERMITTED.	1104 TH
	ANY HOLES EXCAVATED FOR STRUCTURE AND POLE THOUDARTIONS SHALL BE COVERED IF LEFT OPERSIGHT. THE COVERENCE SHALL BE SUFFICIENTLY SECURED TO AVOID UNITED TOWN DISPLICATION OF THE STRUCTURE SRIVE HIS ESSESS OF THE STRUCTURE SHALL DISPLICATION OF THE STRUCTURE AND FOLE SHALL DISPLICATION OF THE STRUCTURE AND FOLE SUBMITARIES.	1117	.,0	
29) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL COMPONENTS (INCLUDING, BUT NOT LIMITED TO, CAMERAS AND CAMERA CONTROLS, VEHICLE DETECTION DEVICES, MIRELESS DEVICES, ETHERNIT FIELD SWITCHES, DYNAMIC MESSAGE SIGNS, AND VIDEO ENCODERS) ARE	DUKLING INSTALLATION OF THE TO APACTMENT (129) MORE THAN ONE ACCESS DRIVE IS AFAILABLE. (129) ANY TRENCHES REQUIRED FOR CONSTRUCTION SHALL BE BACKFILLED THE SAME DAY.	1116	THE LOCATION OF ANY REQUIRED COMMENCES AND/OR ELECTRICAL/FIBER CABLE CONDUITS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT ANY CONFLICTS	1102 TH
28 THE CONTRACTOR SHALL PROVIDE AND INSTALL FIBER OPTIC DROP CABLE FROM THE REQUIRED SPLICE CLOSURE TO THE REQUIRED CONTROLLER AT EACH SIGNALIZED INTERSECTION.	DURING THE INSTALLATION OF 7 EXISTING PAVEMENT WILL NOT E ACCESS TO ALL OPEN BUSINESSE	1114 1115	THE CONTRACTOR SHALL BE REPAIRED BY THE TRHCTOR TO THE SATISFACTION OF THE UTILITY FRANY AND THE ENGINEER. THE COST OF SUCH VAIRS SHALL BE BORNE BY THE CONTRACTOR.	BY CO REE
27 ALL EXISTING SIGNALS SHALL REMAIN FULLY DEBRATIONAL AND CONNECTED TO THE NETHORK VIA INTERCONNECT UNTIL ALL PROPOSED FIBER EQUIPMENT IS INSTRALED AND CONNECTION TO THE FIELD SWITCHES ARE OPERATIONAL.		1113	IT SHALL BE THE CONTRACTION'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS OR LINE OWNERS THE EXACT LOCATION SERVICE TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT, WHETHER SHOWN ON PLANS OR NOT. DAMAGE TO UTILITIES CHOSED	1101 IT CO OF SH
	ALL UNDERGROUND CONDUIT RING SHALL CONTAIN TWO (2) EACH 2 INCH DIAMETER HDPE CONDUIT'S UNLESS OTHERWISE SHOWN ON PLANS. ALL ENCASEMENT RUNS SHALL CONTAIN ONE (1) EACH SECASEMENT RUNS SHALL CONTAIN ONE (1) EACH SECASEMENT RUNS ELECTRICAL COUDUIT 1 LINE TYPE 5 INSTALLATION, UNLESS OTHERWISE SHOWN ON PLANS.	1112	AND THE SHORTEST ROUTE TO SERVE THE ITS CABLUET AND DEVICES. THE CONTRACTOR SHALL HAVE THE POWER SERVICE LOCATION(S) APPROVED BY THE ENGINEER PRIOR TO INSTALLING POWER SERVICE.	AN AN SE TO
25 ALL REQUIRED CCTV AND RVD POLES LOCATED BEHIND GUARDRAIL SHALL BE A MINIMUM OF FOUR (4) FRET BEHIND BACK OF GUARDRAIL POST.	CONDUIT EXPANSION JOINTS SHALL BE INSTALLED EVERY 1125 50 FEET MAXIMUM WHERE CONDUIT IS ATTACHED TO BRIDGE DECK.	01111	LOCATION OF THE POWER SERVICE AS SHOWN IN THE UNSILE APPROXIMATE. THE CONTRACTOR SHALL EXACT LOCATION OF THE POWER SERVICE	TH 0011
JECT.	RANSPORTATION SYSTEMS (ITS) PLAN NOTES SONFLICTS OCCUR BETWEEN THE ITS PLAN NOTES THE MUTCD, THE MUTCD WILL GOVERN.	LIGENT TRAN: EVENT CONFI AND THE	IN THE	
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FISCAL YEAR 2023

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