



Huntsville, Alabama

308 Fountain Circle
Huntsville, AL 35801

Cover Memo

Meeting Type: City Council Regular Meeting **Meeting Date:** 1/12/2023

File ID: TMP-2335

Department: Engineering

Subject:

Type of Action: Approval/Action

Resolution authorizing the Mayor to enter into an agreement between the City of Huntsville and the State of Alabama Department of Transportation for the Installation, Operation and Maintenance of Roadway Lighting for Memorial Parkway from Mastin Lake Road to Winchester Road, ALDOT Project No. NH-0001(610).

Resolution No.

Does this item need to be published? No

If yes, please list preferred date(s) of publication: N/A

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 ☐ District 3 ☐ District 4 ☐ District 5 ☐

Additional Comments:

Agreement between the City and ALDOT for maintenance of street lighting along SR-1 (Memorial Parkway) associated with improvements between Mastin Lake and Winchester Road for roadway improvements, consisting of approximately 1.5 miles of new LED street lighting.

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 the City of Huntsville and the State of Alabama Department of Transportation for the Installation, Operation and Maintenance of Roadway Lighting for Memorial Parkway from Mastin Lake Road to Winchester Road, ALDOT Project No. NH-0001(610), in Huntsville, Alabama, 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 "Agreement between the City of Huntsville and the State of Alabama Department of Transportation for the Installation, Operation and Maintenance of Roadway Lighting for Memorial Parkway from Mastin Lake Road to Winchester Road, ALDOT Project No. NH-0001(610)." consisting of a total of twenty-three (24) pages and the date of January 12, 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 12th day of January, 2023.

President of the City Council of
the City of Huntsville, Alabama

APPROVED this the 12th day of January, 2023.

Mayor of the City of Huntsville, Alabama

For Official Use Only: ALDOT Agreement Number: _____

Region Tracking Number: _____ Project Number: NH-0001(610)

Region: NR - Guntersville County: MADISON

**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 _____ dated (or minutes dated) _____ 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 HUNTSVILLE (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.**

SR-1 / Memorial Pkwy - Roadway Lighting [A, C, 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.

SEE ATTACHED PLANS - NH-0001(610)

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)

Legal Name of MAINTAINING AGENCY

Attest: _____
(Seal or notary signature)

By: _____
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)

Region Tracking Number: _____ Project Number: NH-0001(610)
Region: NR - Guntersville ☐ County: MADISON

7/18/90

EXHIBIT M

CERTIFICATION

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:

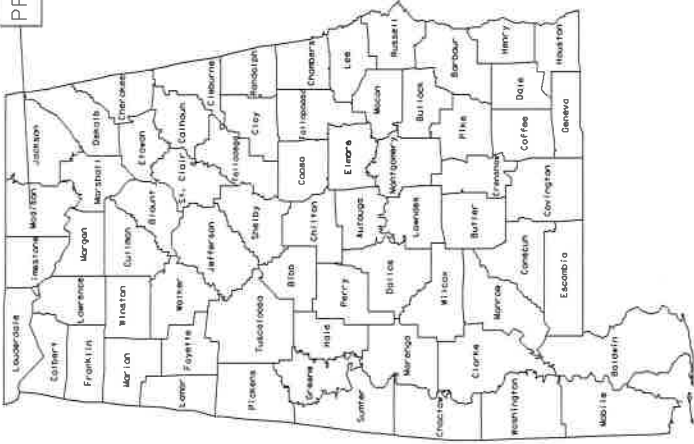
(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the prospective participant/recipient or the person signing on behalf of the prospective participant/recipient as mentioned above, to any person for influencing or attempting to influence an officer or employee of any 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.

PROJECT LOCATION



ALABAMA

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED PROJECT NUMBER NH-0001(610)

SR-1 (MEMORIAL PARKWAY) FROM 0.31 MI S OF CR-75 (MASTIN LAKE RD) TO
CR-65 (WINCHESTER RD) INCLUDING AN OVERPASS AT CR-75
AND ACCESS MANAGEMENT IMPROVEMENTS TO CR-65
GRADE, DRAIN, BASE, PAVE, LIGHTING, SIGNAL, RETAINING WALLS, AND BRIDGES
MADISON COUNTY

Existing Bridge (None)

Existing and Required Bridge Culverts (None)

Required Bridges (Dual Bridges)

INDEX	STA TO	STA	LENGTH	BIN	NO EFFECT	EFFECT
1	117+71.42	121+02.42	331.00	021294 (NBR)	NO EFFECT	
	117+71.42	121+02.42	331.00	021204 (SBR)	NO EFFECT	
TOTAL EFFECT			331.00			

Begin Project
Sta. 102+89.73

Begin Work
Sta. 100+00.00

Equations & Exceptions

Sta. 31+36.310 (METRIC)(BK) = Sta. 102+89.73 (U.S. CUST)(AH)
(NO EFFECT)

	FEET	MILES
Total Stationing of Project	9947.40	
Equations & Exceptions	0.00	
Net Length of Project	9947.40	1.883
Net Length of Bridges	331.00	0.062
Net Length of Roadways	9616.40	1.821

STATE	REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.	LAST SHEET NO.
AL	NH-0001(610)	2023	1	375
CONTRACT ID NO.				

Preliminary Project No. NHF-8510(009)
Code No. 4321-NH04L-100004927-2

Design Designation

ADT (2022)	47,191
ADT (2042)	77,328
K	9%
D	62%
TDHV	5%
TADT	4%
V (Design Speed)	55 MPH
Min. Stopping Sight Dist.	425 FT

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



ALABAMA DEPARTMENT OF TRANSPORTATION
Submitted for Approval:
STATE DESIGN ENGINEER
CHIEF ENGINEER
Approved:
TRANSPORTATION DIRECTOR

PREPARED BY:

BARGE
DESIGN SOLUTIONS

3535 Grandview Parkway // Suite 500 // Birmingham, Alabama 35243
PHONE (205) 298-6074 // FAX (205) 298-6075

ENGINEER:
NO:
DATE:

DE SUBMITTAL
PRINTED OCTOBER 7, 2022

INDEX TO SHEETS

INDEX TO SHEETS									
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2K - 2N		TYPICAL SECTIONS - SIDE ROADS							
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2X		SPECIAL PROJECT DETAIL-REQUIRED UNDERCUT DETAIL							
2Y		SPECIAL PROJECT DETAIL- REOD CSF-36 RETAINING WALL MOUNTED BARRIER DETAIL		101 - 101BC		BRIDGE PLANS			
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RESPONSIBLE PE:		SUPERVISOR:		ALABAMA DEPARTMENT OF TRANSPORTATION		NOT TO SCALE		SHEET TITLE	
DATE:		DATE:		PLAN SUBMITTAL		INDEX TO SHEETS		ROUTE	
				OE		SR-1			

SHEET NO.	DESCRIPTION	
1	TITLE SHEET	
1A	INDEX TO SHEETS	
1-B	INDEX TO SPECIAL AND STANDARD DRAWINGS (INCLUDES SHEET 1-B1)	
1C - 1-D	PLANS LEGEND SHEETS	
1E	TRAFFIC SIGNAL AND ITS LEGEND	
1F - 1-O	PRIMARY SURVEY CONTROL & GEOMETRIC LAYOUT SHEETS	
2 - 2J	TYPICAL SECTIONS - MEMORIAL PARKWAY (SR-1)	
2K - 2N	TYPICAL SECTIONS - SIDE ROADS	
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2P	GENERAL TRAFFIC CONTROL PLAN NOTES	
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2R	TRAFFIC SIGNAL PLAN NOTES	
2S	GENERAL SIGNING PLAN NOTES	
2T	OMITTED	
2U	SPECIAL PROJECT DETAIL-TYPICAL PLACEMENT OF OVERHEAD SIGN BRIDGE ON ROADWAY	
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2W	SPECIAL PROJECT DETAIL-INFILTRATION SWALE	
2X	SPECIAL PROJECT DETAIL-REQUIRED UNDERCUT DETAIL	
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4A	PROFILE SHEET - NBFR AND SBFR STA. 100+00 TO STA. 114+00	
5	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 114+00 TO STA. 128+00	
5A	PROFILE SHEET - NBFR AND SBFR STA. 114+00 TO STA. 128+00	
5B	PROFILE SHEET - NORTH AND SOUTH U-TURNS	
6	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 128+00 TO STA. 142+00	
6A	PROFILE SHEET - NBFR AND SBFR STA. 128+00 TO STA. 142+00	
7	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 142+00 TO STA. 156+00	
7A	PROFILE SHEET - SBFR STA. 142+00 TO STA. 146+16.17	
8	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 156+00 TO STA. 168+50	
9	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 168+50 TO STA. 181+50	
10	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 181+50 TO STA. 194+50	
11	PLAN/PROFILE SHEET - MEMORIAL PARKWAY (SR-1) STA. 194+50 TO END PROJECT	
12	PLAN/PROFILE SHEET - MASTIN LAKE ROAD	
13	PLAN/PROFILE SHEET - NB MEMORIAL PARKWAY ACCESS ROAD & YORK ROAD CONNECTOR	
13A	PLAN/PROFILE SHEET - LAKEWOOD SPECIAL DITCH	
14	PROFILE SHEET - RAMPS	
15 - 18-D	PAVING LAYOUT SHEETS (INCLUDES SHEET 16A)	
19 - 20	OMITTED	
21 - 24-D	STRIPING & SIGNING LAYOUT SHEETS (INCLUDES SHEET 22A)	
25 - 26-B	SIGN FACE DETAILS	
27 - 29A	SIGN CROSS SECTIONS	
29-B	DETAILS OF TYPICAL SLOPE PAVED MONOLITHIC ISLAND	
30	UTILITY OWNERS	
31 - 40	UTILITY PLAN/PROFILE SHEETS	
41 - 48	RETAINING WALL PLAN/PROFILES (INCLUDES SHEETS 41A THROUGH 47A)	
49 - 49N	RETAINING WALL TEST BORINGS	
50 - 50H	REMOVE/RETAIN SHEETS	
51	TRAFFIC SIGNAL LAYOUT US 231 AT MASTIN LAKE	
52 - 56	OMITTED	
57	INTERSECTION GRADING PLAN SHEET	



ALABAMA DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

SHEET TITLE
INDEX TO SHEETS

ROUTE
SR-1

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	3M

REQUIRED ROADWAY LUMINAIRE ASSEMBLY SCHEDULE

POLE NUMBER	REFERENCE LOCATION	STATION	NORTHING	EASTING	SETBACK DISTANCE FROM ETW	REQUIRED ROADWAY LUMINAIRE ASSEMBLY		LUMINAIRE ORIENTATION		LUMINAIRE MOUNTING BRACKET HEIGHT		POLE FOUNDATION, 750C-010 (EACH)	MOUNTING		POLE HEIGHT ORDERED	FED FROM CIRCUIT NUMBER	STD. OR SPECIAL DRAWINGS	REMARKS
						LUMINAIRE ASSEMBLY WITH ONE LED 250 WATT EQUIVALENT (750B-601) EACH	BREAKAWAY DEVICE (750B-606) EACH	A	B	A	B		GROUND	BARRIER	BRIDGE			
P001A1HU	RT 61.11' C.L. US 231	109+00.99	1553744.56	429896.17	8'	1	X	0	180	43.0'	37'	1	X			A1	A.D.F.H	
P002A2HU	LT 95.14' C.L. US 231	110+03.04	1553877.79	429817.58	12'	1		0	180	43.0'	37'	1		X		A2	A.D.F.H	
P003A1HU	RT 52.50' C.L. US 231	110+99.90	1553936.21	429950.08	12'	1	X	0	180	40.0'	32'	1				A1	C.E.G.I.J	
P004A2HU	LT 52.46' C.L. US 231	112+00.98	1554065.13	429881.54	12'	1		0	180	40.0'	29'	1		X		A2	C.E.G.I.J	
P005A1HU	RT 52.40' C.L. US 231	113+00.07	1554126.41	430012.47	12'	1		0	180	40.0'	25'	1		X		A1	C.E.G.I.J	
P006A2HU	LT 52.86' C.L. US 231	113+99.60	1554253.82	429943.54	12'	1		0	180	40.0'	21'	1		X		A2	C.E.G.I.J	
P007A1HU	RT 52.88' C.L. US 231	115+00.23	1554316.42	430075.41	12'	1		0	180	40.0'	16'	1		X		A1	C.E.G.I.J	
P008A2HU	LT 52.86' C.L. US 231	115+99.05	1554443.31	430005.80	12'	1		0	180	40.0'	12'	1		X		A2	C.E.G.I.J	
P009A1HU	RT 52.89' C.L. US 231	117+00.15	1554506.34	430137.83	12'	1		0	180	40.0'	8'	1			X	A1	C.E.G.I.J	
P010A2HU	LT 53.13' C.L. US 231	117+99.34	1554633.38	430068.98	12'	1		0	180	40.0'	8'	1			X	A2	C.E.G.I.J	
P011A1HU	RT 52.32' C.L. US 231	119+00.22	1554696.19	430200.99	12'	1		0	180	40.0'	7'	1				A1	C.E.G.I.J	
P012A2HU	LT 52.32' C.L. US 231	120+00.90	1554824.91	430131.76	12'	1		0	180	40.0'	9'	1				A2	C.E.G.I.J	
P013A3HU	RT 52.93' C.L. US 231	121+00.11	1554886.31	430262.72	12'	1		0	180	40.0'	11'	1			X	A3	C.E.G.I.J	
P014A2HU	LT 52.91' C.L. US 231	122+01.20	1555015.38	430193.73	12'	1		0	180	40.0'	14'	1				A2	C.E.G.I.J	
P015A3HU	RT 52.89' C.L. US 231	123+00.47	1555076.66	430325.23	12'	1		0	180	40.0'	19'	1		X		A3	C.E.G.I.J	
P016A2HU	LT 52.87' C.L. US 231	124+00.83	1555205.02	430296.08	12'	1		0	180	40.0'	24'	1		X		A2	C.E.G.I.J	
P017A3HU	RT 52.88' C.L. US 231	125+01.71	1555267.86	430388.04	12'	1		0	180	40.0'	30'	1		X		A3	C.E.G.I.J	
P018A2HU	LT 52.87' C.L. US 231	125+81.29	1555376.47	430312.42	12'	1		0	180	40.0'	31'	1		X		A2	C.E.G.I.J	
P019A3HU	RT 85.32' C.L. US 231	12674.43	1555421.81	430472.78	7'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P020A2HU	LT 86.04' C.L. US 231	127+60.81	1555551.14	430355.90	13'	1	X	0	180	43.0'	38'	1			X	A2	A.D.F.H	
P021A3HU	RT 85.40' C.L. US 231	128+50.14	1555588.72	430527.71	10'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P022A2HU	LT 45.94' C.L. US 231	129+49.98	1555724.57	430434.10	17'	1		0	180	43.0'	38'	1			X	A2	A.D.F.H	
P023A3HU	RT 85.65' C.L. US 231	130+50.02	1555778.53	430590.35	14'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P024A2HU	LT 54.48' C.L. US 231	131+50.39	1555917.63	430488.55	25'	1		0	180	43.0'	38'	1			X	A2	A.D.F.H	
P025A3HU	RT 85.55' C.L. US 231	132+50.12	1555966.66	430652.71	18'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P026A2HU	LT 54.22' C.L. US 231	133+50.01	1556107.19	430591.11	25'	1		0	180	43.0'	38'	1			X	A2	A.D.F.H	
P027A3HU	RT 85.51' C.L. US 231	134+50.11	1556198.67	430715.11	21'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P028A2HU	LT 54.27' C.L. US 231	135+49.86	1556297.07	430613.45	25'	1		0	180	43.0'	38'	1			X	A2	A.D.F.H	
P029A3HU	RT 85.69' C.L. US 231	136+50.46	1556348.96	430777.82	21'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P030A2HU	LT 54.44' C.L. US 231	137+48.74	1556486.07	430675.37	25'	1		0	180	43.0'	38'	1			X	A2	A.D.F.H	
P031A3HU	RT 85.48' C.L. US 231	138+49.37	1556537.99	430839.72	21'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P032A2HU	LT 54.38' C.L. US 231	139+50.46	1556677.69	430738.40	25'	1		0	180	43.0'	38'	1			X	A2	A.D.F.H	
P033A3HU	RT 85.46' C.L. US 231	140+50.23	1556728.82	430902.39	21'	1		0	180	43.0'	38'	1		X		A3	C.E.G.I.J	
P034A2HU	LT 45.22' C.L. US 231	141+52.12	1556866.41	430810.05	16'	1		0	180	43.0'	40'	1			X	A2	A.D.F.H	
P035A3HU	RT 85.85' C.L. US 231	142+49.04	1556917.72	430964.35	20'	1		0	180	45.0'	40'	1		X		A3	C.E.G.I.J	
P036A4HU	LT 73.16' C.L. US 231	143+50.12	1557063.23	430845.31	9'	1		0	180	43.0'	39'	1			X	A2	A.D.F.H	
P037A3HU	RT 85.36' C.L. US 231	144+50.81	1557109.41	431027.35	23'	1		0	180	44.0'	44'	1		X		A3	C.E.G.I.J	
P038A4HU	LT 67.69' C.L. US 231	145+42.90	1557244.64	430910.79	20'	1		0	180	43.0'	42'	1		X		A4	A.D.F.H	
P039A3HU	RT 76.97' C.L. US 231	146+50.47	1557301.71	431081.71	21'	1		0	180	46.0'	44'	1		X		A3	C.E.G.I.J	
P040A4HU	LT 63.84' C.L. US 231	147+23.66	1557415.19	430970.78	21'	1		0	180	47.0'	44'	1			X	A4	A.D.F.H	
P041A3HU	RT 77.30' C.L. US 231	148+08.87	1557462.09	431131.47	20'	1		0	180	46.0'	43'	1		X		A3	C.E.G.I.J	
P042A4HU	LT 71.14' C.L. US 231	149+00.54	1557585.52	431019.06	25'	1		0	180	47.0'	44'	1			X	A4	A.D.F.H	
P043A3HU	RT 74.16' C.L. US 231	150+00.71	1557633.76	431193.12	20'	1		0	180	46.0'	43'	1		X		A3	C.E.G.I.J	
P044A4HU	LT 76.04' C.L. US 231	151+00.72	1557777.22	431076.90	25'	1		0	180	45.0'	42'	1		X		A4	A.D.F.H	
P045A3HU	RT 82.71' C.L. US 231	152+00.08	1557822.07	431258.73	20'	1		0	180	45.0'	42'	1		X		A3	C.E.G.I.J	
P046A4HU	LT 80.70' C.L. US 231	153+01.46	1557969.39	431135.14	25'	1		0	180	45.0'	42'	1		X		A4	A.D.F.H	
P047A3HU	RT 86.06' C.L. US 231	154+01.48	1558012.35	431324.78	20'	1		0	180	45.0'	42'	1		X		A3	C.E.G.I.J	
P048A4HU	LT 83.35' C.L. US 231	154+97.25	1558156.22	431193.74	25'	1		0	180	46.0'	43'	1		X		A4	A.D.F.H	
TOTAL					38	10						48						

REQUIRED UNDERPASS LUMINAIRE ASSEMBLY SCHEDULE

LUMINAIRE NUMBER	REFERENCE LOCATION	STATION	NORTHING	EASTING	ROADWAY LUMINAIRE ASSEMBLY WITH ONE LED 250 WATT EQUIVALENT (750B-571) EACH	FED FROM CIRCUIT	STD. OR SPECIAL DRAWINGS	REMARKS
UP01	RT 33.40' C.L. US-231	118+39.34	1554644.67	430162.77	1	A1	RLD-001	
UP02	LT 33.05' C.L. US-231	118+39.34	1554665.41	430099.64	1	A1	RLD-001	
UP03	RT 33.40' C.L. US-231	119+05.32	1554707.35	430183.36	1	A1	RLD-001	
UP04	LT 33.05' C.L. US-231	119+05.32	1554728.09	430120.23	1	A1	RLD-001	
UP05	RT 33.40' C.L. US-231	119+63.64	1554762.75	430201.57	1	A1	RLD-001	
UP06	LT 33.05' C.L. US-231	119+63.64	1554778.44	430138.44	1	A1	RLD-001	
UP07	RT 33.40' C.L. US-231	120+38.19	1554833.58	430224.84	1	A1	RLD-001	
UP08	LT 33.05' C.L. US-231	120+38.64	1554854.75	430161.95	1	A1	RLD-001	
TOTAL					8			

STD. OR SPECIAL DRAWINGS	
A. RL-LPF-001	G. RLD-009
B. RL-LPF-003	H. RLD-010
C. RL-LPF-004	I. SHEET 220A
D. RL-LPF-005	J. SHEET 229
E. RL-LPF-006	
F. RL-LPF-007	

* MEASURED FROM POLE FLANGE AT BOTTOM OF POLE.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL		ALABAMA DEPARTMENT OF TRANSPORTATION	SHEET TITLE	ROUTE
						REQUIRED ROADWAY LUMINAIRE ASSEMBLY SCHEDULE	
DATE:	DATE:	DATE:	OFFICE ENGINEER			SR-1	

SUMMARY OF QUANTITIES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	3N

REQUIRED CONDUIT AND CONDUCTOR					
	NUCC	CONDUCTORS		CONDUIT	
	PAY ITEM 750-G		PAY ITEM 750-F	PAY ITEM 750-E	
SERVICE POINT	#6 AWC 2 #6 AWC 1 750G-010 GND	#10 AWC 750F-022 #6 AWC 750F-024 #1/0 AWC 750F-027	1 1/2" RNC 750E-114	3/4" RMC 750E-123	1" RMC 750E-124
A	6200	2000 30000	50	700	220
TOTAL LIN.FT.	6200	2000 30000	50	700	220

REQUIRED ROADWAY LIGHTING MATERIAL LOCATIONS & QUANTITIES

STATION NUMBER	6" ELECTRICAL CONDUIT I LINE, TYPE 5 INSTALLATION ITEM 756A-Q28 LN. FT.	REFERENCE LOCATION	STD. OR SPECIAL DWG. NO.
121+08.33	110	RT 81.40' C.L. US 231	E
125+98.68	40	RT 67.52' C.L. US 231	E
128+69.25	95	LT 54.34' C.L. US 231	E
141+84.31	55	LT 67.51' C.L. US 231	E
148+81.22	115	RT 78.16' C.L. US 231	E
151+80.00	65	RT 82.14' C.L. US 231	E
TOTAL	480 LN. FT.		

REQUIRED TYPE 1 JUNCTION BOX 750D-200 EACH LOGO = ROADWAY LIGHTING		
SIZE	JUNCTION BOX NUMBER (JB1-)	STD. OR SPECIAL DWG. NO.
11" X 18"	1, 2, 3, 4, 5, 6	C
TOTAL	6	

REQUIRED TYPE 2 JUNCTION BOX 750D-201 EACH LOGO = ROADWAY LIGHTING		
SIZE	JUNCTION BOX NUMBER (JB2-)	STD. OR SPECIAL DWG. NO.
12" X 12" x 12"	1, 2, 3, 4	C
TOTAL	4	

REQUIRED TYPE 3 JUNCTION BOX 750D-202 EACH LOGO = ROADWAY LIGHTING		
SIZE	JUNCTION BOX NUMBER (JB2-)	STD. OR SPECIAL DWG. NO.
12 3/4" X 13 1/8"	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	D, G
12 3/4" X 13 1/8"	20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33	D, G
TOTAL	33	

REQUIRED LIGHTING CONTROL CENTER (7501-015) EACH LOGO = LCC		
LCC-	QUANTITY	REFERENCE LOCATION
A	1	STA 117+35.77, LT 151.44' C.L. US-231
TOTAL	1	

REQUIRED SERVICE POLE (750H-005) EACH		
SERVICE POINT SP-	QUANTITY	REFERENCE LOCATION
A	1	STA. 117+48.61, LT 162.63' C.L. US-231
TOTAL	1	

STD. OR SPECIAL DRAWINGS	
A. RLD-002	E. RLD-008
B. RLD-003	F. RLD-011
C. RLD-006	G. SHEET 229
D. RLD-007	

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION		NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	OFFICE ENGINEER				MISCELLANEOUS EQUIPMENT SCHEDULE	SR-1

ELECTRICAL LEGEND AND ABBREVIATIONS

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	220

ELECTRICAL LEGEND

Existing - High Mast Luminaire Assembly to remain		Required - Luminaire Assembly with Two, LED, 250 Watt Equivalent Luminaires	
Required - Electrical Junction Box, Type 1		Required - Luminaire Assembly with One, LED, 250 Watt Equivalent Luminaire	
Required - Electrical Junction Box, Type 2		Required - Roadway Luminaire Assembly with One, LED, Low Profile Underpass Pendant	
Required - Electrical Junction Box, Type 3		Required - Underground Conduit (NUCC)	
Required - Lighting Control Center (LCC) Cabinet		Required - Non-Metallic Conduit in Barrier	
Required - Service Pole		Required - Rigid Metallic Conduit	
		Required - Electrical Conduit Precision Bore	

ABBREVIATIONS

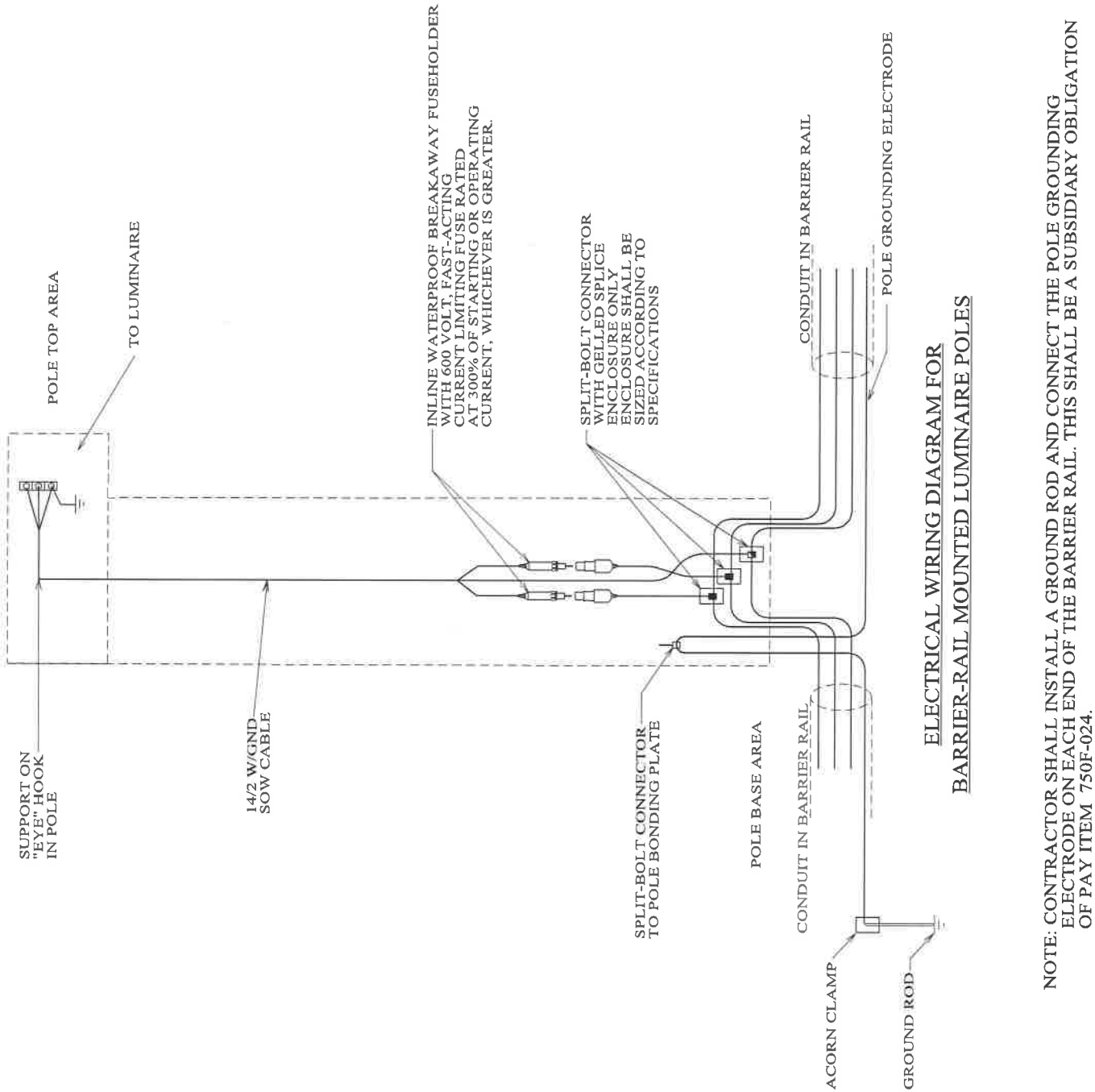
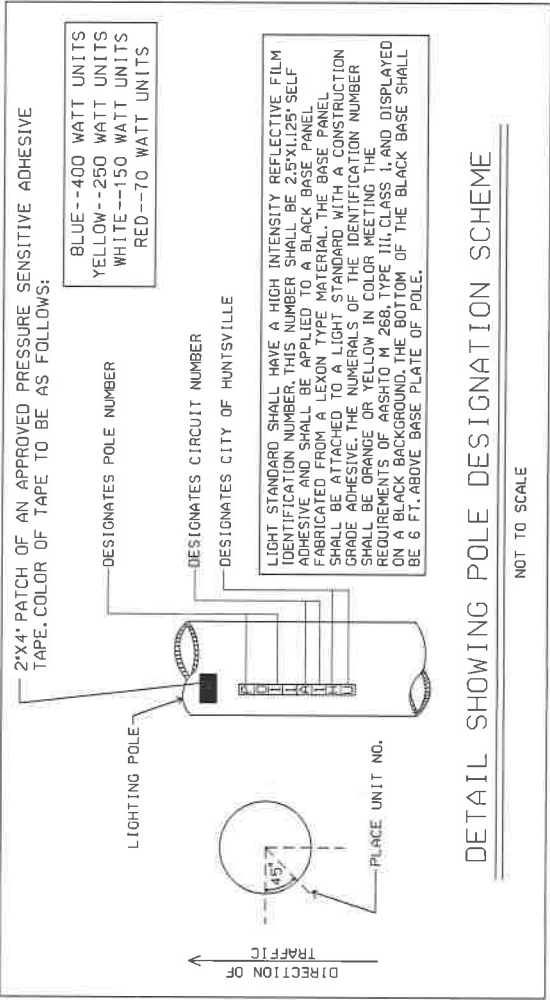
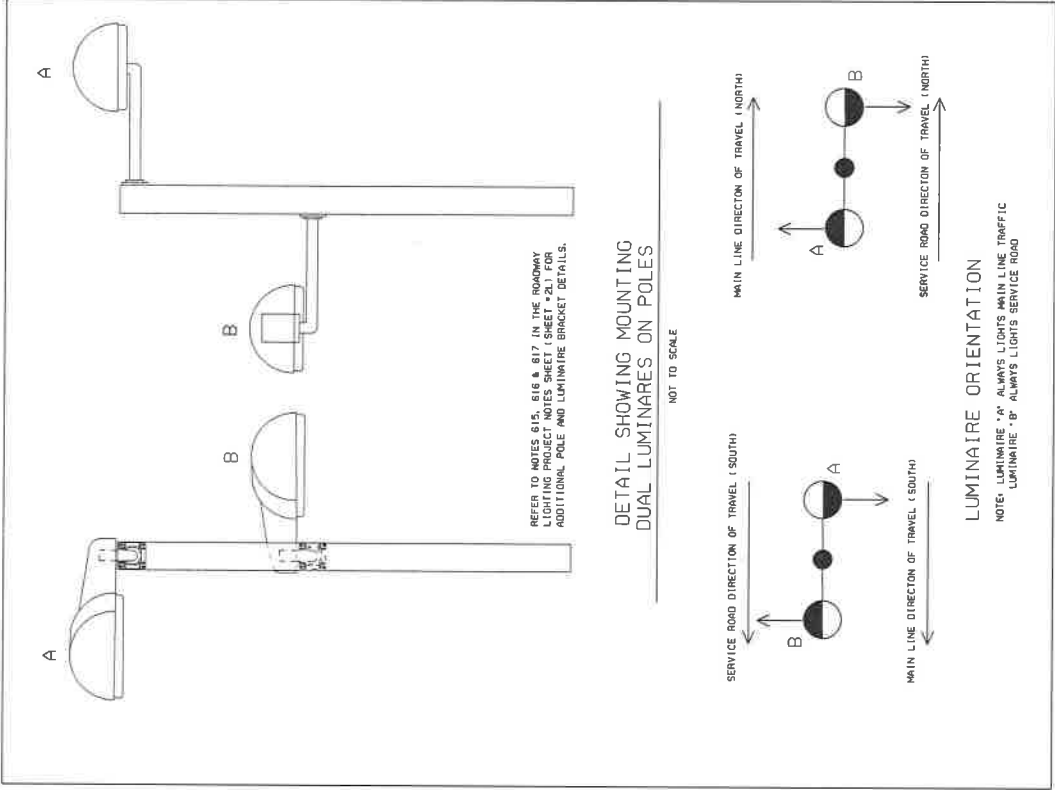
NEC	CURRENT EDITION OF NFPA 70, NATIONAL ELECTRICAL CODE
IES	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
JB	JUNCTION BOX
NUCC	NONMETALLIC UNDERGROUND CONDUIT WITH CABLE
AWG	AMERICAN WIRE GAGE
B.L.	BASELINE
C.L.	CENTERLINE
STA	STATION
LT	OFFSET LEFT
RT	OFFSET RIGHT
ROW	RIGHT OF WAY
CKT	CIRCUIT
HPS	HIGH PRESSURE SODIUM
Vd	VOLTAGE DROP
EP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVELED WAY
EX	EXISTING
GND	GROUND
RNC	RIGID NONMETALLIC CONDUIT
HDPE	HIGH DENSITY POLYTHELENE CONDUIT
LCC	LIGHTING CONTROL CENTER
LUM	LUMINAIRE
LED	LIGHT EMITTING DIODE

LIGHTING DESIGN CRITERIA					
ROADWAY CLASSIFICATION	REQ AVERAGE MAINTAINED ILLUMINATION	MAXIMUM AVG/MIN RATIO	MAXIMUM MAX/MIN RATIO	MAX VEILING LUMINANCE RATIO	
MEMORIAL PARKWAY EXPRESSWAY	0.90 (HORIZONTAL)	3.00 : 1	6.00 : 1	0.3	
LIGHTING PERFORMANCE CRITERIA					
REQUIRED LUMINAIRE DESIGNATION	REQUIRED LUMINAIRE TYPE	IES DISTRIBUTION CLASSIFICATION	AIM/ TILT ANGLE	MINIMUM INITIAL LUMENS	MAXIMUM WATTAGE
ROADWAY LUMINAIRE US-231 / FRONTAGE RD	ROADWAY	TYPE III	0°	20000	150
UNDERPASS LUMINAIRE	PENDANT MOUNT	TYPE V (WIDE)	0°	8500	80

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION	NOT TO SCALE	SHEET TITLE	ROUTE
	DATE:	DATE:	OFFICE ENGINEER			ELECTRICAL LEGEND AND ABBREVIATIONS	SR-1

REQUIRED ROADWAY LUMINAIRE POLE DETAILS

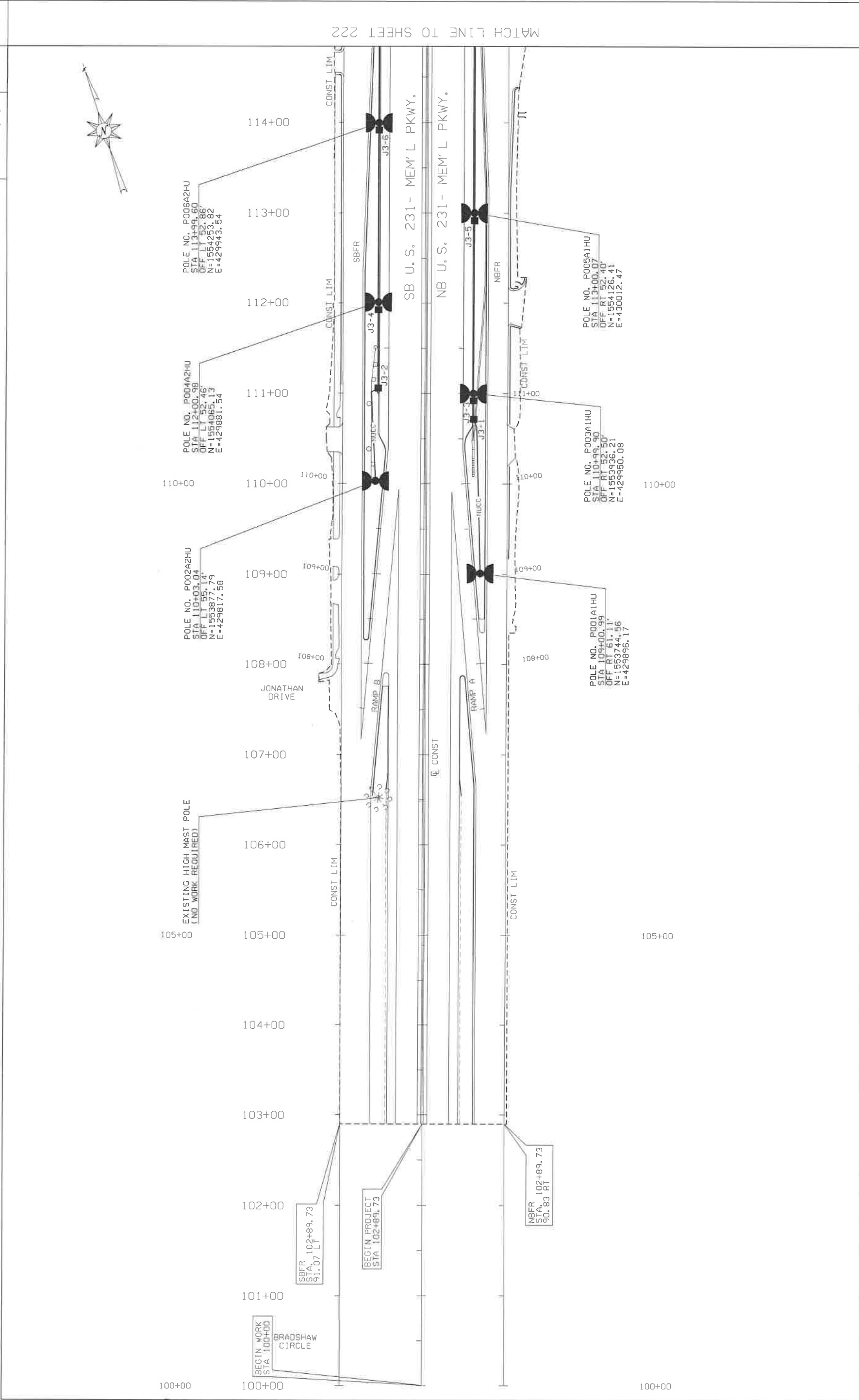
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	220A



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION	NOT TO SCALE	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	OFFICE ENGINEER			REQUIRED ROADWAY LUMINAIRE POLE DETAILS	SR-1

REQUIRED ROADWAY LIGHTING PLAN

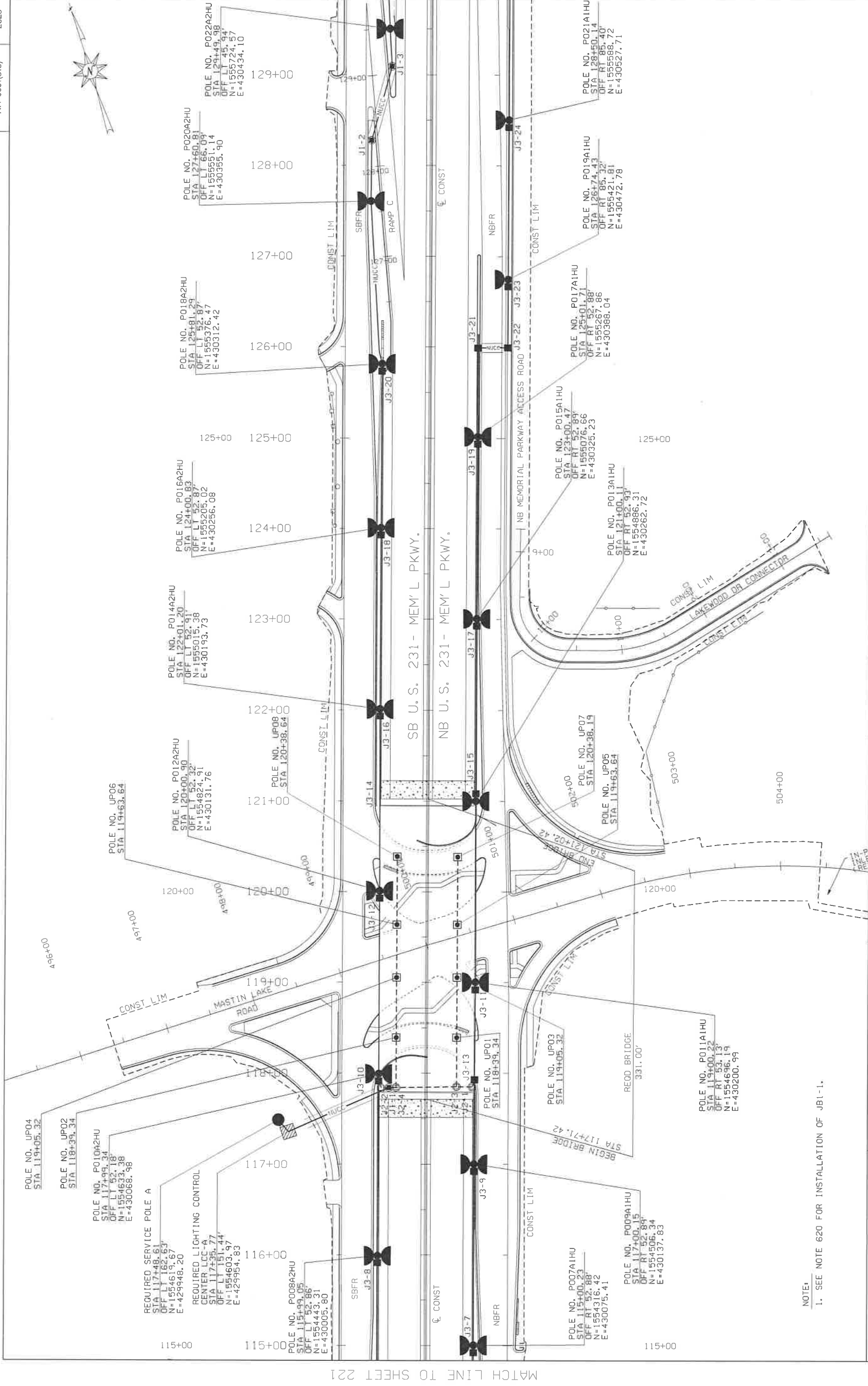
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	221



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL:	ALABAMA DEPARTMENT OF TRANSPORTATION	SCALE (FEET):	SHEET TITLE:	ROUTE:
DATE:	DATE:	DATE:	OFFICE ENGINEER:	TRAFFIC DESIGN SECTION	HORIZ 50' 0 50'	REQUIRED ROADWAY LIGHTING PLAN	SR-1

REQUIRED ROADWAY LIGHTING PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	222

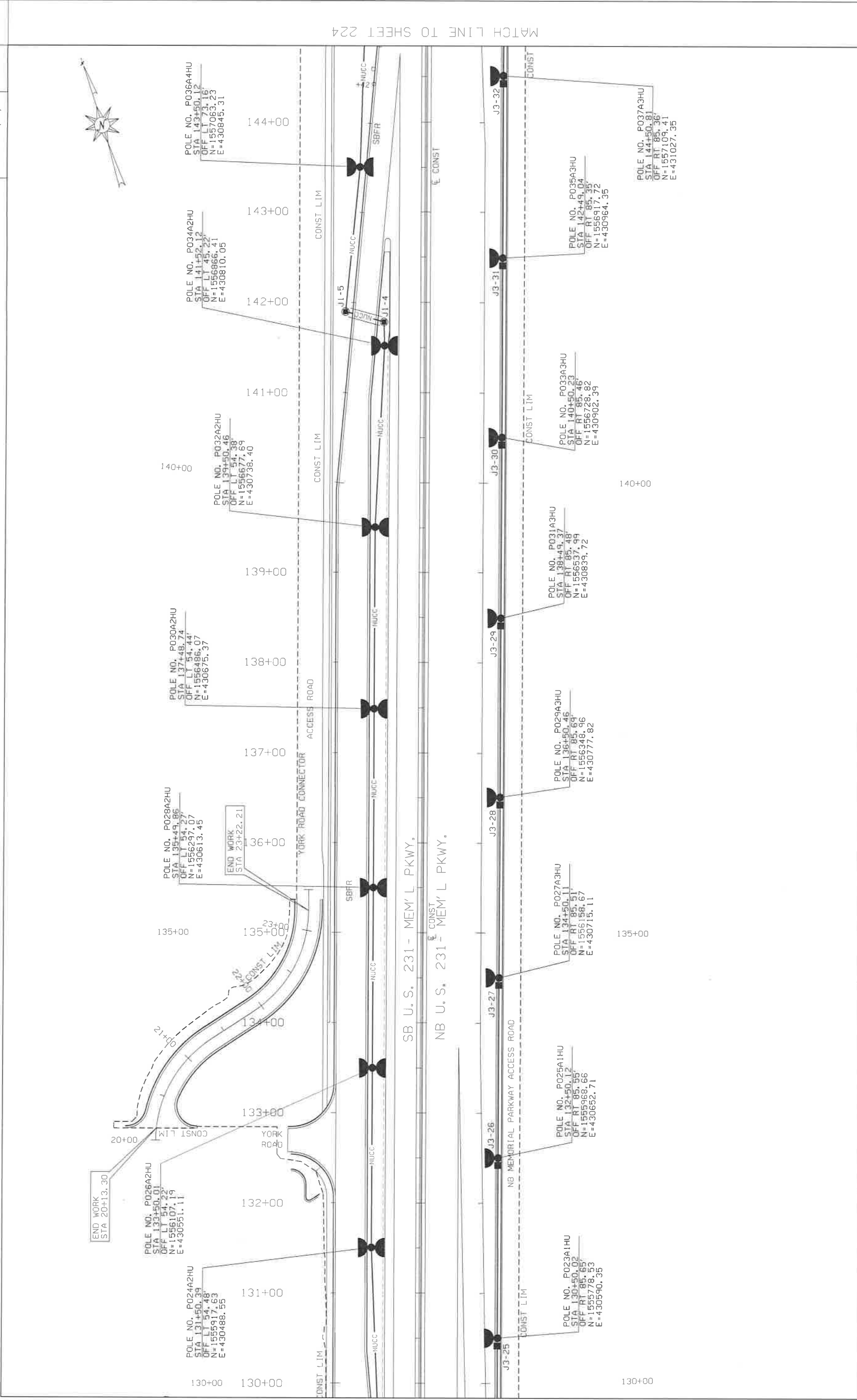


NOTE:
1. SEE NOTE 620 FOR INSTALLATION OF JB1-1.

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	 ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION	50' 0 50' HORIZ SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	OFFICE ENGINEER			REQUIRED ROADWAY LIGHTING PLAN	SR-1

REQUIRED ROADWAY LIGHTING PLAN

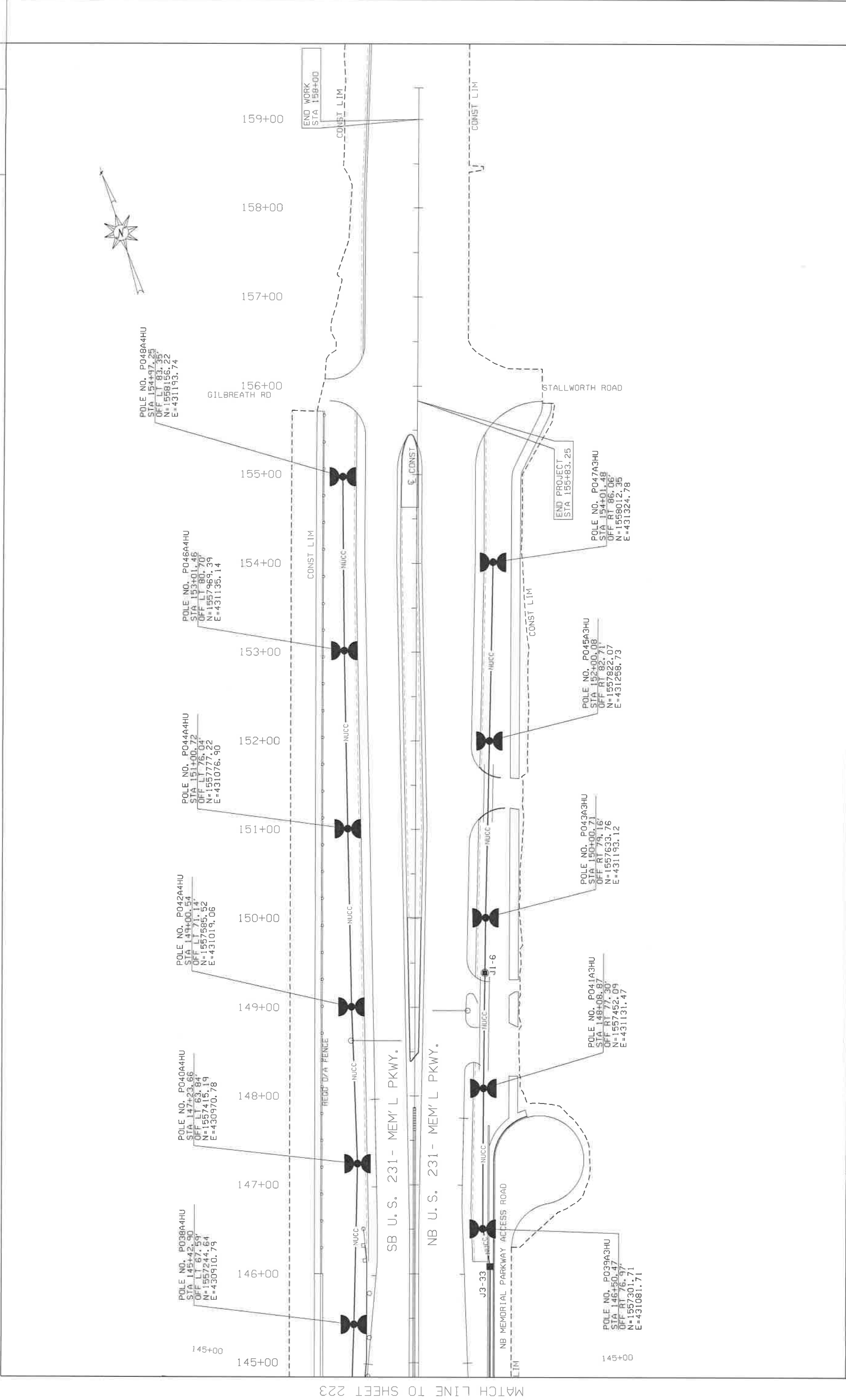
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	223



RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION	HORIZ	SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	OFFICE ENGINEER	TRAFFIC DESIGN SECTION	50' 0 50'		REQUIRED ROADWAY LIGHTING PLAN	SR-1

REQUIRED ROADWAY LIGHTING PLAN

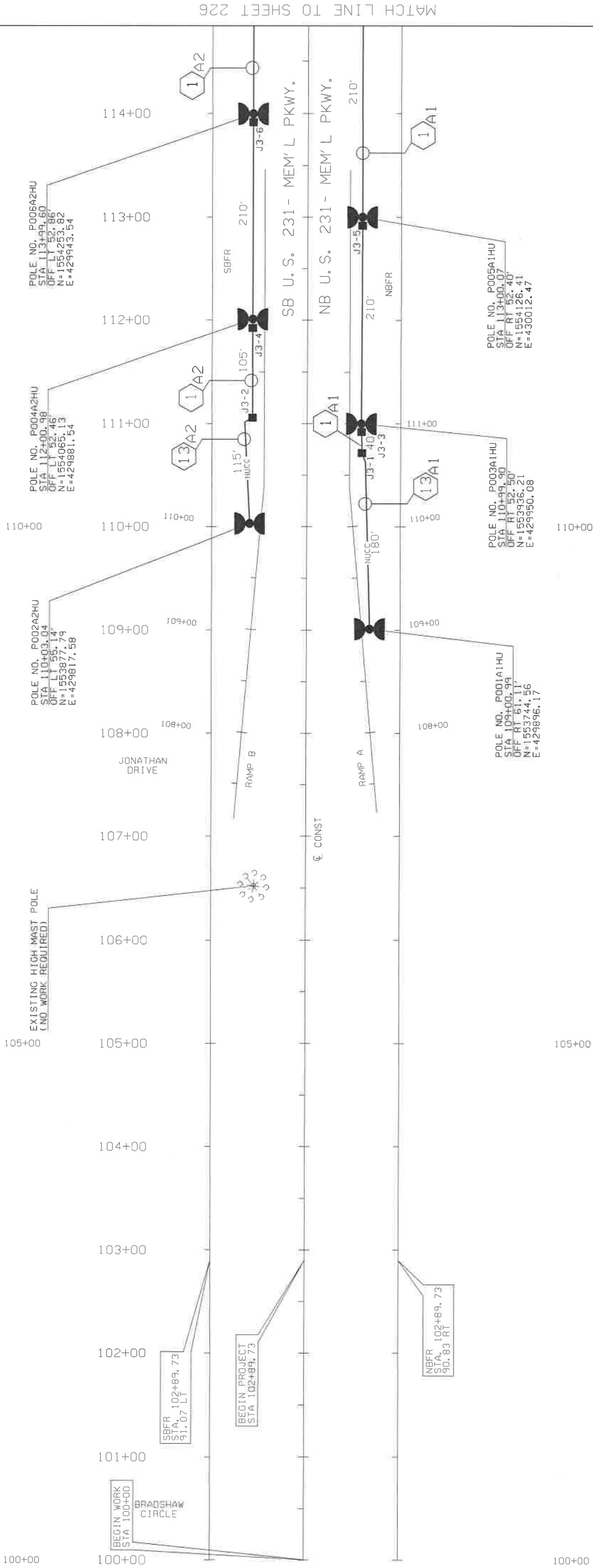
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	224



RESPONSIBLE PE:		SUPERVISOR:		DESIGNER:	PLAN SUBMITTAL		 ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION	HORIZ	 SCALE (FEET)	SHEET TITLE	ROUTE
DATE:		DATE:		DATE:		OFFICE ENGINEER				REQUIRED ROADWAY LIGHTING PLAN	SR-1

REQUIRED SINGLE LINE WIRING DIAGRAM

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	225

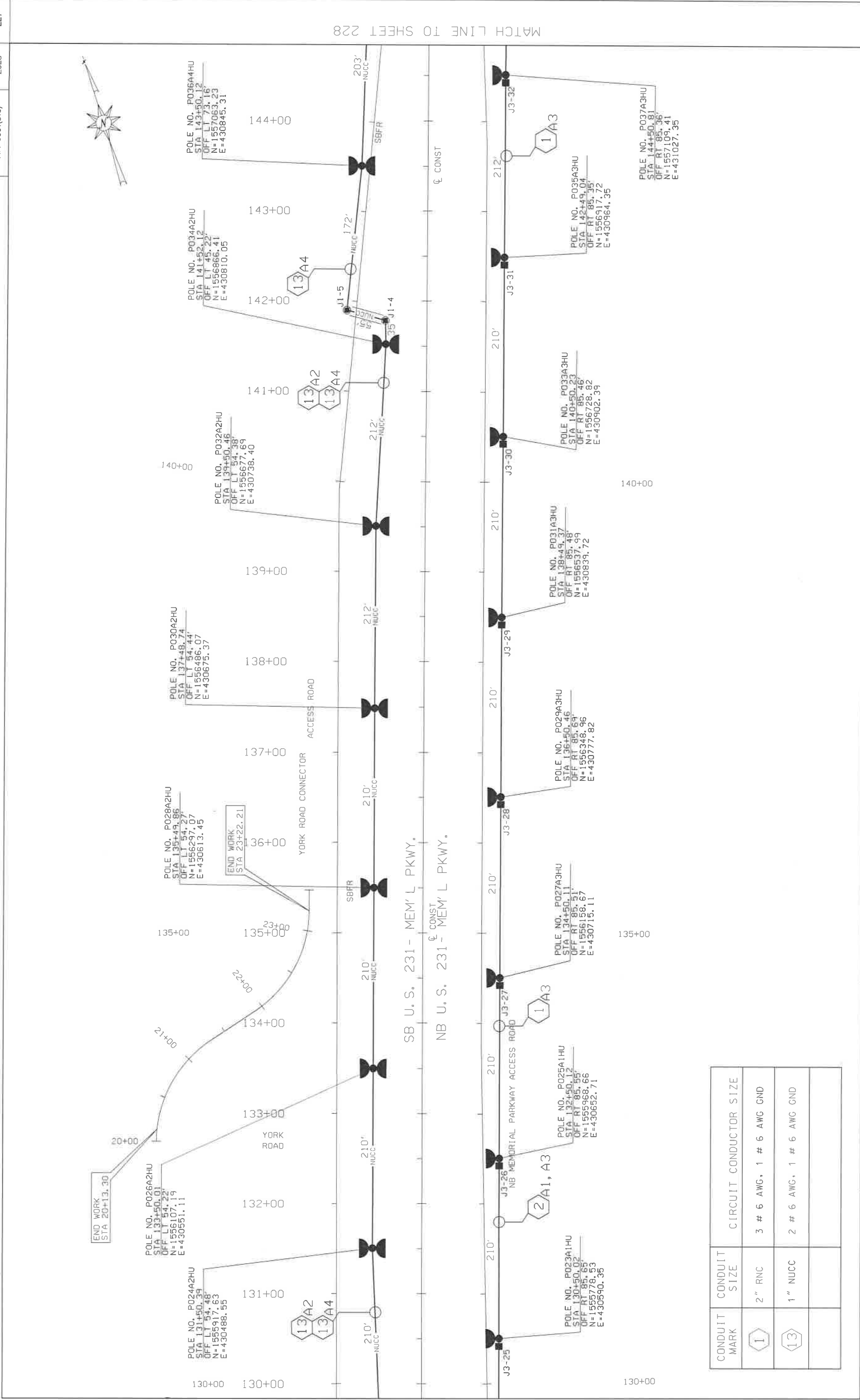


CONDUIT MARK	CONDUIT SIZE	CIRCUIT CONDUCTOR SIZE
1	2" RNC	2 # 6 AWG, 1 # 6 AWG GND
13	1" NUCC	2 # 6 AWG, 1 # 6 AWG GND

RESPONSIBLE PE:		SUPERVISOR:		DESIGNER:	PLAN SUBMITTAL		ALABAMA DEPARTMENT OF TRANSPORTATION		SCALE (FEET)		SHEET TITLE		ROUTE
DATE:		DATE:		DATE:	OFFICE ENGINEER		TRAFFIC DESIGN SECTION		HORIZ		REQUIRED SINGLE LINE WIRING DIAGRAM		SR-1

REQUIRED SINGLE LINE WIRING DIAGRAM

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	227

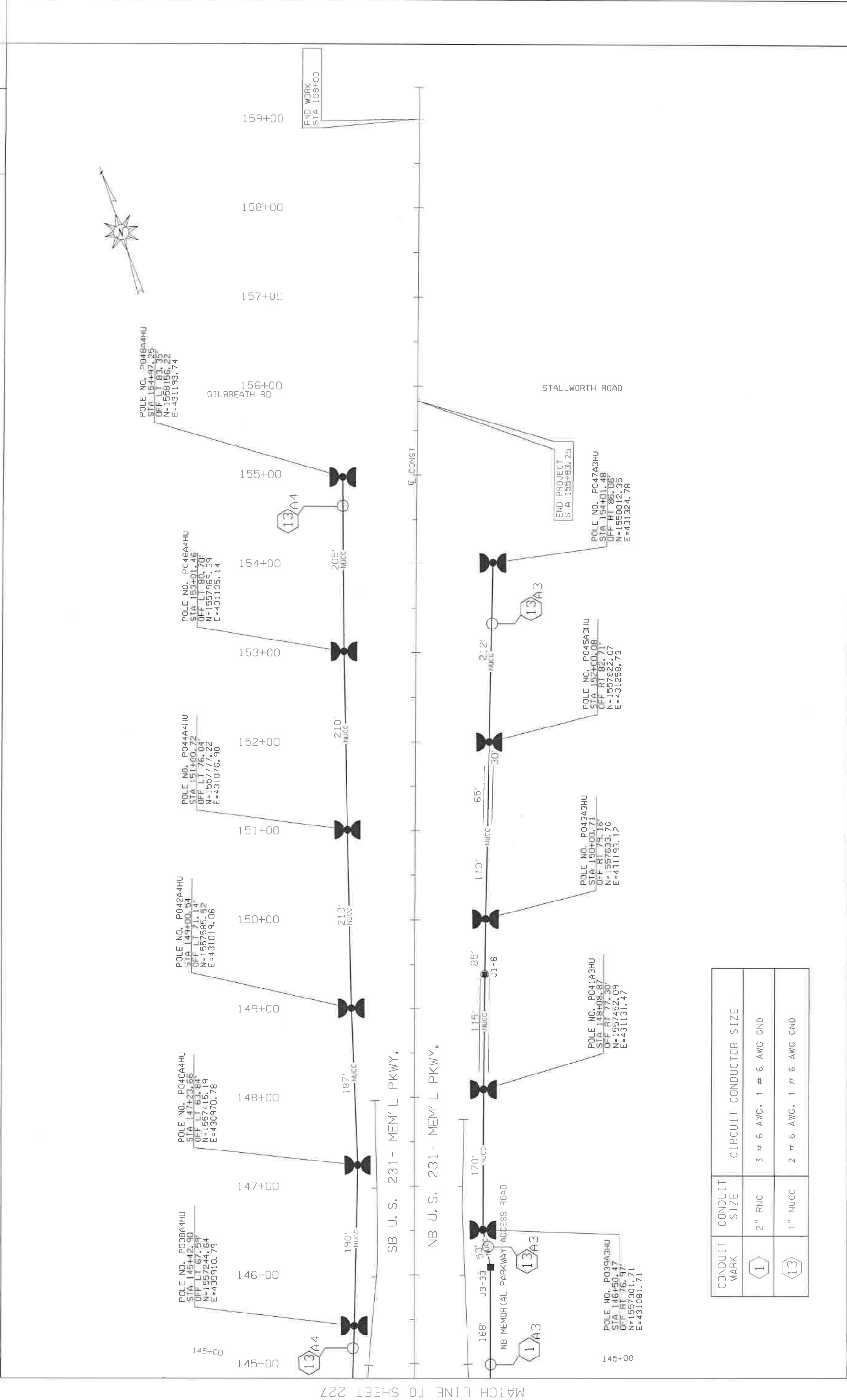


CONDUIT MARK	CONDUIT SIZE	CIRCUIT CONDUCTOR SIZE
1	2" RNC	3 # 6 AWG, 1 # 6 AWG GND
13	1" NUCC	2 # 6 AWG, 1 # 6 AWG GND

RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION	HORIZ	SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	OFFICE ENGINEER					

REQUIRED SINGLE LINE WIRING DIAGRAM

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	226

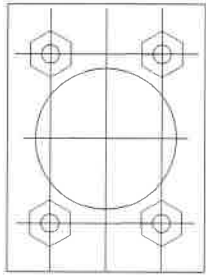
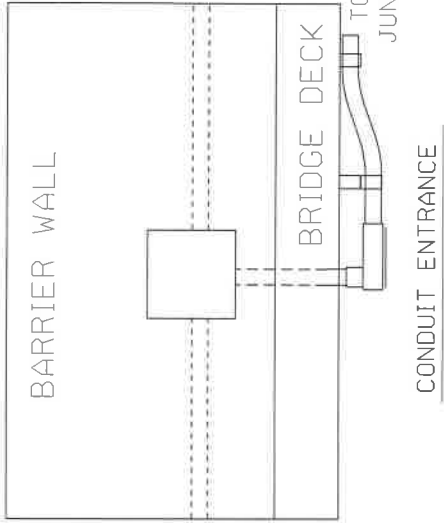
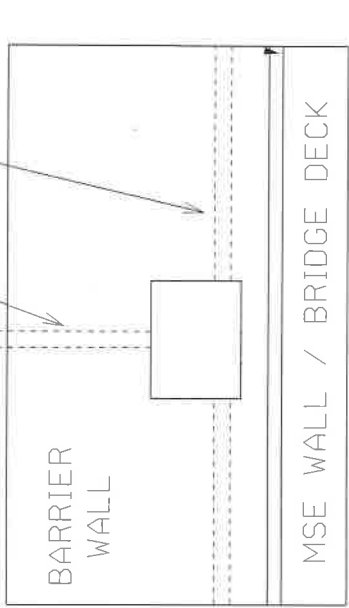
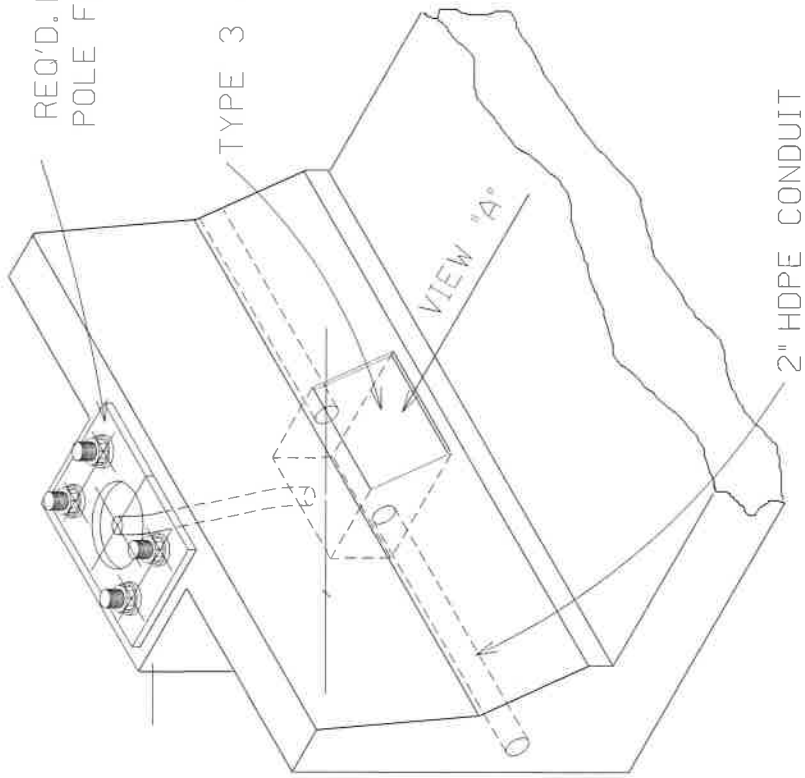


CONDUIT MARK	CONDUIT SIZE	CIRCUIT CONDUCTOR SIZE
1	2" RNC	3 # 6 AWG, 1 # 6 AWG GND
13	1" NUCC	2 # 6 AWG, 1 # 6 AWG GND

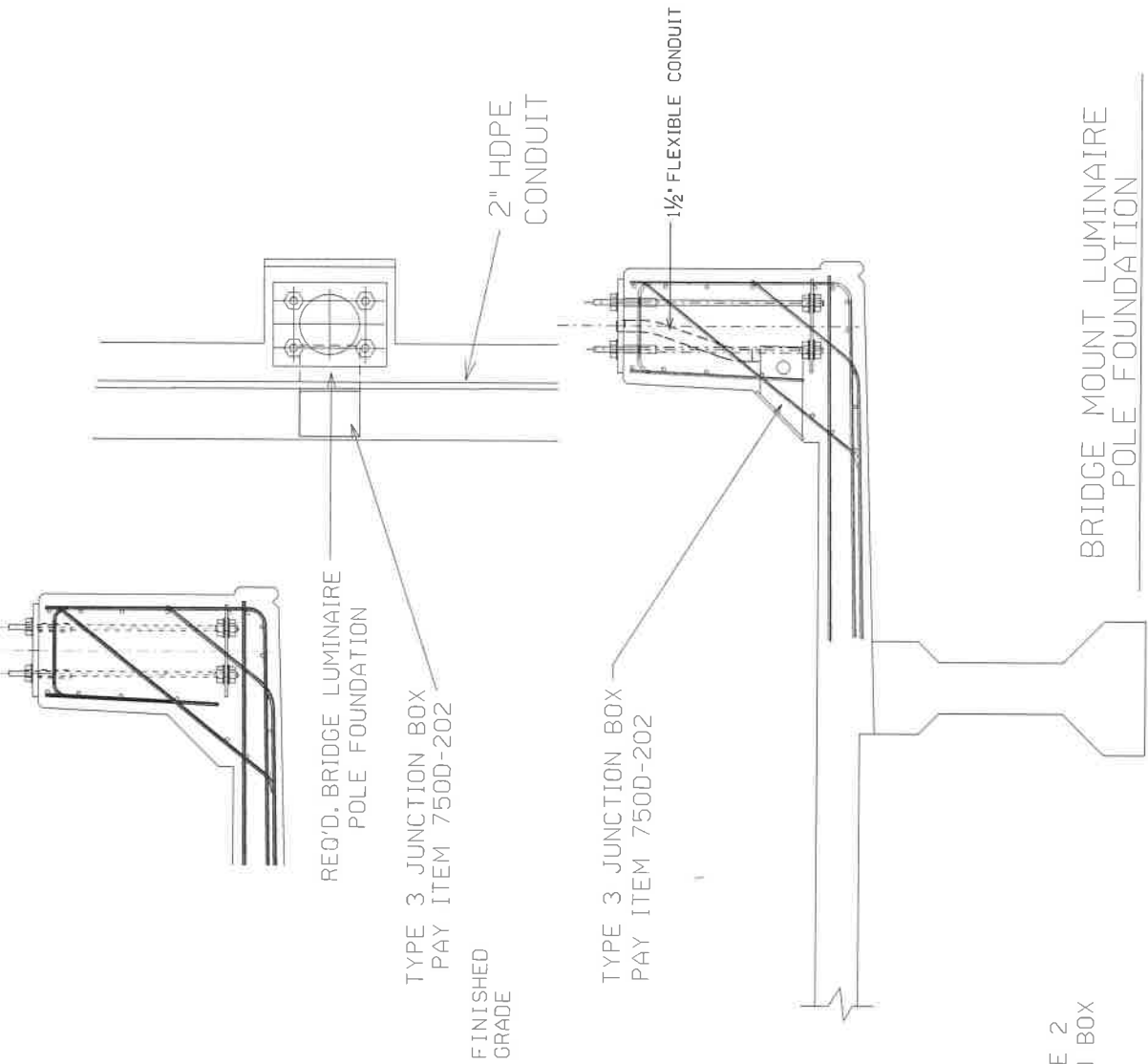
RESPONSIBLE PE:	SUPERVISOR:	DESIGNER:	PLAN SUBMITTAL	 ALABAMA DEPARTMENT OF TRANSPORTATION TRAFFIC DESIGN SECTION	 HORIZ SCALE (FEET)	SHEET TITLE	ROUTE
DATE:	DATE:	DATE:	OFFICE ENGINEER			REQUIRED SINGLE LINE WIRING DIAGRAM	SR-1

SPECIAL PROJECT DETAIL

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
NH-0001(610)	2023	229



FOUNDATION AND BOLTS MUST BE ABLE TO SUPPORT A 43 FT. LUMINAIRE POLE WITH TWO LUMINAIRES



--SPECIFICATIONS--

CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
BARRIER WALL LUMINAIRE POLE
FOUNDATION DETAILS

DRAWN BY: _____
DATE DRAWN: _____
SPECIAL DRAWING NO. _____
INDEX NO. _____

ALABAMA DEPARTMENT OF TRANSPORTATION



PLAN SUBMITTAL
OFFICE ENGINEER

DESIGNER:
DATE:

SUPERVISOR:
DATE:

RESPONSIBLE PE:
DATE:

NOT TO SCALE

TRAFFIC DESIGN SECTION

SHEET TITLE
SPECIAL PROJECT DETAIL

ROUTE
SR-1