GENERAL INDEX

INCLUDED THIS PROJECT		BEGIN WITH SHEET
☐	ROADWAY	1
☐	PERMANENT SIGNS	1001
☐	TRAFFIC SIGNALS	2001
☒	ITS COMPONENTS	3001
☒	LIGHTING	4001
☐	(RESERVED)	5001
☐	ROADWAY STD. DWGS	6001
☐	BOX CULVERT STD. DWGS (LRFD)	7001
☐	BOX CULVERT STD. DWGS (STD. SPEC.)	7501
☐	BRIDGE	8001
☐	CROSS SECTIONS	9001

STATE OF MISSISSIPPI
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

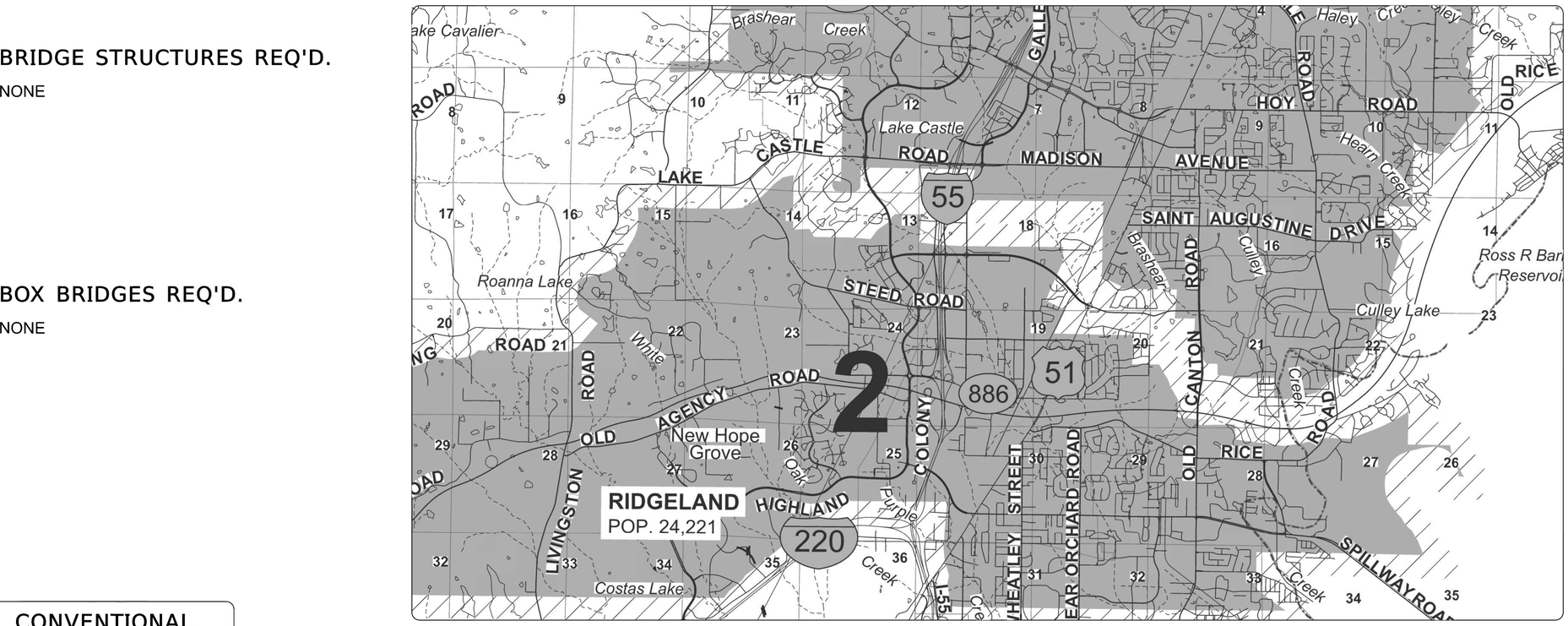
PLAN STAGE	DATE PRINTED
☐ FIELD REVIEW	11/11/24
☐ OFFICE REVIEW	01/28/25
☒ PSE	05/14/25
☐ STREET READY	__/__/__

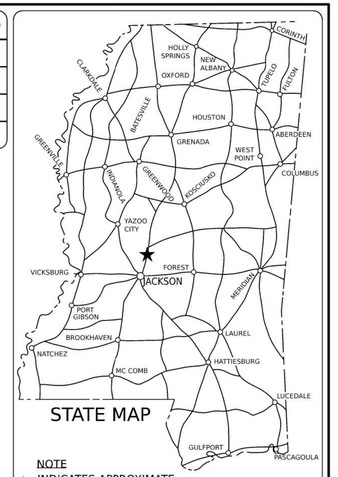
HIGH MAST LED UPGRADE

FEDERAL AID PROJECT NO. STP-0213-00(038)LPA

CITY OF RIDGELAND - I-55 AND OLD AGENCY ROAD LED LIGHTING UPGRADES AND TRAFFIC MONITORING SYSTEM

MADISON COUNTY





STATE MAP

NOTE
★ INDICATES APPROXIMATE LOCATION OF PROJECT.

LAT.	LONG.
(APPROX. MIDDLE OF PROJECT)	

BRIDGE STRUCTURES REQ'D.

NONE

BOX BRIDGES REQ'D.

NONE

DESIGN CONTROL

MPH = V (SPEED DESIGN)

ADT ( ) = : ADT ( ) =
DHV = : D = % T = %

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS

	WATERS	WETLANDS
NATIONWIDE #14	☐	☐
NATIONWIDE (OTHER)*	☐	☐
GENERAL*	☐	☐
INDIVIDUAL (404)*	☐	☐

STORMWATER PERMIT ☒ N

Y	REQUIRED, CNOI SUBMITTED BY MDOT (DISTURBED AREA=5 ACRES)
S	REQUIRED, SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES)
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)

APPROVED BY: _____

CONVENTIONAL SYMBOLS

- COUNTY LINE
- TOWN CORP LINE
- SECTION LINE
- DEED LINE
- EXISTING ROADWAY
- PROPOSED ROADWAY
- RAILROAD
- BRIDGES

LENGTH DATA

	FT.	MI.
LENGTH OF ROADWAY	FT.	MI.
LENGTH OF BRIDGES	FT.	MI.
LENGTH OF PROJECT (NET)	FT.	MI.
LENGTH OF EXCEPTIONS	FT.	MI.
LENGTH OF PROJECT (GROSS)	FT.	MI.

EQUATIONS

NONE

SCALES

PLAN		1 IN.= 100 FT.
PROFILE	HOR.	1 IN.= 100 FT.
	VERT.	1 IN.= 10 FT.
LAYOUT		1 IN.= FT.

EXCEPTIONS

NONE

M. SHANNON WELLS LICENSED PROFESSIONAL ENGINEER 14934 STATE OF MISSISSIPPI

JAMES K. SCHMITT LICENSED PROFESSIONAL ENGINEER 33922 STATE OF MISSISSIPPI

ILLUMINATION

CLAIRE E. MCKINNEY LICENSED PROFESSIONAL ENGINEER 28988 STATE OF MISSISSIPPI

ITS

DESIGNED BY: GARVER

CONSTRUCTION PROJECT DATA

EXTERNAL PROJECT NUMBER	STP-0213-00(038)LPA
FMS & DETAIL	109704/701000

P S & E DATE: 05/14/2025

APPROVED:

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR

TITLE SHEET ILL_Cover.dgn 5/13/2025 7:15:10 PM

DESCRIPTION OF SHEET	SHEET ID	SH. NO.
TITLE SHEET (1)		1
TITLE		
DETAILED INDEX (1)		
DETAILED INDEX	DI-1	2
GENERAL NOTES (1)		
GENERAL NOTES	GN-1	3
SUMMARY OF QUANTITIES (1)		
SUMMARY OF QUANTITIES	SQS-1	4
SPECIAL DESIGN - ROADWAY ITEMS (4)		
CONSTRUCTION SIGNING PLAN	CS-1	5
CONSTRUCTION SIGNING PLAN	CS-2	6
CONSTRUCTION SIGNING PLAN	CS-3	7
CONSTRUCTION SIGNING PLAN	CS-4	8
ITS (6)		
ITS PLAN RIDGELAND - OLD AGENCY ROAD	ITS-1	3001
ITS PLAN RIDGELAND - STEED ROAD	ITS-2	3002
ITS PLAN RIDGELAND - NORTH OF STEED RD	ITS-3	3003
ITS PLAN RIDGELAND - COLONY PARK BLVD	ITS-4	3004
TYPE A CABINET DETAILS	ITS-5	3005
HIGH MAST LUMINAIRE RING CAMERA MOUNTING DETAILS	ITS-6	3006
LIGHTING (15)		
LIGHTING LEGEND AND GENERAL NOTES RIDGELAND	LL-1	4001
LIGHTING REMOVAL PLAN 1 RIDGELAND	LD-1	4002
LIGHTING REMOVAL PLAN 2 RIDGELAND	LD-2	4003
LIGHTING REMOVAL PLAN 3 RIDGELAND	LD-3	4004
LIGHTING REMOVAL PLAN 4 RIDGELAND	LD-4	4005
LIGHTING REMOVAL PLAN 5 RIDGELAND	LD-5	4006
LIGHTING INSTALLATION PLAN 1 RIDGELAND	LP-1	4007
LIGHTING INSTALLATION PLAN 2 RIDGELAND	LP-2	4008
LIGHTING INSTALLATION PLAN 3 RIDGELAND	LP-3	4009
LIGHTING INSTALLATION PLAN 4 RIDGELAND	LP-4	4010
LIGHTING INSTALLATION PLAN 5 RIDGELAND	LP-5	4011
LIGHTING DETAIL 1 RIDGELAND	LD-1	4012
LIGHTING DETAIL 2 RIDGELAND	LD-2	4013
LIGHTING DETAIL 3 RIDGELAND	LD-3	4014
LIGHTING DETAIL 4 RIDGELAND	LD-4	4015
STANDARDS (8)		
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH (4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE)(WORKDAY ONLY)	TCP-2	6352
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH (4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE)(EXTENDED PERIOD)	TCP-3	6353
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS)(MEDIAN LANE OR OUTSIDE LANE CLOSURE)(EXTENDED PERIOD)	TCP-4	6354
TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH (INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS)(MEDIAN LANE OR OUTSIDE LANE CLOSURE)(WORK DAY ONLY)	TCP-5	6355
SHORT DURATION CLOSING OF DIVIDED HIGHWAYS	TCP-7	6357
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	TCP-8	6358
LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)	TCP-15	6365
TRAFFIC CONTROL DETAILS DRUM PLACEMENT AND SHOULDER CLOSURE	TCP-16	6366
TOTAL (37)		

PLAN SHEET

DATE 1:42:53 PM DI.dgn

M. SHANNON WELLS LICENSED PROFESSIONAL ENGINEER 14934 STATE OF MISSISSIPPI

JAMES K. SCHMITT LICENSED PROFESSIONAL ENGINEER 33922 STATE OF MISSISSIPPI

ILLUMINATION

CLAIRE E. MCKINNEY LICENSED PROFESSIONAL ENGINEER 28988 STATE OF MISSISSIPPI

ITS

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD

DETAILED BY: BVW

CHECKED BY: JKS

DATE: MAY 2025

FMS CON: 109704/701000

PROJECT NO.: STP-0213-00(038)LPA

COUNTY: MADISON

DETAILED INDEX
RIDGELAND

SHEET ID
DI-1

SHEET NO.
2

GENERAL NOTES

1. THE LOCATION AND SPACING OF SIGNS SHOWN ON THE TRAFFIC CONTROL PLANS ARE APPROXIMATE AND MAY BE ADJUSTED AS NECESSARY TO FIT THE FIELD CONDITIONS.

2. ALL PLASTIC DRUMS SHALL HAVE A BALLASTING COLLAR MADE FROM RECYCLED TRUCK TIRES OR OTHER SUITABLE MATERIAL.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, PIPES, INLETS, APRONS, BRIDGES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE ENGINEER, ANY STRUCTURES DAMAGED DURING THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.

4. FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL BE USED ON ALL CONSTRUCTION AND TRAFFIC CONTROL SIGNS REGARDLESS OF WHETHER USED DURING DAYTIME OR NIGHTTIME HOURS.

5. VOIDS CREATED BY THE REMOVAL OF POSTS, CONCRETE ANCHORS, FOOTINGS, ETC. SHALL BE BACKFILLED AND TAMPED IN ACCORDANCE WITH SECTION 203 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

6. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING GRADES AND FOR MAKING ADJUSTMENTS AS NECESSARY WITH THE APPROVAL OF THE PROJECT ENGINEER.

7. THE LOCATION OF EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE ENGINEER CANNOT AND DOES NOT WARRANT THAT THIS INFORMATION IS COMPLETE OR ACCURATE. EXCAVATION NEAR UTILITIES SHOWN SHOULD BE DONE WITH CAUTION. PRIOR TO CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES ON THE PROJECT SITE, AND AT THE CONTRACTOR'S EXPENSE, SHALL PROMPTLY REPAIR THOSE WHICH ARE DAMAGED BY HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR MUST COORDINATE THE LOCATION OF MDOT UNDERGROUND LINES (LIGHTING & FIBER OPTICS) WITH THE WHITFIELD PROJECT OFFICE, PHONE 601-354-6358. THE MISSISSIPPI 811 NETWORK (1-800-227-5477) SHOULD BE NOTIFIED PRIOR TO COMMENCEMENT OF EXCAVATION ACTIVITIES.

8. LIST OF PUBLIC UTILITIES:
   A. ELECTRICAL - ENTERGY (1-800-368-3749)
   B. NATURAL GAS - ATMOS ENERGY (888-286-6700)
   C. NATURAL GAS - CENTERPOINT ENERGY (601-856-9348)
   D. WATER & SEWER - CITY OF RIDGELAND (601-856-4646)
   E. CABLE - COMCAST (877-760-5341)
   F. PHONE - AT&T (888-321-2375)
   G. MDOT UNDERGROUND POWER LINES - MICHAEL LEE (601-683-3341) - mlee@mdot.ms.gov
   H. MDOT UNDERGROUND SIGNAL LINES - AMRIK SINGH (601-359-1454) - asingh@mdot.ms.gov

9. ALL TRAFFIC CONTROL DEVICES ON THIS PROJECT SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

10. THE CONTRACTOR SHALL REMOVE, OR REMOVE AND RESET, ANY SIGNS WHICH CONFLICT WITH CONSTRUCTION (NOT A SEPARATE PAY ITEM, EXCEPT WHERE SHOWN IN THE TRAFFIC CONTROL PLANS).

11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SILT DOES NOT LEAVE THE RIGHT OF WAY OR CONTAMINATE WATERS DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF WORK AND MAINTAIN THIS PLAN DURING CONSTRUCTION.

12. WIRE BACKING WILL BE REQUIRED ON ALL SILT FENCES.

13. EQUIPMENT SHOWN ON THESE PLANS ARE IN APPROXIMATE LOCATIONS. ALL EQUIPMENT SHALL BE FIELD LOCATED BY THE CONTRACTOR WITH PROPOSED LOCATIONS APPROVED BY THE CITY OF RIDGELAND. CONTRACTOR TO STAKE EACH LOCATION A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO REVIEW BY THE CITY. THE COST OF FIELD STAKING WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT WILL BE ABSORBED UNDER OTHER ITEMS. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PULL BOXES, AND CONDUIT WITHIN PUBLIC RIGHT OF WAY.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY MAKE-READY COSTS INCURRED TO PROVIDE POWER AND COMMUNICATION SERVICES TO THE EQUIPMENT, AND IS NOT A SEPARATE PAY ITEM (COST ABSORBED).

15. ALL EQUIPMENT SUBMITTALS, UNLESS OTHERWISE ADVISED, SHALL BE IN ACCORDANCE WITH SECTION 631.02.2 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

16. CONTRACTOR TO FIELD VERIFY PTZ CAMERA SITE LOCATION, ORIENTATION, AND INSTALLATION HEIGHT TO ENSURE FIELD OF VIEW, ORIENTATION, AND VANTAGE POINTS OF CAMERAS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

17. CONTRACTOR SHALL COORDINATE WITH EITHER THE CITY OF RIDGELAND POLICE DEPT. OR MADISON COUNTY SHERIFF DEPT FOR TRAFFIC CONTROL ASSISTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL COSTS INCURRED.

18. MISSING POLE HARDWARE SHALL BE REPLACED AT NO ADDITIONAL COST.

19. POWER SERVICE REPLACEMENT PARTS (DISCONNECT AND/OR METER) SHALL BE COST ABSORBED.

20. CONTRACTOR SHALL PROVIDE PROPER TRAFFIC CONTROL (SIGNS, BARRICADES, FLAGMEN, ETC.) WHEN WORKING WITHIN HIGHWAY OR COUNTY RIGHT-OF-WAY. CITY OF RIDGELAND SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS WITHIN ROADWAY RIGHT-OF-WAY. ALL TRAFFIC CONTROL MATERIALS AND PROCEDURES SHALL BE IN FULL COMPLIANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

21. CONTRACTOR SHALL ENSURE THAT ACCESS TO EXISTING RESIDENCES AND BUSINESSES IS MAINTAINED DURING ALL PHASES OF CONSTRUCTION, AND SHALL BE RESPONSIBLE FOR ALL RELATED COORDINATION.

22. CONSTRUCTION SAFETY IS A PROJECT REQUIREMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFETY EQUIPMENT AND/OR METHODS NECESSARY FOR THE SAFE PROSECUTION OF THE WORK BY HIS PERSSONEL AND THE PERSONNEL OF ANY SUB-CONTRACTORS, AS WELL AS PROVIDING SAFE ACCESS AND SITE CONDITIONS TO ALL ELEMENTS OF THE PROJECT FOR THE OWNER, ENGINEER, AND THEIR REPRESENTATIVES. SUCH SAFETY REQUIREMENT SHALL MEET OSHA GUIDELINES.

23. ALL EXISTING SIGNS, FENCES, MAILBOXES, AND OTHER INCIDENTAL STRUCTURES LOCATED WITHIN THE PROJECT CONSTRUCTION LMITS SHALL BE TEMPORARILY REMOVED AND RE-ESTABLISHED AS REQUIRED BY THE CONSTRUCTION ACTIVITIES. THERE SHALL BE NO SEPARATE PAYMENT MADE FOR THIS WORK. ANY DAMAGED ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

24. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN ON THESE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND REPRESENTATIVE OF CONDITIONS ON APRIL 21, 2024, AND MAY NOT BE REPRESENTATIVE OF EXISTING CONDITIONS AS OF THE DATE OF THESE DRAWINGS. PRIOR TO EXECUTION OF A CONTRACT, THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE TO DETERMINE THE SCOPE OF WORK.

25. MATERIAL SUBMITTALS SHALL BE MADE TO THE OWNER THROUGH THE ENGINEER PRIOR TO USE, FOR APPROVAL. ALL MATERIALS SHALL BE NEW; USED MATERIALS SHALL NOT BE INSTALLED.

26. THE CONTRACTOR SHALL ASSIGN A COMPETENT, EXPERIENCED, AND EMPLOYED SUPERINTENDENT TO BE ON SITE AT ALL TIMES DURING ALL PHASES OF CONSTRUCTION. WORK ON THE PROJECT SITE SHALL CEASE IF THE SUPERINTENDENT IS NOT ON SITE FOR EXTENDED PERIODS OF TIME.

M. SHANNON WELLS LICENSED PROFESSIONAL ENGINEER 14934 STATE OF MISSISSIPPI

JAMES K. SCHMITT LICENSED PROFESSIONAL ENGINEER 33922 STATE OF MISSISSIPPI

ILLUMINATION

CLAIRE E. MCKINNEY LICENSED PROFESSIONAL ENGINEER 28988 STATE OF MISSISSIPPI

ITS

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: MAY 2025

FMS CON: 109704/701000/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

GENERAL NOTES

SHEET ID **GN-1**

SHEET NO. **3**

PLAN SHEET

DATE 1:43:01 PM GN.dgn

SUMMARY OF QUANTITIES (SHEET 1)

PAY ITEM NO.	PAY ITEM	UNIT	MADISON : 109704-701000		
			Prelim	Final	
	Base Bid				
907-618-A001	Maintenance of Traffic	LS	1		
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	75		
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	904		
619-G4005	Barricades, Type III, Single Faced	LF	48		
619-G7001	Warning Lights, Type "B"	EA	4		
620-A001	Mobilization	LS	1		
907-636-B053	Electric Cable, Underground in Conduit, THHN, AWG #6, 3 Conductor	LF	3,004		
907-637-D002	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 2"	LF	15		
907-650-A003	On Street Video Equipment, PTZ Type	EA	3		
907-659-A001	Traffic Management Center Modifications	LS	1		(1)
907-660-A001	Equipment Cabinet, Type A	EA	3		(3)
907-663-A001	Network Switch, Type A	EA	4		
907-683-G1003	Renovation of High Mast Lighting Assembly, Type 100-6-S	EA	11		(4)
907-683-G1005	Renovation of High Mast Lighting Assembly, Type 130-6-S	EA	4		
907-683-G1006	Renovation of High Mast Lighting Assembly, Type 130-4-S	EA	3		
907-683-G1010	Renovation of High Mast Lighting Assembly, Type 100-4-A	EA	3		
907-683-G2001	Repair of High Mast Lowering Device, Type 100-4-S	EA	3		(5)
907-683-H1007	Renovation of Low Mast Lighting Assembly, Type A	EA	13		(6)
	Add Option #1				
907-659-B002	Traffic Management Center Modifications - Monitor Systems at Old Agency Road	EA	1		(2)
	Add Option #2				
907-659-B002	Traffic Management Center Modifications - Monitor Systems at Steed Road	EA	1		(2)
	Add Option #3				
907-659-B002	Traffic Management Center Modifications - Monitor Systems at Colony Park Blvd	EA	1		(2)

(1) INCLUDES INTEGRATION OF NEW PTZ CAMERAS INTO THE TRAFFIC MANAGEMENT CENTER (TMC) SYSTEM
(2) INCLUDES INSTALLATION OF A VIDEO DETECTION PROCESSOR INTO THE TRAFFIC MANAGEMENT CENTER (TMC) SYSTEM
(3) INCLUDES MOUNTING HARDWARE AND INSTALLATION ON EXISTING HIGH MAST RING FIXTURE
(4) TO BE USED FOR ANY WORK PERFORMED ON TYPE 100-6-S, 100-5-S, OR 130-5-S HIGH MAST LIGHT POLES
(5) APPLIES TO ALL CAMERA INSTALLATIONS NOTED ON THE PLANS. EXACT POLE HEIGHT AND/OR NUMBER OF LIGHT FIXTURES MAY VARY AND SHALL BE VERIFIED DURING CONSTRUCTION.
(6) INCLUDES INSTALLATION OF NEW MAST ARM AND LED FIXTURE

M. SHANNON WELLS LICENSED PROFESSIONAL ENGINEER 14934 STATE OF MISSISSIPPI

JAMES K. SCHMITT LICENSED PROFESSIONAL ENGINEER 33922 STATE OF MISSISSIPPI
ILLUMINATION

CLAIRE E. MCKINNEY LICENSED PROFESSIONAL ENGINEER 28988 STATE OF MISSISSIPPI
ITS

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

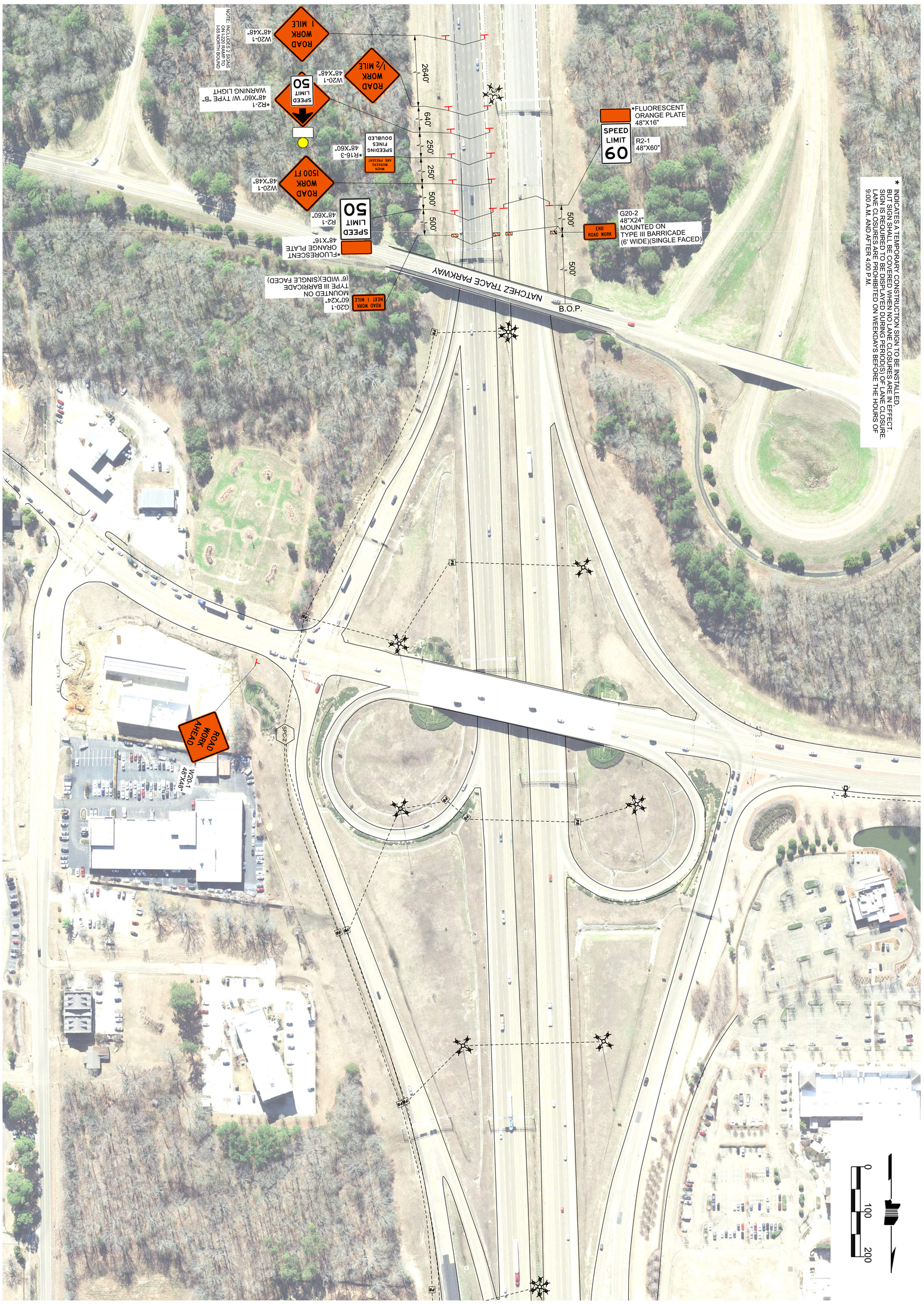
DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

SUMMARY OF QUANTITIES

WK. NO. **SQS-1**
SHEET NO. **4**

PLAN SHEET
DATE 1:49:16 PM SQ.dgn



* INDICATES A TEMPORARY CONSTRUCTION SIGN TO BE INSTALLED, BUT SIGN SHALL BE COVERED WHEN NO LANE CLOSURES ARE IN EFFECT. SIGN IS REQUIRED TO BE DISPLAYED DURING PERIOD(S) OF LANE CLOSURE. LANE CLOSURES ARE PROHIBITED ON WEEKDAYS BEFORE THE HOURS OF 9:00 A.M. AND AFTER 4:00 P.M.

SHEET NO. 5	SHEET ID CS-1	**CONSTRUCTION SIGNING PLAN**	FMS CON: 109704/701000
			PROJECT NO.: STP-0213-00(038)LPA
			COUNTY: MADISON

DESIGNED BY: GARVER
DETAILED BY: CLK
CHECKED BY: TWB
DATE: APRIL 2025

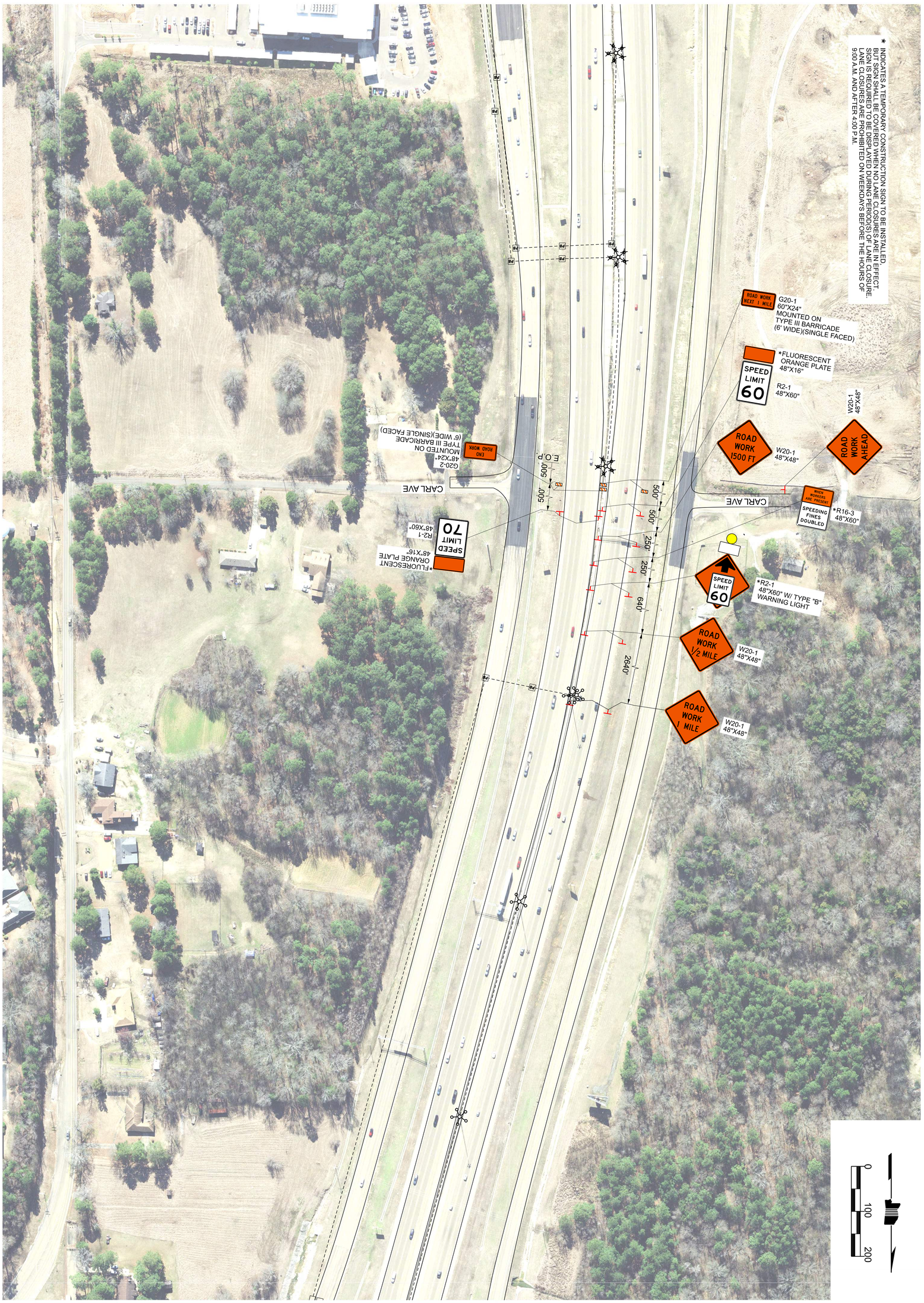
MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

M. SHANNON WELLS REGISTERED PROFESSIONAL ENGINEER 14934 STATE OF MISSISSIPPI

SHEET NO. 6	SHEET ID CS-2	**CONSTRUCTION SIGNING PLAN**	FMS CON: 109704/701000 PROJECT NO.: STP-0213-00(038)LPA COUNTY: MADISON	DESIGNED BY: GARVER DETAILED BY: CLK CHECKED BY: TWB DATE: APRIL 2025

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

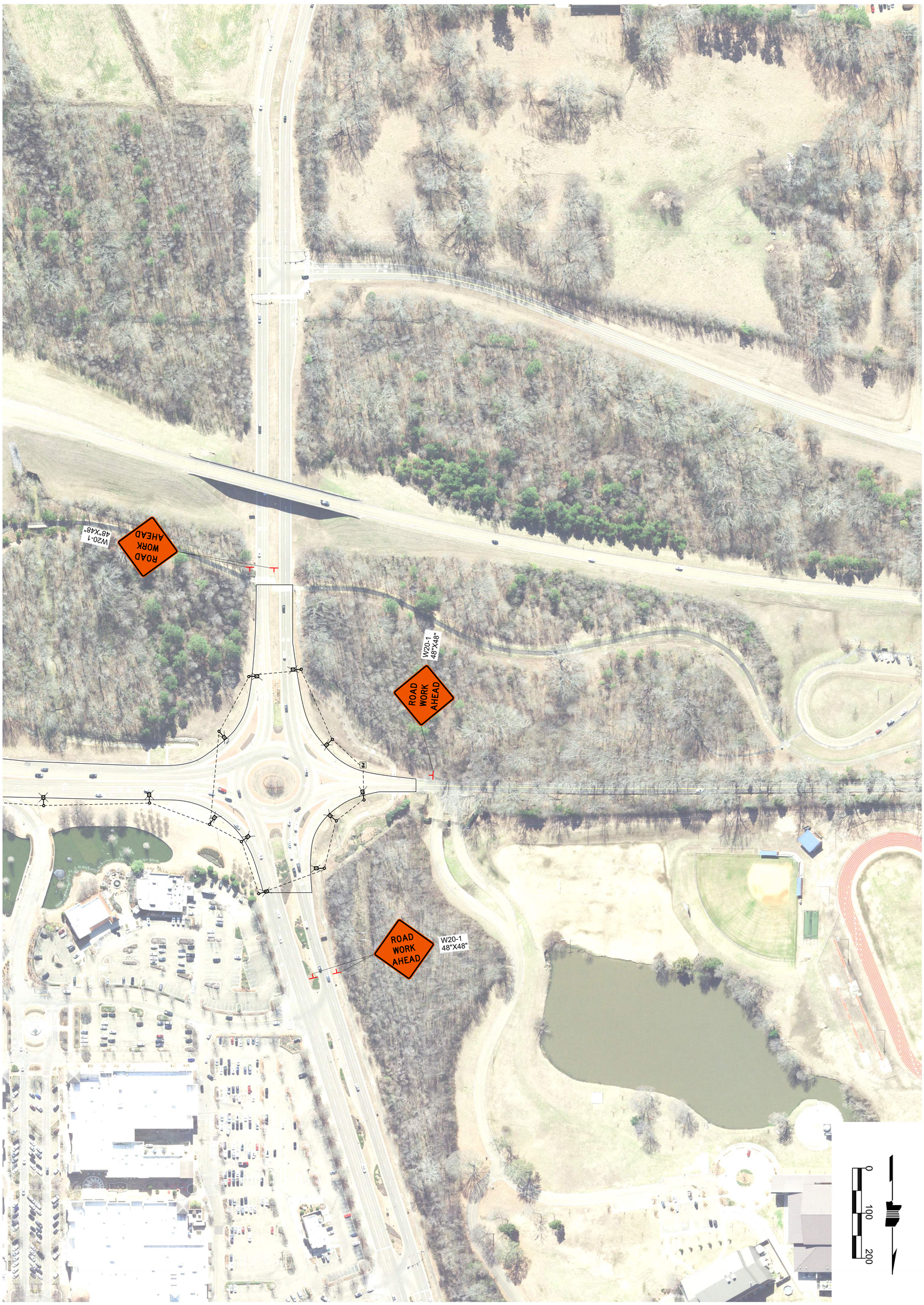
M. SHANNON WELLS
REGISTERED PROFESSIONAL ENGINEER
14934
STATE OF MISSISSIPPI



SHEET NO. 7	SHEET ID CS-3	**CONSTRUCTION SIGNING PLAN**	FMS CON: 109704/701000 PROJECT NO.: STP-0213-00(038)LPA COUNTY: MADISON	DESIGNED BY: GARVER DETAILED BY: CLK CHECKED BY: TWB DATE: APRIL 2025

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

M. SHANNON WELLS — STATE OF MISSISSIPPI — REGISTERED PROFESSIONAL ENGINEER — 14934



SHEET NO. 8

SHEET ID CS-4

CONSTRUCTION SIGNING PLAN

FMS CON: 109704/701000

PROJECT NO.: STP-0213-00(038)LPA

COUNTY: MADISON

DESIGNED BY: GARVER

DETAILED BY: CLK

CHECKED BY: TWB

DATE: APRIL 2025

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

M. SHANNON WELLS REGISTERED PROFESSIONAL ENGINEER 14934 STATE OF MISSISSIPPI

ES-1: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	**Impedance (Ω/1000 ft)**	**Voltage Drop (Volts)**	%VD
ITS-1	ES1 to PTZ1	1	6	331	0.5	120	1	85%	Copper	PVC	**0.44**	**0.14564**	**0.12%**
											Total	**0.14564**	**0.12%**

LEGEND

- CABINET (TYPE AS NOTED)
- EXISTING COMMUNICATIONS PULLBOX
- EXISTING ELECTRICAL PULLBOX
- EXISTING ILLUM. ELECTRICAL SERVICE METER
- EXISTING ELECTRICAL SERVICE METER
- PB EXISTING ILLUMINATION PULL BOX
- — c — EXISTING COMMUNICATIONS CONDUIT
- ------ EXISTING HIGH MAST ILLUM. CONDUIT
- EXISTING HIGH MAST LIGHT POLE
- CCTV PTZ CAMERA

NOTES:

AT INSTALLATIONS OF NEW CONDUCTORS IN EXISTING INFRASTRUCTURE THAT INCLUDES EXISTING ELECTRICAL CIRCUITS, CONTRACTOR SHALL PERFORM AN INSULATION-RESISTANCE TEST ON ALL EXISTING CABLES PRIOR TO INSTALLATION AND ALL EXISTING AND NEW CONDUCTORS AFTER INSTALLATION. ANY EXISTING CONDUCTORS WITH A REDUCTION OF THE INSULATION-RESISTANCE GREATER THAN 10% SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ANY NEW CONDUCTORS THAT FAIL THE INSULATION-RESISTANCE TEST SHALL BE CONSIDERED DEFECTIVE AND REPLACED AT THE CONTRACTOR'S EXPENSE.

CLAIRE E. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
28988
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

ITS PLAN
RIDGELAND - OLD AGENCY RD

SHEET ID
ITS-1

SHEET NO.
3001

PLAN SHEET
5/13/2025 1:45:44 PM ITS-SHT-WK.dgn

0 100 200

ES-2: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
ITS-2	ES2 to PB	1	6	115	0.5	120	1	85%	Copper	PVC	0.44	0.0506	0.04%
ITS-2	PB to PB	1	6	1845	0.5	120	1	85%	Copper	PVC	0.44	0.812142453	0.68%
ITS-2	PB to PTZ2	1	6	405	0.5	119	1	85%	Copper	PVC	0.44	0.17949045	0.15%
ITS-2	ES2 to PTZ3	1	6	275	0.5	119	1	85%	Copper	PVC	0.44	0.122060126	0.10%
											Total	1.164293029	0.97%

LEGEND

- CABINET (TYPE AS NOTED)
- EXISTING COMMUNICATIONS PULLBOX
- EXISTING ELECTRICAL PULLBOX
- EXISTING ILLUM. ELECTRICAL SERVICE METER
- EXISTING ELECTRICAL SERVICE METER
- EXISTING ILLUMINATION PULL BOX
- EXISTING COMMUNICATIONS CONDUIT
- EXISTING HIGH MAST ILLUM. CONDUIT
- EXISTING HIGH MAST LIGHT POLE
- PTZ CAMERA

NOTES:

AT INSTALLATIONS OF NEW CONDUCTORS IN EXISTING INFRASTRUCTURE THAT INCLUDES EXISTING ELECTRICAL CIRCUITS, CONTRACTOR SHALL PERFORM AN INSULATION-RESISTANCE TEST ON ALL EXISTING CABLES PRIOR TO INSTALLATION AND ALL EXISTING AND NEW CONDUCTORS AFTER INSTALLATION. ANY EXISTING CONDUCTORS WITH A REDUCTION OF THE INSULATION-RESISTANCE GREATER THAN 10% SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ANY NEW CONDUCTORS THAT FAIL THE INSULATION-RESISTANCE TEST SHALL BE CONSIDERED DEFECTIVE AND REPLACED AT THE CONTRACTOR'S EXPENSE.

CLAIRE E. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
28988
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: MAY 2025

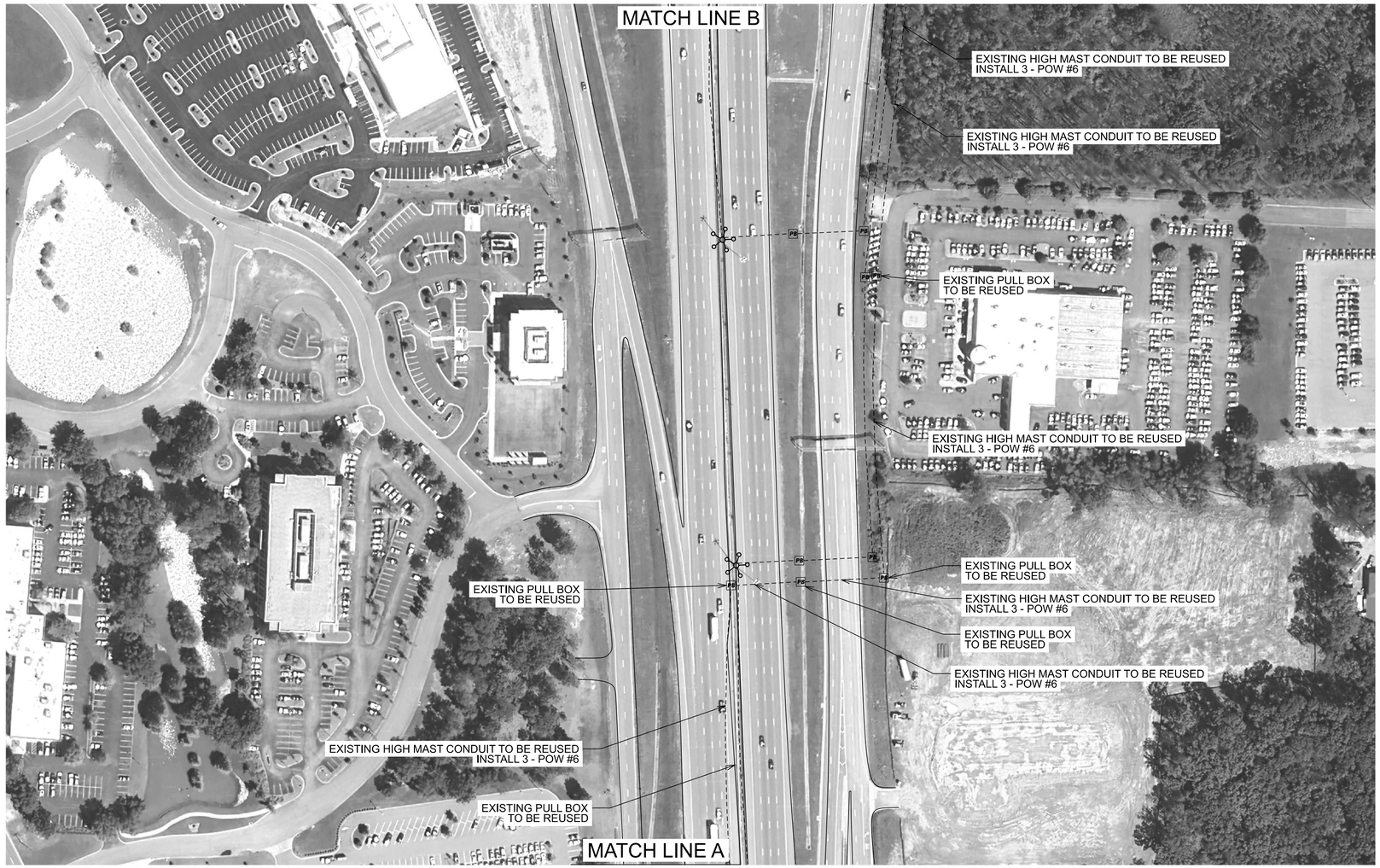
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

ITS PLAN
RIDGELAND - STEED RD

SHEET ID
ITS-2

SHEET NO.
3002

PLAN SHEET
5/13/2025 1:45:54 PM ITS-SHT-WK.dgn



ES-2: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω/1000 ft)	Voltage Drop (Volts)	%VD
ITS-2	ES2 to PB	1	6	115	0.5	120	1	85%	Copper	PVC	0.44	0.0506	0.04%
ITS-2	PB to PB	1	6	1845	0.5	120	1	85%	Copper	PVC	0.44	0.812142453	0.68%
ITS-2	PB to PTZ2	1	6	405	0.5	119	1	85%	Copper	PVC	0.44	0.17949045	0.15%
ITS-2	ES2 to PTZ3	1	6	275	0.5	119	1	85%	Copper	PVC	0.44	0.122060126	0.10%
											Total	1.164293029	0.97%

LEGEND

- CABINET (TYPE AS NOTED)
- EXISTING COMMUNICATIONS PULLBOX
- EXISTING ELECTRICAL PULLBOX
- EXISTING ILLUM. ELECTRICAL SERVICE METER (SPC-2)
- EXISTING ELECTRICAL SERVICE METER
- PB EXISTING ILLUMINATION PULL BOX
- EXISTING COMMUNICATIONS CONDUIT
- EXISTING HIGH MAST ILLUM. CONDUIT
- EXISTING HIGH MAST LIGHT POLE
- PTZ CAMERA (CCTV)

NOTES:

AT INSTALLATIONS OF NEW CONDUCTORS IN EXISTING INFRASTRUCTURE THAT INCLUDES EXISTING ELECTRICAL CIRCUITS, CONTRACTOR SHALL PERFORM AN INSULATION-RESISTANCE TEST ON ALL EXISTING CABLES PRIOR TO INSTALLATION AND ALL EXISTING AND NEW CONDUCTORS AFTER INSTALLATION. ANY EXISTING CONDUCTORS WITH A REDUCTION OF THE INSULATION-RESISTANCE GREATER THAN 10% SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ANY NEW CONDUCTORS THAT FAIL THE INSULATION-RESISTANCE TEST SHALL BE CONSIDERED DEFECTIVE AND REPLACED AT THE CONTRACTOR'S EXPENSE.

CLAIRE E. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
28988
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: MAY 2025

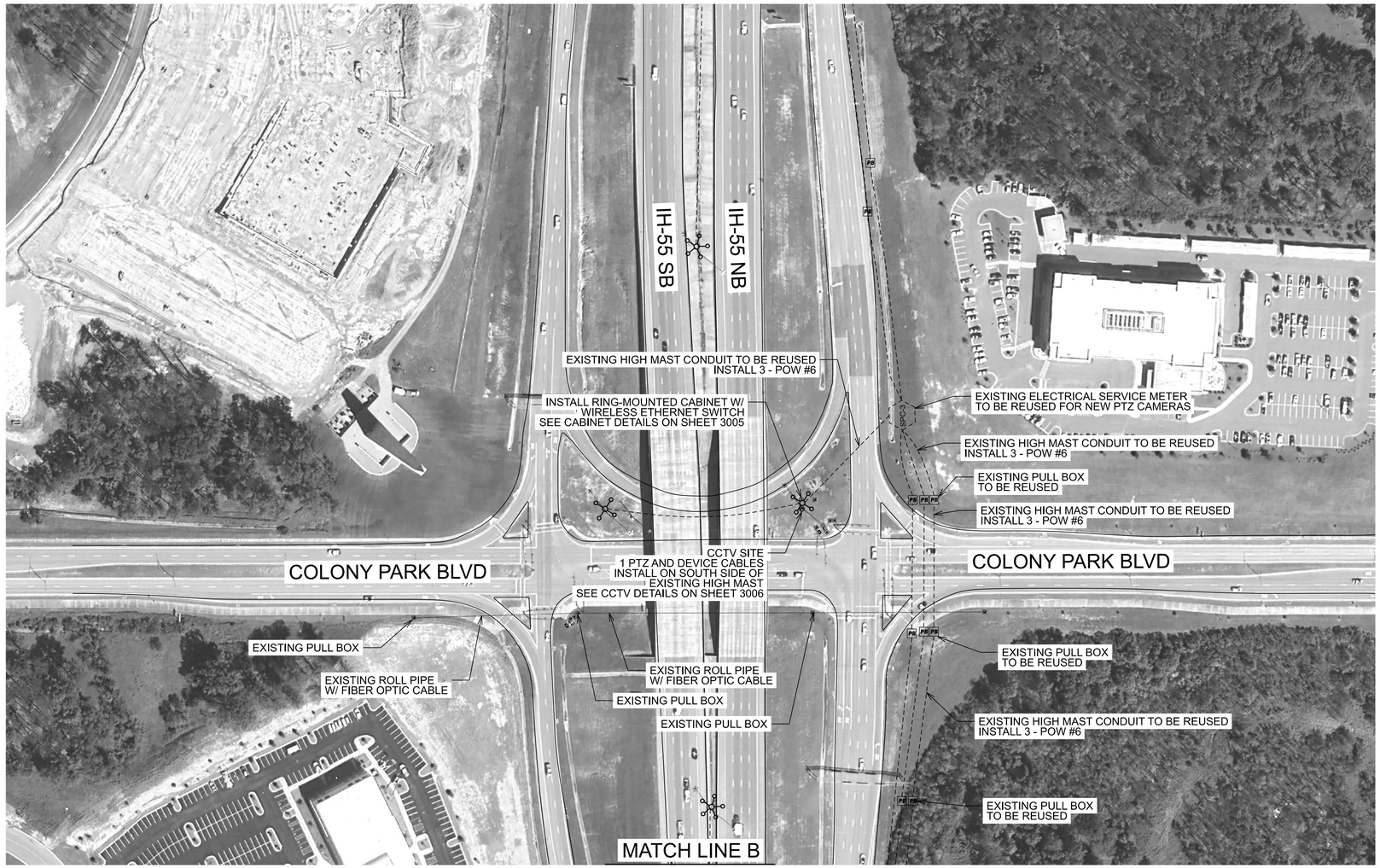
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

ITS PLAN
RIDGELAND - NORTH OF STEED RD

SHEET ID
ITS-3

SHEET NO.
3003

PLAN SHEET
5/13/2025 1:46:03 PM ITS-SHT-WK.dgn



0 100 200

ES-2: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
ITS-2	ES2 to PB	1	6	115	0.5	120	1	85%	Copper	PVC	0.44	0.0506	0.04%
ITS-2	PB to PB	1	6	1845	0.5	120	1	85%	Copper	PVC	0.44	0.812142453	0.68%
ITS-2	PB to PTZ2	1	6	405	0.5	119	1	85%	Copper	PVC	0.44	0.17949045	0.15%
ITS-2	ES2 to PTZ3	1	6	275	0.5	119	1	85%	Copper	PVC	0.44	0.122060126	0.10%
											Total	1.164293029	0.97%

LEGEND

- CABINET (TYPE AS NOTED)
- EXISTING COMMUNICATIONS PULLBOX
- EXISTING ELECTRICAL PULLBOX
- EXISTING ILLUM. ELECTRICAL SERVICE METER
- EXISTING ELECTRICAL SERVICE METER
- PB EXISTING ILLUMINATION PULL BOX
- — c — EXISTING COMMUNICATIONS CONDUIT
- ------ EXISTING HIGH MAST ILLUM. CONDUIT
- EXISTING HIGH MAST LIGHT POLE
- PTZ CAMERA

NOTES:

AT INSTALLATIONS OF NEW CONDUCTORS IN EXISTING INFRASTRUCTURE THAT INCLUDES EXISTING ELECTRICAL CIRCUITS, CONTRACTOR SHALL PERFORM AN INSULATION-RESISTANCE TEST ON ALL EXISTING CABLES PRIOR TO INSTALLATION AND ALL EXISTING AND NEW CONDUCTORS AFTER INSTALLATION. ANY EXISTING CONDUCTORS WITH A REDUCTION OF THE INSULATION-RESISTANCE GREATER THAN 10% SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. ANY NEW CONDUCTORS THAT FAIL THE INSULATION-RESISTANCE TEST SHALL BE CONSIDERED DEFECTIVE AND REPLACED AT THE CONTRACTOR'S EXPENSE.

CLAIRE E. MCKINNEY
LICENSED PROFESSIONAL ENGINEER
28988
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: MAY 2025

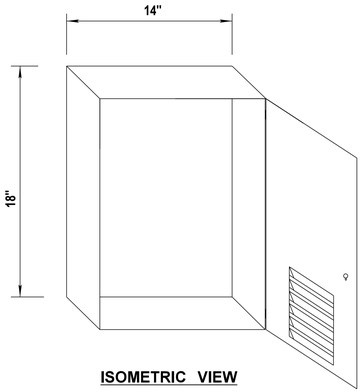
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

ITS PLAN
RIDGELAND - COLONY PARK BLVD

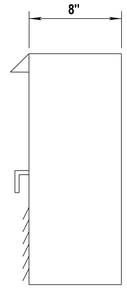
SHEET ID
ITS-4

SHEET NO.
3004

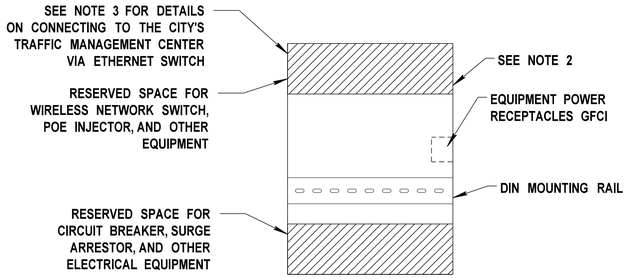
PLAN SHEET
ITS-SHT-WK.dgn
1:46:11 PM
5/13/2025



ISOMETRIC VIEW



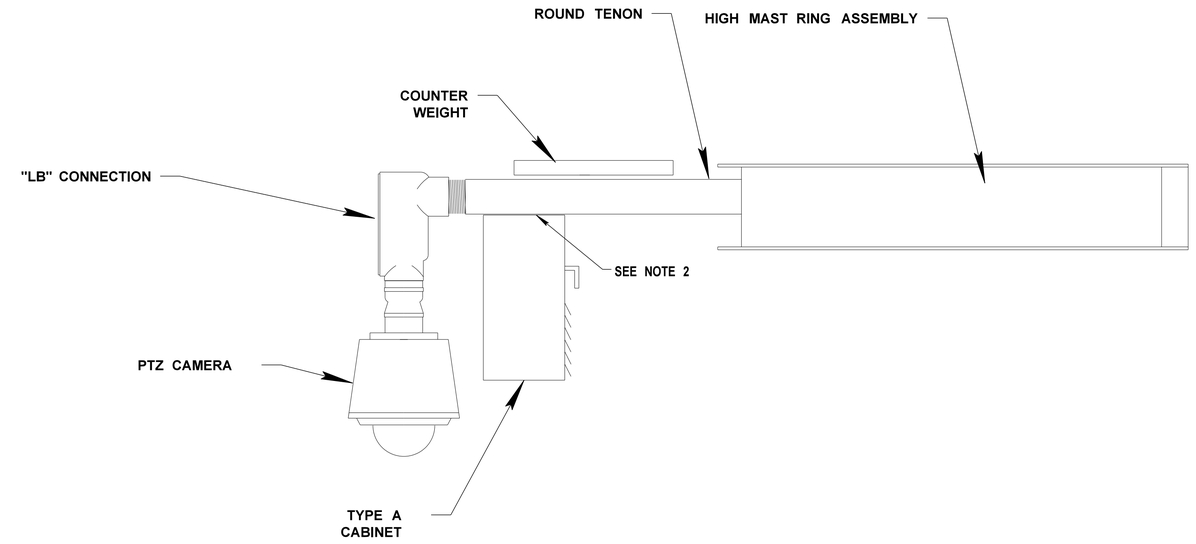
SIDE VIEW



FRONT VIEW

TYPE "A" FIELD CABINET (18" x 14" x 8")

NOT TO SCALE



TYPE "A" FIELD CABINET ON RING ASSEMBLY

NOT TO SCALE

NOTES:

1. THIS SHEET SHOWS DETAILS OF THE CABINET MOUNTING. THIS SHEET IS FOR INFORMATION USE ONLY AND CONTRACTOR SHALL VERIFY MOUNTS AND POINTS OF ATTACHMENT TO HIGH MAST RING FIXTURE. THE NUMBER OF FIXTURES ON EACH HIGH MAST POLE WILL VARY.
2. THE CONTRACTOR SHALL INSTALL NEW TYPE A CABINET WITH 120 VAC INPUT TERMINAL, CIRCUIT BREAKER, SURGE ARRESTOR, PTZ POWER-OVER-ETHERNET INJECTOR, WIRELESS ETHERNET SWITCH, AND 120VAC POWER RECEPTACLE. CABINET SHALL BE MOUNTED TO THE HIGH MAST LUMINAIRE RING FIXTURE IN SOME WAY SHAPE OR FORM. CONTRACTOR SHALL SUBMIT THE PLAN FOR ATTACHING, SHOP DRAWINGS, MATERIAL SPECIFICATIONS, CABLE ROUTING, AND DISCONNECTION TO ENGINEER FOR REVIEW AND APPROVAL.
3. WIRELESS ETHERNET SWITCH SHALL HAVE THE CAPABILITY TO CONNECT WIRELESSLY TO THE CITY OF RIDGELAND'S TMC CELLULAR NETWORK. CONNECTION TO THE CITY'S NETWORK SHALL BE COST ABSORBED AND NOT BE PAID FOR SEPARATELY. EACH SWITCH DEVICE SHALL INCLUDE THE CITY OF RIDGELAND'S SIM CARD WHICH SHALL ALSO BE COST ABSORBED AND NOT PAID FOR SEPARATELY.
4. THE CONTRACTOR SHALL BE REQUIRED TO RE LEVEL SUPPORT RING AFTER NEW CAMERA AND CABINET INSTALLATION AND VERIFY AND PROVE LIFTING / LOWERING / LOCKING DEVICES ARE ALL STILL FULLY FUNCTIONAL WITH NEW EQUIPMENT IN PLACE.
5. ALL EQUIPMENT CONNECTIONS SHALL BE WATER TIGHT SEALED AND MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.

DEPARTMENT OF TRANSPORTATION MISSISSIPPI

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: APRIL 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

TYPE A CABINET DETAILS

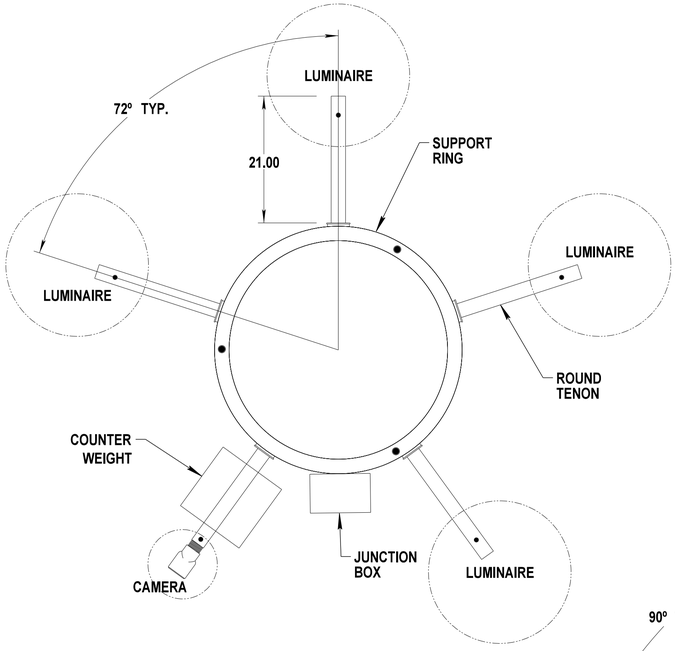
SHEET ID
ITS-5

SHEET NO.
3005

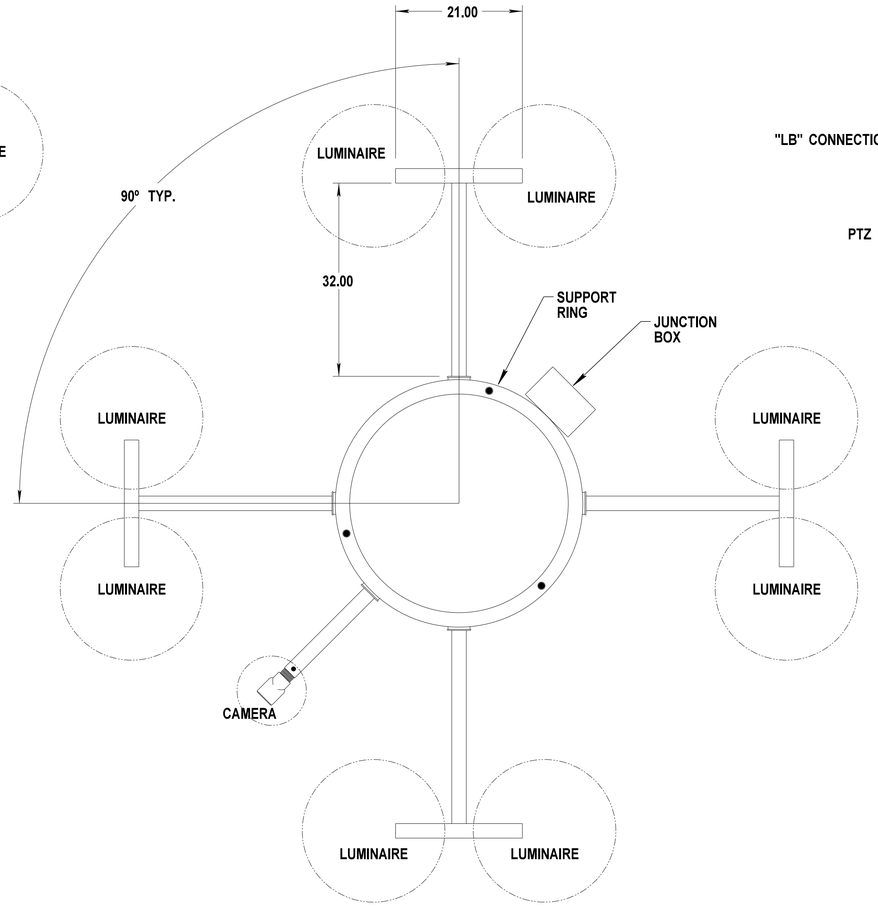
PLAN SHEET
ITS_STDS.dgn
5/13/2025 1:52:26 PM

NOTES:

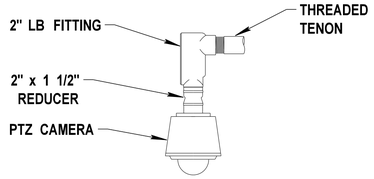
1. THIS SHEET SHOWS DETAILS OF THE PTZ CAMERA MOUNTING. THIS SHEET IS FOR INFORMATION USE ONLY AND CONTRACTOR SHALL VERIFY MOUNTS AND EQUIPMENT USED TO RAISE AND LOWER SUPPORT RING. THE NUMBER OF FIXTURES ON EACH HIGH MAST POLE WILL VARY. CONTRACTOR SHALL SUBMIT A MOUNTING PLAN FOR EACH HIGH MAST LOCATION, DETAILING THE PLACEMENT OF THE CCTV, CABINET, AND COUNTERWEIGHT TO THE ENGINEER FOR REVIEW AND APPROVAL.
2. THE CONTRACTOR SHALL BE REQUIRED TO RE LEVEL SUPPORT RING AFTER NEW CAMERA AND CABINET INSTALLATION AND VERIFY AND PROVE LIFTING / LOWERING / LOCKING DEVICES ARE ALL STILL FULLY FUNCTIONAL WITH NEW EQUIPMENT IN PLACE.
3. THE CONTRACTOR SHALL INSTALL NEW TYPE A CABINET WITH 120 VAC INPUT TERMINAL, CIRCUIT BREAKER, SURGE ARRESTOR, PTZ POWER-OVER-ETHERNET INJECTOR, WIRELESS NETWORK SWITCH, AND 120VAC POWER RECEPTACLE. CABINET SHALL BE MOUNTED TO THE LED RING FIXTURE. CONTRACTOR SHALL SUBMIT THE PLAN FOR ATTACHING, SHOP DRAWINGS, MATERIAL SPECIFICATIONS, CABLE ROUTING AND DISCONNECTION TO ENGINEER FOR REVIEW AND APPROVAL.
4. EXISTING CABLE ROUTING INTERIOR TO POLE TO REMAIN IN PLACE (FROM JUNCTION BOX ON TOP OF POLE TO DISCONNECT AT BASE OF POLE). NEW CABLES FROM IP CAMERA TO EXISTING JUNCTION BOX ON TOP OF POLE AND FROM TYPE A CABINET ON RING ASSEMBLY TO EXISTING CABLE INTERIOR TO POLE AT LIFTING DEVICE TO USE EXISTING TYPE CONNECTORS.
5. ALL EQUIPMENT CONNECTIONS SHALL BE WATER TIGHT SEALED AND MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE ENGINEER.



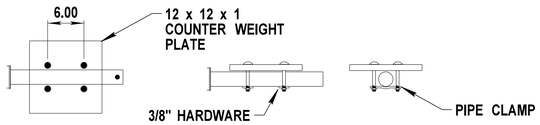
4 FIXTURES w/ CAMERA
NOT TO SCALE



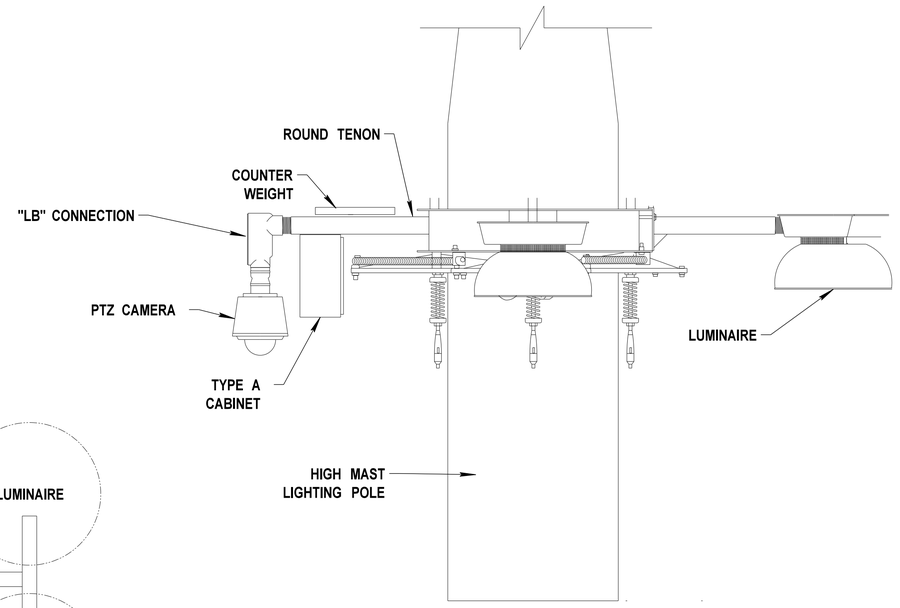
8 FIXTURES w/ CAMERA
NOT TO SCALE



CAMERA MOUNT DETAIL
NOT TO SCALE



COUNTER WEIGHT DETAIL
NOT TO SCALE



PTZ CCTV MOUNTING DETAIL ON HIGH MAST LIGHTING POLE (LOWERED POSITION)
NOT TO SCALE

DEPARTMENT OF TRANSPORTATION MISSISSIPPI

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: DJP
DETAILED BY: DJP
CHECKED BY: CEM
DATE: APRIL 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

HIGH MAST LUMINAIRE RING CAMERA MOUNTING DETAILS

SHEET ID **ITS-6**

SHEET NO. **3006**

PLAN SHEET
ITS_STDS.dgn
1:46:25 PM
5/13/2025

CONSTRUCTION NOTES:

1. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT NOT BE UTILIZED ON THE PROJECT.

2. LIGHTING LEGEND SHOWS EXAMPLE IDENTIFIERS. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC REQUIREMENTS.

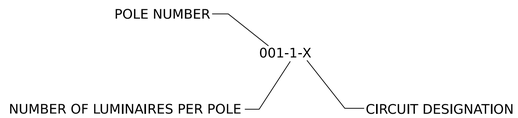
3. ALL PARTS OF THIS INSTALLATION SHALL BE IN ACCORDANCE WITH THE MISSISSIPPI STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARDS AND DETAILS, AND WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITIONS.

4. CONTRACTOR SHALL VERIFY EXISTING POWER UTILITY SERVICE POINTS AND CONNECTIONS PRIOR TO BEGINNING WORK.

5. CONTRACTOR SHALL PROVIDE TOUCH UP GALVANIZING SUPPLIED BY POLE MANUFACTURER TO MATCH FINISH.

6. FOR RENOVATION OF EXISTING HIGH MAST ASSEMBLIES, CONTRACTOR SHALL ONLY REMOVE EXISTING HIGH MAST LIGHT FIXTURES AND INSTALL NEW HIGH MAST LIGHT FIXTURES MATCHING ORIENTATION AND LAYOUT OF EXISTING FIXTURES. ALL OTHER HIGH MAST EQUIPMENT SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

7. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE THAT IS REMOVED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE. NO SEPARATE PAYMENT SHALL BE PROVIDED FOR THE DISPOSAL OF EXISTING EQUIPMENT. COST OF DISPOSAL SHALL BE COVERED UNDER THE ASSOCIATED PAY ITEMS.



POLE LABEL

LEGEND

SPC-#	EXISTING SECONDARY POWER CONTROLLER TO REMAIN
	EXISTING UNDERGROUND BRANCH CIRCUIT (TO REMAIN)
JB	UNDERGROUND JUNCTION BOX (TO REMAIN)
PB	UNDERGROUND PULL BOX (TO REMAIN)
	REMOVE EXISTING LIGHT FIXTURE, POLE TO REMAIN
	INSTALL NEW SINGLE ARM LIGHT FIXTURE
	REMOVE EXISTING HIGH MAST LIGHT FIXTURE, POLE TO REMAIN, NUMBER OF LUMINAIRES AS SHOWN
	INSTALL HIGH MAST LIGHT FIXTURE, NUMBER OF LUMINAIRES AS SHOWN

ABBREVIATIONS

AIC	- AMPS INTERRUPTING CAPACITY
AWG	- AMERICAN WIRE GAUGE
BKR	- BREAKER
BOP	- BEGINNING OF PROJECT
BRCH	- BRANCH
C	- CONDUIT
CL	- CENTERLINE
CKT	- CIRCUIT
CY	- CUBIC YARDS
EA	- EACH
EOP	- END OF PROJECT
EXP	- EXPOSED
GND, G	- GROUND
GRS	- GALVANIZED RIGID STEEL
HOA	- HAND-OFF-AUTOMATIC
IES	- ILLUMINATING ENGINEER SOCIETY
LED	- LIGHT EMITTING DIODE
LF	- LINEAR FEET
LS	- LUMP SUM
LT	- LEFT
LTG	- LIGHTING
MDOT	- MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MTG	- MOUNTING
NBCL	- NORTH BOUND CENTERLINE
NE	- NORTHEAST
NPS	- NOMINAL PIPE SIZE
NW	- NORTHWEST
OC	- ON CENTER
PVC	- POLYVINYL CHLORIDE
RT	- RIGHT
SE	- SOUTHEAST
SPC	- SECONDARY POWER CONTROLLER
SW	- SOUTHWEST
THW	- THERMOPLASTIC HEAT AND MOISTURE RESISTANT
TYP	- TYPICAL
UG	- UNDERGROUND
UON	- UNLESS OTHERWISE NOTED
W	- WATT
@	- AT

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

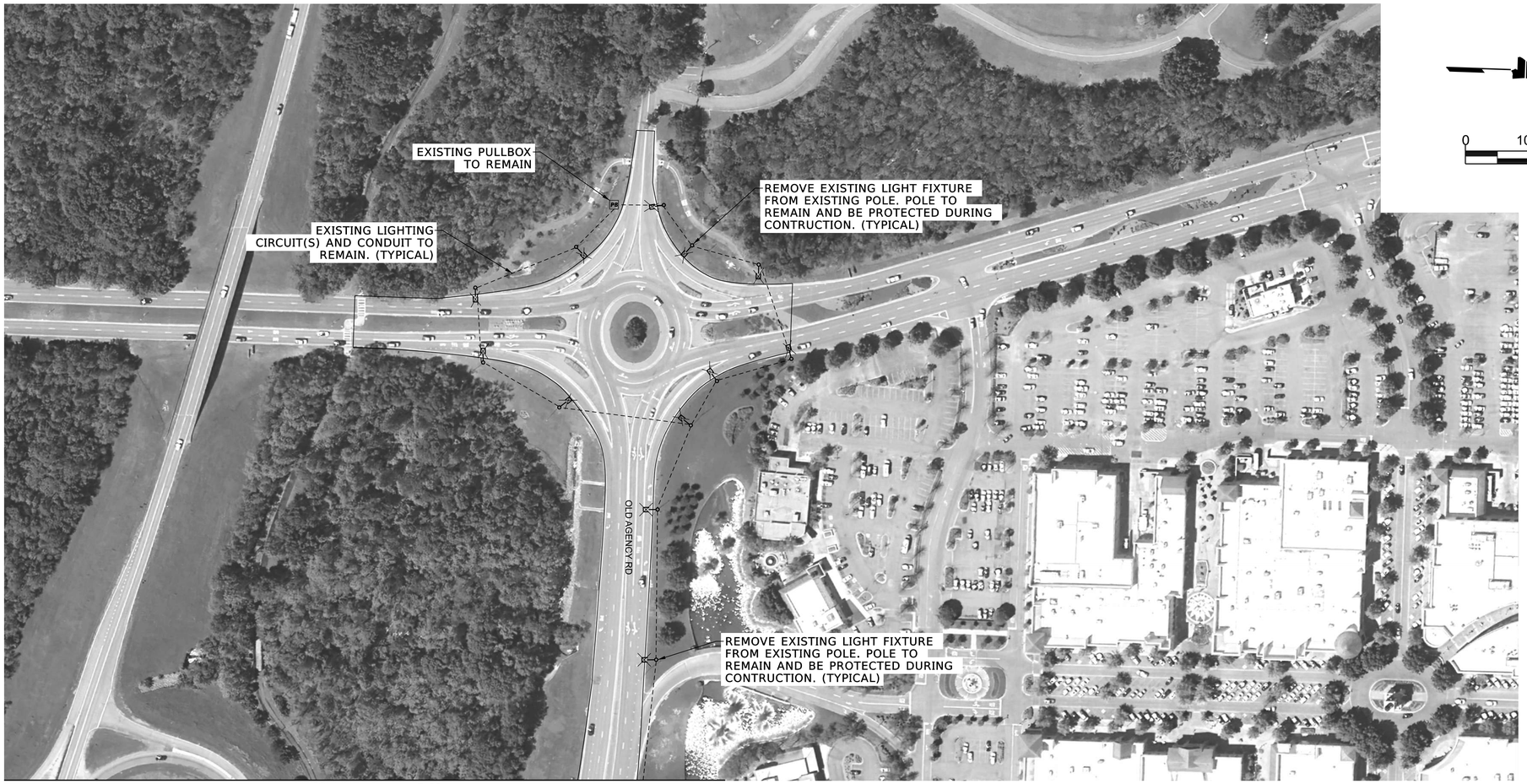
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING LEGEND AND GENERAL NOTES
RIDGELAND

SHEET ID
LL-1

SHEET NO.
4001

PLAN SHEET
DATE 5:01:08 PM ILL-LL.dgn



MATCHLINE - SHEET LD-02

REMOVAL LEGEND

	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	REMOVE EXISTING LIGHT FIXTURE, POLE TO REMAIN
	REMOVE EXISTING HIGH MAST LIGHT FIXTURE, POLE TO REMAIN, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

REMOVAL NOTES

1. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO BE REMOVED SHALL BE COMPLETELY DEMOLISHED AND REMOVED, AND THE AREA SH RESTORED TO MATCH EXISTING CONDITIONS
2. ALL EXISTING ELECTRICAL EQUIPI AND INFRASTRUCTURE TO REMAI SHALL BE PROTECTED DURING CONSTRUCTION.

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

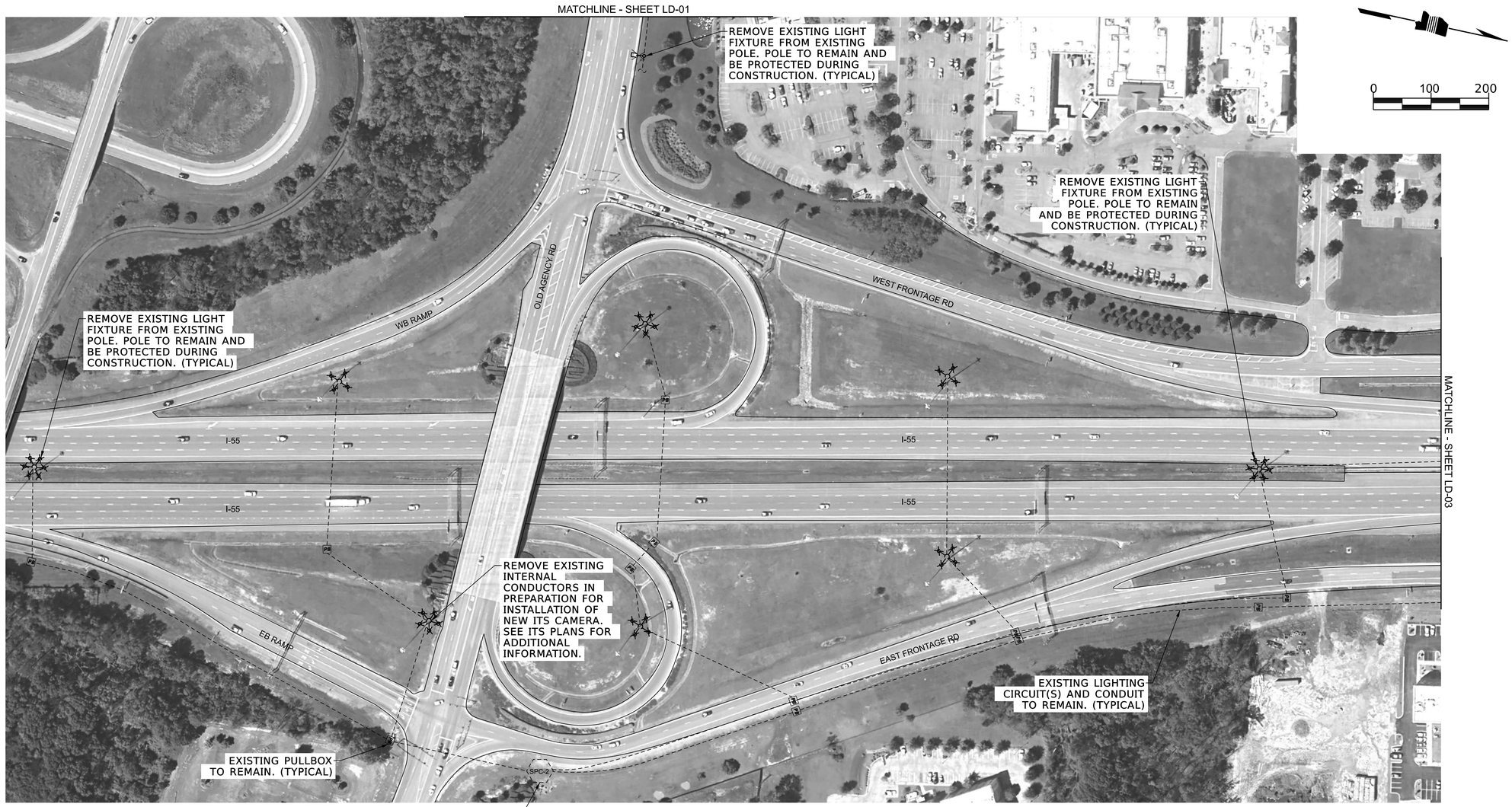
LIGHTING REMOVAL PLAN 1
RIDGELAND

SHEET ID
LD-01

SHEET NO.
4002

PLAN SHEET

5/13/2025 5:01:31 PM Boundaries-Demo.dgn



REMOVAL LEGEND

----------	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	REMOVE EXISTING LIGHT FIXTURE, POLE TO REMAIN
	REMOVE EXISTING HIGH MAST LIGHT FIXTURE, POLE TO REMAIN, NUMBER OF LUMINAIRES AS SHOWN
(SPC-X)	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

REMOVAL NOTES

1. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO BE REMOVED SHALL BE COMPLETELY DEMOLISHED AND REMOVED, AND THE AREA SHALL BE RESTORED TO MATCH EXISTING CONDITIONS
2. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.

JAMES K. SCHMITT
LICENSED PROFESSIONAL ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING REMOVAL PLAN 2
RIDGELAND

SHEET ID
LD-02

SHEET NO.
4003

PLAN SHEET
5/13/2025 5:01:34 PM Boundaries-Demo.dgn

MATCHLINE - SHEET LD-02

MATCHLINE - SHEET LD-04

REMOVAL LEGEND

	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	REMOVE EXISTING LIGHT FIXTURE, POLE TO REMAIN
	REMOVE EXISTING HIGH MAST LIGHT FIXTURE, POLE TO REMAIN, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

REMOVAL NOTES

1. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO BE REMOVED SHALL BE COMPLETELY DEMOLISHED AND REMOVED, AND THE AREA SH RESTORED TO MATCH EXISTING CONDITIONS
2. ALL EXISTING ELECTRICAL EQUIPI AND INFRASTRUCTURE TO REMAI SHALL BE PROTECTED DURING CONSTRUCTION.

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

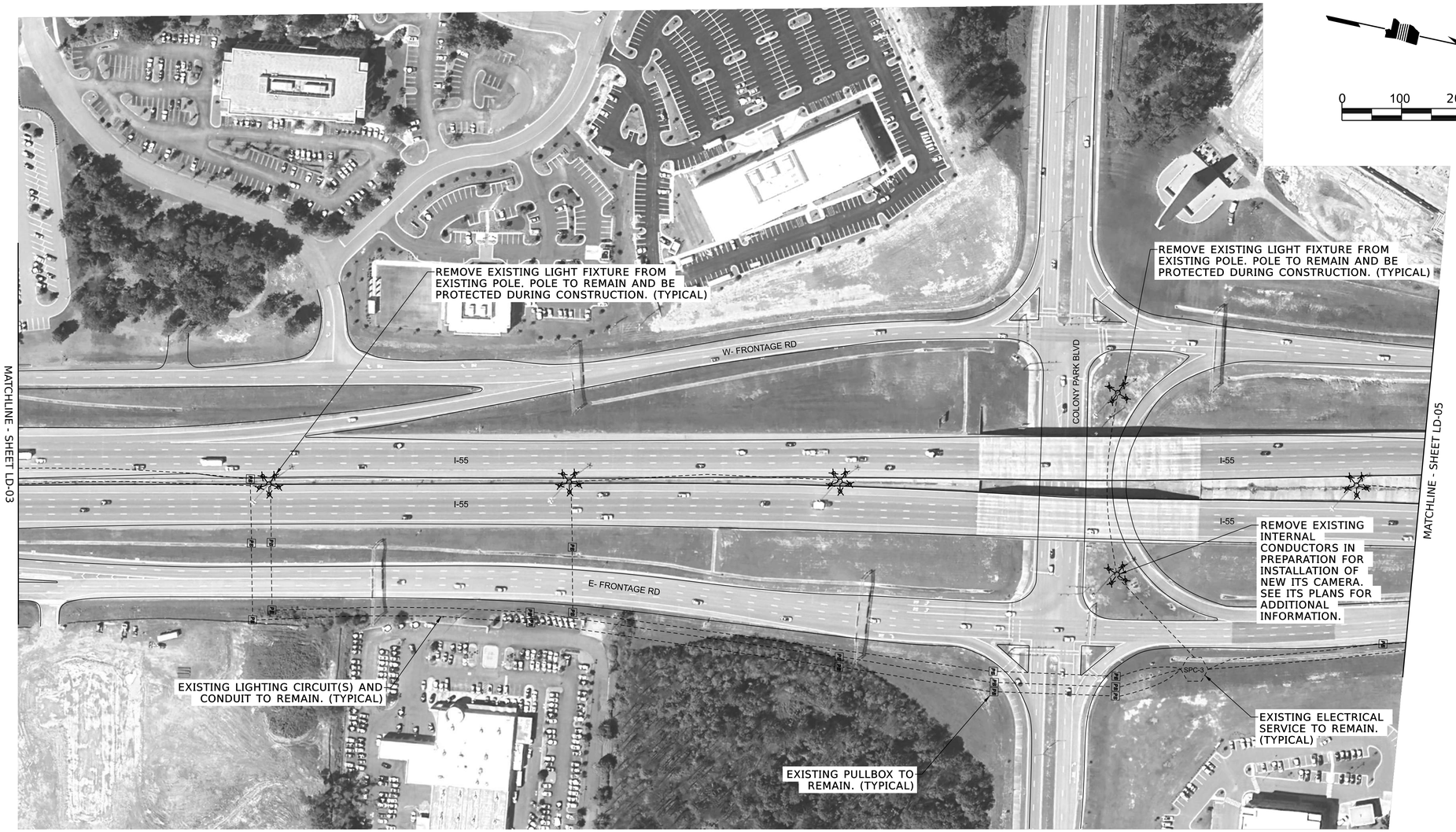
LIGHTING REMOVAL PLAN 3
RIDGELAND

SHEET ID
LD-03

SHEET NO.
4004

PLAN SHEET

5/13/2025 5:01:38 PM Boundaries-Demo.dgn



REMOVAL LEGEND

	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	REMOVE EXISTING LIGHT FIXTURE, POLE TO REMAIN
	REMOVE EXISTING HIGH MAST LIGHT FIXTURE, POLE TO REMAIN, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

REMOVAL NOTES

1. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO BE REMOVED SHALL BE COMPLETELY DEMOLISHED AND REMOVED, AND THE AREA SH RESTORED TO MATCH EXISTING CONDITIONS
2. ALL EXISTING ELECTRICAL EQUIPI AND INFRASTRUCTURE TO REMAI SHALL BE PROTECTED DURING CONSTRUCTION.

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING REMOVAL PLAN 4
RIDGELAND

SHEET ID
LD-04

SHEET NO.
4005

PLAN SHEET
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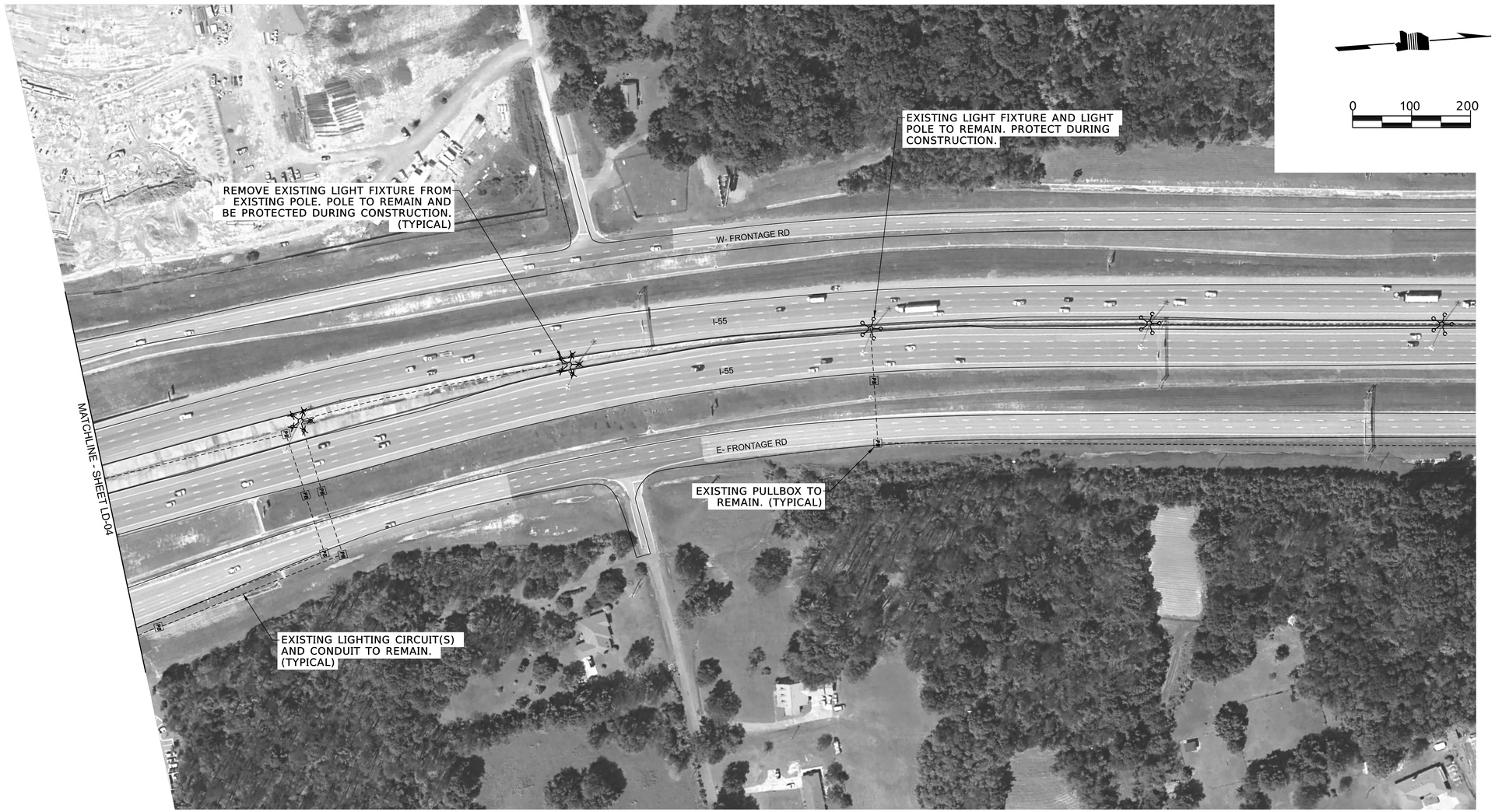

REMOVAL LEGEND

	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	REMOVE EXISTING LIGHT FIXTURE, POLE TO REMAIN
	REMOVE EXISTING HIGH MAST LIGHT FIXTURE, POLE TO REMAIN, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

REMOVAL NOTES

1. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO BE REMOVED SHALL BE COMPLETELY DEMOLISHED AND REMOVED, AND THE AREA SHALL BE RESTORED TO MATCH EXISTING CONDITIONS
2. ALL EXISTING ELECTRICAL EQUIPMENT AND INFRASTRUCTURE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION.

JAMES K. SCHMITT
LICENSED PROFESSIONAL ENGINEER
33922
STATE OF MISSISSIPPI

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DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

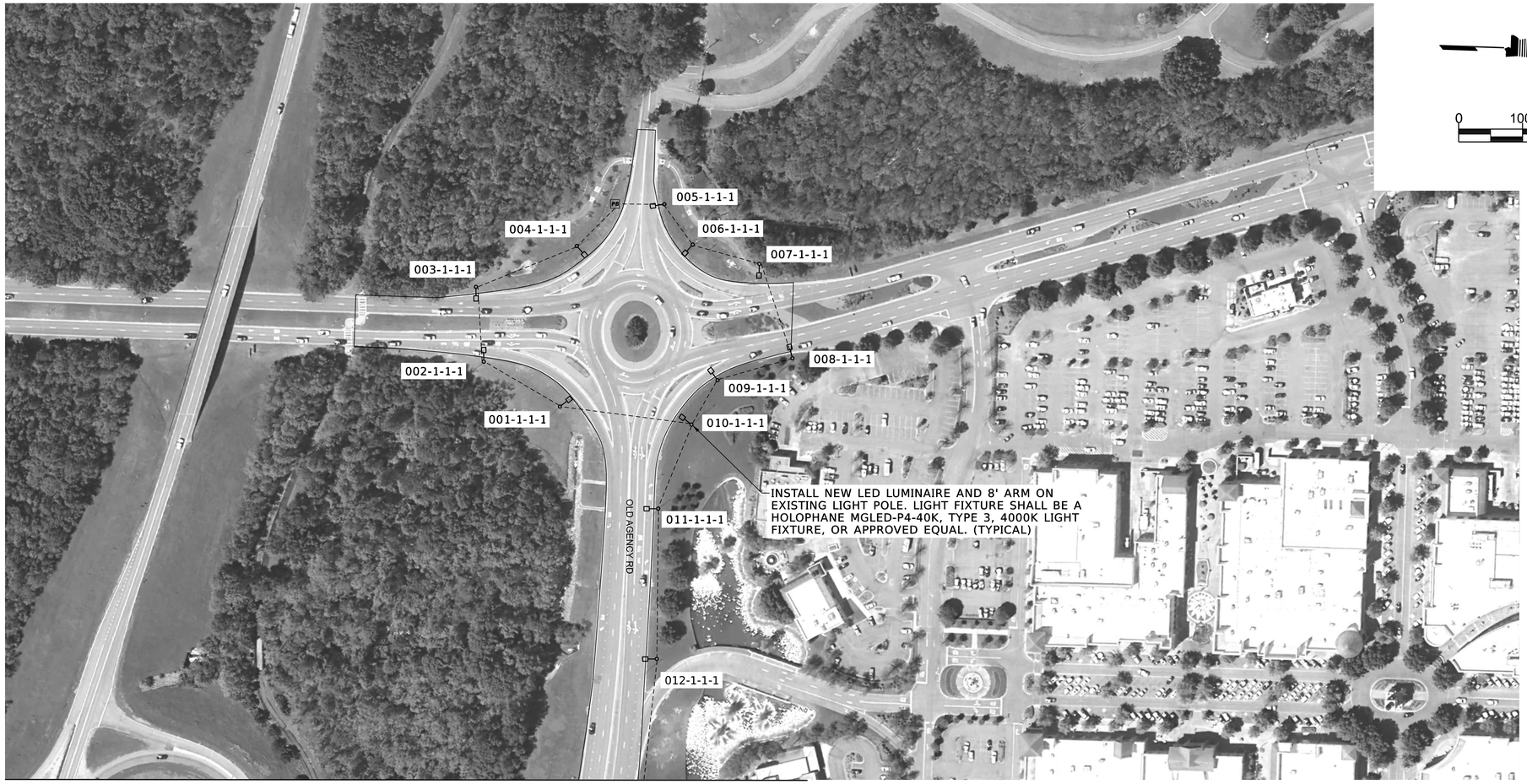
LIGHTING REMOVAL PLAN 5
RIDGELAND

SHEET ID
LD-05

SHEET NO.
4006

PLAN SHEET

5/13/2025 5:01:46 PM Boundaries-Demo.dgn



MATCHLINE - SHEET LP-02

INSTALL LEGEND

- EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
- PB — EXISTING PULLBOX TO REMIAN
- INSTALL NEW SINGLE ARM LIGHT FIXTURE
- INSTALL HIGH MAST LIGHT FIXTURE, NUMBER OF LUMINAIRES AS SHOWN
- SPC-X — EXISTING SECONDARY POWER CONTROLLER TO REMAIN

INSTALLATION NOTES

1. LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
2. REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
3. ALL FIXTURES SHALL BE WET LOCATION RATED.

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
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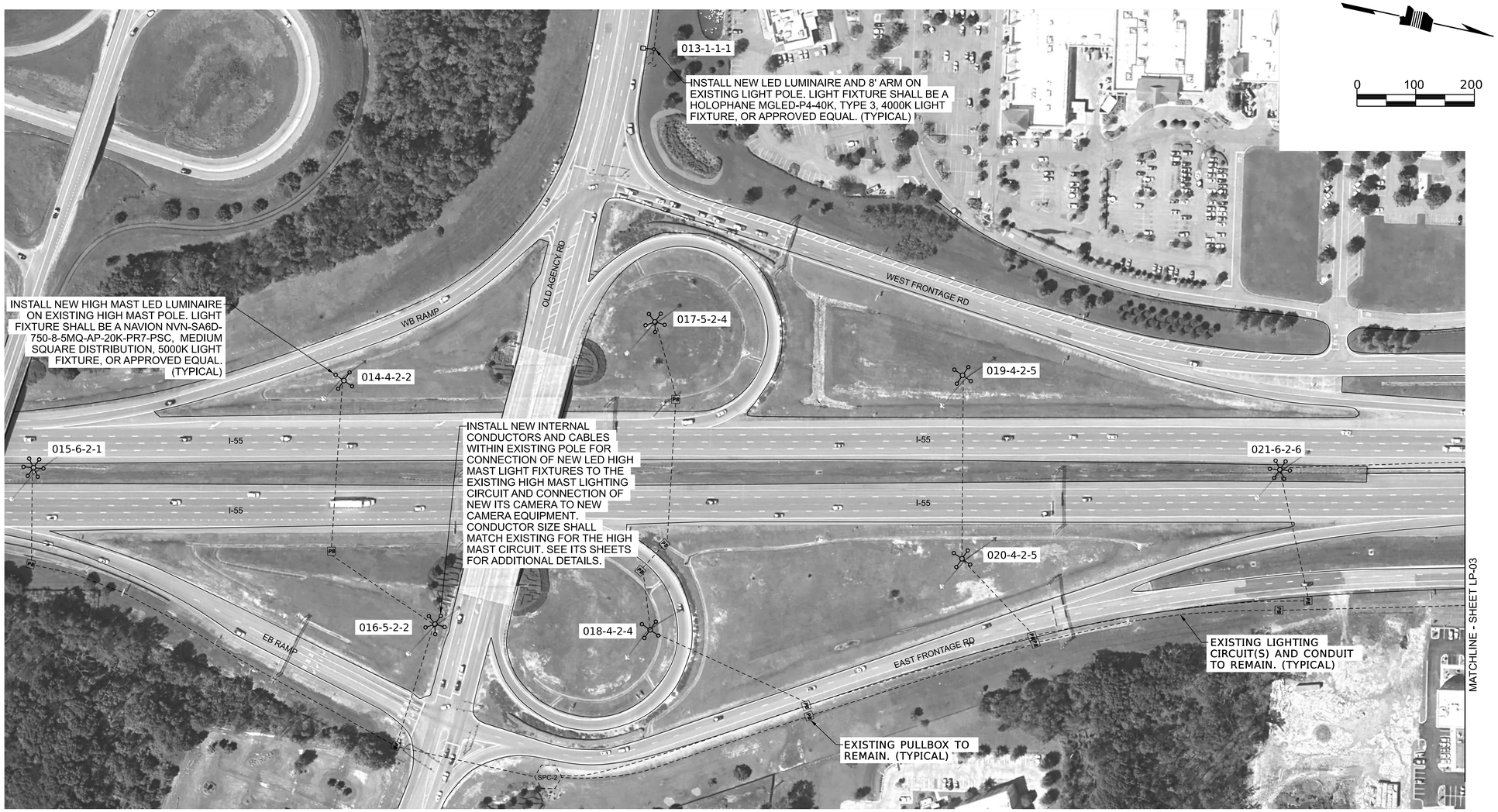
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING INSTALLATION PLAN 1
RIDGELAND

SHEET ID
LP-01

SHEET NO.
4007

PLAN SHEET
5/13/2025 5:02:01 PM Boundaries.dgn



INSTALL LEGEND

- - - - - - -	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	INSTALL NEW SINGLE ARM LIGHT FIXTURE
	INSTALL HIGH MAST LIGHT FIXTURE, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

INSTALLATION NOTES

1. LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
2. REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
3. ALL FIXTURES SHALL BE WET LOCATION RATED.

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
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DESIGNED BY: ZJD
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CHECKED BY: JKS
DATE: MAY 2025

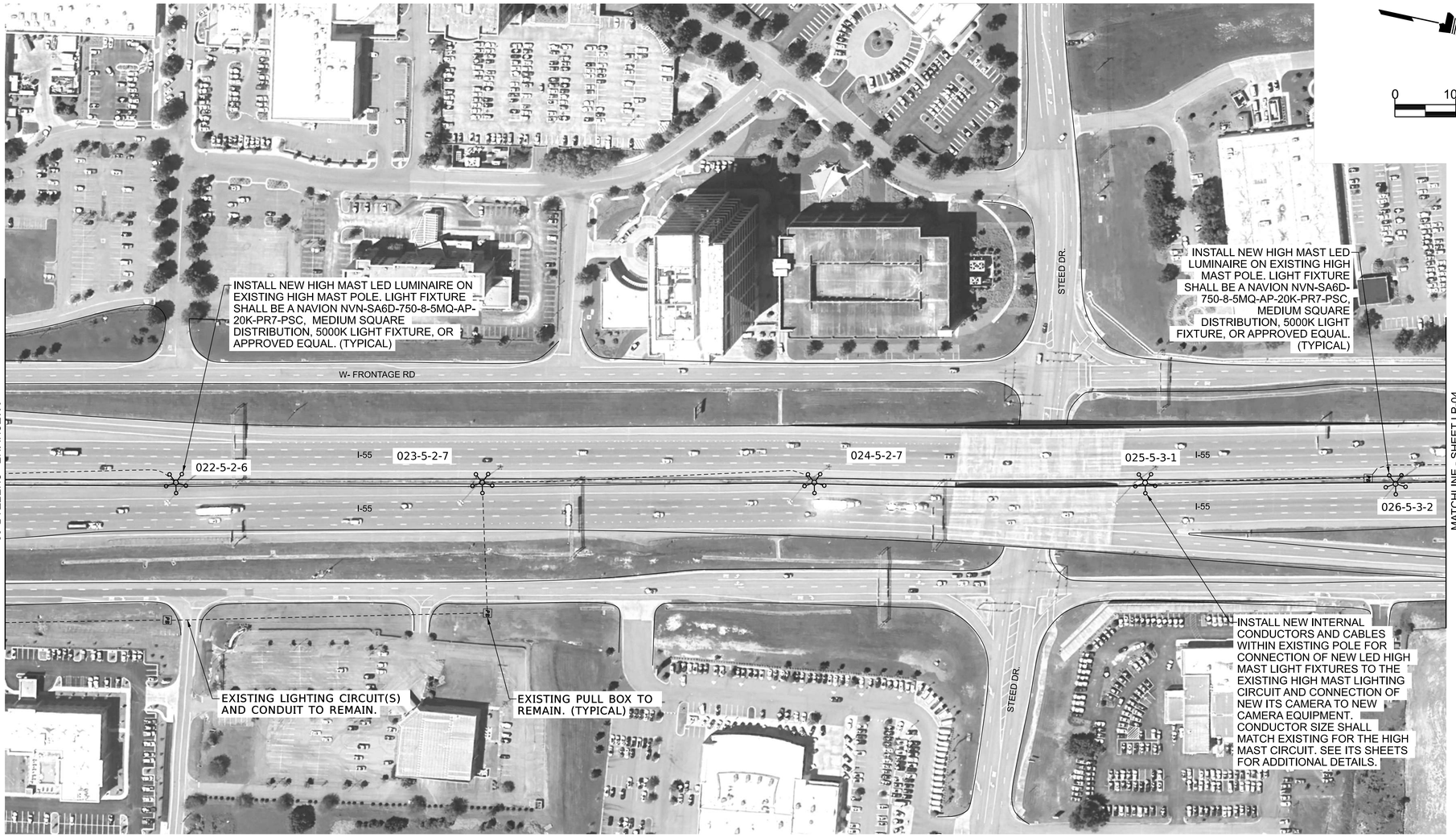
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING INSTALLATION PLAN 2
RIDGELAND

SHEET ID
LP-02

SHEET NO.
4008

PLAN SHEET
5/13/2025 5:02:04 PM Boundaries.dgn



INSTALL LEGEND

- - - - - - -	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	INSTALL NEW SINGLE ARM LIGHT FIXTURE
	INSTALL HIGH MAST LIGHT FIXTURE, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

INSTALLATION NOTES

1. LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
2. REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
3. ALL FIXTURES SHALL BE WET LOCATION RATED.

JAMES K. SCHMITT
LICENSED PROFESSIONAL ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

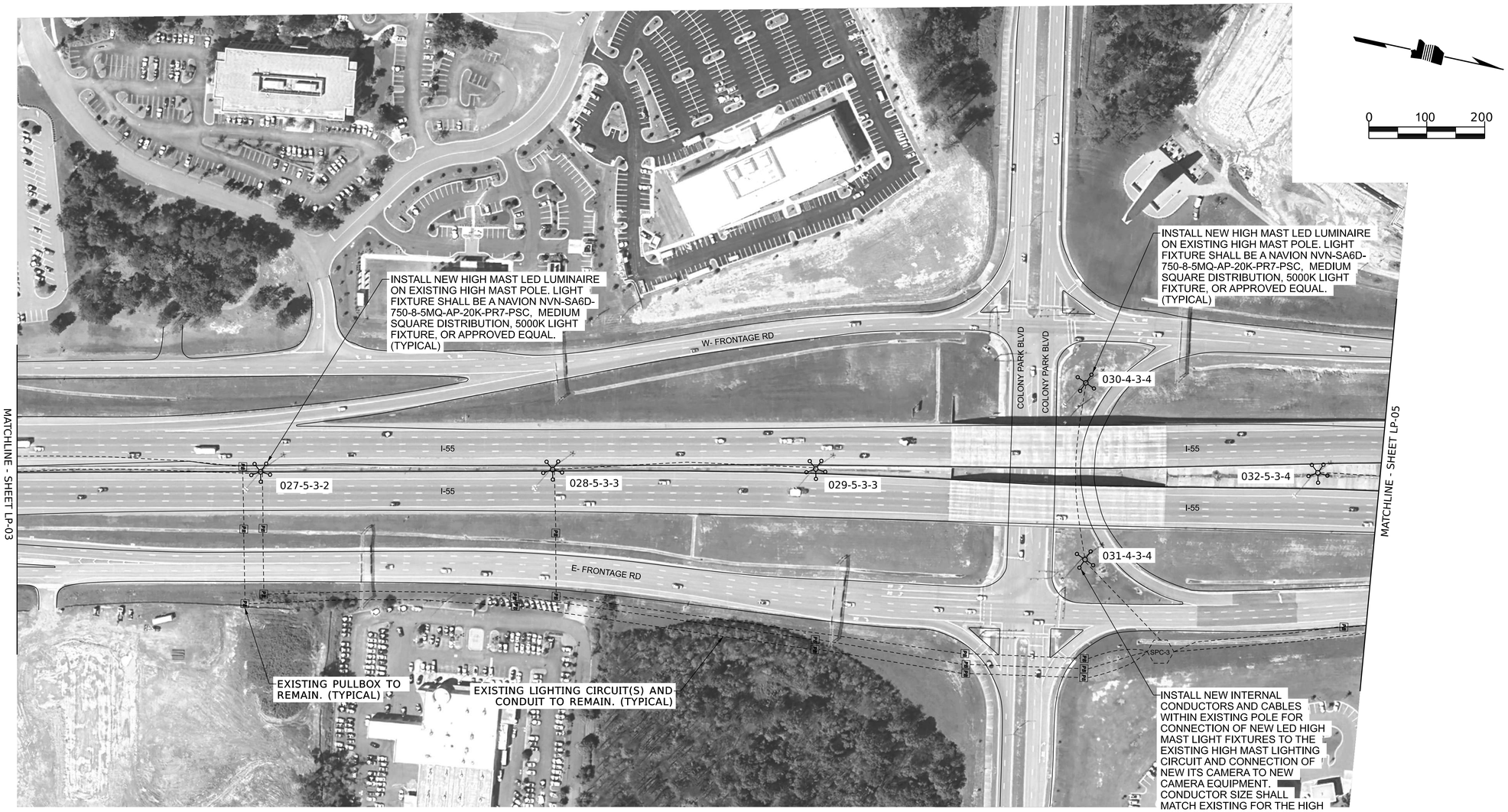
LIGHTING INSTALLATION PLAN 3
RIDGELAND

SHEET ID
LP-03

SHEET NO.
4009

PLAN SHEET

5/13/2025 5:02:07 PM Boundaries.dgn



INSTALL LEGEND

	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	INSTALL NEW SINGLE ARM LIGHT FIXTURE
	INSTALL HIGH MAST LIGHT FIXTURE, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

INSTALLATION NOTES

1. LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
2. REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
3. ALL FIXTURES SHALL BE WET LOCATION RATED.

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PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING INSTALLATION PLAN 4
RIDGELAND

SHEET ID
LP-04

SHEET NO.
4010

PLAN SHEET
5/13/2025 5:02:10 PM Boundaries.dgn

INSTALL LEGEND

- - - - - - -	EXISTING ELECTRICAL CIRCUIT IN EXISTING CONDUIT TO REMAIN
PB	EXISTING PULLBOX TO REMIAN
	INSTALL NEW SINGLE ARM LIGHT FIXTURE
	INSTALL HIGH MAST LIGHT FIXTURE, NUMBER OF LUMINAIRES AS SHOWN
SPC-X	EXISTING SECONDARY POWER CONTROLLER TO REMAIN

INSTALLATION NOTES

1. LABEL CABLES IN ALL PULL BOXES. (TYPICAL)
2. REFER TO VOLTAGE DROP TABLES FOR CONDUIT AND CONDUCTOR INFORMATION BETWEEN LIGHT POLES.
3. ALL FIXTURES SHALL BE WET LOCATION RATED.

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LICENSED PROFESSIONAL ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
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DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING INSTALLATION PLAN 5
RIDGELAND

SHEET ID
LP-05

SHEET NO.
4011

PLAN SHEET
5/13/2025 5:02:14 PM Boundaries.dgn

POLE SCHEDULE						
POLE NO.	LIGHT FIXTURE	SPC NO.	CIRCUIT NO.	HEIGHT	TILT	ORIENTATION (NORTH = 0°, ROTATION CW)
001	1XA	1	SPC-1-1	50'	10°	318°
002	1XA	1	SPC-1-1	50'	10°	75°
003	1XA	1	SPC-1-1	50'	10°	70°
004	1XA	1	SPC-1-1	50'	10°	53°
005	1XA	1	SPC-1-1	50'	10°	170°
006	1XA	1	SPC-1-1	50'	10°	131°
007	1XA	1	SPC-1-1	50'	10°	91°
008	1XA	1	SPC-1-1	50'	10°	256°
009	1XA	1	SPC-1-1	50'	10°	232°
010	1XA	1	SPC-1-1	50'	10°	213°
011	1XA	1	SPC-1-1	50'	10°	177°
012	1XA	1	SPC-1-1	50'	10°	178°
013	1XA	1	SPC-1-1	50'	0°	183°
014	4XB	2	SPC-2-2	100'	0°	0°
015	6XB	2	SPC-2-1	130'	0°	0°
016	5XB	2	SPC-2-2	130'	0°	0°
017	5XB	2	SPC-2-4	130'	0°	0°
018	4XB	2	SPC-2-4	130'	0°	0°
019	4XB	2	SPC-2-5	130'	0°	0°
020	4XB	2	SPC-2-5	130'	0°	0°
021	6XB	2	SPC-2-6	130'	0°	0°
022	5XB	2	SPC-2-6	100'	0°	0°
023	5XB	2	SPC-2-7	100'	0°	0°
024	5XB	2	SPC-2-7	100'	0°	0°
025	5XB	3	SPC-3-1	100'	0°	0°
026	5XB	3	SPC-3-2	100'	0°	0°
027	5XB	3	SPC-3-2	100'	0°	0°
028	5XB	3	SPC-3-3	100'	0°	0°
029	5XB	3	SPC-3-3	100'	0°	0°
030	4XB	3	SPC-3-4	100'	0°	0°
031	4XB	3	SPC-3-4	100'	0°	0°
032	5XB	3	SPC-3-4	100'	0°	0°
033	5XB	3	SPC-3-5	100'	0°	0°
034	5XB	3	SPC-3-5	100'	0°	0°

FIXTURE SCHEDULE					
TYPE	DESCRIPTION	DISTRIBUTION	LAMPS		VOLTAGE
		LUMEN OUTPUT (MINIMUM)	WATTS	TYPE	
A	HOLOPHANE SERIES MGLED-P4-40K-FT	TYPE 3 50,000 LUMENS	392W	LED	480
B	STREETWORKS NAVION NVN-SA6D-750-8-5MQ-AP-20K-PR7-PSC	TYPE 5 133,571 LUMENS	805W	LED	480

PROPOSED ILLUMINATION CALCULATED STATISTICS (BASED ON 0.85 LLF)				
DESCRIPTION	AVG	MAX	MIN	AVG/MIN
E INTERSECTION	0.3 fc	1.0 fc	0.0 fc	N/A
W INTERSECTION	0.3 fc	1.1 fc	0.0 fc	N/A
N BOUND EXIT-RAMP	0.3 fc	1.0 fc	0.0 fc	N/A
S BOUND ON-RAMP	0.6 fc	1.3 fc	0.0 fc	N/A
ROUNDABOUT	0.8 fc	4.5 fc	0.3 fc	2.7:1

SPC1-1: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC to 001	1	4	305	10.6	480	1	85%	Copper	PVC	0.29	1.876934158	0.39%
SPC-1	001 to 002	1	4	138	9.8	478	1	85%	Copper	PVC	0.29	0.787928257	0.16%
SPC-1	002 to 003	1	4	118	9.0	477	1	85%	Copper	PVC	0.29	0.616774555	0.13%
SPC-1	003 to 004	1	4	170	8.2	477	1	85%	Copper	PVC	0.29	0.810903177	0.17%
SPC-1	004 to 005	1	4	201	7.4	476	1	85%	Copper	PVC	0.29	0.865598702	0.18%
SPC-1	005 to 006	1	4	77	6.6	475	1	85%	Copper	PVC	0.29	0.294876488	0.06%
SPC-1	006 to 007	1	4	108	5.8	475	1	85%	Copper	PVC	0.29	0.363570137	0.08%
SPC-1	007 to 008	1	4	157	5.0	474	1	85%	Copper	PVC	0.29	0.450552232	0.09%
SPC-1	008 to 009	1	4	73	4.1	474	1	85%	Copper	PVC	0.29	0.175389341	0.04%
SPC-1	009 to 0010	1	4	80	3.3	474	1	85%	Copper	PVC	0.29	0.15422545	0.03%
SPC-1	010 to 011	1	4	142	2.5	474	1	85%	Copper	PVC	0.29	0.203799352	0.04%
SPC-1	011 to 012	1	4	235	1.7	473	1	85%	Copper	PVC	0.29	0.225642261	0.05%
SPC-1	012 TO 013	1	4	259	0.8	473	1	85%	Copper	PVC	0.29	0.124558825	0.03%
											Total	6.950752936	1.43%

SPC-2-1: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-2 to PB	1	4	264	4.8	480	1	85%	Copper	PVC	0.29	0.732121984	0.15%
SPC-1	PB to PB	1	4	698	4.8	479	1	85%	Copper	PVC	0.29	1.9354459	0.40%
SPC-1	PB to 015	1	4	164	4.8	477	1	85%	Copper	PVC	0.29	0.457105749	0.10%
											Total	3.124673633	0.65%

SPC-2-2: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-2 to PB	1	4	267	7.2	480	1	85%	Copper	PVC	0.29	1.108692516	0.23%
SPC-1	PB to 016	1	4	218	7.2	479	1	85%	Copper	PVC	0.29	0.905996632	0.19%
SPC-1	016 to PB	1	4	216	3.2	478	1	85%	Copper	PVC	0.29	0.399643705	0.08%
SPC-1	PB to 014.	4	4	291	3.2	478	1	85%	Copper	PVC	0.29	0.134955087	0.03%
											Total	2.549287939	0.53%

SPC-2-4: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-2	SPC-2 to PB	1	4	459	6.4	480	1	85%	Copper	PVC	0.29	1.694180942	0.35%
SPC-2	PB to 018	1	4	296	6.4	478	1	85%	Copper	PVC	0.29	1.098425137	0.23%
SPC-2	018 to PB	1	4	102	3.2	477	1	85%	Copper	PVC	0.29	0.189575443	0.04%
SPC-2	PB to PB	1	4	61	3.2	477	1	85%	Copper	PVC	0.29	0.114167561	0.02%
SPC-2	PB to PB	1	4	247	3.2	477	1	85%	Copper	PVC	0.29	0.459574039	0.10%
SPC-2	PB to 017	1	4	136	3.2	476	1	85%	Copper	PVC	0.29	0.253774509	0.05%
											Total	3.80969763	0.80%

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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DETAILED BY:BVW
CHECKED BY:JKS
DATE:MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING DETAIL 1
RIDGELAND

SHEET ID
LD-01

SHEET NO.
4012

SPC-2-5: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-2 to PB	1	4	458	6.4	480	1	85%	Copper	PVC	0.29	1.691089223	0.35%
SPC-1	PB to PB	1	4	403	6.4	478	1	85%	Copper	PVC	0.29	1.491657563	0.31%
SPC-1	PB to 020	1	4	178	6.4	477	1	85%	Copper	PVC	0.29	0.662525302	0.14%
SPC-1	020 to 019	4	4	312	3.2	476	1	85%	Copper	PVC	0.29	0.145361044	0.03%
											Total	3.990633133	0.83%

SPC-2-6: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-2	SPC-2 to PB	1	1/0	456	11.9	480	1	85%	Copper	PVC	0.13	1.413972481	0.29%
SPC-2	PB to PB	1	1/0	402	8.8	479	1	85%	Copper	PVC	0.13	0.918357748	0.19%
SPC-2	PB to PB	1	1/0	475	8.8	478	1	85%	Copper	PVC	0.13	1.085980389	0.23%
SPC-2	PB to 021	1	1/0	228	8.8	477	1	85%	Copper	PVC	0.13	0.523675982	0.11%
SPC-2	021 to 022	1	1/0	595	4.0	476	1	85%	Copper	PVC	0.13	0.621020783	0.13%
											Total	4.563007384	0.95%

SPC-2-7: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-2 to PB	1	1/0	458	8.0	480	1	85%	Copper	PVC	0.13	0.947816874	0.20%
SPC-1	PB to PB	1	1/0	405	8.0	479	1	85%	Copper	PVC	0.13	0.839126167	0.18%
SPC-1	PB to PB	1	1/0	420	8.0	478	1	85%	Copper	PVC	0.13	0.872904773	0.18%
SPC-1	PB to PB	1	1/0	583	8.0	477	1	85%	Copper	PVC	0.13	1.212934694	0.25%
SPC-1	PB to PB	1	1/0	525	8.0	476	1	85%	Copper	PVC	0.13	1.096109137	0.23%
SPC-1	PB to 023	1	1/0	214	8.0	475	1	85%	Copper	PVC	0.13	0.447996684	0.09%
SPC-1	023 to 024	1	2	545	4.0	475	1	85%	Copper	PVC	0.19	0.833110552	0.18%
											Total	6.24999888	1.31%

SPC-3-1: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SP3-C to PB	1	2	145	4.0	480	1	85%	Copper	PVC	0.19	0.218533271	0.05%
SPC-1	PB to PB	1	2	204	4.0	480	1	85%	Copper	PVC	0.19	0.308297039	0.06%
SPC-1	PB to PB	1	2	264	4.0	479	1	85%	Copper	PVC	0.19	0.398998041	0.08%
SPC-1	PB to PB	1	2	522	4.0	479	1	85%	Copper	PVC	0.19	0.790886507	0.17%
SPC-1	PB to PB	1	2	467	4.0	478	1	85%	Copper	PVC	0.19	0.709424207	0.15%
SPC-1	PB to PB	1	2	129	4.0	478	1	85%	Copper	PVC	0.19	0.195516897	0.04%
SPC-1	PB to PB	1	2	108	4.0	477	1	85%	Copper	PVC	0.19	0.164114383	0.03%
SPC-1	PB to PB	1	2	526	4.0	477	1	85%	Copper	PVC	0.19	0.80033402	0.17%
SPC-1	PB to 025	1	2	367	4.0	476	1	85%	Copper	PVC	0.19	0.558379508	0.12%
											Total	4.144483872	0.87%

SPC-3-2: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-3 to PB	1	2	139	8.0	480	1	85%	Copper	PVC	0.19	0.419024725	0.09%
SPC-1	PB to PB	1	2	204	8.0	480	1	85%	Copper	PVC	0.19	0.61685325	0.13%
SPC-1	PB to PB	1	2	264	8.0	479	1	85%	Copper	PVC	0.19	0.799356623	0.17%
SPC-1	PB to PB	1	2	524	8.0	478	1	85%	Copper	PVC	0.19	1.591081281	0.33%
SPC-1	PB to PB	1	2	132	8.0	477	1	85%	Copper	PVC	0.19	0.403395422	0.08%
SPC-1	PB to PB	1	2	113	8.0	476	1	85%	Copper	PVC	0.19	0.345445692	0.07%
SPC-1	PB to 027	1	2	98	8.0	476	1	85%	Copper	PVC	0.19	0.298219167	0.06%
SPC-1	027 to 026	1	2	503	4.0	476	1	85%	Copper	PVC	0.19	0.768195065	0.16%
											Total	5.241571227	1.10%

SPC-3-3: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-3 to PB	1	2	13	8.0	480	1	85%	Copper	PVC	0.19	0.038482522	0.01%
SPC-1	PB to PB	1	2	206	8.0	480	1	85%	Copper	PVC	0.19	0.623402334	0.13%
SPC-1	PB to PB	1	2	712	8.0	479	1	85%	Copper	PVC	0.19	2.157247652	0.45%
SPC-1	PB to PB	1	2	109	8.0	477	1	85%	Copper	PVC	0.19	0.33231323	0.07%
SPC-1	PB to 028	1	2	109	8.0	477	1	85%	Copper	PVC	0.19	0.333332691	0.07%
SPC-1	028 to 029	1	4	455	4.0	477	1	85%	Copper	PVC	0.29	1.057364053	0.22%
											Total	4.542142482	0.95%

SPC-3-4: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-3 to 031	1	6	206	6.4	480	1	85%	Copper	PVC	0.44	1.152767017	0.24%
SPC-1	031 to 030	1	6	307	3.2	479	1	85%	Copper	PVC	0.44	0.862868275	0.18%
SPC-1	SPC-3 to PB	1	6	320	3.2	478	1	85%	Copper	PVC	0.44	0.900555422	0.19%
SPC-1	PB to PB	1	6	382	3.2	477	1	85%	Copper	PVC	0.44	1.076447505	0.23%
SPC-1	PB to PB	1	6	485	3.2	476	1	85%	Copper	PVC	0.44	1.369604089	0.29%
SPC-1	PB to PB	1	6	110	3.2	475	1	85%	Copper	PVC	0.44	0.311650149	0.07%
SPC-1	PB to 032	1	6	424	3.2	474	1	85%	Copper	PVC	0.44	1.202558572	0.25%
											Total	6.876451029	1.44%

SPC-3-5: VOLTAGE DROP CALCULATIONS

* DENOTES EQUIPMENT NOT CONNECTED TO CIRCUIT

Panel ID	Location Description	# of Sets	Wire Size	One-Way Length (ft)	Line Current (Amps)	Voltage (Line-to-Line)	Phase	Power Factor (100% or 85%)	Wire Type	Conduit Type	Impedance (Ω /1000 ft)	Voltage Drop (Volts)	%VD
SPC-1	SPC-3 to PB	1	4	391	8.0	480	1	85%	Copper	PVC	0.29	1.804833707	0.38%
SPC-1	PB to PB	1	4	335	8.0	478	1	85%	Copper	PVC	0.29	1.553607583	0.32%
SPC-1	PB to PB	1	4	113	8.0	477	1	85%	Copper	PVC	0.29	0.526842956	0.11%
SPC-1	PB to 033	1	4	125	8.0	476	1	85%	Copper	PVC	0.29	0.58158473	0.12%
SPC-1	033 to 034	1	4	466	4.0	476	1	85%	Copper	PVC	0.29	1.085856253	0.23%
											Total	5.552725229	1.16%

JAMES K. SCHMITT
LICENSED PROFESSIONAL ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

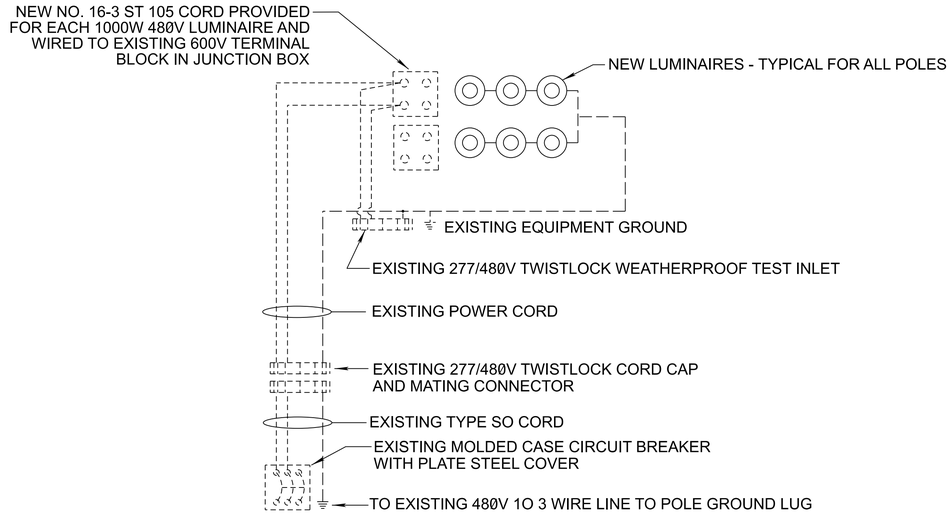
DESIGNED BY: ZJD
DETAILED BY: BVW
CHECKED BY: JKS
DATE: MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

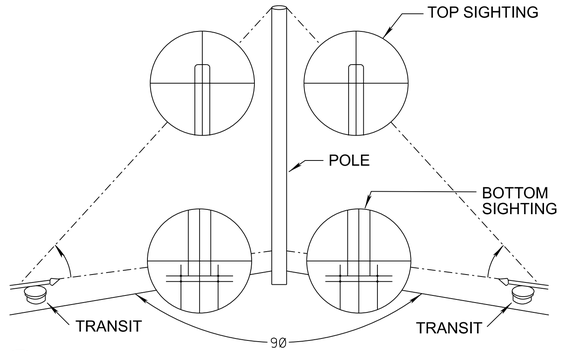
LIGHTING DETAIL 2
RIDGELAND

SHEET ID
LD-02

SHEET NO.
4013

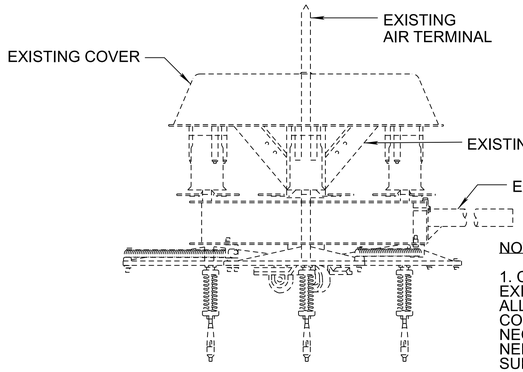


1 LD-4 **TYPICAL HIGH MAST POLE SCHEMATIC DETAIL**
N.T.S.



2 LD-4 **VERTICAL ALIGNMENT OF HIGH MAST POLES DETAIL**
N.T.S.

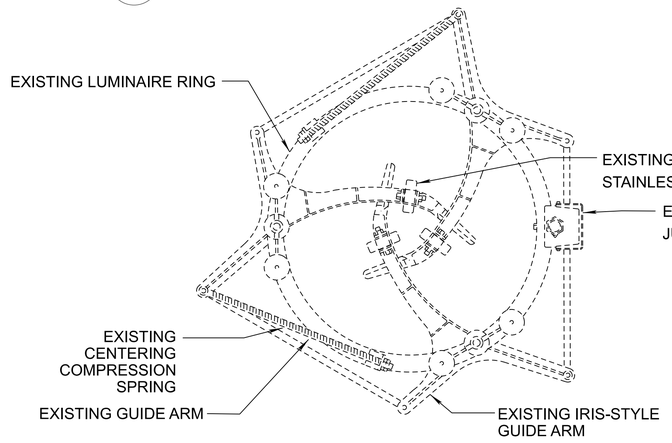
NOTE: SEE SPECIFICATIONS FOR CLARIFICATION ON POLE ALIGNMENT



NOTE:

1. CONNECT NEW HIGH MAST LIGHT FIXTURES TO EXISTING MOUNTING ARM ON EXISTING RING ASSEMBLY. ALL EQUIPMENT TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. ANY ADDITIONAL EQUIPMENT NECESSARY, OR ADDITIONAL EXISTING EQUIPMENT THAT NEEDS TO BE REPLACED FOR CONNECTION SHALL BE SUBSIDIARY TO THE RENOVATION PAY ITEM.

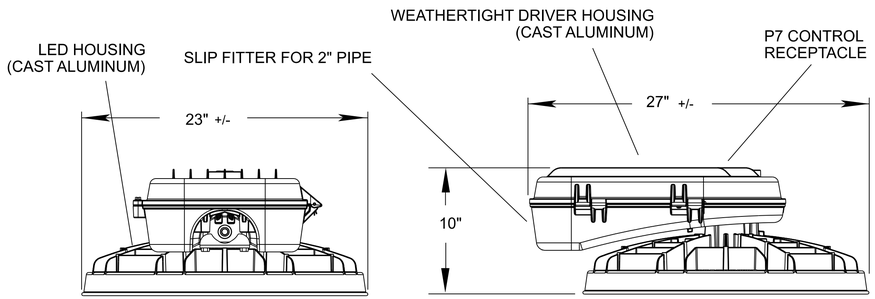
3 LD-3 **EXISTING HEAD FRAME AND LUMINAIRE MOUNTING DETAIL**
N.T.S.



NOTE:

1. CONNECT NEW HIGH MAST LIGHT FIXTURES TO EXISTING MOUNTING ARM ON EXISTING RING ASSEMBLY. ALL EQUIPMENT TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. ANY ADDITIONAL EQUIPMENT NECESSARY, OR ADDITIONAL EXISTING EQUIPMENT THAT NEEDS TO BE REPLACED FOR CONNECTION SHALL BE SUBSIDIARY TO THE RENOVATION PAY ITEM.

4 LD-3 **LUMINAIRE MOUNTING RING DETAIL (TOP VIEW)**
N.T.S.



5 LD-3 **TYPICAL HIGH MAST LED LUMINAIRE DETAIL**
N.T.S.

JAMES K. SCHMITT LICENSED PROFESSIONAL ENGINEER 33922 STATE OF MISSISSIPPI

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY:ZJD
DETAILED BY:BVW
CHECKED BY:JKS
DATE:MAY 2025

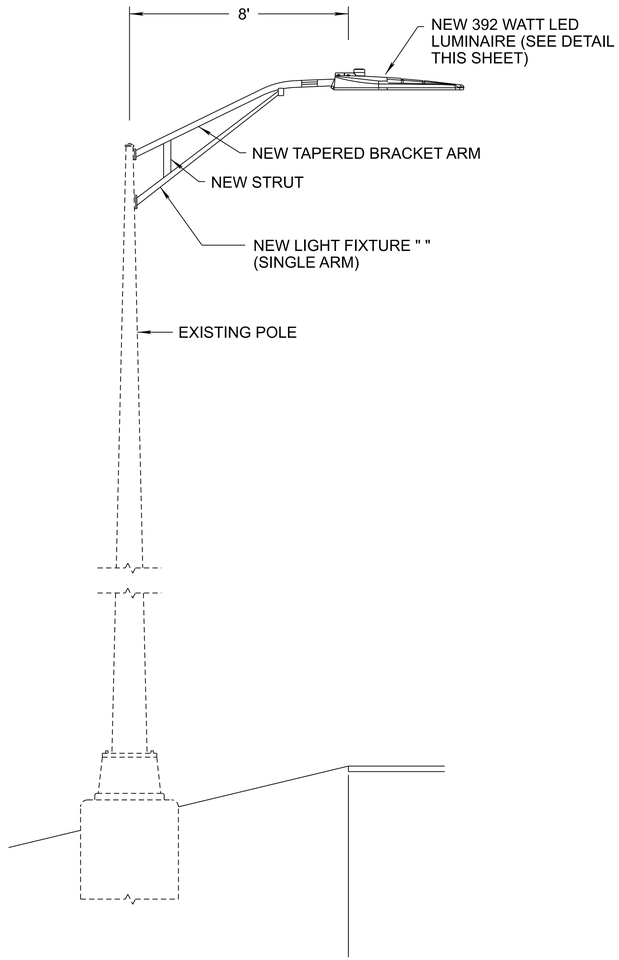
FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

LIGHTING DETAIL 3
RIDGELAND

SHEET ID
LD-03

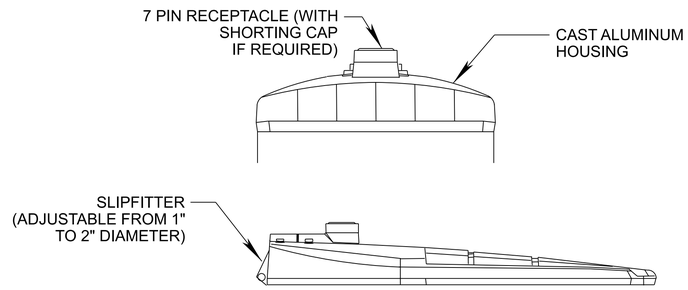
SHEET NO.
4014

DATE 5:02:42 PM LD.dgn PLAN SHEET



1 LD-3 **EXISTING LOWMAST LIGHTING ASSEMBLY DETAIL**

N.T.S.



2 LD-3 **LUMINAIRE-LOWMAST LIGHTING ASSEMBLY DETAIL**

LUMINAIRE REQUIREMENTS - REFER TO FIXTURE SCHEDULE
N.T.S.

JAMES K. SCHMITT
LICENSED PROFESSIONAL
ENGINEER
33922
STATE OF MISSISSIPPI

MDOT
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY:ZJD
DETAILED BY:BVW
CHECKED BY:JKS
DATE:MAY 2025

FMS CON: 109704/701000
PROJECT NO.: STP-0213-00(038)LPA
COUNTY: MADISON

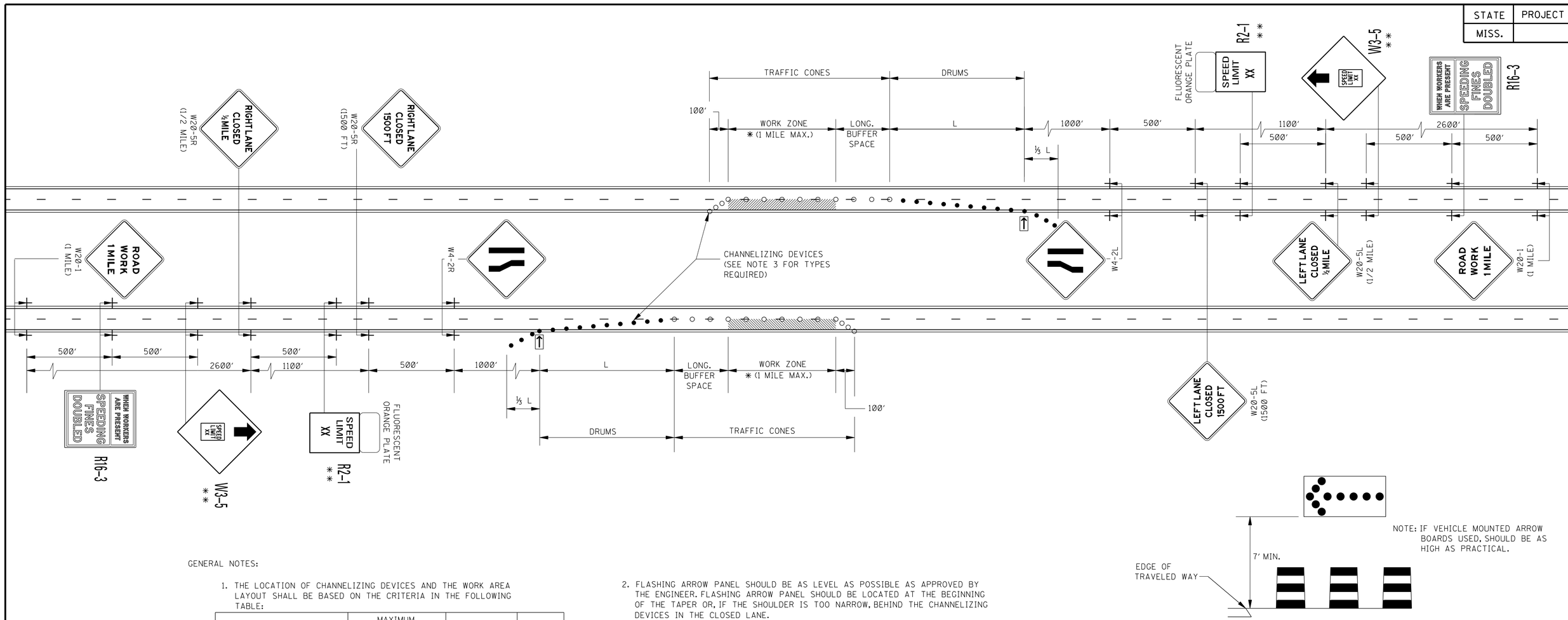
LIGHTING DETAIL 4
RIDGELAND

SHEET ID
LD-04

SHEET NO.
4015

DATE 5:02:43 PM LD.dgn PLAN SHEET

STATE	PROJECT NO.
MISS.	



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		LONGITUDINAL BUFFER SPACE †† (ft)	TAPER RATES †
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
$L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICE TYPES FOR:
   A. APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
   B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28″ HEIGHT MINIMUM)
   C. EXIT TAPER- TRAFFIC CONES (28″ HEIGHT MINIMUM)

4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.

5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.

6. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48″ X 48″, AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.

7. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

LEGEND

* OR AS SHOWN ELSEWHERE ON THE PLANS.

** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.

⇒ FLASHING ARROW PANEL (TYPE "C")

● RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS

○ TRAFFIC CONES (28″ HEIGHT MINIMUM)

REVISION	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH

(4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)

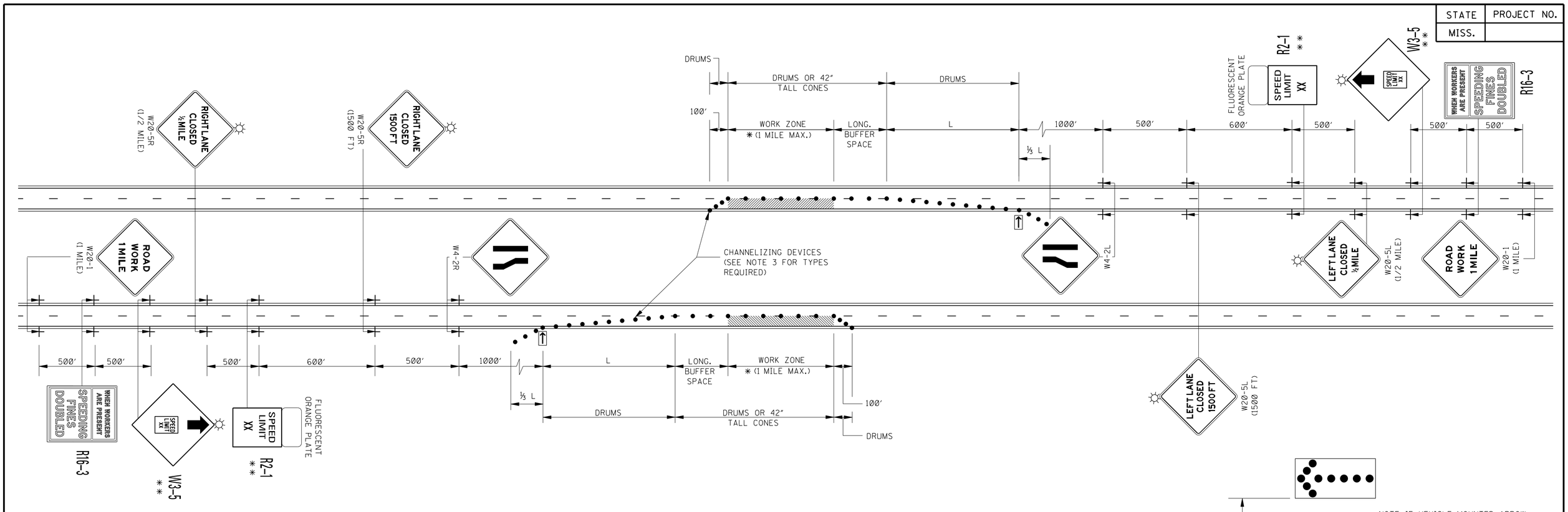
MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

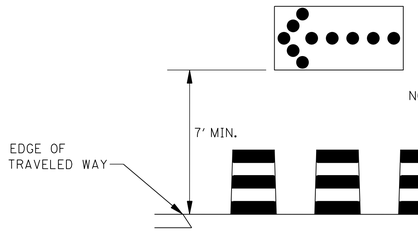
WORKING NUMBER TCP-2

ISSUE DATE: AUGUST 01, 2017

SHEET NUMBER 6352

STATE	PROJECT NO.
MISS.	





GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		†† LONGITUDINAL BUFFER SPACE (ft)	TAPER † RATES
	TAPER	ALONG BUFFER SPACE & WORK ZONE		
mph				
≤40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
$L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES:
   A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
   B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
   C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
   D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
4. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
5. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

LEGEND

* OR AS SHOWN ELSEWHERE ON THE PLANS.

** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.

FLASHING ARROW PANEL (TYPE "C")

RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS

TYPE "B" WARNING LIGHTS

BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT LESS THAN 65 MPH

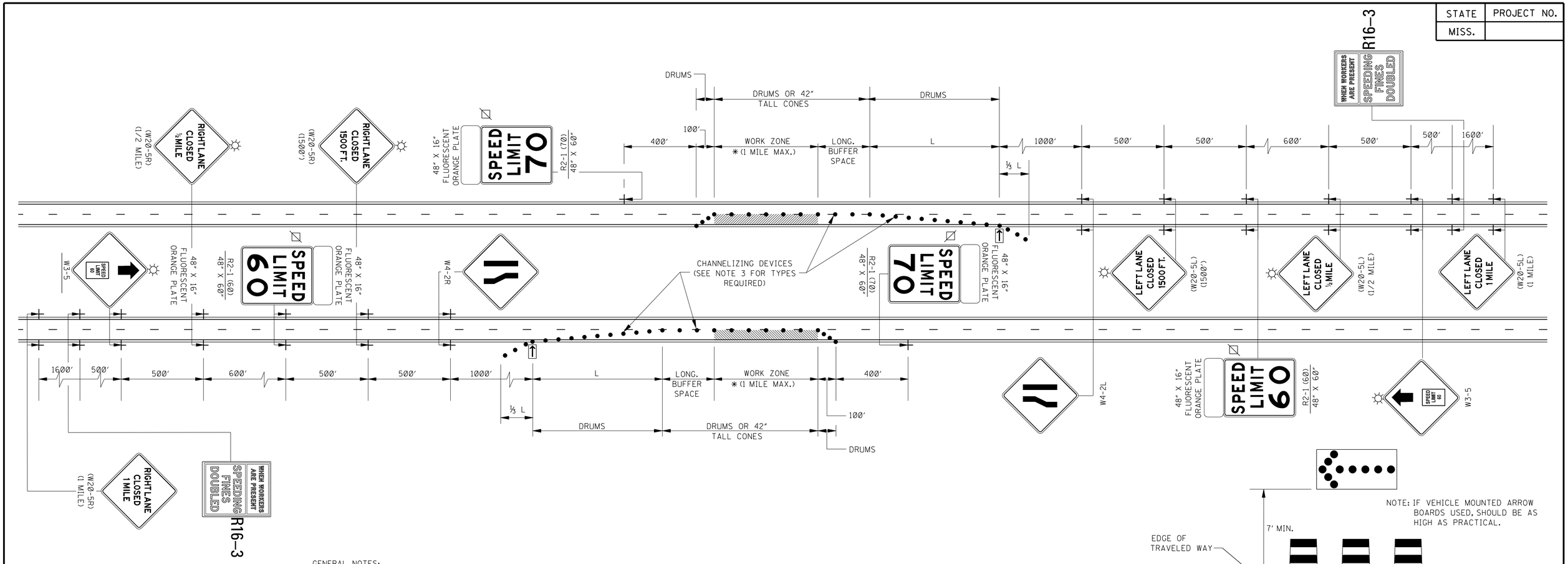
(4-LANE: MEDIAN LANE OR OUTSIDE LANE CLOSURE) (EXTENDED PERIOD)

ISSUE DATE: AUGUST 01, 2017

WORKING NUMBER TCP-3

SHEET NUMBER 6353

STATE	PROJECT NO.
MISS.	



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		†† LONGITUDINAL BUFFER SPACE (ft)	TAPER† RATES
	TAPER	ALONG BUFFER SPACE & WORK ZONE		
mph				
≤40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
$L = WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICES:
   A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
   B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
   C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
   D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.

4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.

5. ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.

6. ADDITIONAL REDUCED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.

7. THIS TRAFFIC CONTROL PLAN, WITH SPEED ZONE, MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.

8. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.

9. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.

10. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

LEGEND

- * OR AS SHOWN ELSEWHERE ON THE PLANS.
- FLASHING ARROW PANEL (TYPE "C")
- BLACK LEGEND AND BORDER ON WHITE BACKGROUND
- TYPE "B" WARNING LIGHTS
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH

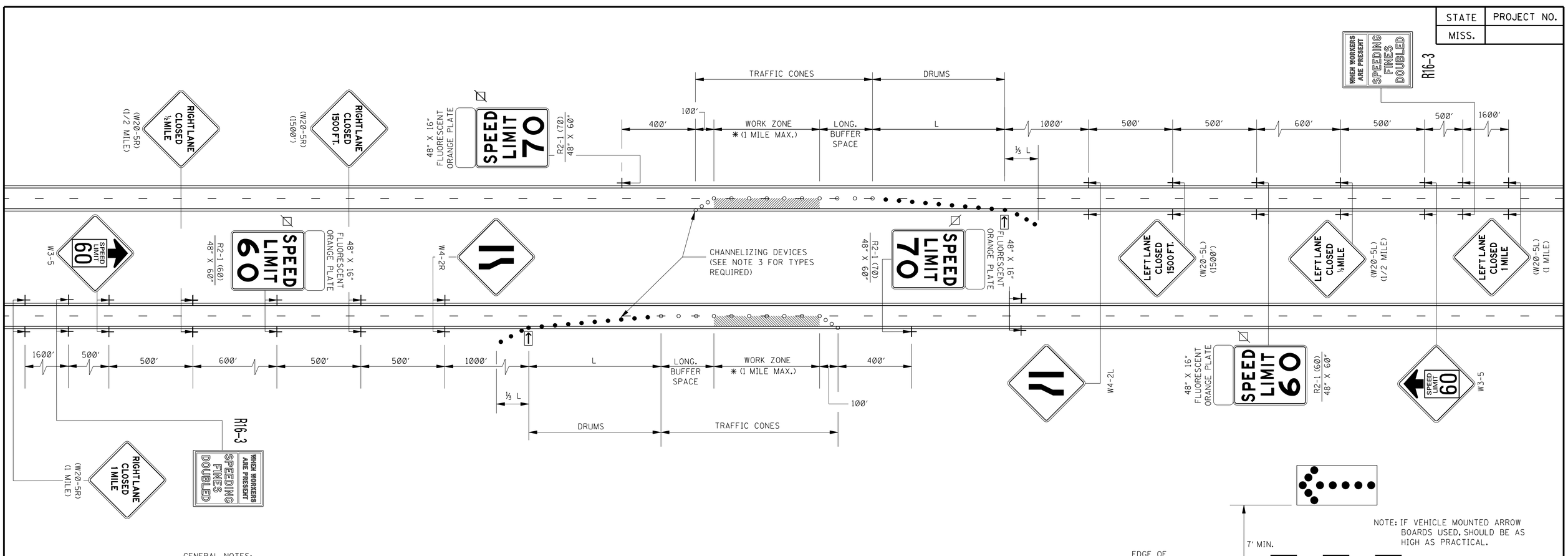
(INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (EXTENDED PERIOD)

ISSUE DATE: AUGUST 01, 2017

WORKING NUMBER TCP-4

SHEET NUMBER 6354

STATE	PROJECT NO.
MISS.	



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (ft)		†† LONGITUDINAL BUFFER SPACE (ft)	TAPER† RATES
	TAPER	ALONG LANE LINE & WORK ZONE		
mph				
≤40	40	80	305	27:1
45	45	90	360	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 mph OR GREATER
L = $WS^2/60$ FOR SPEEDS OF 40 mph OR LESS
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
W = WIDTH OF OFFSET (USUALLY LANE WIDTH) IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICE TYPES FOR:
   A. APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
   B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM)
   C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)

4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.

5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING AND REGULATORY SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.

6. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48". AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.

7. ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON THE FACE OF SIGN.

8. ADDITIONAL REDUCED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.

9. THIS TRAFFIC CONTROL PLAN, WITH SPEED ZONE, MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.

10. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.

11. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS AND "REDUCED SPEED AHEAD" SIGNS REQUIRED FOR LANE CLOSURE.

12. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

LEGEND

* OR AS SHOWN ELSEWHERE ON THE PLANS.
FLASHING ARROW PANEL (TYPE "C")
BLACK LEGEND AND BORDER ON WHITE BACKGROUND
RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
TRAFFIC CONES (28" HEIGHT)

BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN FOR POSTED SPEED LIMIT OF 65 OR 70 MPH

(INTERSTATES AND OTHER 4-LANE DIVIDED HIGHWAYS) (MEDIAN LANE OR OUTSIDE LANE CLOSURE) (WORK DAY ONLY)

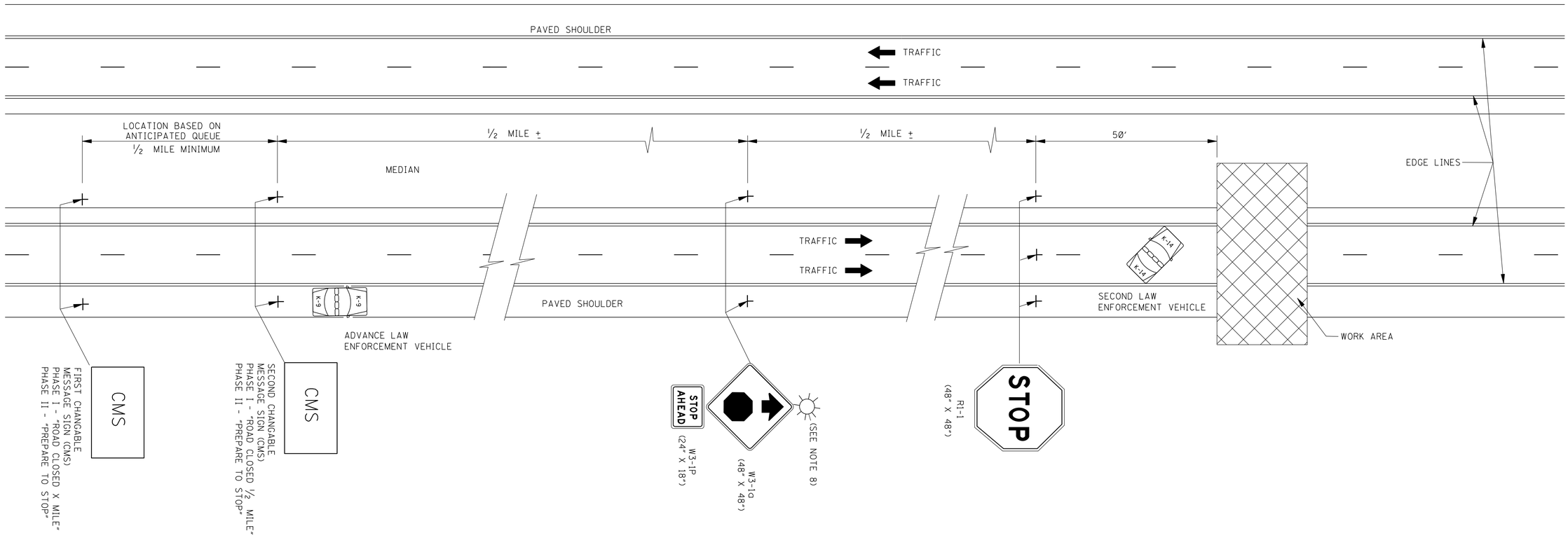
MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

WORKING NUMBER TCP-5

ISSUE DATE: AUGUST 01, 2017

SHEET NUMBER 6355

STATE	PROJECT NO.
MISS.	



GENERAL NOTES:

1. THIS TYPE OF HIGHWAY CLOSURE SHOULD ONLY BE USED FOR CONSTRUCTION OPERATIONS WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 30 MINUTES. AFTER THE HIGHWAY HAS BEEN CLOSED AND REOPENED VIA THIS PROCEDURE, A MINIMUM PERIOD OF 30 MINUTES SHOULD ELAPSE BEFORE ANOTHER SHORT DURATION CLOSURE, EXCEPT WITH THE APPROVAL OF THE ENGINEER.

2. AT LEAST TWO LAW ENFORCEMENT OFFICERS AND TWO LAW ENFORCEMENT VEHICLES SHOULD BE PROVIDED ON EACH APPROACH TO THE CLOSURE. EACH LAW ENFORCEMENT VEHICLE SHOULD HAVE A ROOF MOUNTED FLASHING BLUE LIGHT OR LIGHT BAR.

3. RESTRICTIONS ON ROAD CLOSURES ARE SPECIFIED IN THE CONTRACT DOCUMENT.

4. THE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD BE MOVED BACK AS REQUIRED BY THE QUEUING OF STOPPED VEHICLES.

5. IF QUEUE EXCEEDS THE FIRST CHANGABLE MESSAGE SIGN (CMS) AT ANYTIME DURING A CLOSURE; THE TRAFFIC CONTROL PLAN SHOULD BE ADJUSTED AS NECESSARY, WITH APPROVAL OF THE ENGINEER.

6. TRAFFIC CONTROL FOR THE CLOSURE SHOULD BE ACCOMPLISHED IN THE FOLLOWING ORDER:
   A. FIRST CHANGABLE MESSAGE SIGN (CMS)
   B. SECOND CHANGEABLE MESSAGE SIGN (CMS)
   C. ADVANCE LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
   D. "W3-1a (48" X 48")" AND "W3-1P (24" X 18")" SIGNS ERECTED.
   E. "R1-1 (48" X 48")" SIGNS ERECTED TO STOP TRAFFIC. THE ORDER OF ERECTION SHOULD BE TOWARD THE MEDIAN SHOULDER IN THE FOLLOWING ORDER: RIGHT SHOULDER, THEN CENTER, THEN MEDIAN SHOULDER.
   F. SECOND LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.

7. TRAFFIC CONTROL SHOULD BE REMOVED IN THE FOLLOWING ORDER:
   A. WITH TRAFFIC STOPPED REMOVE THE "R1-1 (48" X 48")" SIGNS TOWARD THE RIGHT SHOULDER IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON THE RIGHT SHOULDER. SECOND LAW ENFORCEMENT VEHICLE LEADS TRAFFIC THROUGH WORK AREA.
   B. AFTER ALL STOPPED VEHICLES HAVE STARTED MOVING, THE "W3-1a (48" X 48)" AND "W3-1P (24" X 18") SIGNS SHOULD BE REMOVED. THESE SIGNS MAY BE COVERED IF RE-USE IS IMMENENT.
   C. AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL SPEED, THE CHANGABLE MESSAGE SIGNS TURNED OFF.

8. UNILLUMINATED SECTIONS OF HIGHWAYS SHOULD NOT BE CLOSED DURING HOURS OF DARKNESS EXCEPT FOR EMERGENCIES OR WITH THE APPROVAL OF THE ENGINEER. WHEN THE HIGHWAY MUST BE CLOSED DURING HOURS OF DARKNESS, A TYPE B HIGH INTENSITY FLASHING BARRICADE WARNING LIGHT SHALL BE USED ON EACH W3-1a SIGN.

9. IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE SECOND CMS AND R1-1, THE CMS, "W3-1a (48" X 48")", AND "W3-1P (24 "X 18") SIGNS SHOULD ALSO BE ERECTED ON THE RAMP SHOULDER.

10. THE ABOVE DURATION WILL APPLY TO EACH APPROACH TO THE CLOSURE.

11. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC, INCLUDING SECURING LAW ENFORCEMENT SERVICES.

DATE	REVISION	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

SHORT DURATION CLOSING OF DIVIDED HIGHWAYS

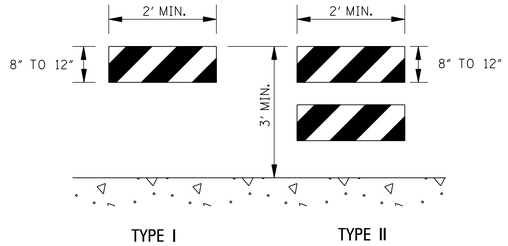
MDOT

WORKING NUMBER
TCP-7

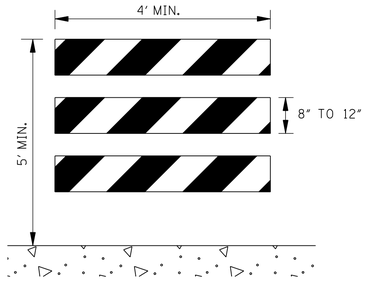
ISSUE DATE: AUGUST 01, 2017

SHEET NUMBER
6357

STATE	PROJECT NO.
MISS.	



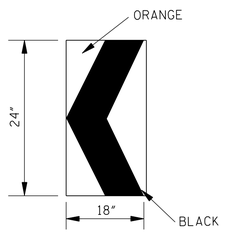
TYPE I TYPE II



TYPE III

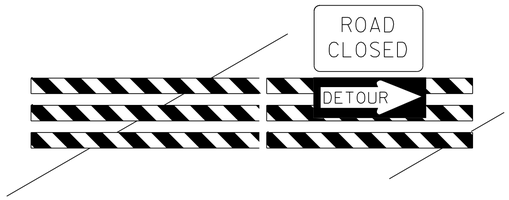
STANDARD BARRICADES

1. THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
2. RAIL STRIPE SHOULD BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
3. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
4. FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.
5. BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WORK ZONE DEVICES WHICH REQUIRE CRASHWORTHINESS ACCEPTANCE LETTERS. TO DATE, 2-IN. THICK TIMBER RAILS HAVE NOT BEEN SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATAGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE: http://safety.fhwa.dot.gov/roadway_dept/policy.guide/road_hardware/cat2.cfm



CHEVRON SIGN DETAIL

1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHOULD BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



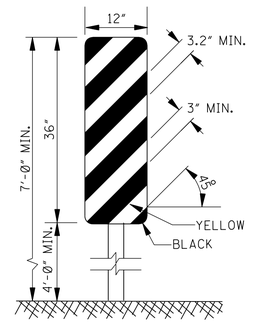
BARRICADE CLOSING A ROAD

BARRICADE CHARACTERISTICS

	I	II	III
WIDTH OF RAIL **	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL **	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS

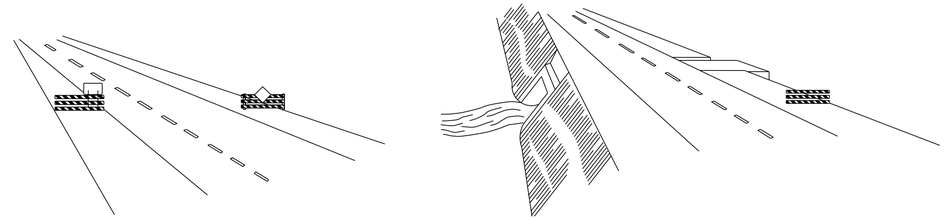
* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270 in^2 OF REFLECTIVE AREA FACING TRAFFIC.



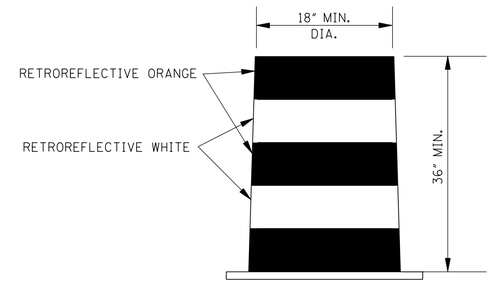
TYPE 3 OBJECT MARKER (OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DEEMED NECESSARY BY THE ENGINEER.
2. THE OM-3R IS SHOWN. THE OM-3L IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.



WING BARRICADES

1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
   A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
   B. IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



PLASTIC DRUM STRIPING DETAIL

1. PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) RETROREFLECTIVE, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
2. DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
3. WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

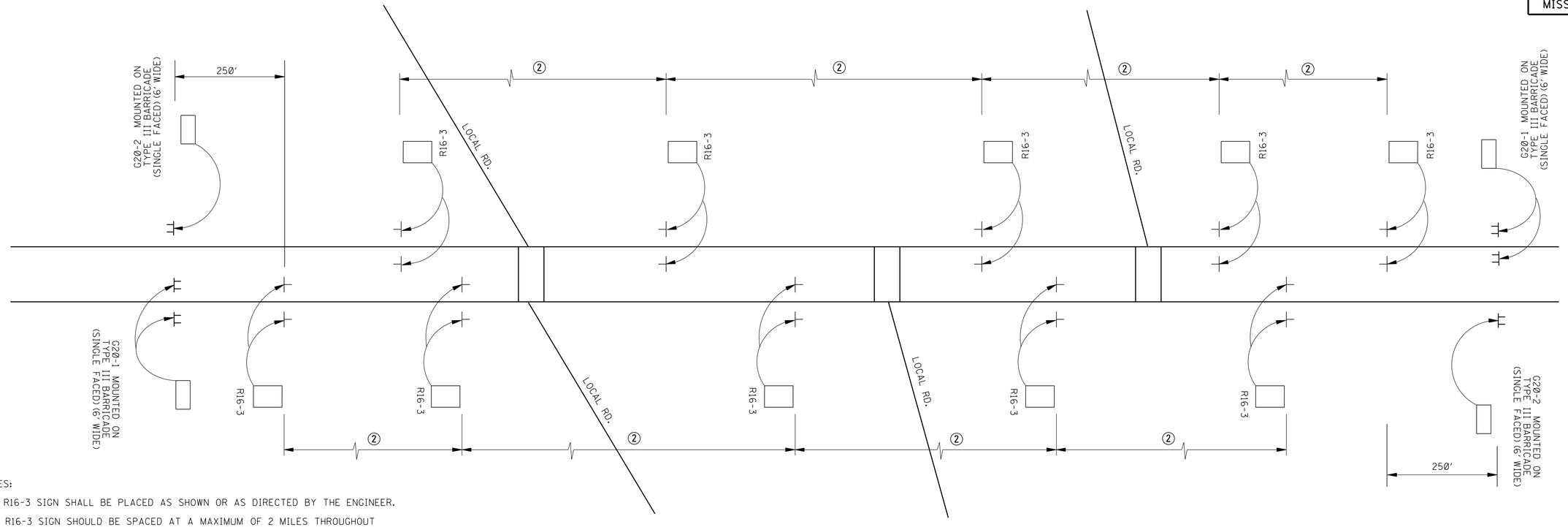
ISSUE DATE: AUGUST 01, 2017

MDOT

WORKING NUMBER
TCP-8

SHEET NUMBER
6358

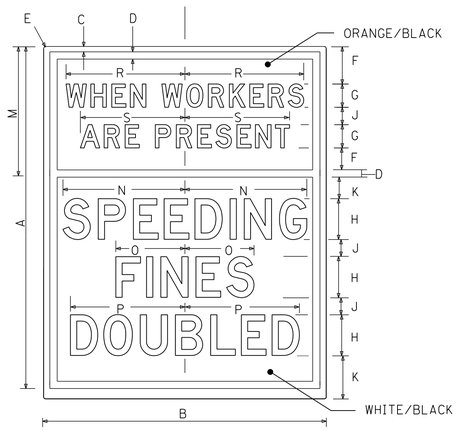
STATE	PROJECT NO.
MISS.	



NOTES:

1. R16-3 SIGN SHALL BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. R16-3 SIGN SHOULD BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.
3. THIS SHEET WILL ONLY APPLY TO SPEED REDUCTION SECTIONS.

DIVIDED HIGHWAY SHOWN
(2 LANE – 2 WAY ROADWAY SIMILAR)
(PROJECT MORE THAN 1 MILE LENGTH)



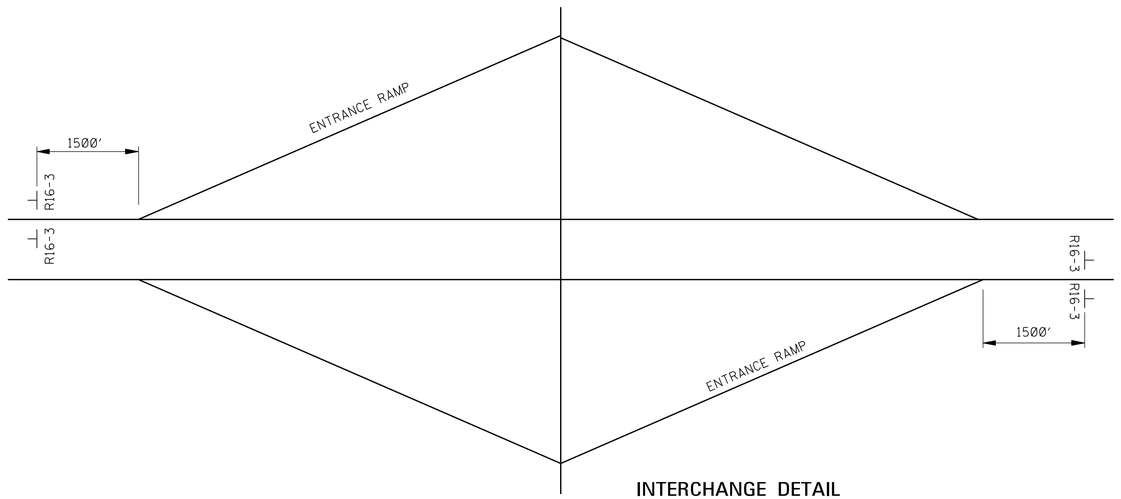
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	60	48	3/4	1 1/4	3	3 3/4	4 Dm	7 D
	J	K	M	N	O	P	R	S
STD.	3	6 5/8	22 1/8	21	11 7/8	19 23/32	20 5/32	18

48" x 60"
(INTERSTATE USE)

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	48	36	3/4	1 1/4	3	2 3/4	3 Dm	6 D
	J	K	M	N	O	P	R	S
STD.	3	4 1/8	14 3/4	14	7 7/8	13 1/8	13 5/8	12

36" x 48"
(ALL OTHER HIGHWAYS)

R16–3



INTERCHANGE DETAIL

BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

LOCATION OF R16–3 SIGNS (SPEEDING FINES DOUBLED)

MDOT

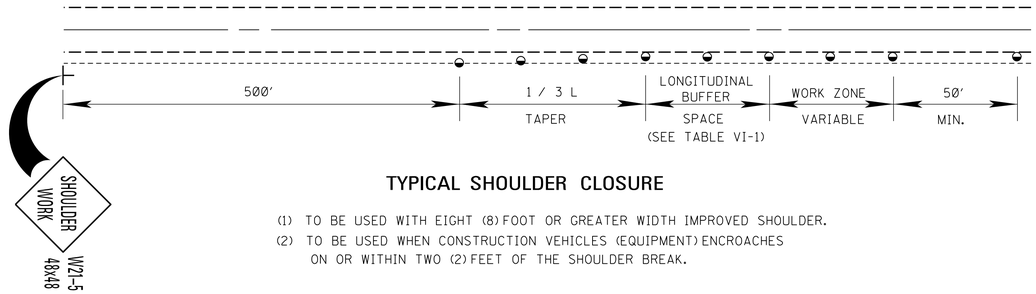
WORKING NUMBER
TCP-15

ISSUE DATE: AUGUST 01, 2017

SHEET NUMBER
6365

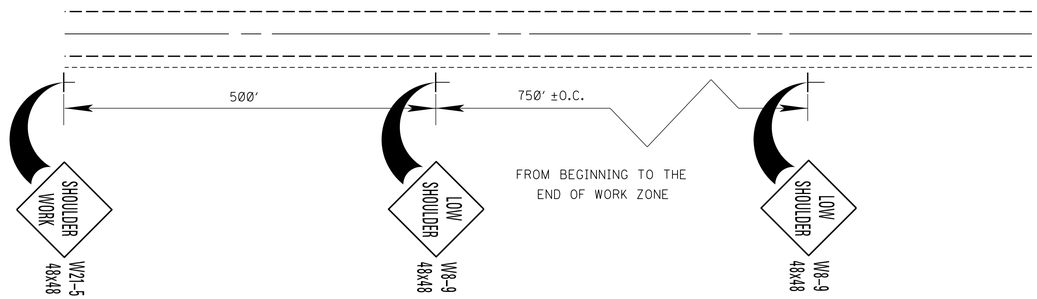
STATE	PROJECT NO.
MISS.	

PLASTIC DRUMS
(SEE NOTE FOR SPACING)



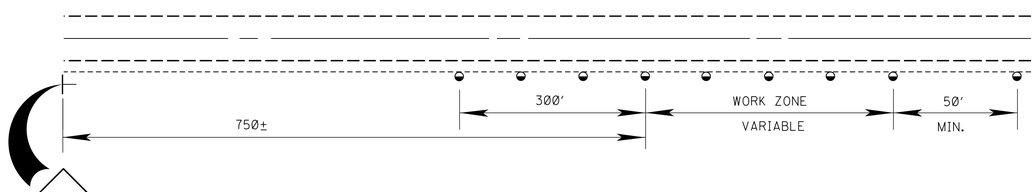
TYPICAL SHOULDER CLOSURE

(1) TO BE USED WITH EIGHT (8) FOOT OR GREATER WIDTH IMPROVED SHOULDER.
(2) TO BE USED WHEN CONSTRUCTION VEHICLES (EQUIPMENT) ENCROACHES ON OR WITHIN TWO (2) FEET OF THE SHOULDER BREAK.



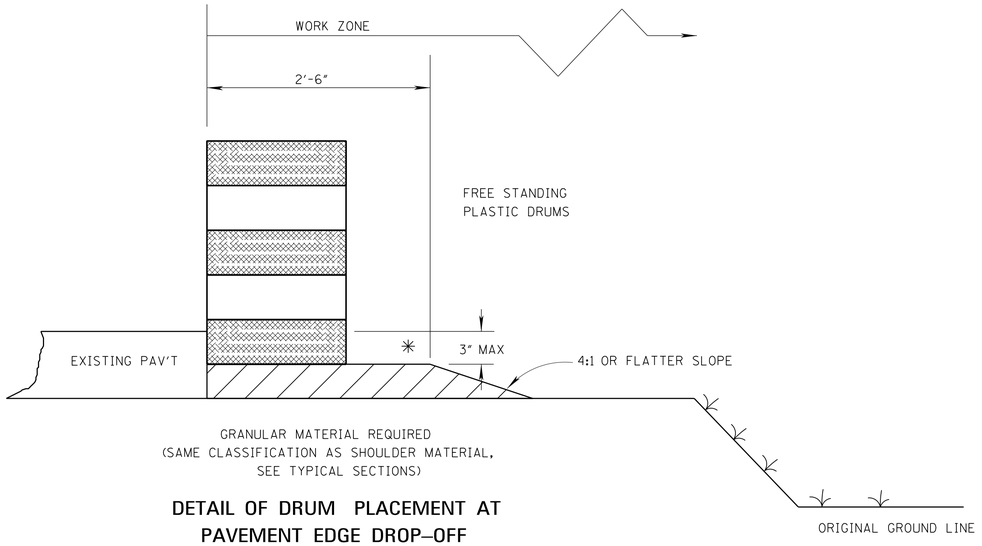
TYPICAL SHOULDER WORK #1
(SEE NOTE A–1 THIS SHEET)

PLASTIC DRUMS
(SEE NOTE FOR SPACING)



TYPICAL SHOULDER WORK #2

NOTE:
WORK OUTSIDE TWO (2) FOOT AND WITHIN TEN (10) FEET OF THE SHOULDER BREAK MAY BE PROTECTED BY PLACING DRUMS ALONG THE SHOULDER EDGE, 300 FEET PRIOR TO AND 50 FEET BEYOND THE WORK AREA, OR SEE NOTE A-3 THIS SHEET.



DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP–OFF

NOTES:

✳ A. PAVEMENT EDGE DROP-OFF

1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECTION REQUIRED. PLACE A SHOULDER WORK SIGN (W21-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750′+O.C.).

2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS, AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1 / 3 L, WHERE L IS THE TAPER LENGTH IN FEET.)

3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE WITH 4:1 OR FLATTER SLOPE NEEDED. IF THERE IS EIGHT (8) FEET OR MORE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THEN DRUMS, PANELS OR BARRICADES MAY BE USED.

4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

B. DRUM SPACING

1. TANGENTS = 2 X S
2. TAPERS = L / 3
   WHERE L = S X W
   L = TAPER LENGTH IN FEET
   S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
   W = WIDTH OF OFFSET IN FEET

C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

TABLE VI-1. GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE

✳✳ SPEED (MPH)	LENGTH (FEET)
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

✳✳ POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH.

BY | REVISION | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL DETAILS DRUM PLACEMENT AND SHOULDER CLOSURE

MDOT MISSISSIPPI DEPARTMENT OF TRANSPORTATION

WORKING NUMBER
TCP-16

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SHEET NUMBER
6366