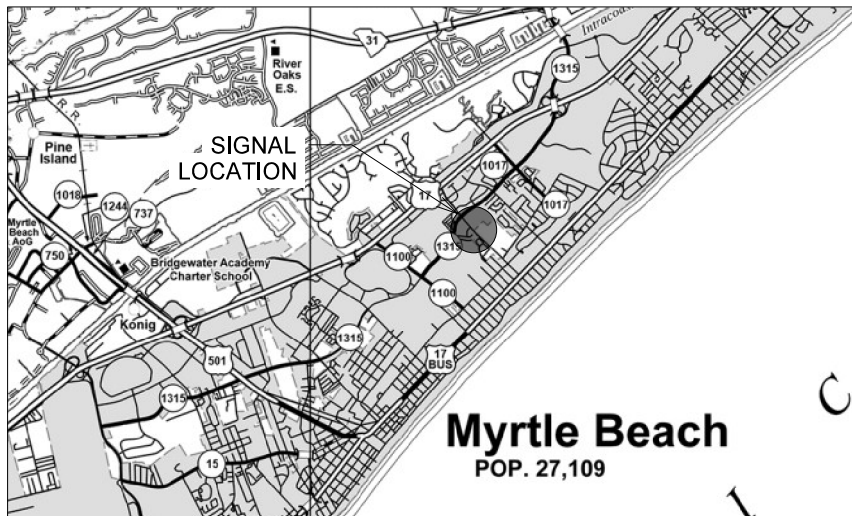


FED. ROAD DIV. NO.	STATE	COUNTY	ROUTE NO.	SHEET NO.
3	SC	HORRY	S-263	TS01



ROUTE NUMBER	S-263	FIRE STATION DRIVEWAY
APPROACH DIRECTION	EB WB	SB
SIGNAL DESIGN SPEED	35 35	25
GRADE (%)	1% -1%	0%

\* GRADE INFORMATION OBTAINED GOOGLE EARTH ELEVATION PROFILE VIEW.

## SIGNAL EQUIPMENT

8 PHASE FULLY ACTUATED STANDARD 2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT, AND BASE - MOUNTED 332 CABINET.

0 MODEL 222, (2)-CHANNEL VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. PROP. W/ACT. & SIGN

VEHICLE SIGNALS: EXT. PROP.

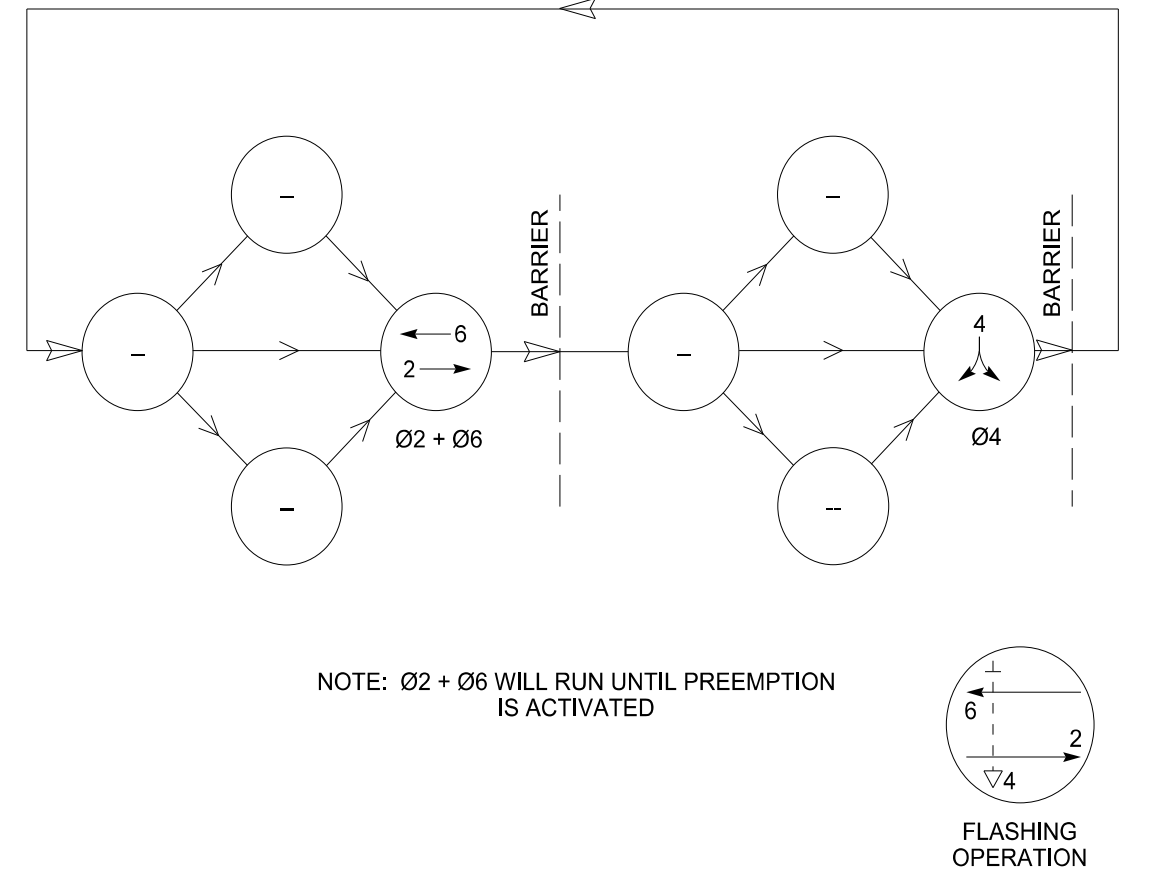
SIGNS EXT. PROP.

HEAD NUMBER	2	4	6
LENS	R	R	R
	Y	Y	Y
PHASE	2	4	6
SIZE	12" 12" 18"	12"	12" 12" 18"
QUANTITY	2	2	2

OLA OLC  
OLB OLD

METAL POLES AS NECESSARY: EXT. PROP.   
WOOD POLES AS NECESSARY: EXT. PROP.

## NEMA PHASING



### NOTES:

1. INSTALL RETROREFLECTIVE BACKPLATES ON ALL PROPOSED SIGNAL HEADS.

2. ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH ALL CURRENT APPLICABLE SCDOT REFERENCES INCLUDING STANDARD DRAWINGS SECTION NO. 625-000, AND 675-000, TRAFFIC SIGNAL SPECIFICATIONS AS PROVIDED, AND SIGNAL DESIGN GUIDELINES.

3. FIRE STATION INTERCONNECT PUSH BUTTON ACTUATION.

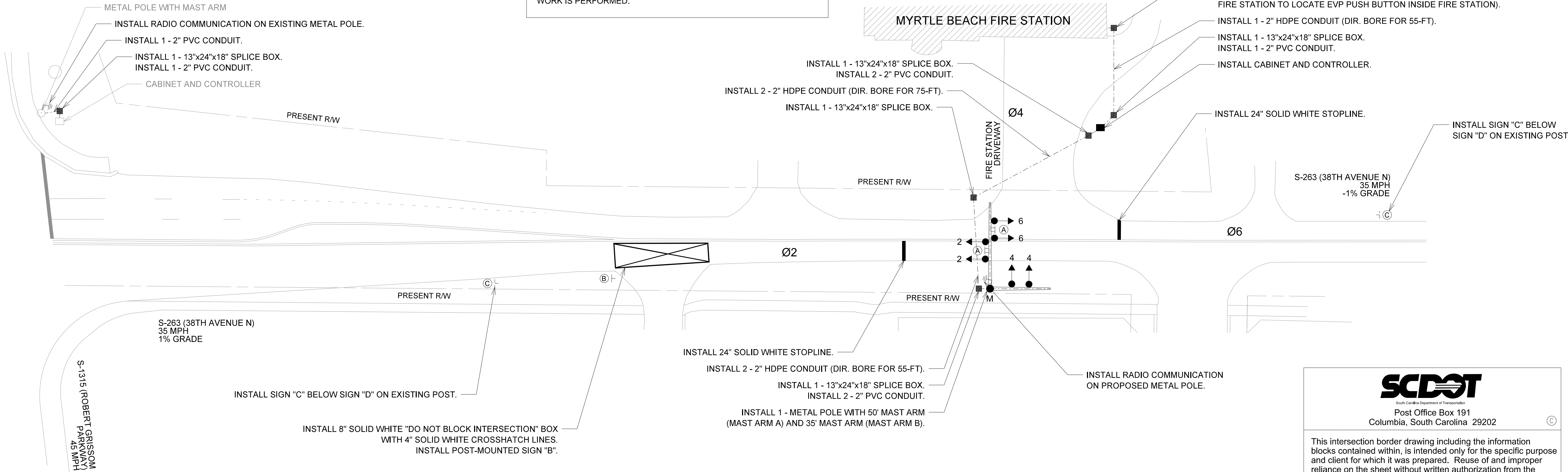
4. CONTRACTOR TO COORDINATE WITH FIRE STATION TO LOCATE EMERGENCY VEHICLE PREEMPTION INSIDE FIRE STATION.

5. SIGNALS WILL FLASH YELLOW (8-INCH SECTION) TO ARTERY AND RED TO DRIVEWAY DURING ALL PERIODS EXCEPT DURING A SPECIFIED INTERVAL FOLLOWING ACTUATION FROM FIRE STATION.

6. ON ACTUATION FROM FIRE STATION, THE FLASHING SEQUENCE WILL BE PRE-EMPTED BY A FIXED TIME SEQUENCE SHOWING THE INDICATIONS AS LISTED IN THE EMERGENCY SEQUENCE.

7. INCLUDE THE DISTRICT 5 SIGNAL SHOP, CITY OF MYRTLE BEACH SIGNAL SHOP, AND MYRTLE BEACH FIRE STATION NO.6 IN PRECONSTRUCTION MEETINGS.

8. CONTACT THE DISTRICT 5 SIGNAL SHOP, CITY OF MYRTLE BEACH SIGNAL SHOP, AND MYRTLE BEACH FIRE STATION NO.6 BEFORE ANY WORK IS PERFORMED.



FIRE STATION PREEMPTION INTERVAL  
S-1315 (ROBERT GRISSOM PARKWAY) AT  
S-263 (38TH AVENUE NORTH)

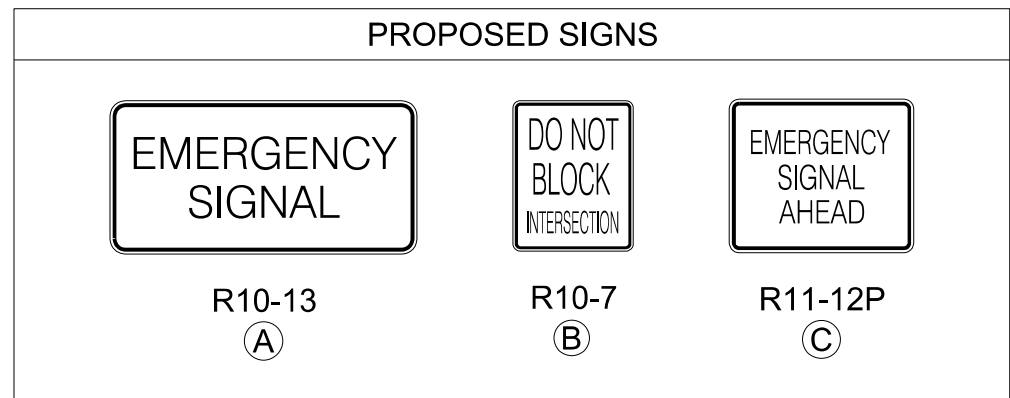
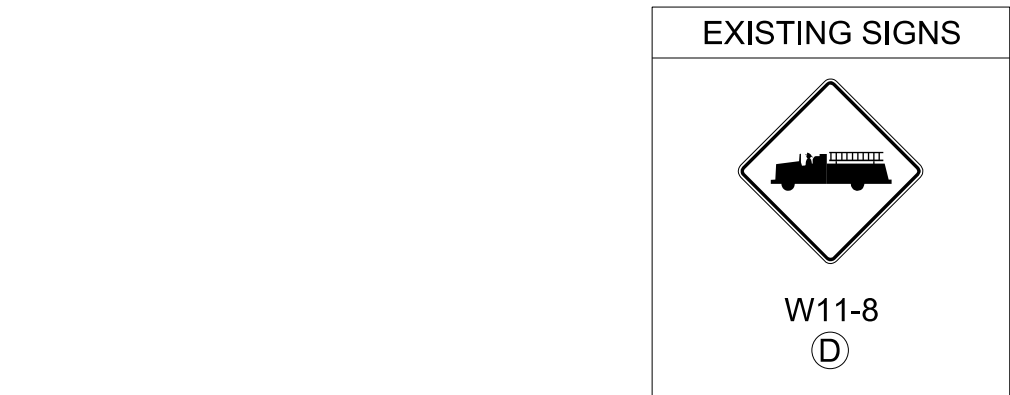
EVP CLEAR PHASES: Ø2 + Ø5 (38TH AVE. NORTHBOUND)  
EVP CLEAR GREEN: 50 SEC  
EXIT PHASES: Ø2 + Ø5 (38TH AVE. NORTHBOUND)  
RESUME PHASES: Ø4 + Ø8 (ROBERT M. GRISSOM PKWY)

\* EXISTING SIGNAL PHASES REFERENCED FROM  
EXISTING TRAFFIC SIGNAL PLAN DATED 10/2000.

## EMERGENCY SEQUENCE

SIGNAL HEAD NUMBER	CONDITION 1 INTERVAL	F. CLEAR INTERVAL
2	FY Y R R R R FY	N.O.
4	R R R G Y R R	N.O.
6	FY Y R R R R FY	N.O.
TIMINGS	* 3.7 2.5 10 3.0 3.1	N.O.

\* SEE NOTE 5.



**SCDOT**

South Carolina Department of Transportation

Post Office Box 191  
Columbia, South Carolina 29202

This intersection border drawing including the information blocks contained within, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on the sheet without written authorization from the SCDOT Traffic Engineering office is prohibited.

**SCDOT**

SOUTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
ENGINEERING DIVISION  
..... COLUMBIA ..... S.C.

SUBJECT TITLE  
TRAFFIC SIGNAL PLAN  
SPECIFIC LOCATION  
S-263 (38TH AVENUE N) AT  
MYRTLE BEACH FIRE STATION DRIVEWAY

CITY  
MYRTLE BEACH

COUNTY  
HORRY

APPROVED BY  
DISTRICT # 1 TRAFFIC ENGINEER  
DISTRICT ENGINEERING ADMINISTRATOR

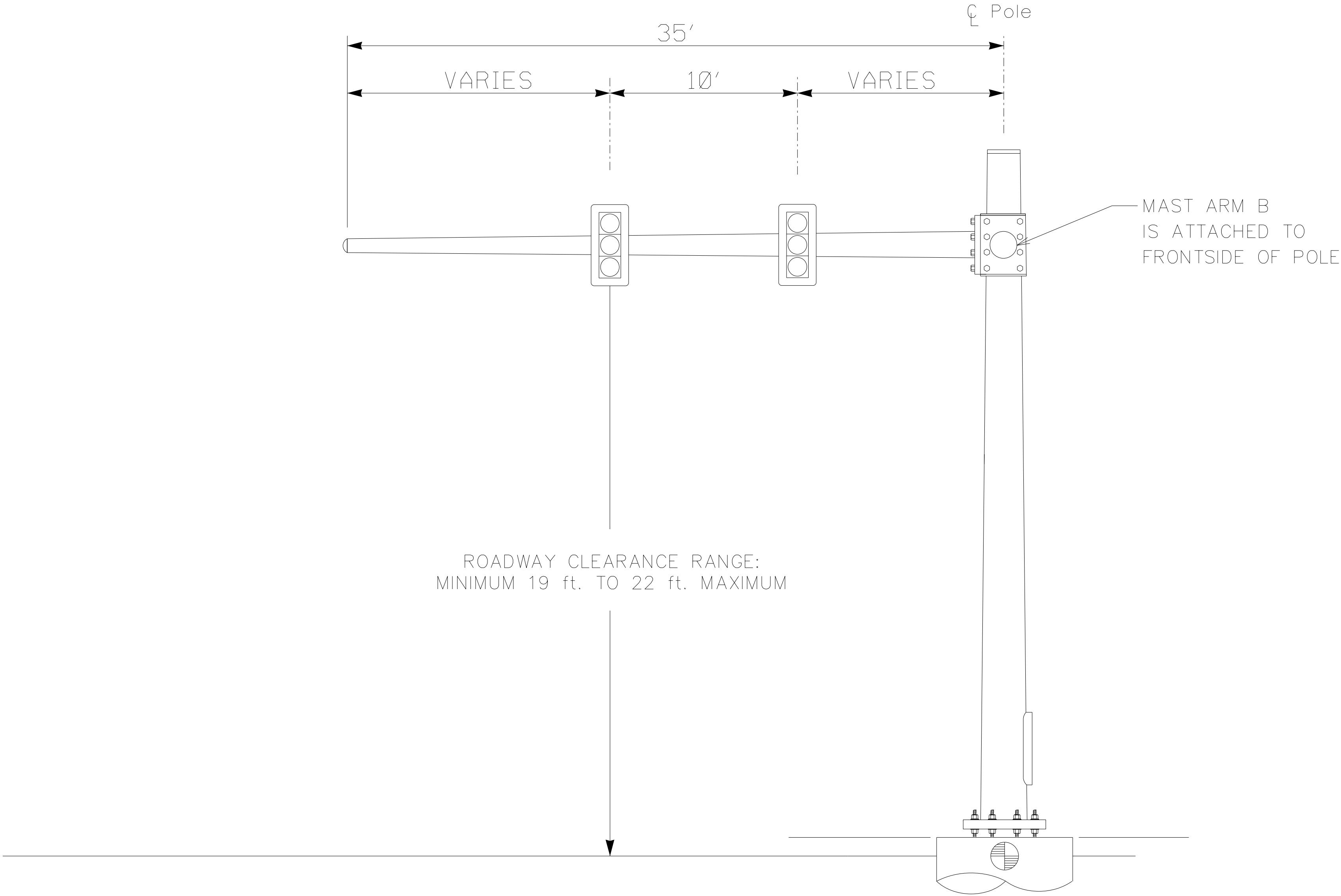
SCALE  
1"= 30 '

DATE  
02/17/2023

SHEET NO.  
TS01 OF TS03

INDEX NO.

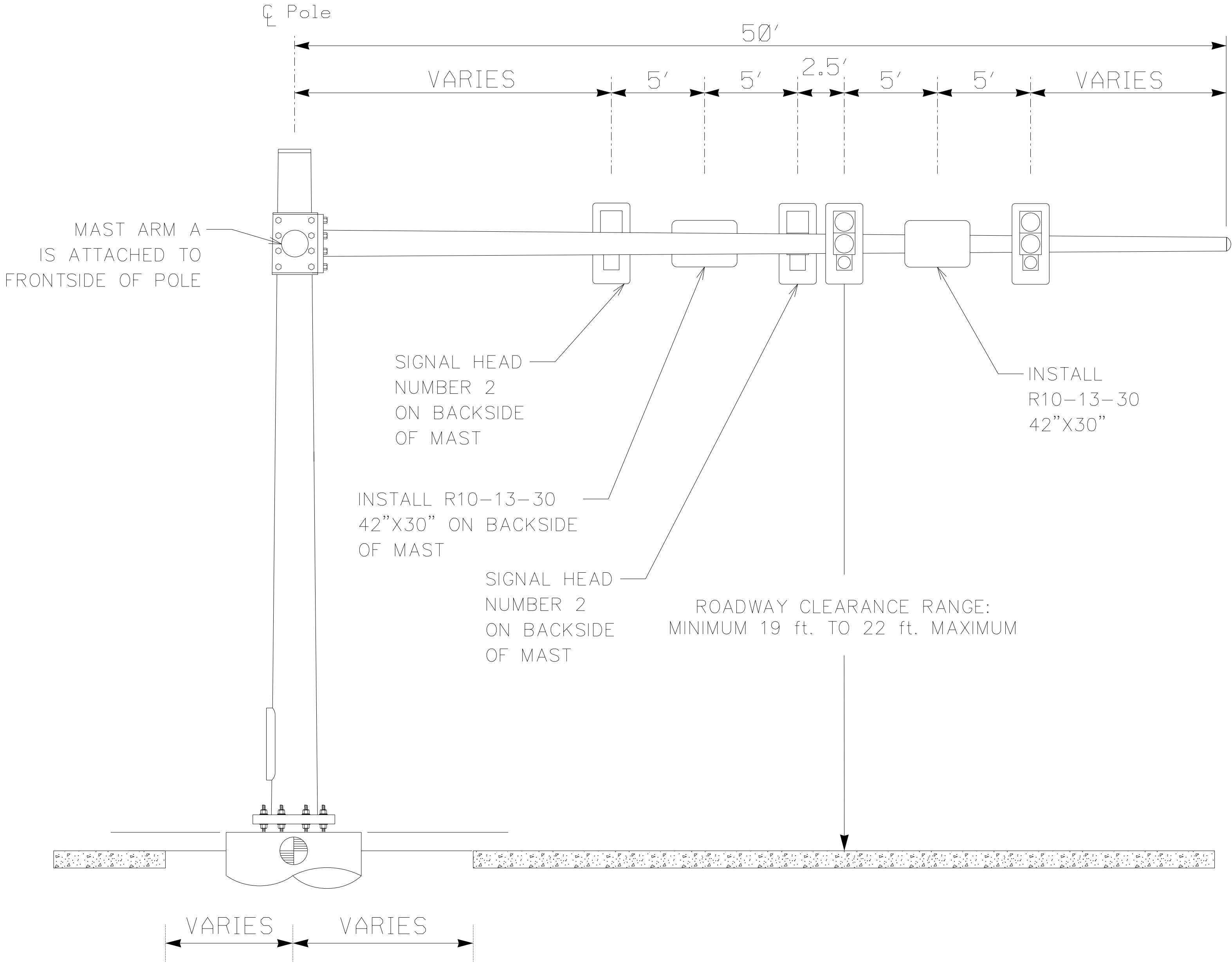
PROPOSED METAL POLE AND MAST ARM A (SB)  
NOT TO SCALE



Elevation View

DATE		REVISIONS		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION COLUMBIA, SC			
				SUBJECT TITLE MAST ARM DIAGRAM			
				SPECIFIC LOCATION S-263 (38TH AVENUE N) AT MYRTLE BEACH FIRE STATION DRIVEWAY			
				CITY MYRTLE BEACH	COUNTY HORRY		
DESIGNED		WDS		APPROVED BY			
DRAWN		WDS					
CHECKED		MRO		DISTRICT # 5 TRAFFIC ENGINEER		DISTRICT ENGINEERING ADMINISTRATOR	
REVIEWED		MRO		SCALE	DATE	SHEET NO.	INDEX NO.
RECOMMENDED				NTS	02/17/2023	TS02 OF TS03	

PROPOSED METAL POLE AND MAST ARM B (WB)  
NOT TO SCALE



Elevation View

DATE		REVISIONS		<div><div><div><div>SCDOT</div><div>SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION COLUMBIA, SC</div></div><div><div>SUBJECT TITLE MAST ARM DIAGRAM</div><div>SPECIFIC LOCATION S-263 (38TH AVENUE N) AT MYRTLE BEACH FIRE STATION DRIVEWAY</div><div><div>CITY MYRTLE BEACH</div><div>COUNTY HORRY</div></div></div></div></div>			
DESIGNED		WDS		APPROVED BY			
DRAWN		WDS					
CHECKED		MRO		DISTRICT # 5 TRAFFIC ENGINEER		DISTRICT ENGINEERING ADMINISTRATOR	
REVIEWED		MRO		SCALE	DATE	SHEET NO.	INDEX NO.
RECOMMENDED				NTS	02/17/2023	TS03 OF TS03	

FIRE STATION  
DRIVEWAY

70'

S-263 (38TH AVENUE N)  
35 MPH

70'

105'

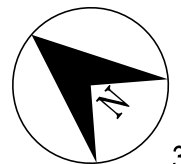
S-263 (38TH AVENUE N)  
35 MPH



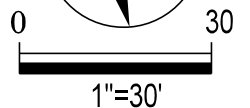
South Carolina Department of Transportation  
Post Office Box 191  
Columbia, South Carolina 29202

Clearance Distances For:

S-263 (38TH AVENUE N) AT  
MYRTLE BEACH FIRE STATION DRIVEWAY



SCALE



FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	HORRY	26.999				

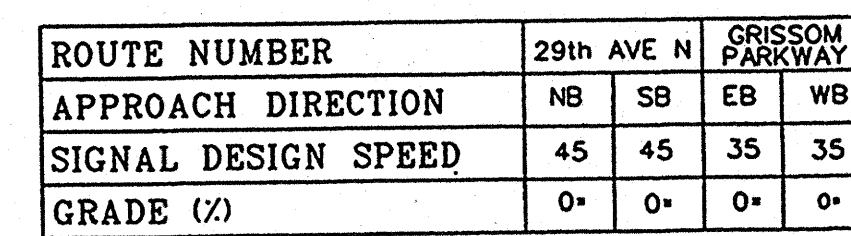
### NEMA PHASING

NOTE: ACTUATED PHASES HAVING NO CALL SHALL BE SKIPPED.

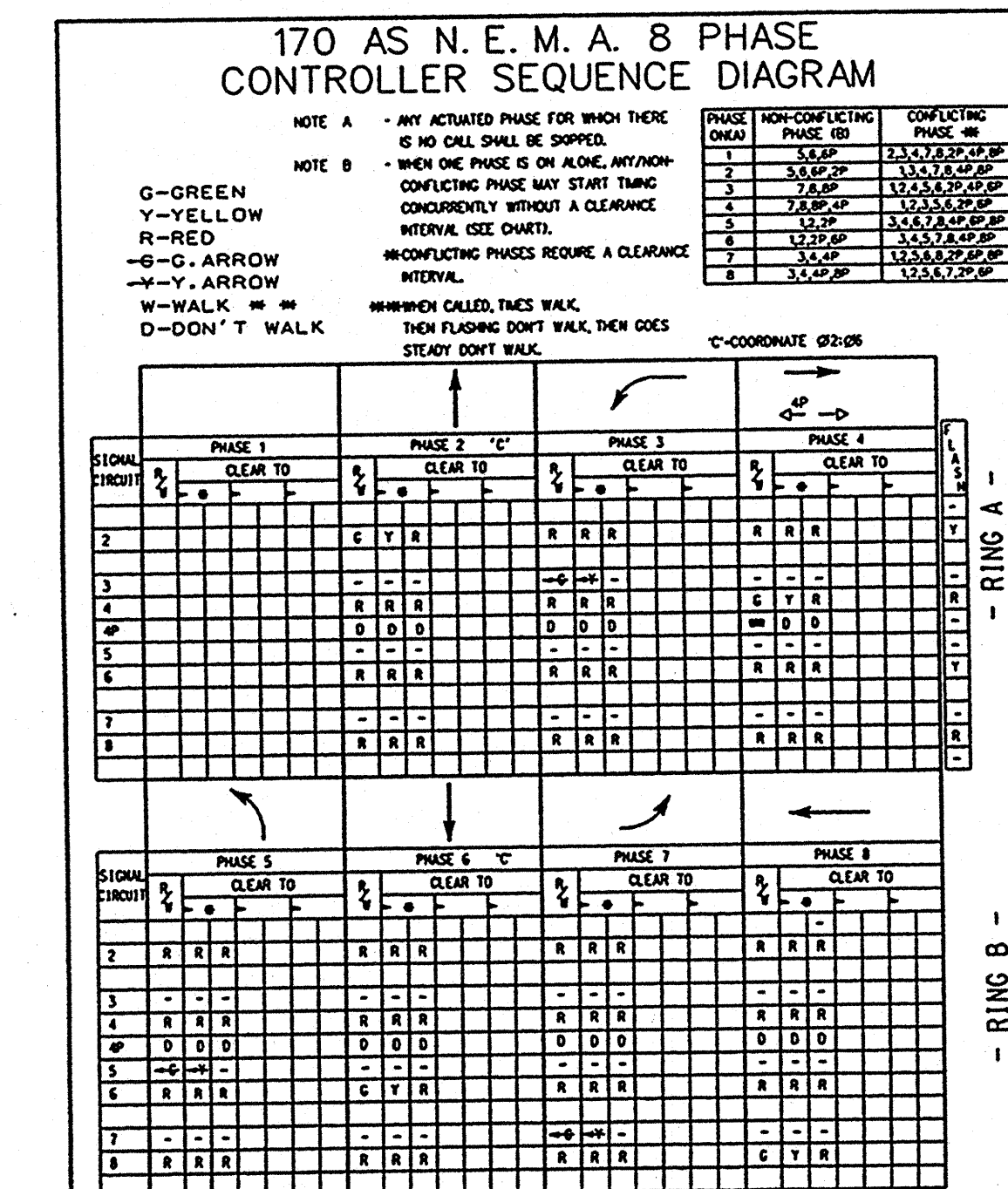
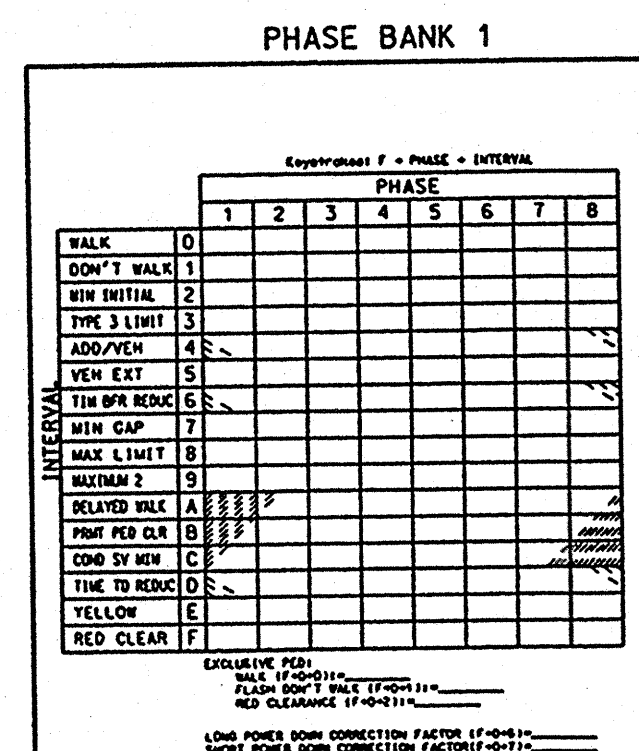
\* ——— STREET COORDINATED

FLASHING OPERATION

CRMEAST - MBAO



• ASSUMED NEGLIGIBLE



1363

SLT

**SCDOT**  
South Carolina Department of Transportation

Post Office Box 191  
Columbia, South Carolina 29202

This intersection border drawing including the information blocks contained within is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this sheet without written authorization from the SCDOT Traffic Engineering office is prohibited.

DATE 12/02		REVISIONS ADDED SET BACK LOOPS TO GRISSOM PARKWAY  <i>AKC</i>		SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION ENGINEERING DIVISION COLUMBIA S.C.			
		SUBJECT TITLE  TRAFFIC SIGNAL					
		SPECIFIC LOCATION  GRISSOM RD 38 <sup>TH</sup>					
		CITY		COUNTY <i>HORRY</i>			
DESIGNED DRAWN <i>ISB</i>		APPROVED BY		APPROVED BY			
CHECKED		_____ DIV. OF TRAFFIC ENGINEERING		_____ ENGINEER			
REVIEWED		SCALE <i>1" = 40'</i>		DATE <i>10/2/2000</i>		SHEET NO.	
RECOMMENDED				OF		<i>12602-21</i>	



# Clearance Time Calculations

Rev 2022-11-14

City:	Myrtle Beach				District:				
County:	Horry				Sig. ID #				
NB Street:					Project #:				
SB Street:	Fire Station Driveway				Computed by:	WDS			
EB Street:	38th Avenue N				Checked by:	MRO			
WB Street:	38th Avenue N				Approved by:				

Movement	Street Name			Fire Station Driveway	38th Avenue N		38th Avenue N		
	Orientation	Northbound		Southbound	Eastbound		Westbound		
	Turn movement	Left	Thru	Left	Thru	Left	Thru	Left	Thru

NEMA Phase #	Protected			4		2		6
	Permissive							
FYA				N		N		N

Speed	mph	20		20	25	20	35	20	35
	ft/sec	29.33		29.33	36.67	29.33	51.33	29.33	51.33

Grade	%	0		0		1%		-1%
	Elevation at Stopbar, ft			22.0		22.0		23.0
	Elevation at Setback, ft			22.0		21.0		24.0
	Dist to Setback, ft			100.0		100.0		100.0
	-OR- Enter Grade, %							

Clear Distance	feet			70		105		70
----------------	------	--	--	----	--	-----	--	----

Ped Cross Dist	feet							
----------------	------	--	--	--	--	--	--	--

Parameters	Percept-React Time, sec	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Decel Rate, ft/sec <sup>2</sup>	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	Walk Speed, fps	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Recommended:	Phase #			4		2		6
Yellow	sec			3.0		3.5		3.7
All Red	sec			3.1		2.5		1.8
Flashing Don't Walk	sec							

## NOTES:

- Compute times only as needed for plan.
- Yellow change interval should be between 3 and 6 seconds.
- Red clearance intervals less than 1.5 and more than 4.0 seconds require special circumstances.
- Grades are rounded to the conservative whole percent.
- Yellow and All Red times are rounded up to the next tenth of a second.
- Ped clearance time is rounded up to the next whole second.





PREEMPTION CLEAR DISTANCE FOR:  
S-263 (38TH AVENUE N) AT  
MYRTLE BEACH FIRE STATION DRIVEWAY

