50 38 Nuztec/1275 Trans Link

1258

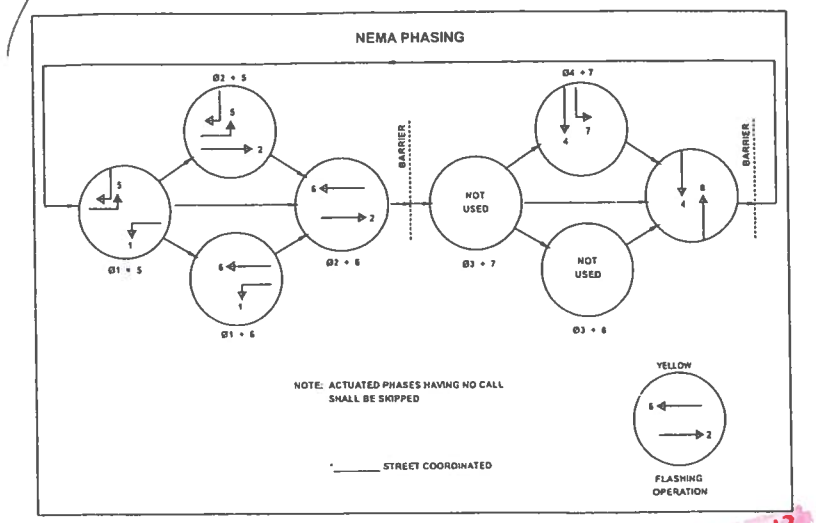
INSTALLATION NOTES:

1. INSTALL SIGNAL HEADS, LOOPS, LOOP LEAD-INS, CABINET AND CONTROLLER, CONDUIT, SIGNAL SPAN CABLE AND WIRES AS SHOWN.
2. REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH NEW MARKINGS.
3. INSTALL 24" STOP BAR AND PAVEMENT ARROWS AS SHOWN.
4. INSTALL 4" WHITE AND 4" YELLOW LANE LINE PAVEMENT MARKING AS SHOWN.

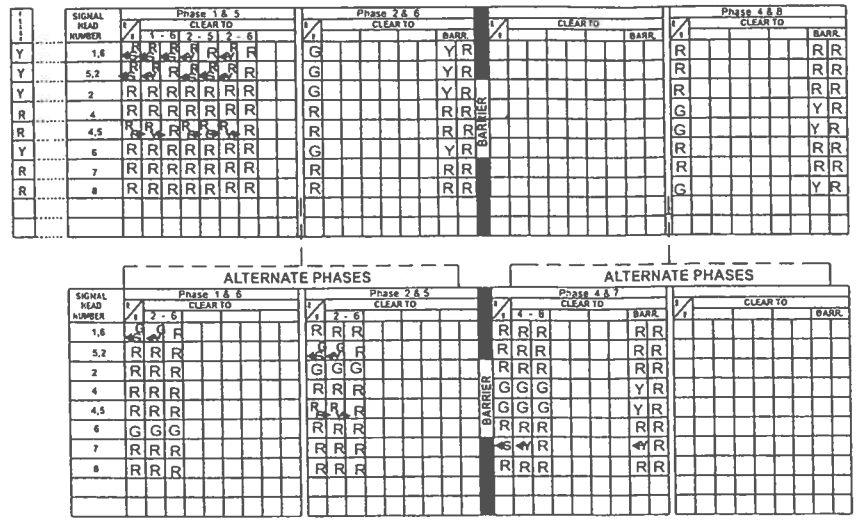
PROJECT NOTES:

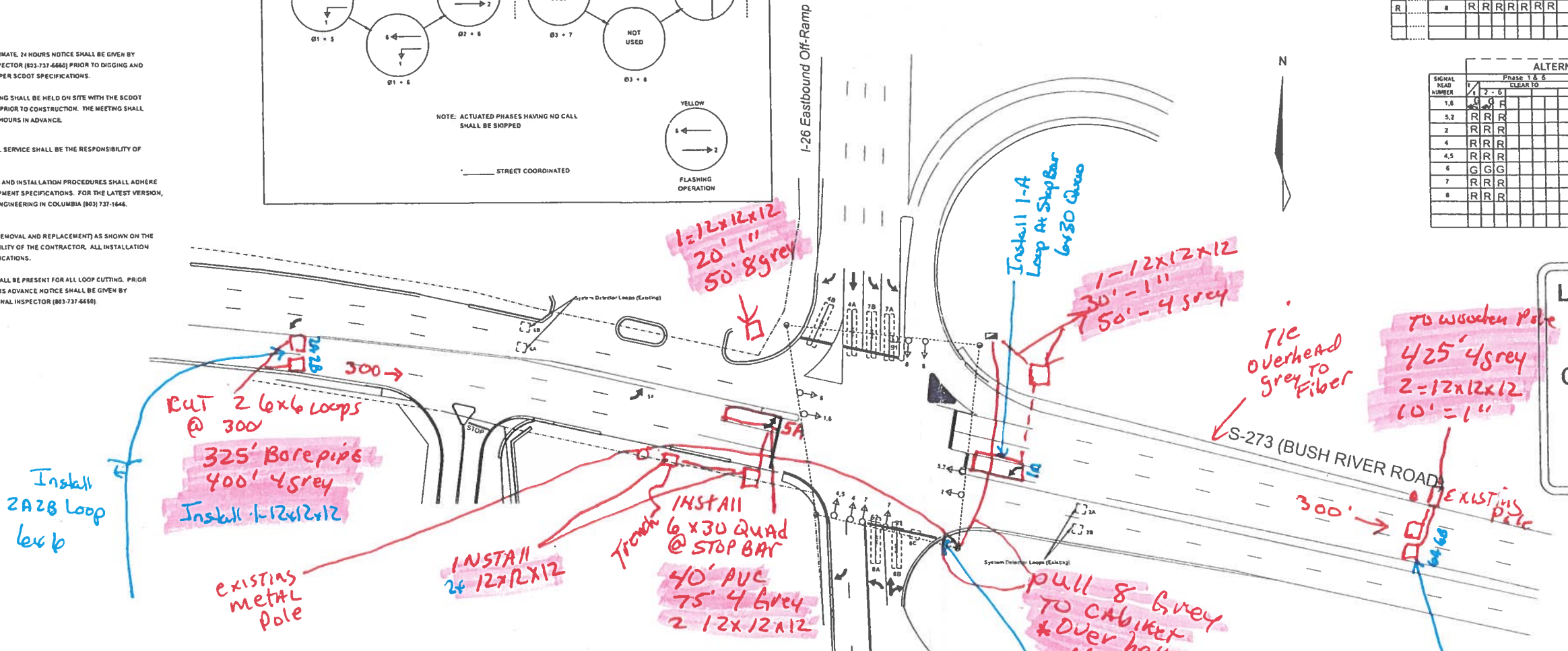
1. POLE LOCATIONS ARE APPROXIMATE. 24 HOURS NOTICE SHALL BE GIVEN BY CONTRACTOR TO SCDOT INSPECTOR (803-737-6660) PRIOR TO DIGGING AND SETTING POLES. ALL POLES PER SCDOT SPECIFICATIONS.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD ON SITE WITH THE SCDOT DISTRICT SIGNAL SUPERVISOR PRIOR TO CONSTRUCTION. THE MEETING SHALL BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE.
3. TRAFFIC SIGNAL ELECTRICAL SERVICE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL EQUIPMENT, MATERIALS AND INSTALLATION PROCEDURES SHALL ADHERE TO THE SCDOT SIGNAL EQUIPMENT SPECIFICATIONS. FOR THE LATEST VERSION, CONTACT SCDOT TRAFFIC ENGINEERING IN COLUMBIA (803) 737-1646.
5. ALL PAVEMENT MARKINGS (REMOVAL AND REPLACEMENT) AS SHOWN ON THE PLANS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL INSTALLATION MUST BE PER SCDOT SPECIFICATIONS.
6. SCDOT SIGNAL INSPECTOR SHALL BE PRESENT FOR ALL LOOP CUTTING. PRIOR TO CUTTING LOOPS, 24 HOURS ADVANCE NOTICE SHALL BE GIVEN BY CONTRACTOR TO SCDOT SIGNAL INSPECTOR (803-737-6660).

NEMA PHASING



SIGNAL DISPLAY SEQUENCE (PREFERENTIAL PHASING)





- LOOP DETECTOR INSTALLATION CHART -

PHASE & LOOP LET #	RACK SLOT CHAN NO.	NO.	WIRED TO PHASE	X PAVE	X FREE	QM DET NO	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES (*not for Gen + YOU patt/speed adj.)	LOOP DESIGN SIZE	NO. OF TURNS	SAW CROSS S
11	11	U				14				6		
		L										
1A	19	U	1		X	19				6x30	QUAD	50
1B	12	U				1						
3A	13	L				5						
2B	13	U				21						
2C	13	L				29						
2D	14	U				9						
		L										
3	15	U				18						
		L										
3	19	L				26						
6A	16	U	4		X	3				6x30	QUAD	+5
6B	18	L	4		X	7				6x30	QUAD	+5
4	17	U				23						
4	17	L				31						
4	18	U				11			6.7			
		L										
5A	21	U	5		X					6x30	QUAD	50
		L										
5	23	U				17						
6A	22	L				2						
6B	22	L				6						
6C	13	U				32						
6D	23	L				30						
6E	24	U				10						
		L										
7A	25	U	7		X	15				6x36	QUAD	+5
		L										
7B	26	L	7		X	18				6x36	QUAD	+5
8A	26	U	8		X	4				6x36	QUAD	+5
8B	28	L	8		X	8				6x36	QUAD	+5
8	27	U				24						
8	27	L				22						
8	26	U				12			6.7			

N.E.M.A. 8 PHASE CONTROLLER SEQUENCE DIAGRAM

NOTE A: ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

NOTE B: WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART).

* CONFLICTING PHASES REQUIRE A CLEARANCE INTERVAL

** WHEN CALLED, TIMES WALK, THEN FLASHING DON'T WALK, THEN GOES STEADY DON'T WALK.

G- GREEN
Y- YELOW
R- RED
-G- GREEN ARROW
-Y- Y. ARROW
WALK **
D- DON'T WALK
W/FDW- WALK/ FLASHING DON'T WALK

PHASE ON (A)	NON - CONFLICTING PHASE (B)	CONFLICTING PHASE *
1	5,6,8P	2,3,4,7,8,2P,4P,6P
2	5,6,8P,2P	1,3,4,7,8,4P,8P
3	7,8,8P	1,2,4,5,6,2P,4P,6P
4	7,8,8P,4P	1,2,3,5,6,2P,6P
5	1,2,2P	3,4,6,7,8,4P,6P,8P
6	1,2,2P,8P	3,4,5,7,8,4P,8P
7	3,4,4P	1,2,5,6,8,2P,6P,8P
8	3,4,4P,8P	1,2,5,6,7,2P,6P

PHASE BANK 1

	PHASE 1	2	3	4	5	6	7	8
WALK	0							
DON'T WALK	1							
MIN	2	8	15		5	6	15	6	6
TYPE 3 LIMIT	3							
ADD/VEH	4							
VEH EXT	5	3.0			3.0	3.0		3.0	3.0
TIM B/R REDUC	6							
MIN CAP	7	3.0			3.0	3.0		3.0	3.0
MAX LIMIT	8	15	30		34	24	30	20	34
MAXIMUM II	9							
DELAYED WALK	A							
PRMT PED CLR	B							
COND SV MIN	C							
TIME REDUC	D							
YELLOW	E	4.0	4.3		4.0	4.0	4.3	4.0	4.0
RED CLEAR	F	2.0	2.0		2.5	2.0	2.0	2.0	2.5

	A	B	C	D
RR1 DLY				
RR1 CLR				
EVA DLY				
EVA CLR				
EVB DLY				
EVB CLR				
EVC DLY				
EVC CLR				
EVD DLY				
EVD CLR				
RR2 DLY				
RR2 CLR				
EV CLR				
EV DLY				
RR CLR				
RR DLY				

EXCLUSIVE PED:
WALK (F=0+5)=_____
FLASH DON'T WALK (F=8+1)=_____
RED CLEARANCE (F=0+2)=_____
LONG POWER DOWN CORRECTION FACTOR (F=0+1):_____
SHORT POWER DOWN CORRECTION FACTOR (F=0+7):=_____

RED REVERT (F=0+F)=_____
ALL RED START (F=0+0)=_____
ADV WARN SIGN #1:
PHASE # (F=0+F)=_____
TIME BEFORE YELLOW (F=0+E)=_____
ADV WARN SIGN #2:
PHASE # (F=0+F)=_____
TIME BEFORE YELLOW (F=0+E)=_____

-SIGNAL EQUIPMENT-

SIGNAL NUMBER	1,6	7	4	4,5	5,2	6	7	8
LENS	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)
PHASE	1,6	7	4	4,5	5,2	6	7	8
SIZE	12"	12"	12"	12"	12"	12"	12"	12"
QUANTITY	1	1	1	1	1	1	2	2

ONE (1), 8 PHASE FULLY ACTUATED STANDARD 170 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT, AND BASE MOUNTED CABINET.

(6) VEHICLE DETECTOR UNITS

1000 FT. FIBER OPTIC CABLE FOR INTERCONNECT

OLA=_____ OLC=_____
OLB=_____ OLD=_____
WOOD POLES : EXT. (W)
STEEL POLES : EXT. (S)
PEDESTRIAN POLES : EXT. PROP. (P)

VEHICLE SIGNALS: EXT. PROP.

ROUTE NUMBER	Bush River Road		I-26 Ramp	
APPROACH DIRECTION	EB	WB	NB	SB
SIGNAL DESIGN SPEED	40	40	35	35
GRADE (ASSUMED)	-1%	1%	0%	0%

SOUTH CAROLINA No. 14571 FRANCIS SCOTT DAVENPORT III

TRAFFIC SIGNAL PLAN

S-273 (Bush River Road)

&

I-26 Eastbound Off-Ramp

Richland County South Carolina

APPROVED _____ DISTRICT TRAFFIC ENGINEER

APPROVED _____ DISTRICT ENGINEERING ADMINISTRATOR

DATE 01-16-07
SCALE 1" = 40'
DRAWN BY
CHECKED BY
PROJECT NO.