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PROJECT REFERENCE NO.	SHEET NO.
I-5710	ITS-13

INSET 1

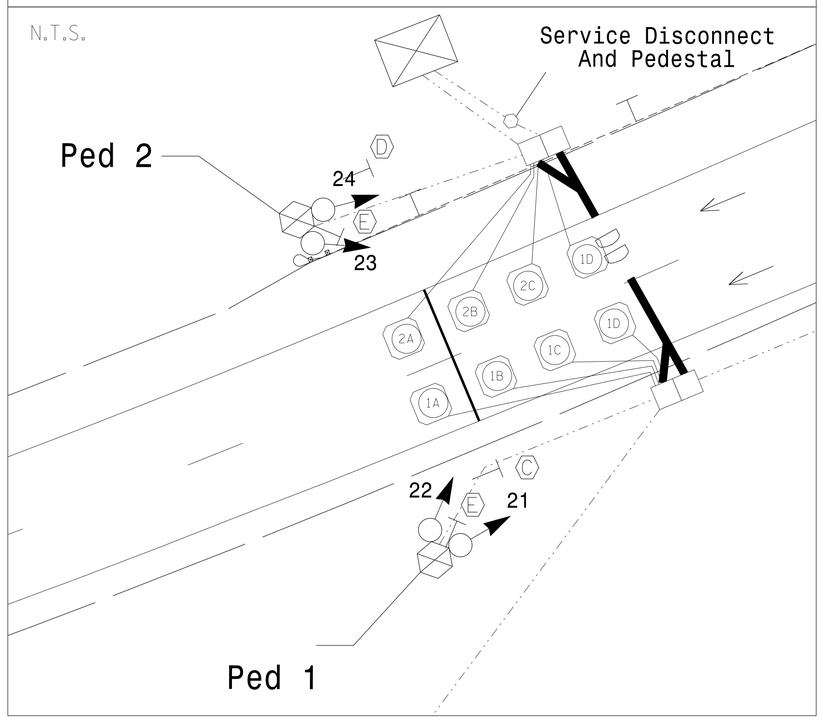


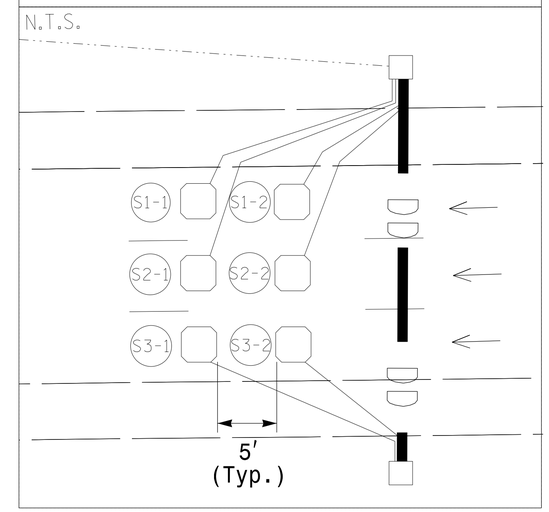
TABLE OF OPERATION

SIGNAL FACE	PHASE Ø1	PHASE Ø2	PHASE ALL RED	PHASE OFF
21,23	G	R	R	DRK
22,24	R	G	R	DRK
25,27	ON	ON	ON	OFF
26,28	ON	ON	ON	OFF

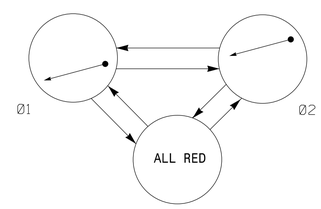
WARNING BEACON TABLE OF OPERATION

SIGNAL FACE	INTERVAL 1	INTERVAL 2
25,27	ON	OFF
26,28	OFF	ON

INSET 2



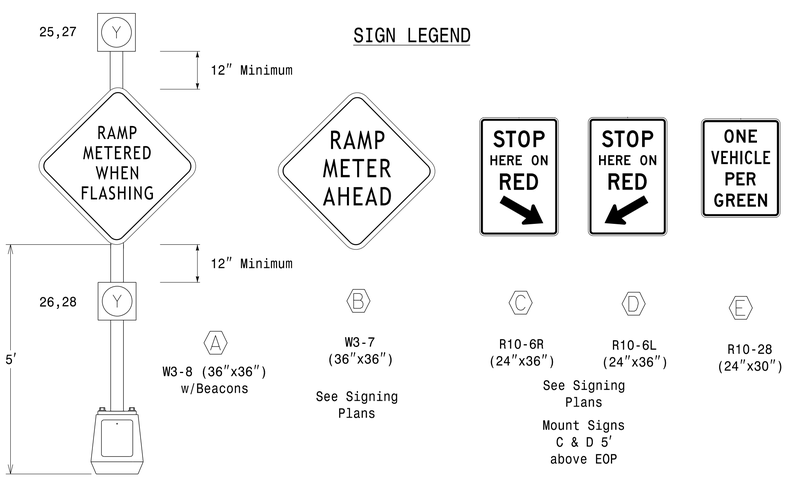
PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

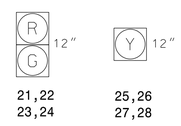
- DETECTED MOVEMENT
- UNSIGNALIZED MOVEMENT

SIGN LEGEND



SIGNAL FACE I.D.

All Heads L.E.D.



RAMP METER LOOP & DETECTOR INSTALLATION CHART

INDUCTIVE LOOPS: LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	DETECTOR PROGRAMMING: LANE/ USE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6x6	+9	3	Y	1	Y	Y	-	-	-	-	Y
1B	6x6	3	3	Y	1	Y	-	-	-	-	-	Y
1C	6x6	14	3	Y	1	Y	-	-	-	-	-	Y
1D	6x6	25	3	Y	1	Y	-	-	-	-	-	Y
2A	6x6	+9	3	Y	2	Y	Y	-	-	-	-	Y
2B	6x6	3	3	Y	2	Y	-	-	-	-	-	Y
2C	6x6	14	3	Y	2	Y	-	-	-	-	-	Y
2D	6x6	25	3	Y	2	Y	-	-	-	-	-	Y
✱✱ Q1	6x6	445	5	Y	PRE	Y	-	Y	-	10	-	Y
✱✱ Q2	6x6	445	5	Y	PRE	Y	-	Y	-	10	-	Y
S1-1	6x6	✱	5	Y	SYS	Y	-	-	-	-	Y	Y
S1-2	6x6	✱	5	Y	SYS	Y	-	-	-	-	Y	Y
S2-1	6x6	✱	5	Y	SYS	Y	-	-	-	-	Y	Y
S2-2	6x6	✱	5	Y	SYS	Y	-	-	-	-	Y	Y
S3-1	6x6	✱	5	Y	SYS	Y	-	-	-	-	Y	Y
S3-2	6x6	✱	5	Y	SYS	Y	-	-	-	-	Y	Y

✱ Dimensioned on plan
✱✱ Overqueue detector

Notes:
1. Tie loops 1B, 1C, 1D in series
2. Tie loops 2B, 2C, 2D in series
3. Tie loops Q1, Q2 in series

New Installation Dual Lane Ramp Meter

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Intelligent Transportation Systems Section
750 N. Greenfield Pkwy., Garner, NC 27529

I-540 WB Entrance Ramp
at SR 1839 (Leesville Rd.)

Division 5 Wake County Raleigh

PLAN DATE:	June 2016	REVIEWED BY:	H A BADGETT
PREPARED BY:	J O ENSLEY	REVIEWED BY:	J T BROOKS

N.T.S.

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 019962 ENGINEER HENRY FRED BADGETT III

DocuSigned by:
Hfb Badgett
B5DF42EEF98C43F...
6/27/2016
DATE

CADD Filename: ITS-13 I5710_TMS.DSN13

ATKINS 5200 77 CENTER DR, SUITE 500
CHARLOTTE, NC 28217
704.665.4411 NCBEES #F-0326

27-JUN-2016 15:55
O:\Transportation\Roadway\NCDOT\I-540 Ramp Metering\Traffic\ITS\ITS-13 I5710_TMS.DSN13 leesville signals2.dgn
WILE2054 AT DUS300019

Signal In. No.: 05-1851