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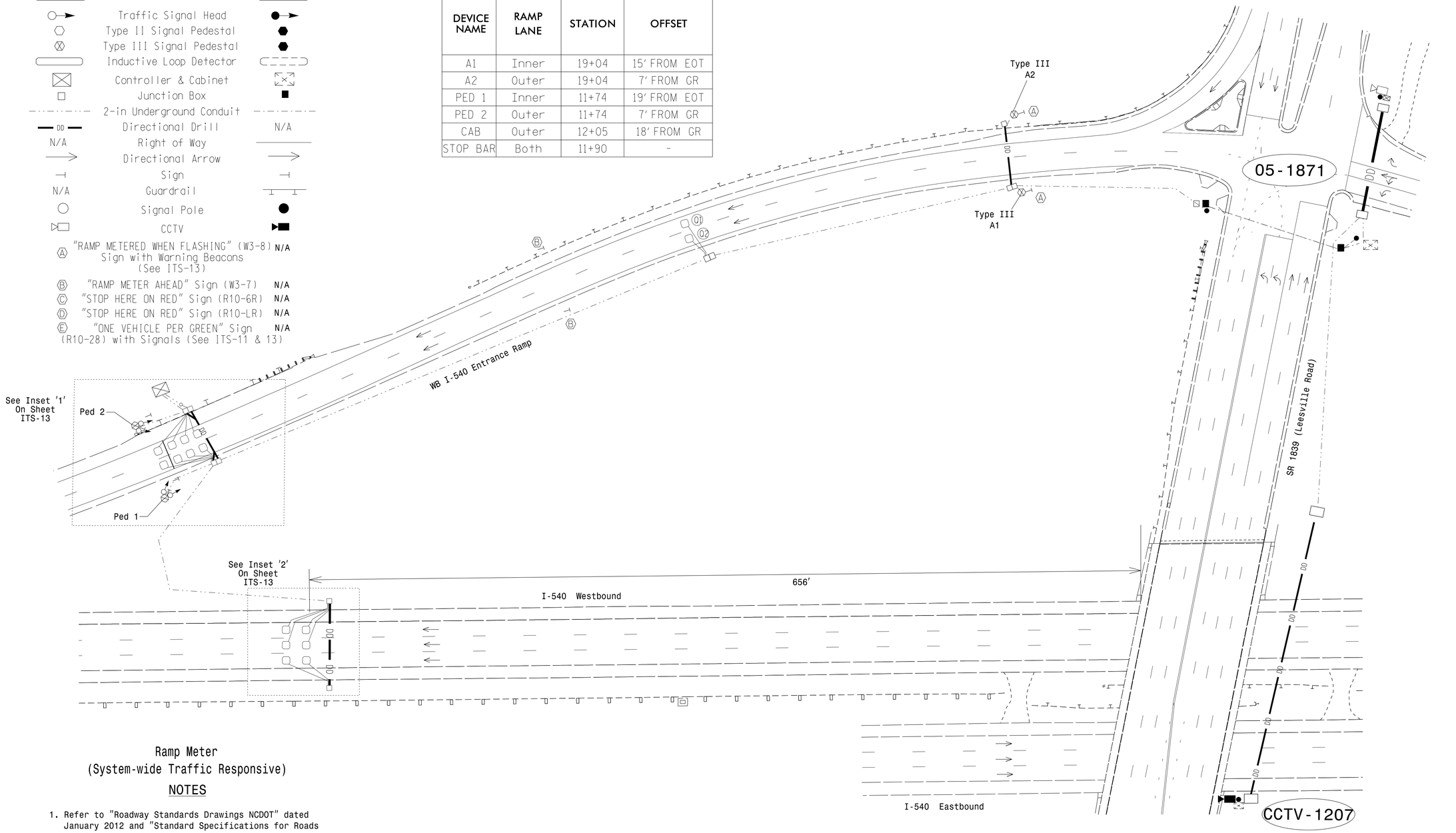
PROJECT REFERENCE NO.	SHEET NO.
I-5710	ITS-12

LEGEND

PROPOSED		EXISTING
○→	Traffic Signal Head	●→
⬡	Type II Signal Pedestal	⬢
⬡	Type III Signal Pedestal	⬢
▭	Inductive Loop Detector	▭
⊠	Controller & Cabinet	⊠
□	Junction Box	■
----------	2-in Underground Conduit	----------
— DD —	Directional Drill	N/A
N/A	Right of Way	———
→	Directional Arrow	→
⊣	Sign	⊣
N/A	Guardrail	⊥⊥⊥
○	Signal Pole	●
▷□	CCTV	▶■
Ⓐ	"RAMP METERED WHEN FLASHING" (W3-8) Sign with Warning Beacons (See ITS-13)	N/A
Ⓑ	"RAMP METER AHEAD" Sign (W3-7)	N/A
Ⓒ	"STOP HERE ON RED" Sign (R10-6R)	N/A
Ⓓ	"STOP HERE ON RED" Sign (R10-LR)	N/A
Ⓔ	"ONE VEHICLE PER GREEN" Sign (R10-28) with Signals (See ITS-11 & 13)	N/A

POLE AND CABINET STATIONS AND OFFSETS

DEVICE NAME	RAMP LANE	STATION	OFFSET
A1	Inner	19+04	15' FROM EOT
A2	Outer	19+04	7' FROM GR
PED 1	Inner	11+74	19' FROM EOT
PED 2	Outer	11+74	7' FROM GR
CAB	Outer	12+05	18' FROM GR
STOP BAR	Both	11+90	-



Ramp Meter
(System-wide Traffic Responsive)

NOTES

1. Refer to "Roadway Standards Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures dated January 2012.
2. Ramp Meter shall operate Traffic Responsive.
3. Each lane shall operate alternately, one car per one green.
4. Loops Q1 and Q2 serve as queue backup detection. After 10 seconds of constant actuation,the detector units shall put in a call to the controller to activate alternate metering rate.
5. The Division Traffic Engineer shall determine the hours of operation.
6. Pavement markings are proposed.
7. Set all detector units to presence mode.

New Installation Dual Lane Ramp Meter

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N. Greenfield Pkwy., Garner, NC 27529

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

I-540 WB Entrance Ramp Meter 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

REVISIONS	INIT.	DATE

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1"=40'

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL 019962
ENGINEER
HENRY ALFRED BADGETT

DocuSigned by:
6/27/2016
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Signal In. No.: 05-1852

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