

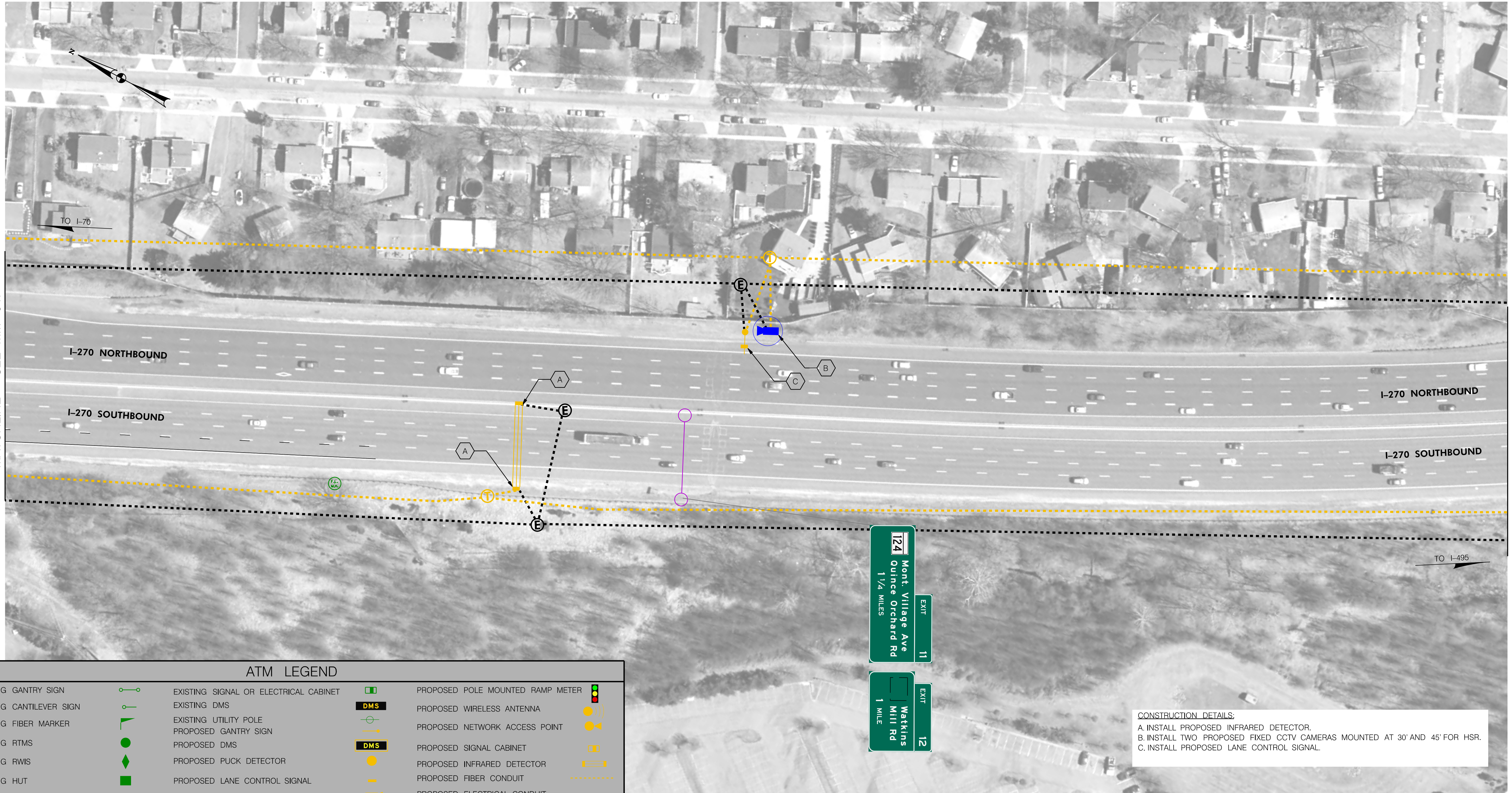
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



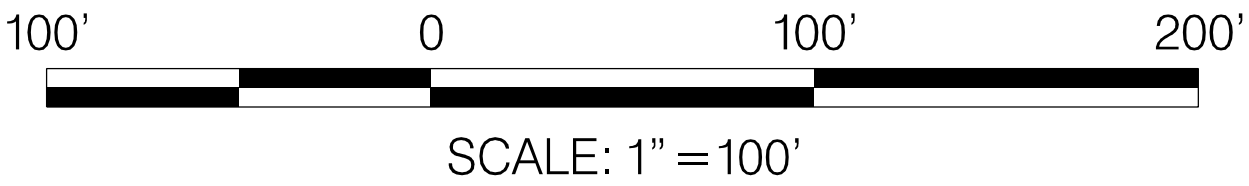
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 3
I-270 - SOUTH MIDDLEBROOK RD

DATE: JANUARY 19, 2017

MM 048 OF 108

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.

PLOTTED: Monday, January 16, 2017 AT 06:41 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P048_I270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

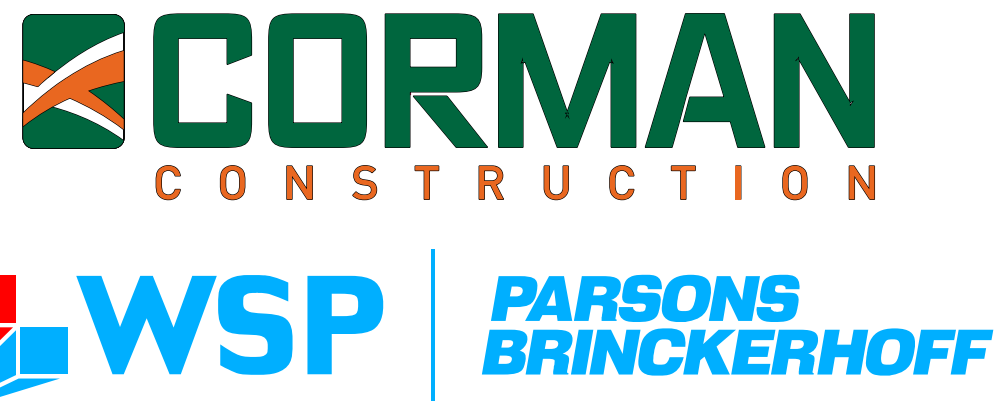
BORDER REV. DATE: March 27, 2007

BY: roachve -

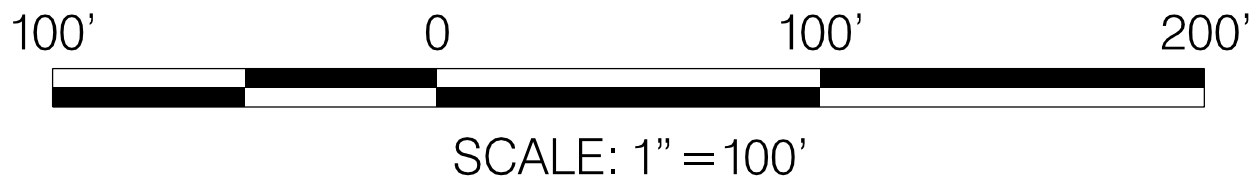


ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.



DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 3 I-270 - SOUTH MIDDLEBROOK RD	
DATE: JANUARY 19, 2017	MM 049 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:44 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdf-P049_IS270.dgn

DRILL HOLES

DRILL HOLES

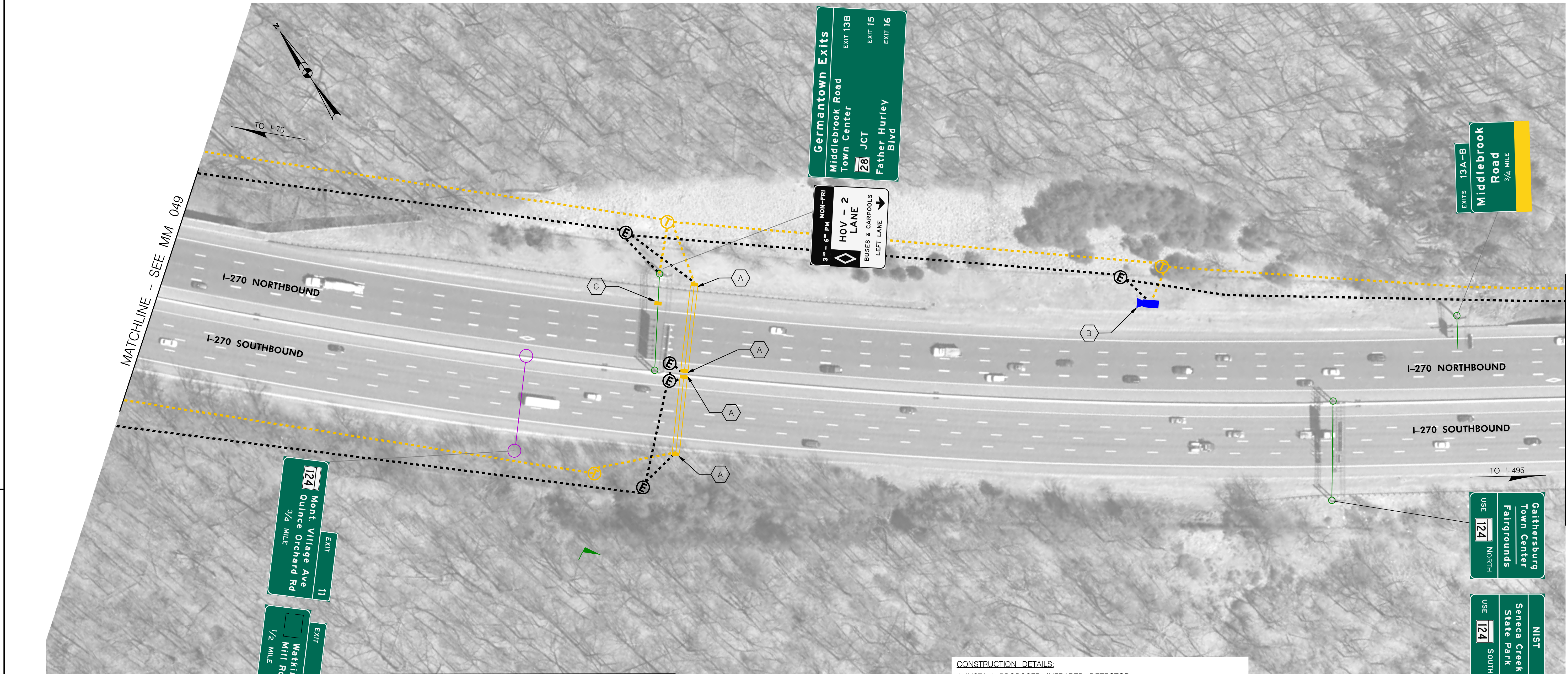
DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

MATCHLINE - SEE MM 049

MATCHLINE - SEE MM 051



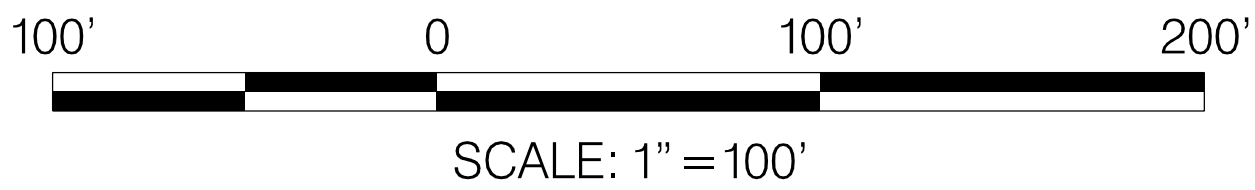
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL LANE USE CONTROL SIGNAL.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 3
I-270 - NORTH OF GAME PRESERVE RD

DATE: JANUARY 19, 2017

MM 050 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:46 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p050_I270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL LANE USE CONTROL SIGNAL.

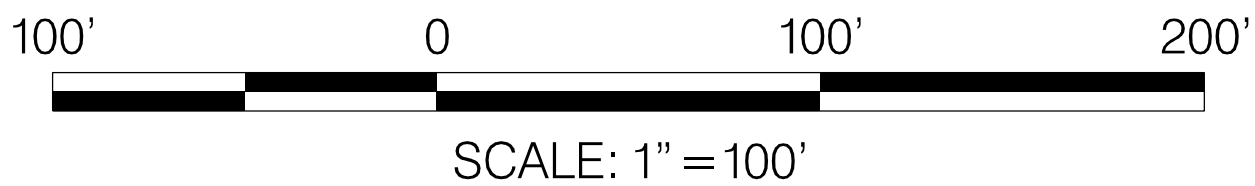
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO.CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CORMAN
CONSTRUCTION

WSP | PARSONS
BRINCKERHOFF

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 3
I-270 - GAME PRESERVE RD

DATE: JANUARY 19, 2017

MM 051 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:49 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P051_I270.dgn

DRILL HOLES

DRILL HOLES

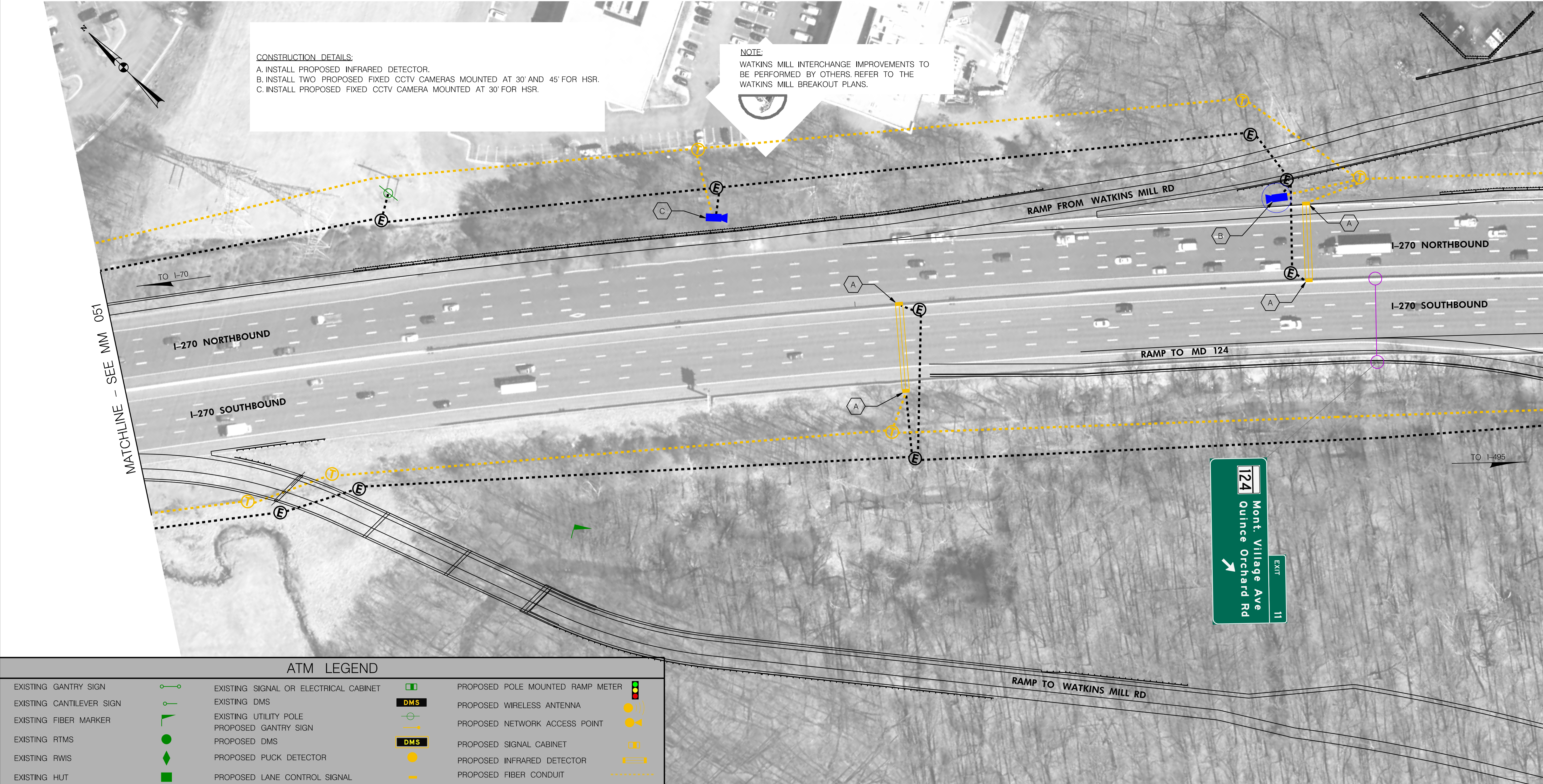
DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: shamsr -

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
C. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.

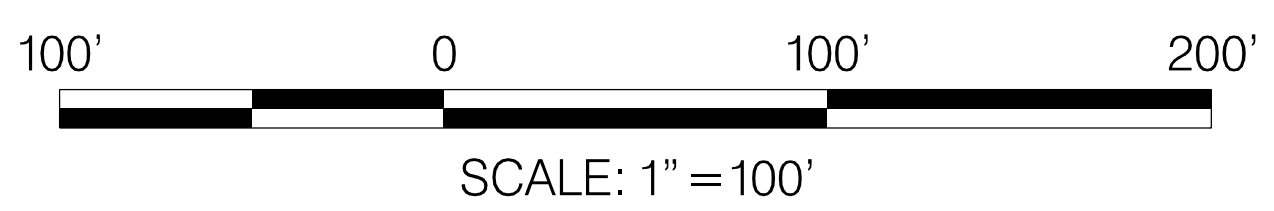
NOTE:
WATKINS MILL INTERCHANGE IMPROVEMENTS TO BE PERFORMED BY OTHERS. REFER TO THE WATKINS MILL BREAKOUT PLANS.



ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	




DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 3
I-270 - SOUTH OF GAME PRESERVE RD

DATE: JANUARY 19, 2017MM 052 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 10:49 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposal\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P052_IS270.dgn

MATCHLINE - SEE MM 053

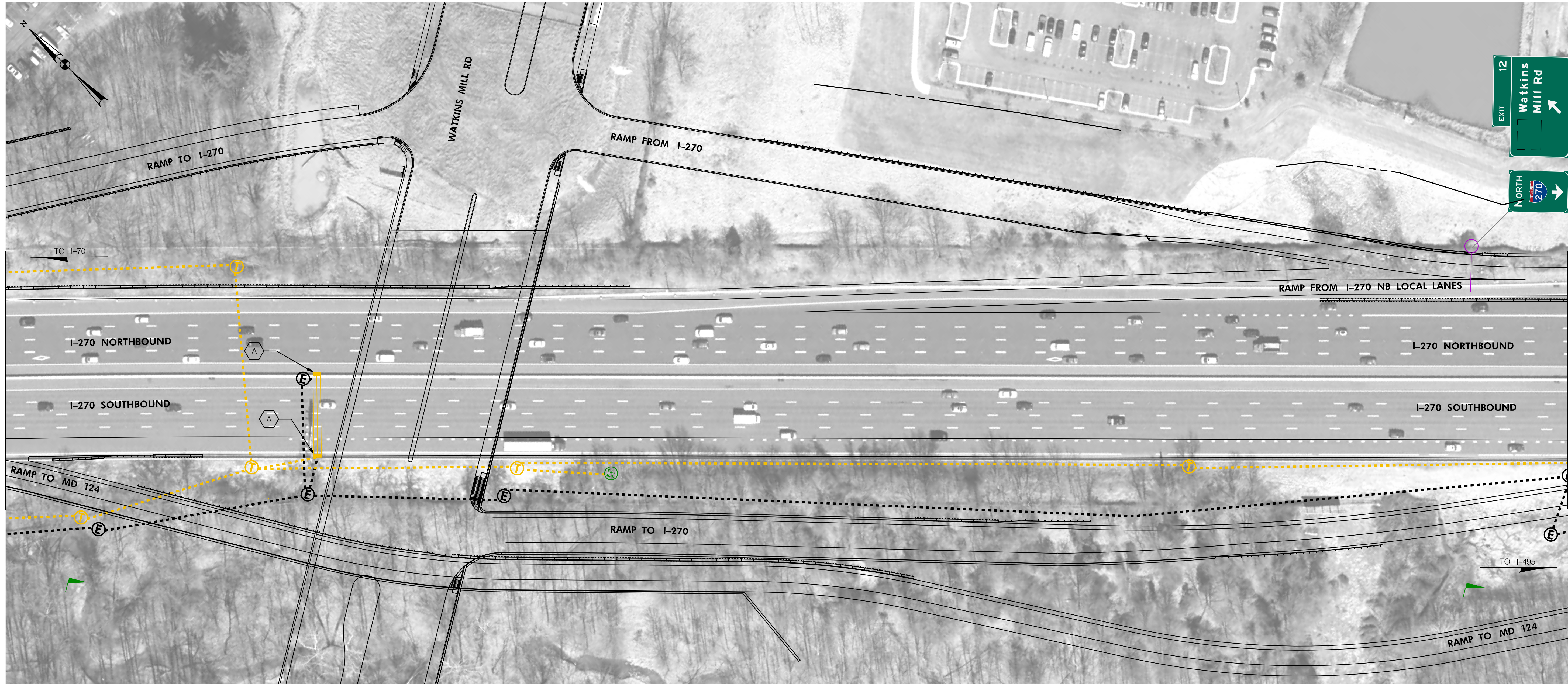
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: shamsr



ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING CCTV CAMERA		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
EXISTING MO.CO.CCTV CAMERA		PROPOSED 30' CAMERA FOR HSR			

CONSTRUCTION DETAILS:

A. INSTALL PROPOSED INFRARED DETECTOR.

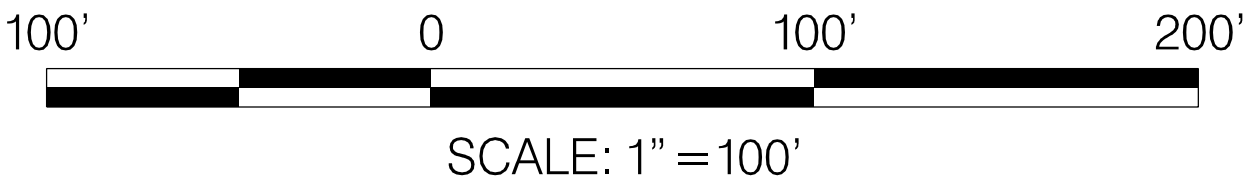
NOTE:

WATKINS MILL INTERCHANGE IMPROVEMENTS TO BE PERFORMED BY OTHERS. REFER TO THE WATKINS MILL BREAKOUT PLANS.

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 3
I-270 - WATKINS MILLS RD

DATE: JANUARY 19, 2017

MM 053 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 11:04 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p053_I270.dgn

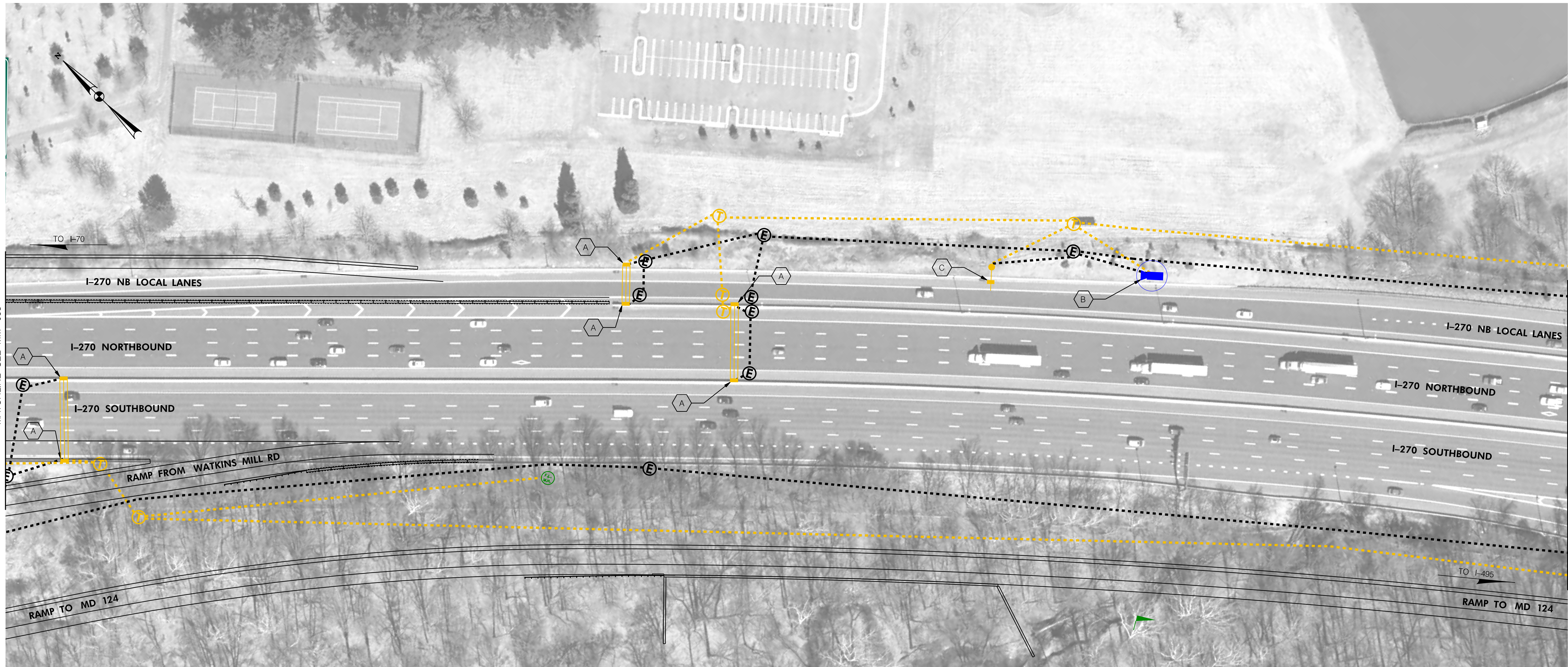
DRILL HOLES

BORDER REV. DATE: March 27, 2007

DRILL HOLES

DRILL HOLES

BY: shamsr -



ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CONSTRUCTION DETAILS:

- A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL PROPOSED LANE CONTROL SIGNALS.

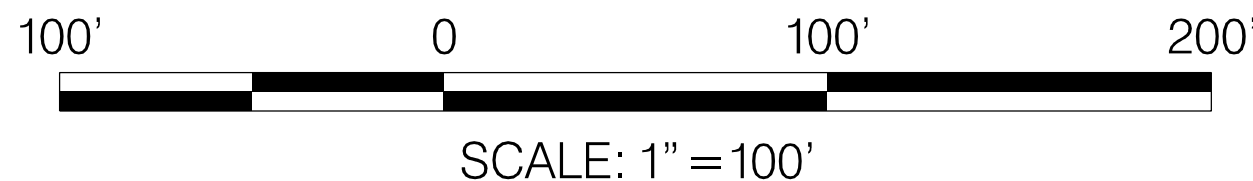
NOTE:

WATKINS MILL INTERCHANGE IMPROVEMENTS TO BE PERFORMED BY OTHERS. REFER TO THE WATKINS MILL BREAKOUT PLANS.

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 - NORTH OF MD 124

DATE: JANUARY 19, 2017

MM 054 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 11:18 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p054_I270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

- CONSTRUCTION DETAILS:
- A. INSTALL PROPOSED INFRARED DETECTOR.
 - B. INSTALL PROPOSED CCTV CAMERA.
 - C. INSTALL PROPOSED RAMP METERING CABINET.
 - D. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
 - E. INSTALL PROPOSED NETWORK ACCESS POINT.
 - F. INSTALL PROPOSED PUCK DETECTOR.
 - G. INSTALL PROPOSED CABINET FOR FIBER.
 - H. INSTALL PROPOSED WARNING SIGN AND FLASHER.
 - J. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.

MATCHLINE SEE MM 098

TO I-70

I-270 NB LOCAL LANES

I-270 NORTHBOUND

I-270 SOUTHBOUND

RAMP TO MD 124

RAMP FROM MD 124
I-270 NB LOCAL LANES

MD 124 (MONTGOMERY
VILLAGE AVE)

RAMP TO I-270

I-270 NORTHBOUND

I-270 SOUTHBOUND

TO I-495

MATCHLINE SEE MM 056

ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CORMAN
CONSTRUCTION

WSP | **PARSONS
BRINCKERHOFF**

DRAFT PLANS

100' 0 100' 200'
SCALE: 1" = 100'

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION
**I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS**

SEGMENT 4
I-270 - MD 124 (QUINCE ORCHARD RD)

DATE: JANUARY 19, 2017

MM 055 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 10:54 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p055_I270.dgn

DRILL HOLES

DRILL HOLES

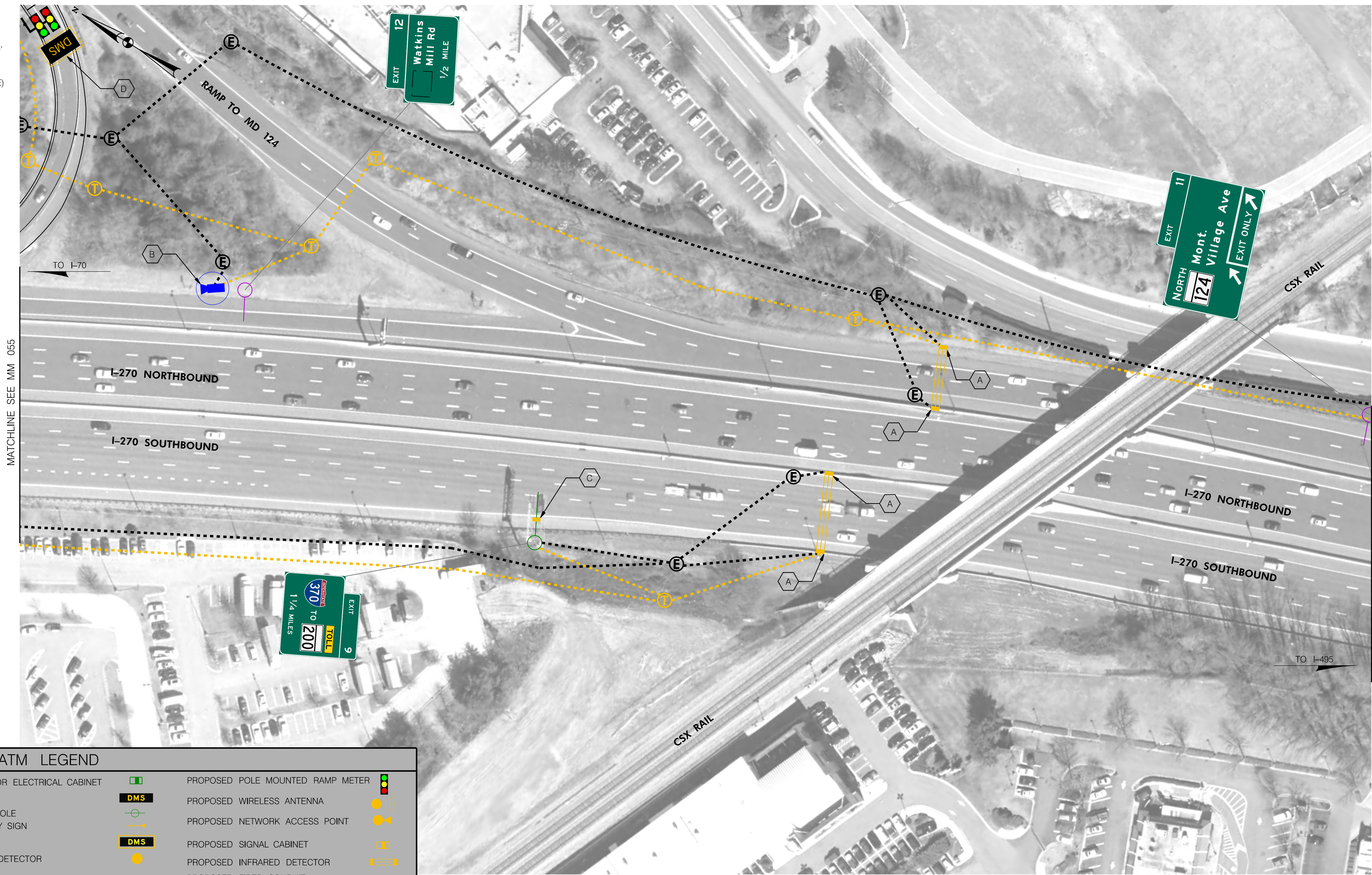
DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

CONSTRUCTION DETAILS:

- A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
C. INSTALL LANE USE CONTROL SIGNAL.
D. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.



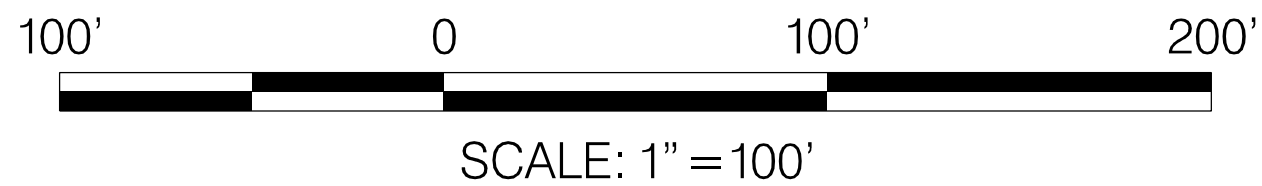
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED PUCK DETECTOR		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED LANE CONTROL SIGNAL		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED CCTV CAMERA		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED OVERHEAD RAMP METER		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED 30' AND 45' CAMERA FOR HSR		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 - SOUTH OF MD 124	
DATE: JANUARY 19, 2017	MM 056 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 11:08 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p056_IS270.dgn

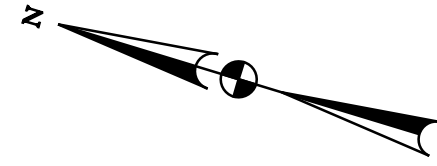
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



CONSTRUCTION DETAILS:

- A. INSTALL PROPOSED LANE CONTROL SIGNAL.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
D. INSTALL PROPOSED INFRARED DETECTOR.

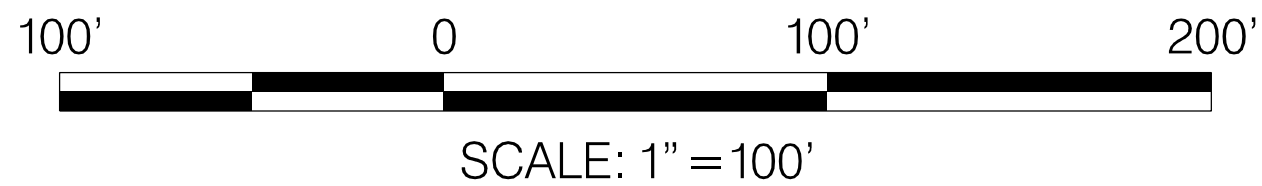
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



SCALE: 1" = 100'

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

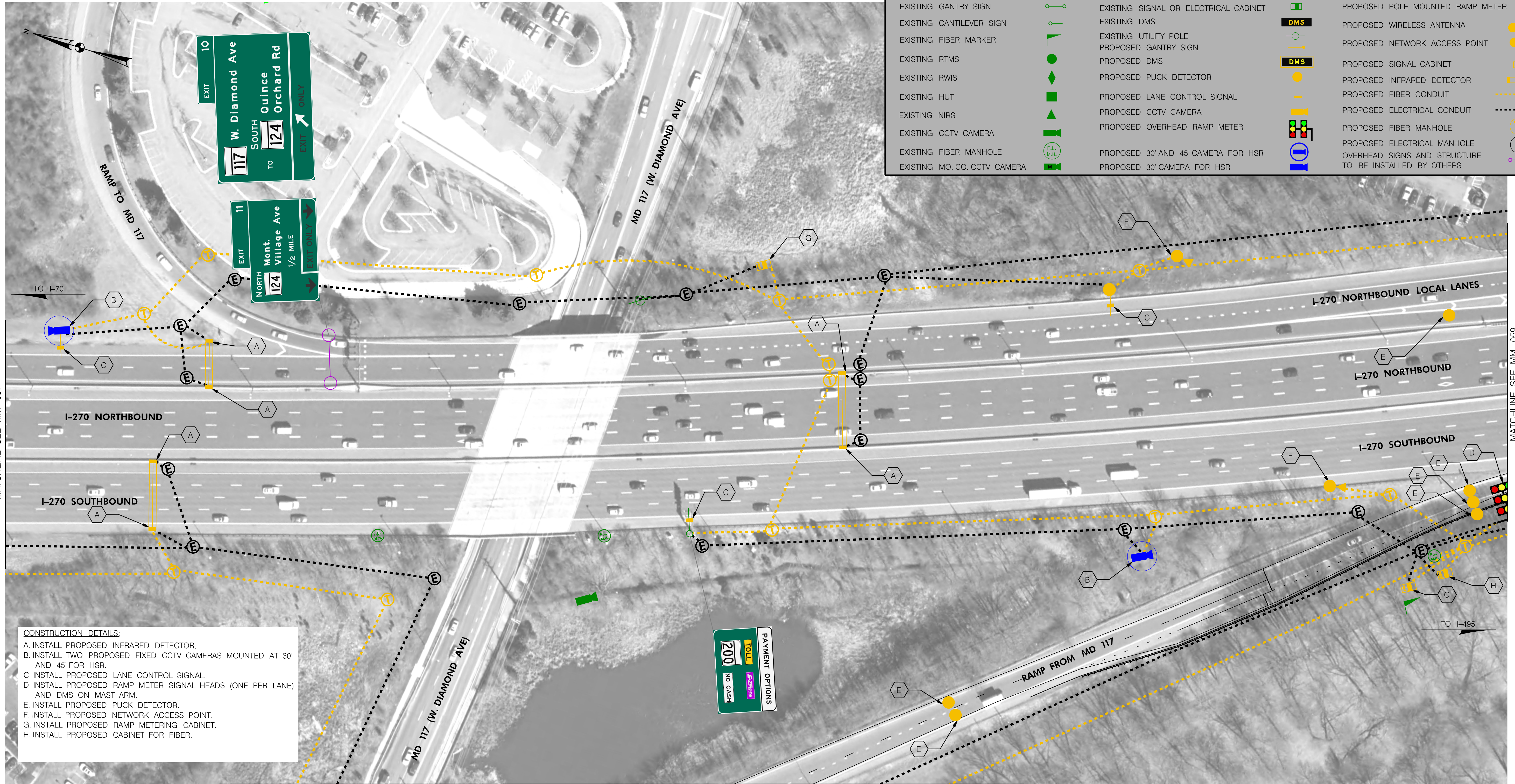
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 – NORTH OF MD 117 (W. DIAMOND AVE)	
DATE: JANUARY 19, 2017	MM 057 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:06 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p057_05270.dgn



BORDER REV. DATE: March 27, 2007

BY: roachve -



ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

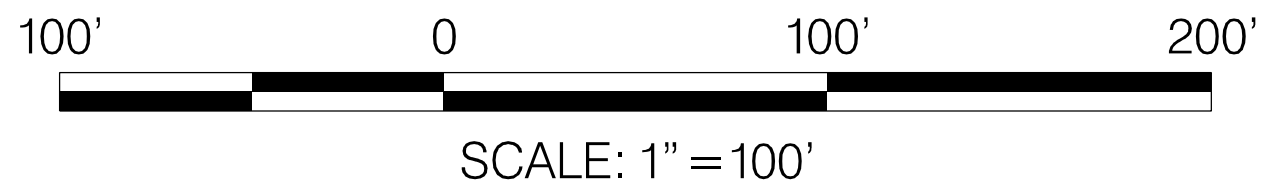
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.
D. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.
E. INSTALL PROPOSED PUCK DETECTOR.
F. INSTALL PROPOSED NETWORK ACCESS POINT.
G. INSTALL PROPOSED RAMP METERING CABINET.
H. INSTALL PROPOSED CABINET FOR FIBER.

MATCHLINE SEE MM 099

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

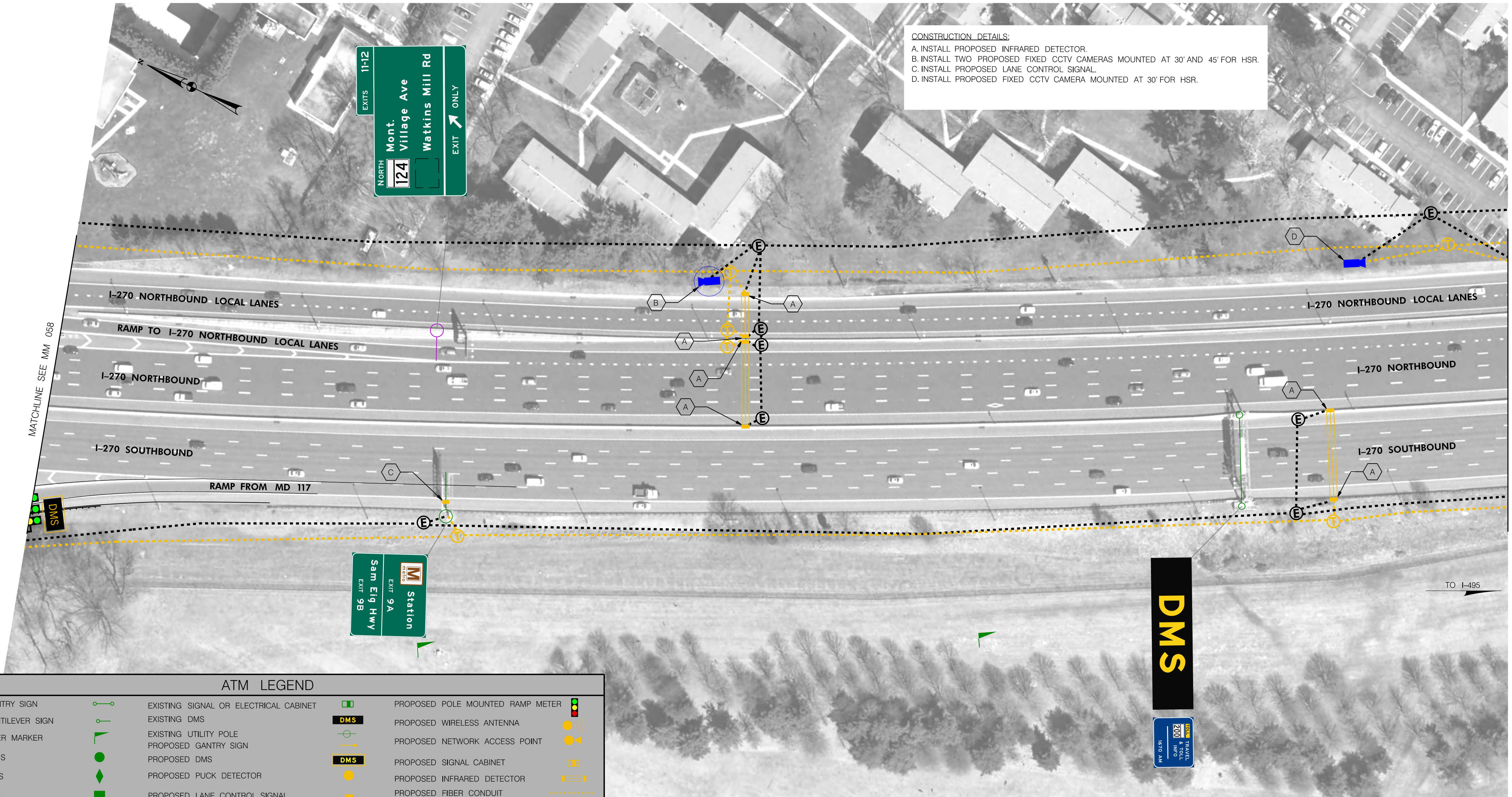
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 - MD 117 (W. DIAMOND AVE)	
DATE: JANUARY 19, 2017	MM 058 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 03:38 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P058_I270.dgn

DRILL HOLES

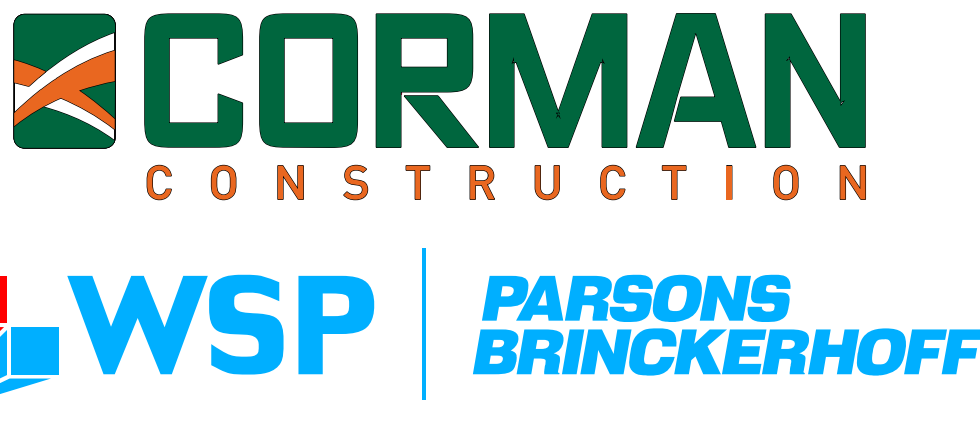
BORDER REV. DATE: March 27, 2007

BY: roachve -

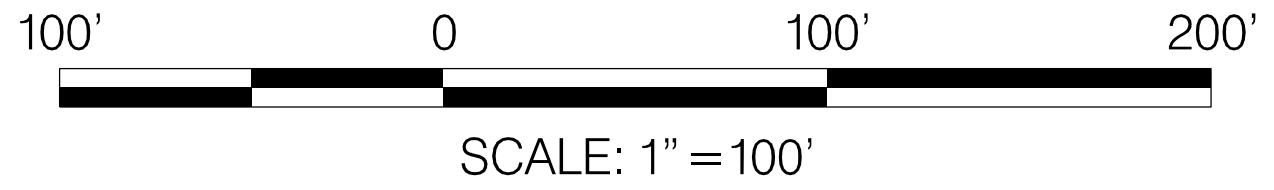


CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.
D. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	




DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 – SOUTH OF MD 117 (W. DIAMOND AVE)

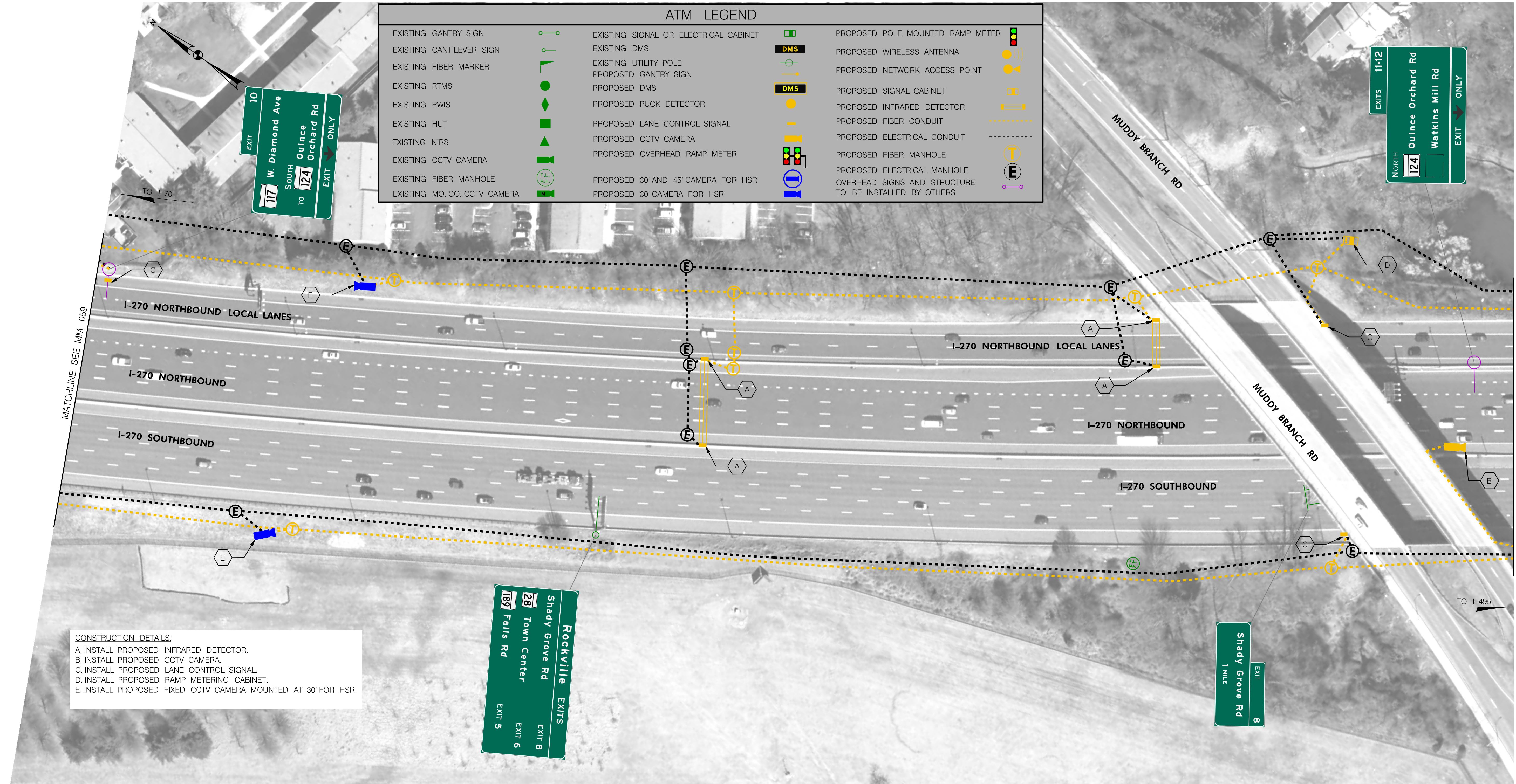
DATE: JANUARY 19, 2017MM 059 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 03:46 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposal\CADD\Roll Maps\ATM\50 Scale Plans\pdf-P059_IS270.dgn

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

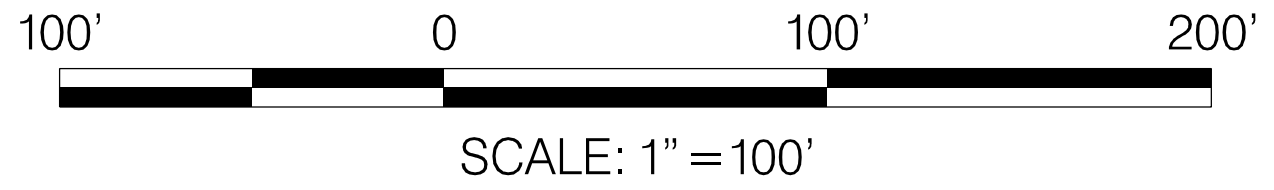


CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED CCTV CAMERA.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.
D. INSTALL PROPOSED RAMP METERING CABINET.
E. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.

ATM LEGEND					
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	




DRAFT PLANS



DATUM: NAD 8391 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 – MUDDY BRANCH RD

DATE: JANUARY 19, 2017MM 060 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:15 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P060_IS270.dgn

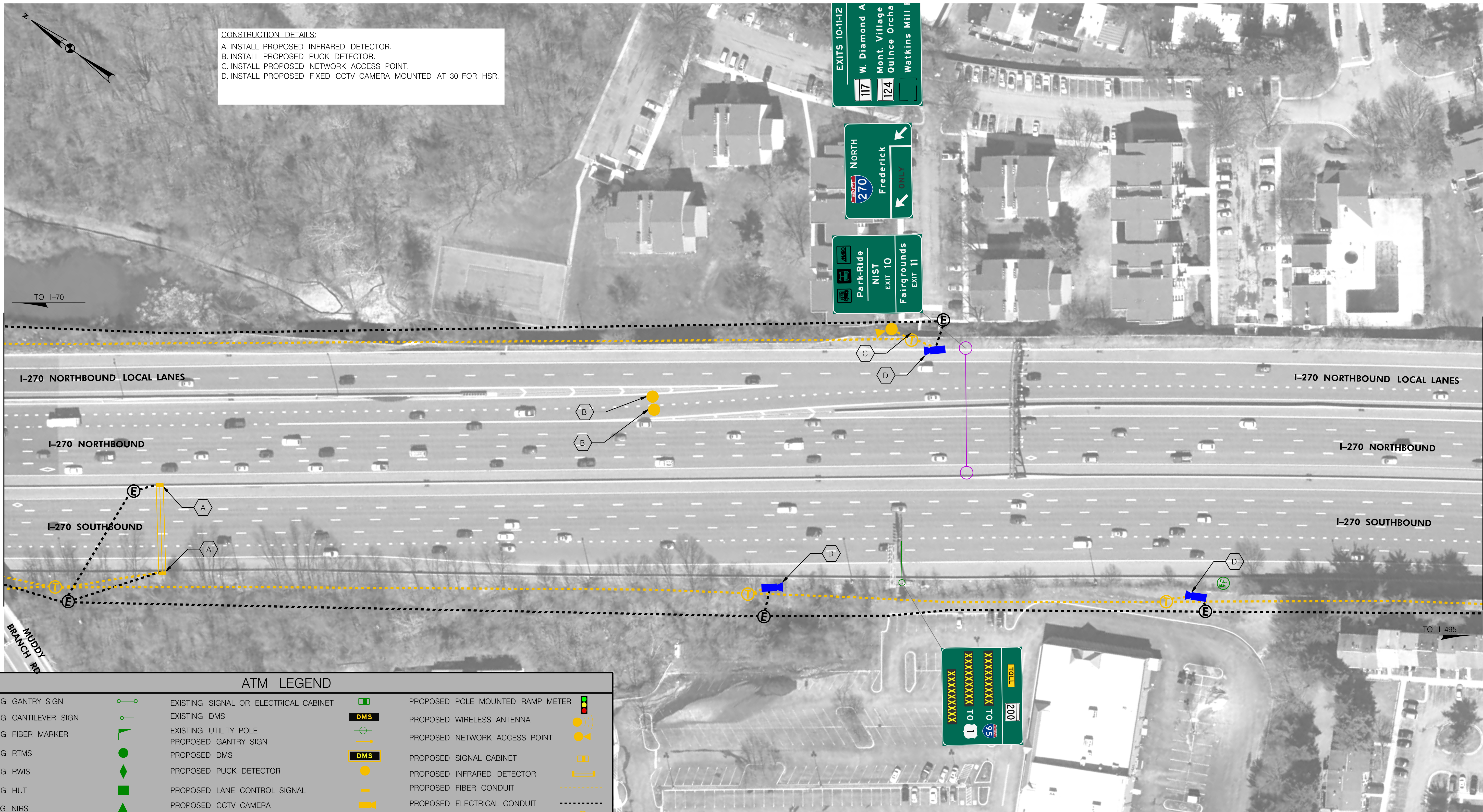
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED PUCK DETECTOR.
C. INSTALL PROPOSED NETWORK ACCESS POINT.
D. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.

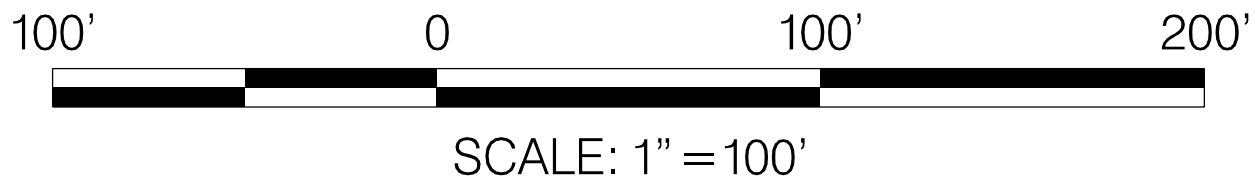
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CORMAN
CONSTRUCTION

WSP | PARSONS
BRINCKERHOFF

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION
I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 - SOUTH OF MUDDY BRANCH RD

DATE: JANUARY 19, 2017

MM 061 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 11:22 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p061_I270.dgn

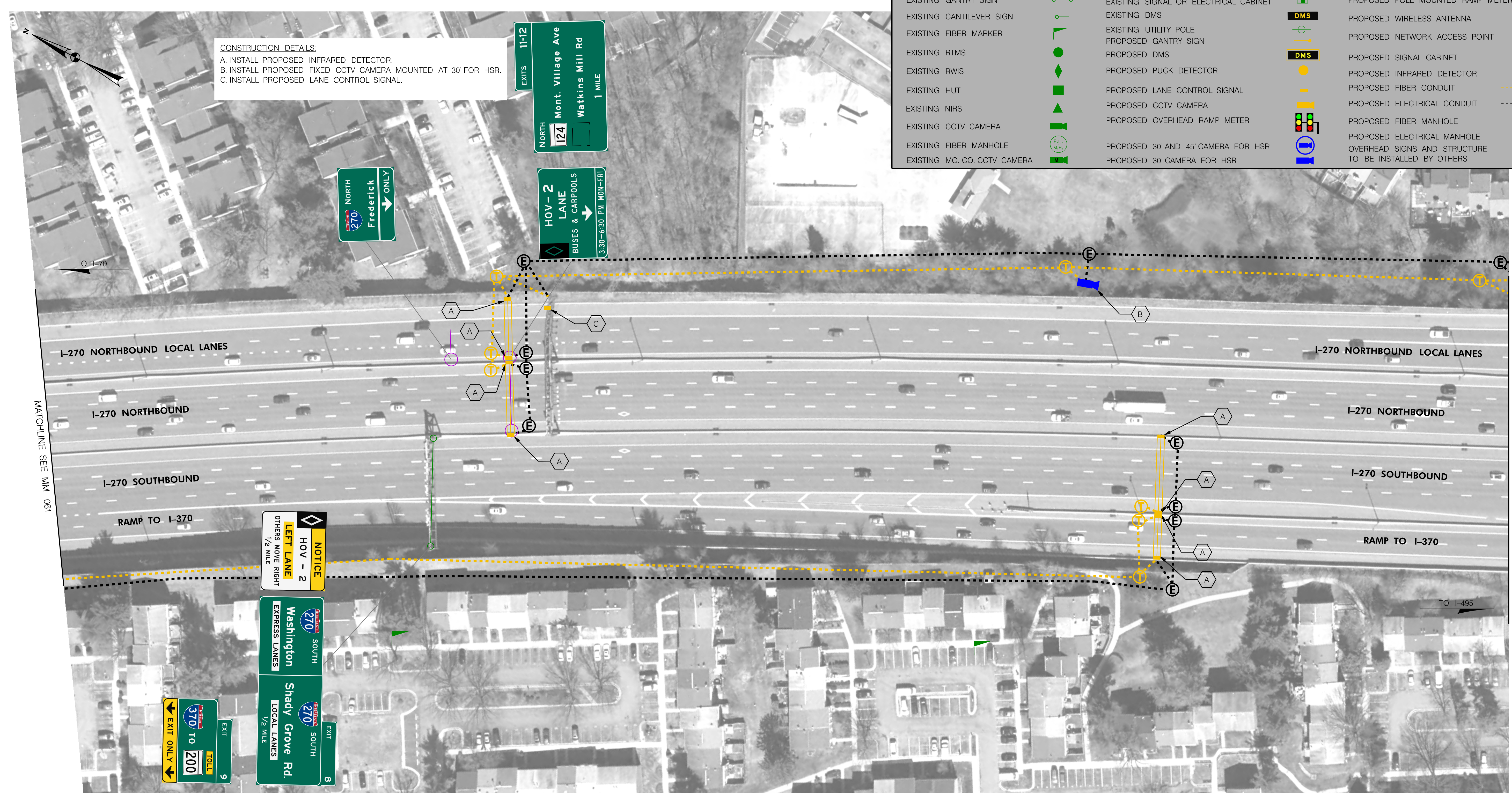
DRILL HOLES

DRILL HOLES

DRILL HOLES

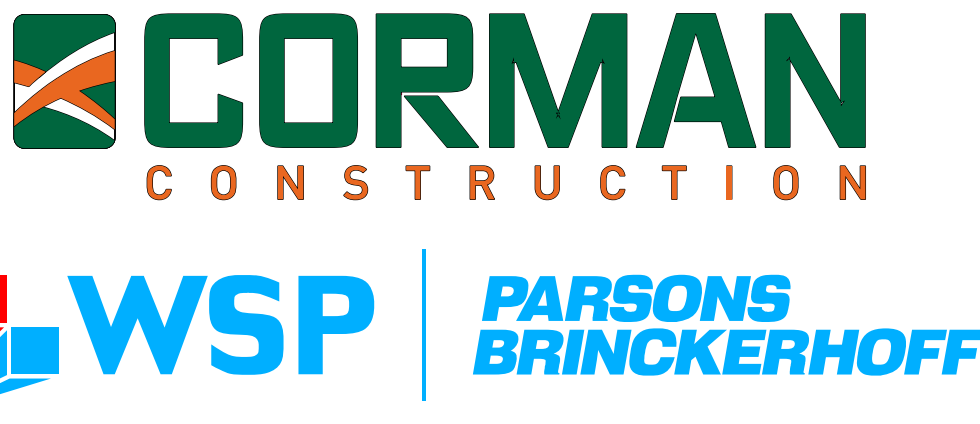
BORDER REV. DATE: March 27, 2007

BY: roachve -

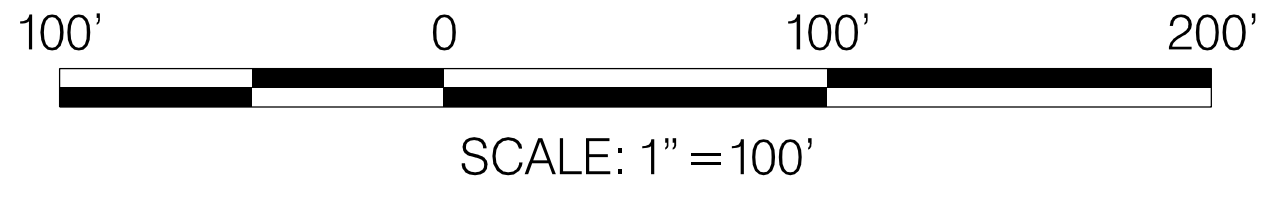


CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	




DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 – NORTH OF I-370

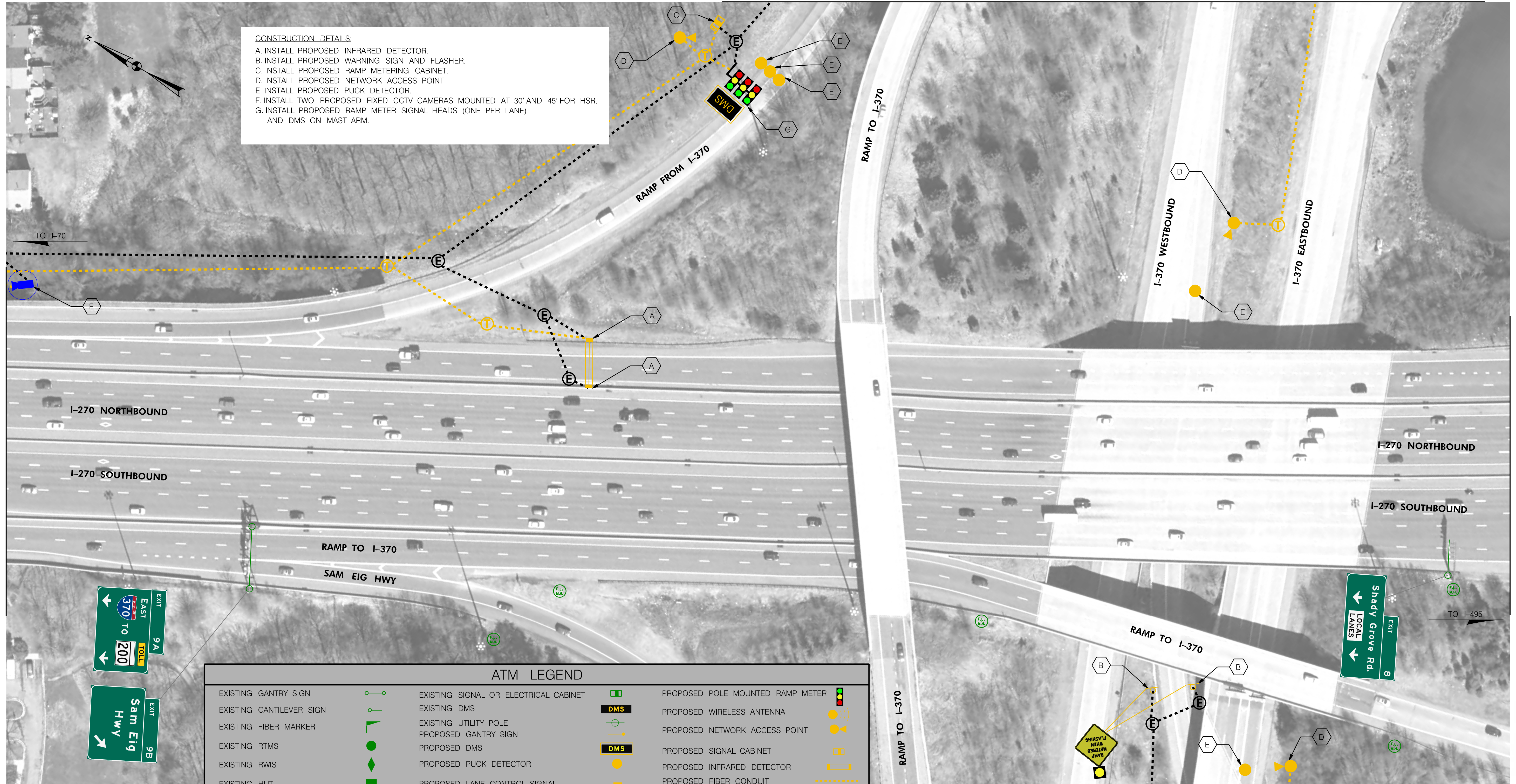
DATE: JANUARY 19, 2017

MM 062 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:20 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P062_IS270.dgn



MATCHLINE SEE MM 100



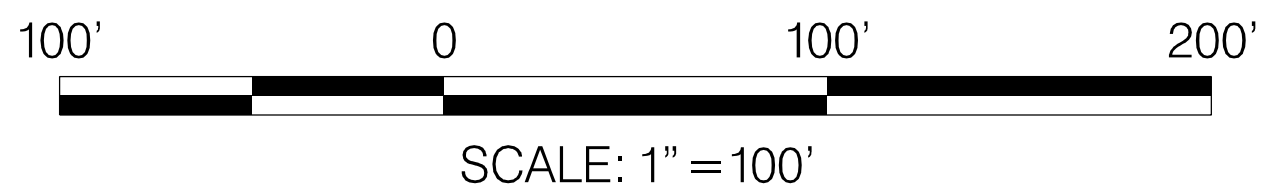
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED WARNING SIGN AND FLASHER.
C. INSTALL PROPOSED RAMP METERING CABINET.
D. INSTALL PROPOSED NETWORK ACCESS POINT.
E. INSTALL PROPOSED PUCK DETECTOR.
F. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
G. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CORMAN
CONSTRUCTION



DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 – I-370

DATE: JANUARY 19, 2017MM 081 OF 108

DRILL HOLES

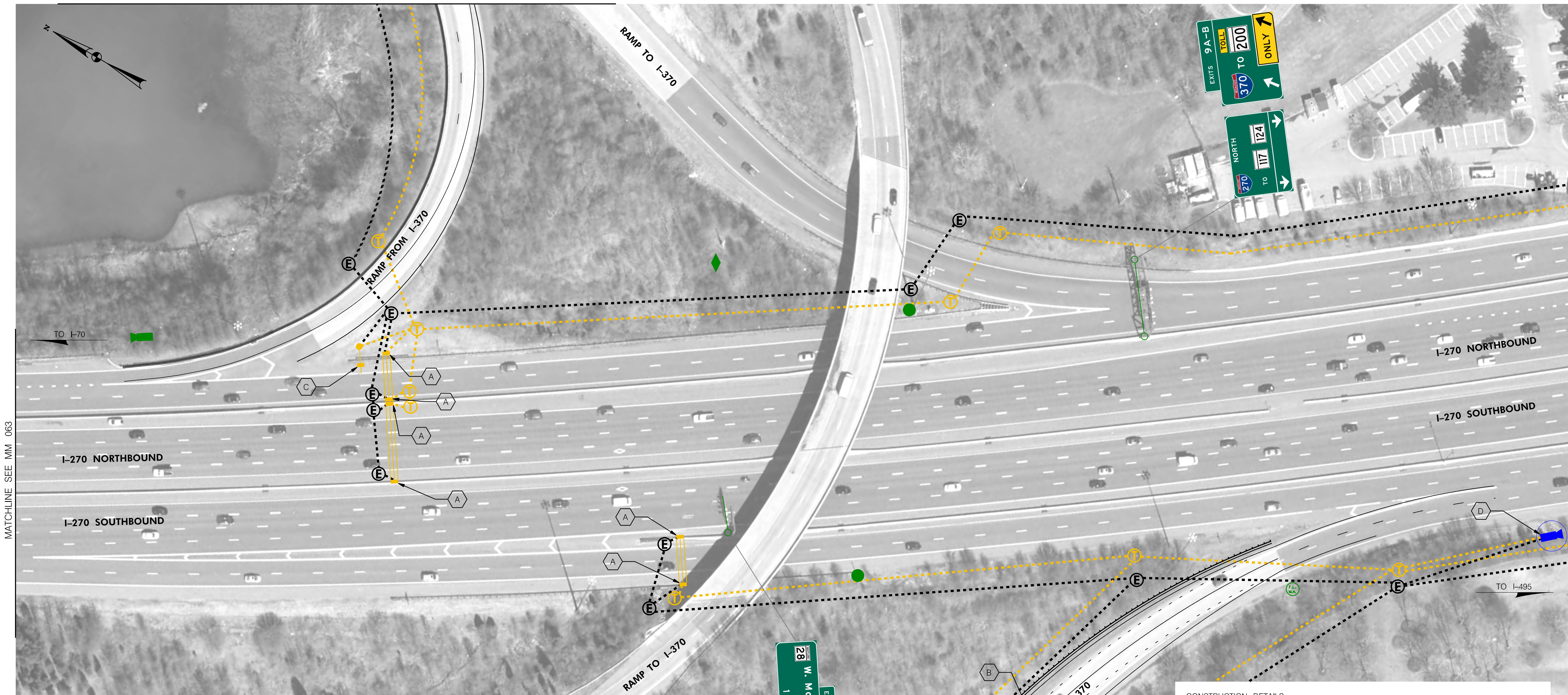
DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

MATCHLINE SEE MM 100



MATCHLINE SEE MM 065

ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

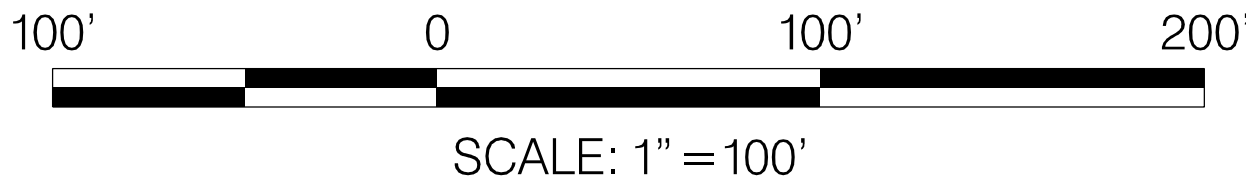
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.
D. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
E. INSTALL PROPOSED RAMP METERING CABINET.
F. INSTALL PROPOSED NETWORK ACCESS POINT.
G. INSTALL PROPOSED PUCK DETECTOR.

MATCHLINE SEE MM 101

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION
I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 - I-370

DATE: JANUARY 19, 2017

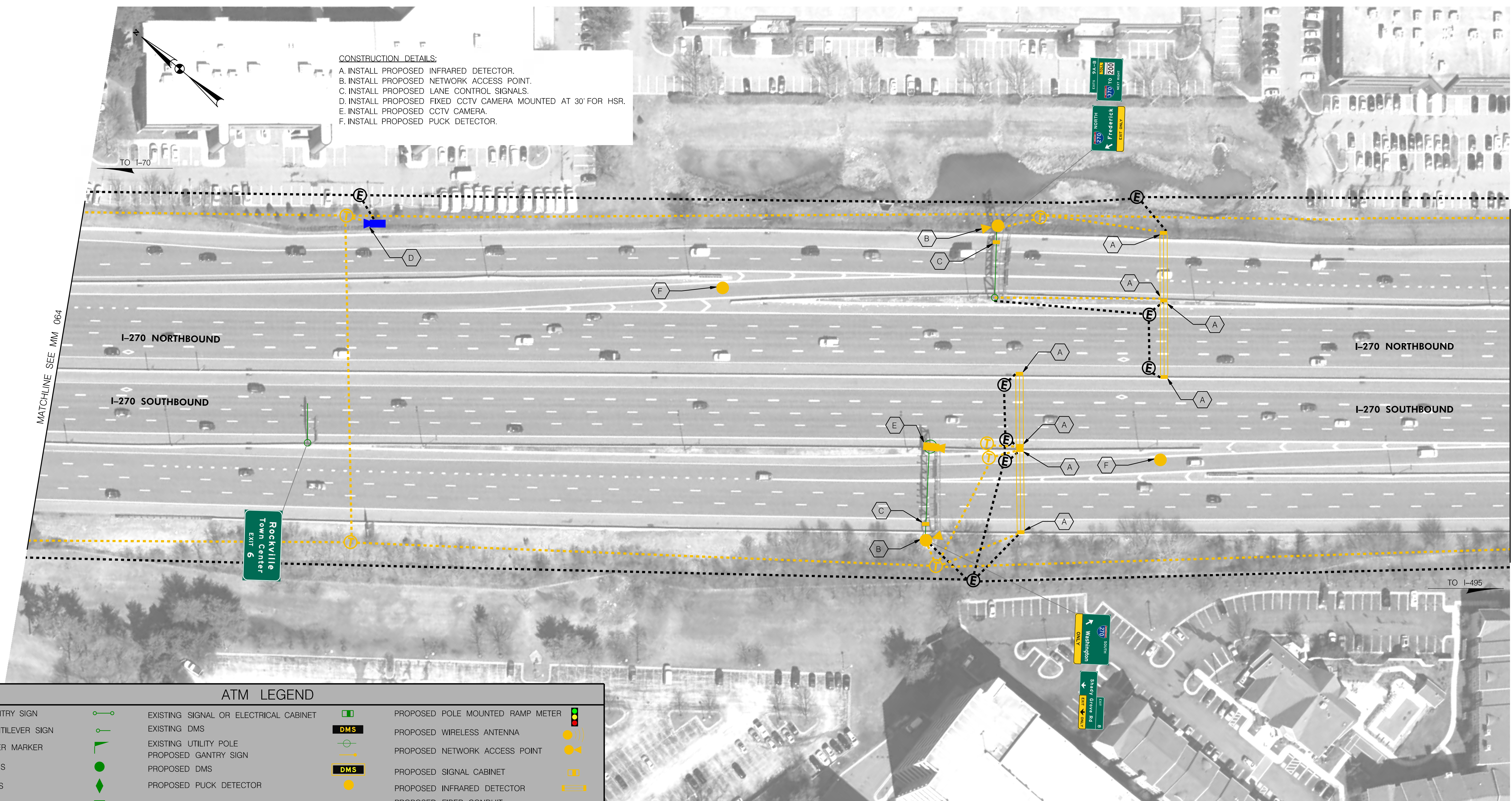
MM 064 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 11:44 AM
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DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

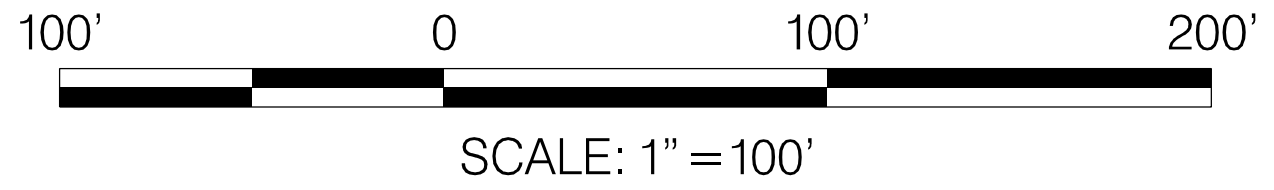


CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED NETWORK ACCESS POINT.
C. INSTALL PROPOSED LANE CONTROL SIGNALS.
D. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
E. INSTALL PROPOSED CCTV CAMERA.
F. INSTALL PROPOSED PUCK DETECTOR.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	



DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 – SOUTH OF I-370	
DATE: JANUARY 19, 2017	MM 065 OF 108

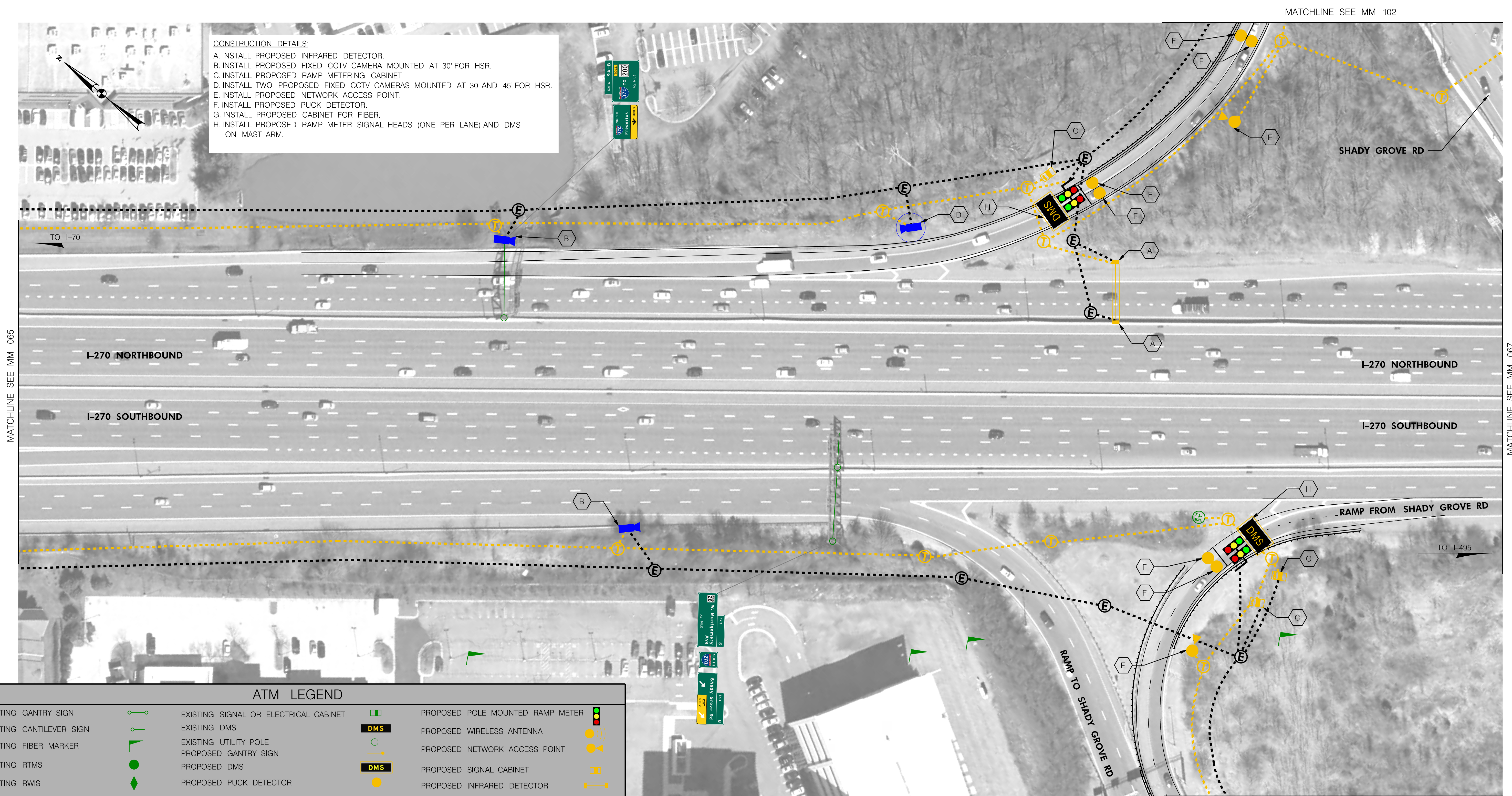
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DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

- CONSTRUCTION DETAILS:
- A. INSTALL PROPOSED INFRARED DETECTOR.
 - B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
 - C. INSTALL PROPOSED RAMP METERING CABINET.
 - D. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
 - E. INSTALL PROPOSED NETWORK ACCESS POINT.
 - F. INSTALL PROPOSED PUCK DETECTOR.
 - G. INSTALL PROPOSED CABINET FOR FIBER.
 - H. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.



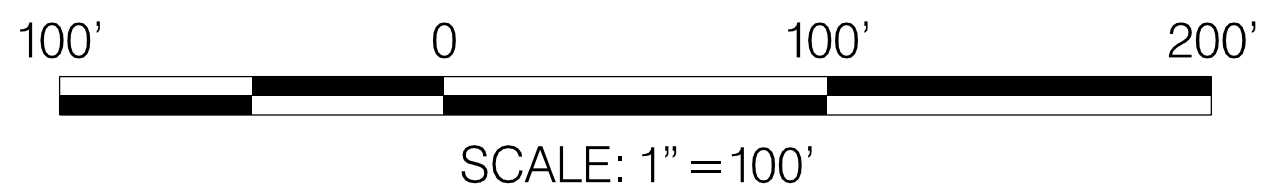
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CORMAN
CONSTRUCTION

WSP | PARSONS
BRINCKERHOFF

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 - SHADY GROVE RD	
DATE: JANUARY 19, 2017	MM 066 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 11:56 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P066_IS270.dgn

DRILL HOLES

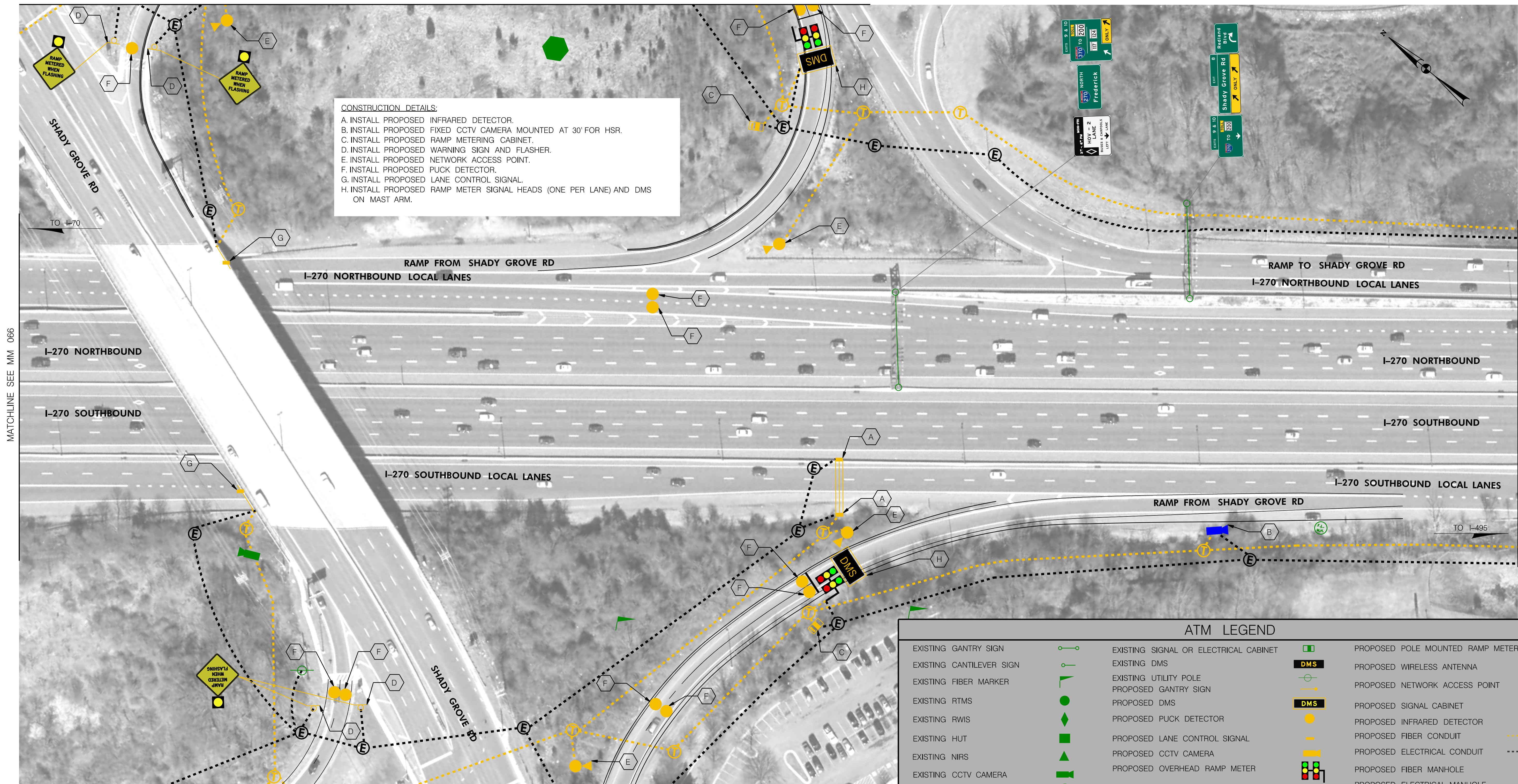
DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

MATCHLINE SEE MM 102



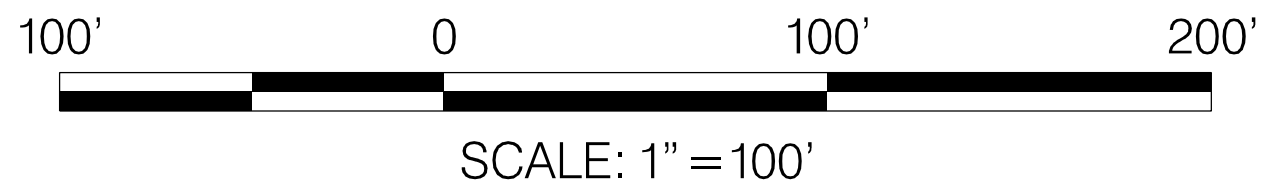
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL PROPOSED RAMP METERING CABINET.
D. INSTALL PROPOSED WARNING SIGN AND FLASHER.
E. INSTALL PROPOSED NETWORK ACCESS POINT.
F. INSTALL PROPOSED PUCK DETECTOR.
G. INSTALL PROPOSED LANE CONTROL SIGNAL.
H. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 - SHADY GROVE RD

DATE: JANUARY 19, 2017

MM 067 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 12:05 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p067_I270.dgn

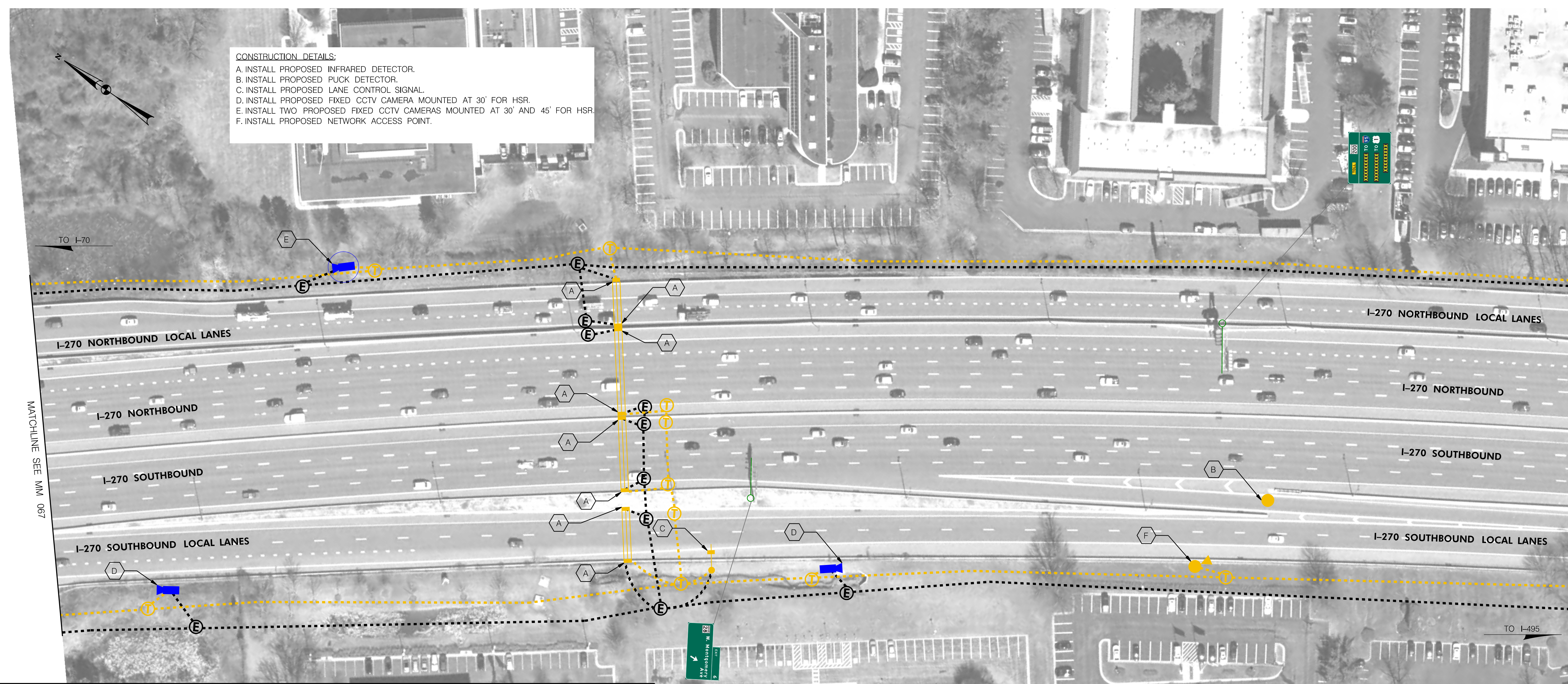
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: littleton -



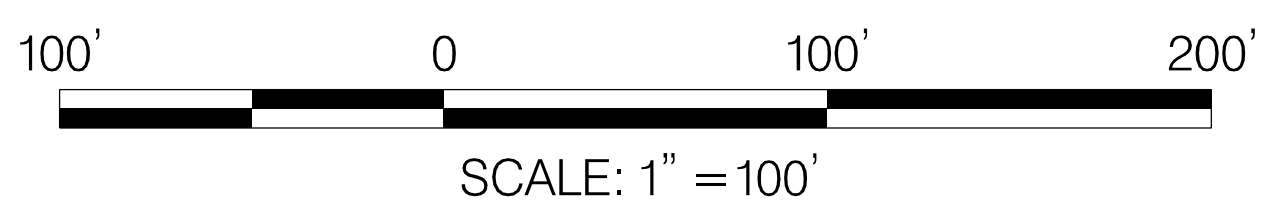
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED PUCK DETECTOR.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.
D. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
E. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
F. INSTALL PROPOSED NETWORK ACCESS POINT.

ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO.CO.CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 - SOUTH OF SHADY GROVE RD	
DATE: JANUARY 19, 2017	MM 068 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:27 PM
FILE: J:\2015\10144 - I-270 ATM\Tech Proposal\CAD\RollMaps\ATM\50 Scale Plans\p11-P068_I270.dgn

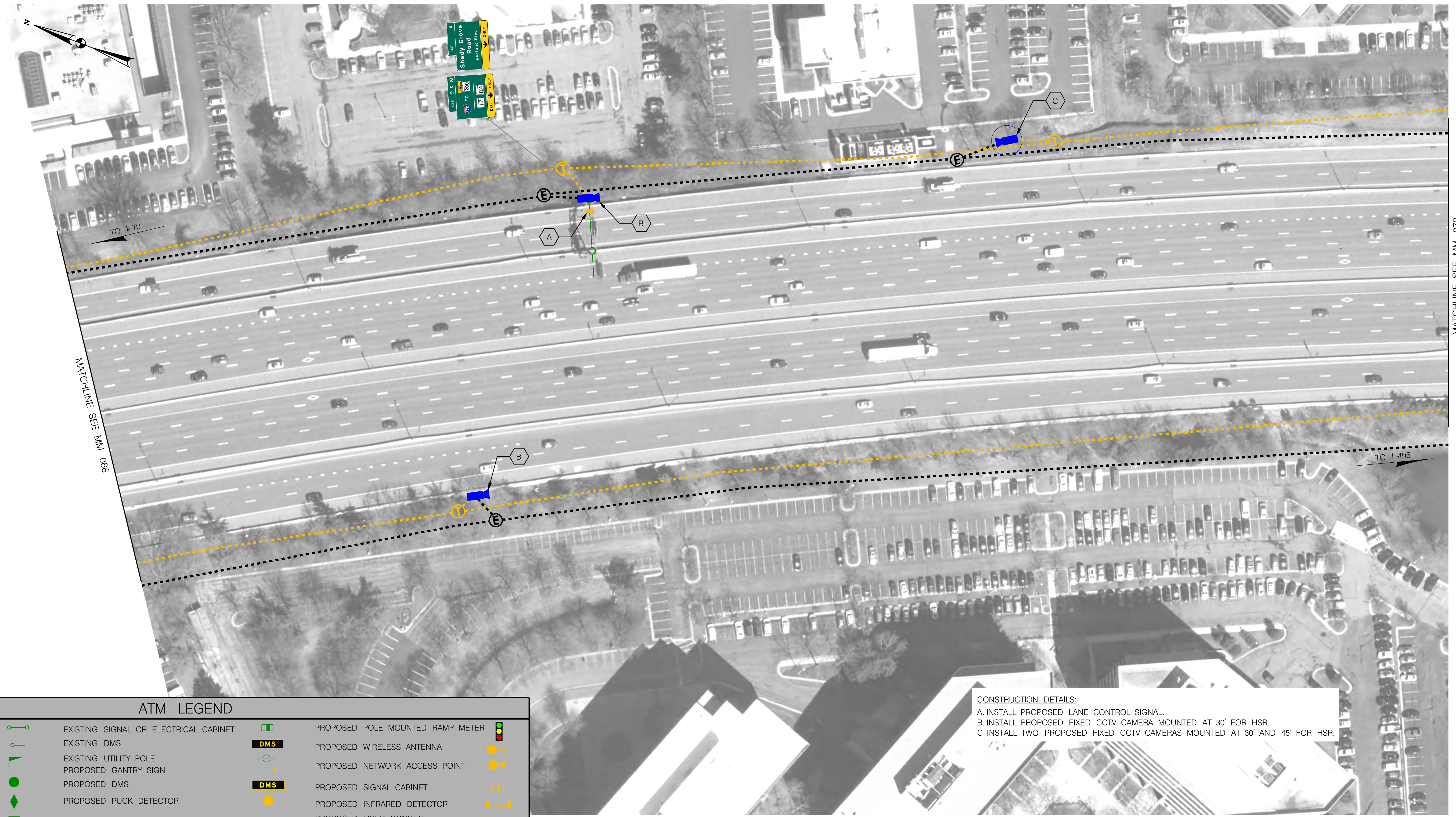
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: littleton



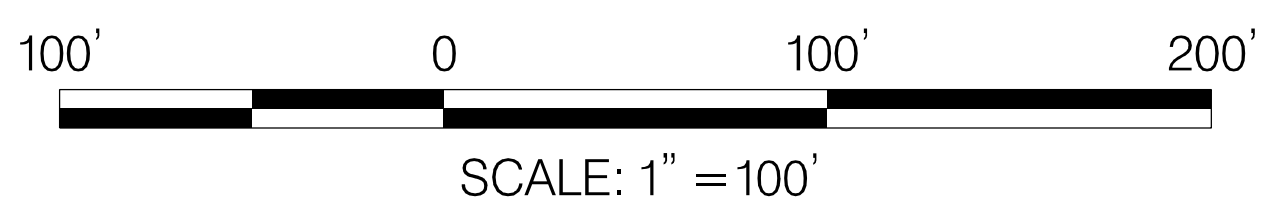
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO.CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED LANE CONTROL SIGNAL.
B. INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
C. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.




DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 – NORTH OF W. GUDE DR

DATE: JANUARY 19, 2017MM 069 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:32 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposal\CAD\RollMaps\ATM\50 Scale Plans\p069_I270.dgn

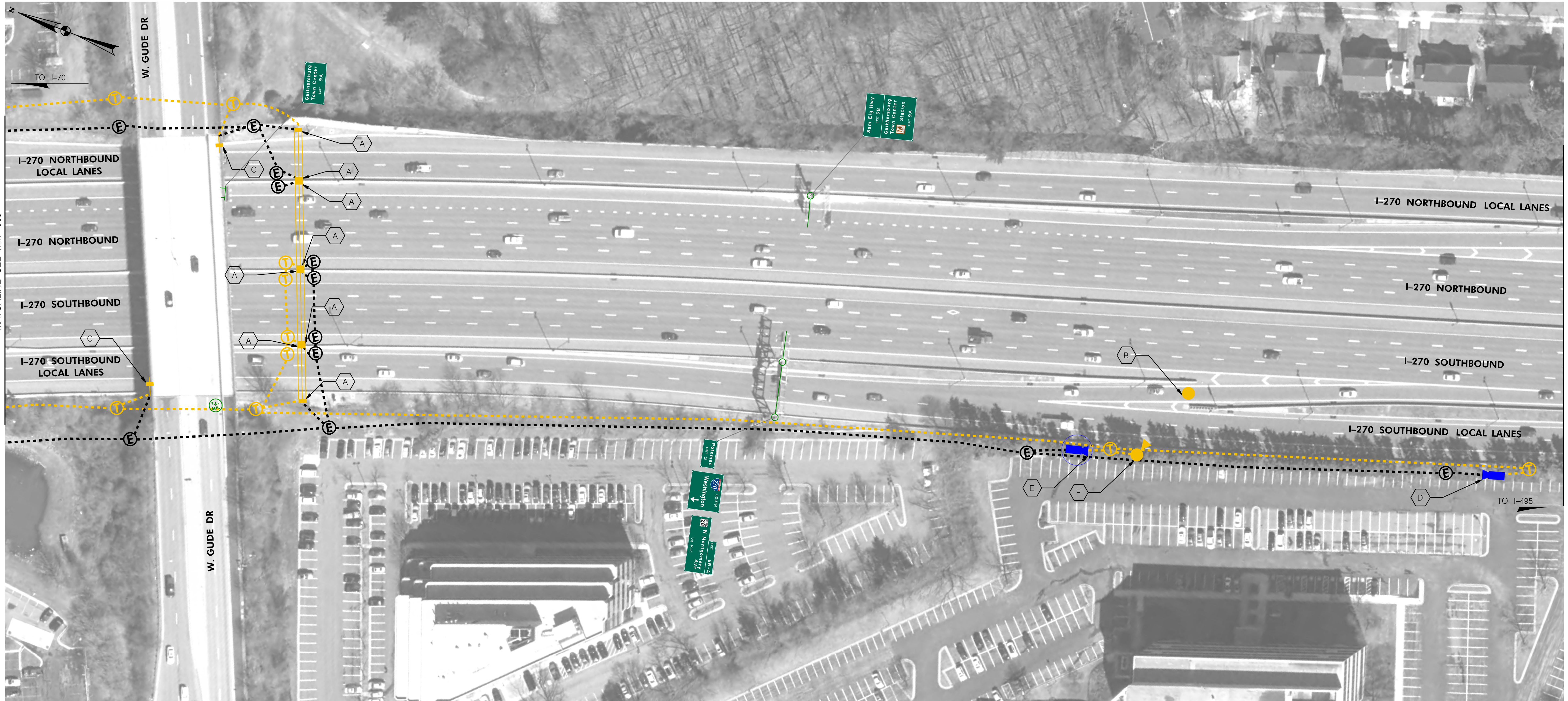
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: littleton -



ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO.CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

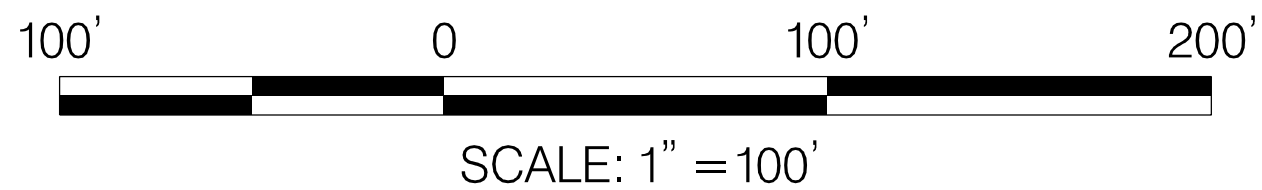
CONSTRUCTION DETAILS:

- INSTALL PROPOSED INFRARED DETECTOR.
- INSTALL PROPOSED PUCK DETECTOR.
- INSTALL PROPOSED LANE CONTROL SIGNAL.
- INSTALL PROPOSED FIXED CCTV CAMERA MOUNTED AT 30' FOR HSR.
- INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
- INSTALL PROPOSED NETWORK ACCESS POINT.

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS	
SEGMENT 4 I-270 - W. GUDE DR	
DATE: JANUARY 19, 2017	MM 070 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:37 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposal\CAD\RollMaps\ATM\50 Scale Plans\p17-I270_15270.dgn

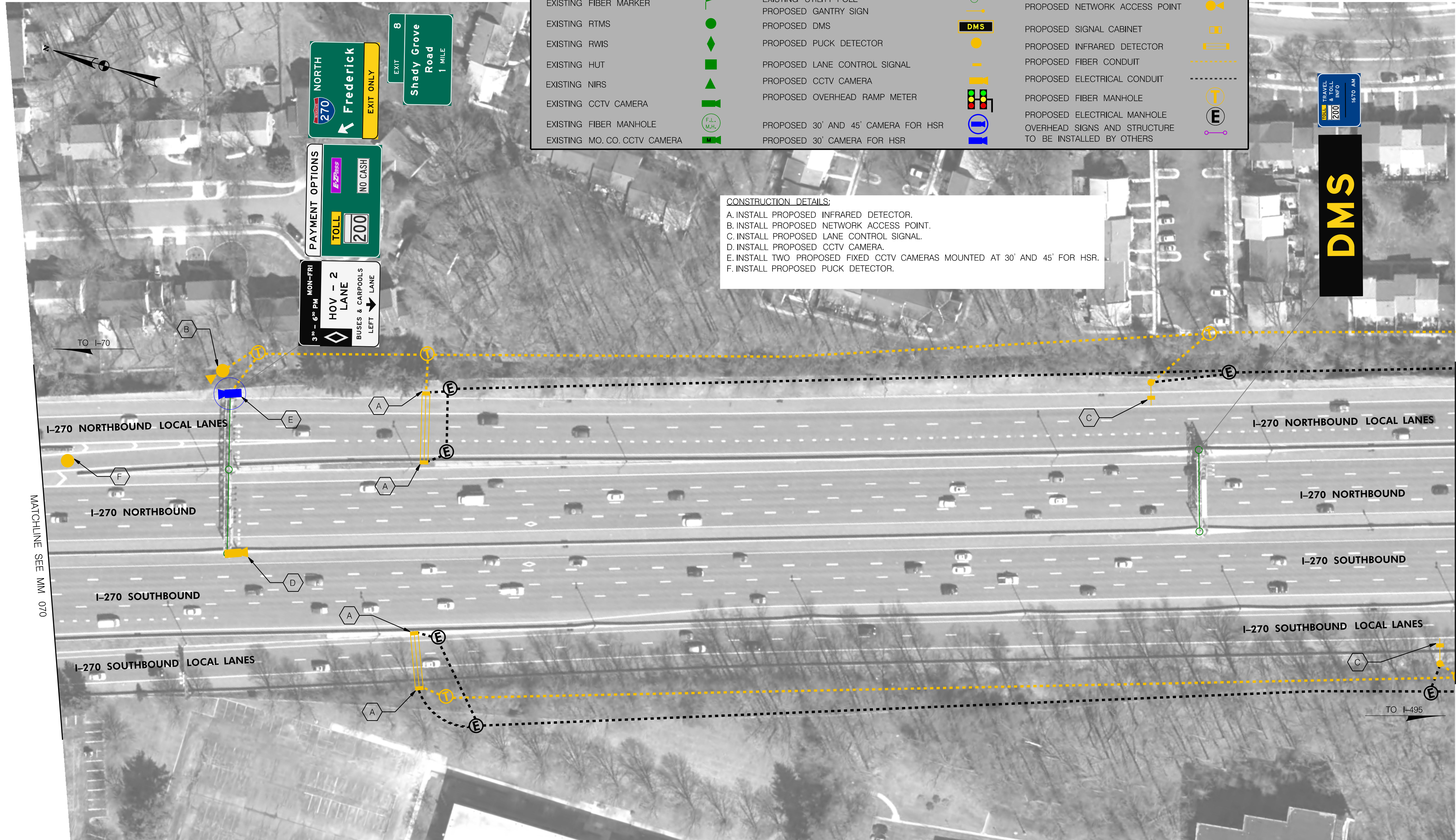
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: littleton -



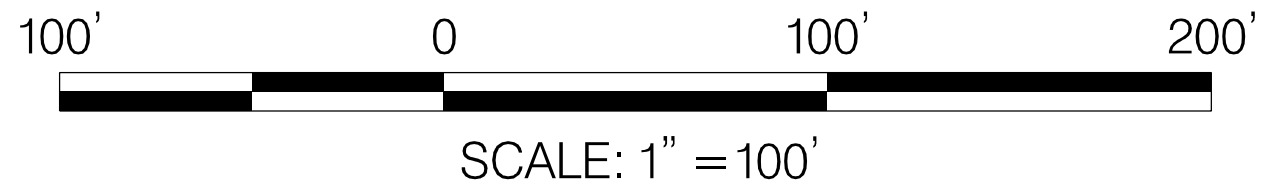
ATM LEGEND					
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
EXISTING RWIS		PROPOSED DMS		PROPOSED INFRARED DETECTOR	
EXISTING HUT		PROPOSED PUCK DETECTOR		PROPOSED FIBER CONDUIT	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL		PROPOSED ELECTRICAL CONDUIT	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA		PROPOSED FIBER MANHOLE	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER		PROPOSED ELECTRICAL MANHOLE	
EXISTING MO.CO.CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR		OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	
		PROPOSED 30' CAMERA FOR HSR			

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED NETWORK ACCESS POINT.
C. INSTALL PROPOSED LANE CONTROL SIGNAL.
D. INSTALL PROPOSED CCTV CAMERA.
E. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
F. INSTALL PROPOSED PUCK DETECTOR.

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 - SOUTH OF W. GUDE AVE

DATE: JANUARY 19, 2017

MM 071 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:43 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposal\CAD\RollMaps\ATM\50 Scale Plans\p071_I270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: littleton -



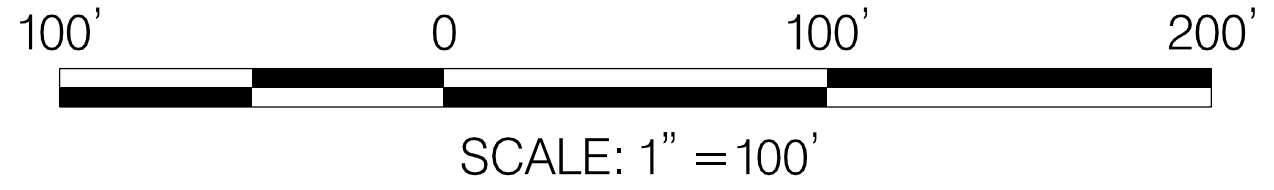
ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL SIGNAL	
EXISTING CCTV CAMERA		PROPOSED CCTV CAMERA	
EXISTING FIBER MANHOLE		PROPOSED OVERHEAD RAMP METER	
EXISTING MO. CO. CCTV CAMERA		PROPOSED 30' AND 45' CAMERA FOR HSR	
		PROPOSED 30' CAMERA FOR HSR	
		PROPOSED POLE MOUNTED RAMP METER	
		PROPOSED WIRELESS ANTENNA	
		PROPOSED NETWORK ACCESS POINT	
		PROPOSED SIGNAL CABINET	
		PROPOSED INFRARED DETECTOR	
		PROPOSED FIBER CONDUIT	
		PROPOSED ELECTRICAL CONDUIT	
		PROPOSED FIBER MANHOLE	
		PROPOSED ELECTRICAL MANHOLE	
		PROPOSED OVERHEAD SIGNS AND STRUCTURE TO BE INSTALLED BY OTHERS	

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL TWO PROPOSED FIXED CCTV CAMERAS MOUNTED AT 30' AND 45' FOR HSR.
C. INSTALL PROPOSED NETWORK ACCESS POINT.

CORMAN
CONSTRUCTION


WSP | PARSONS
BRINCKERHOFF

DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
INNOVATIVE CONTRACTING DIVISION

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 4
I-270 - NORTH OF MD 28

DATE: JANUARY 19, 2017

MM 072 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:48 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposal\CAD\RollMaps\ATM\50 Scale Plans\ATT-P072_I270.dgn