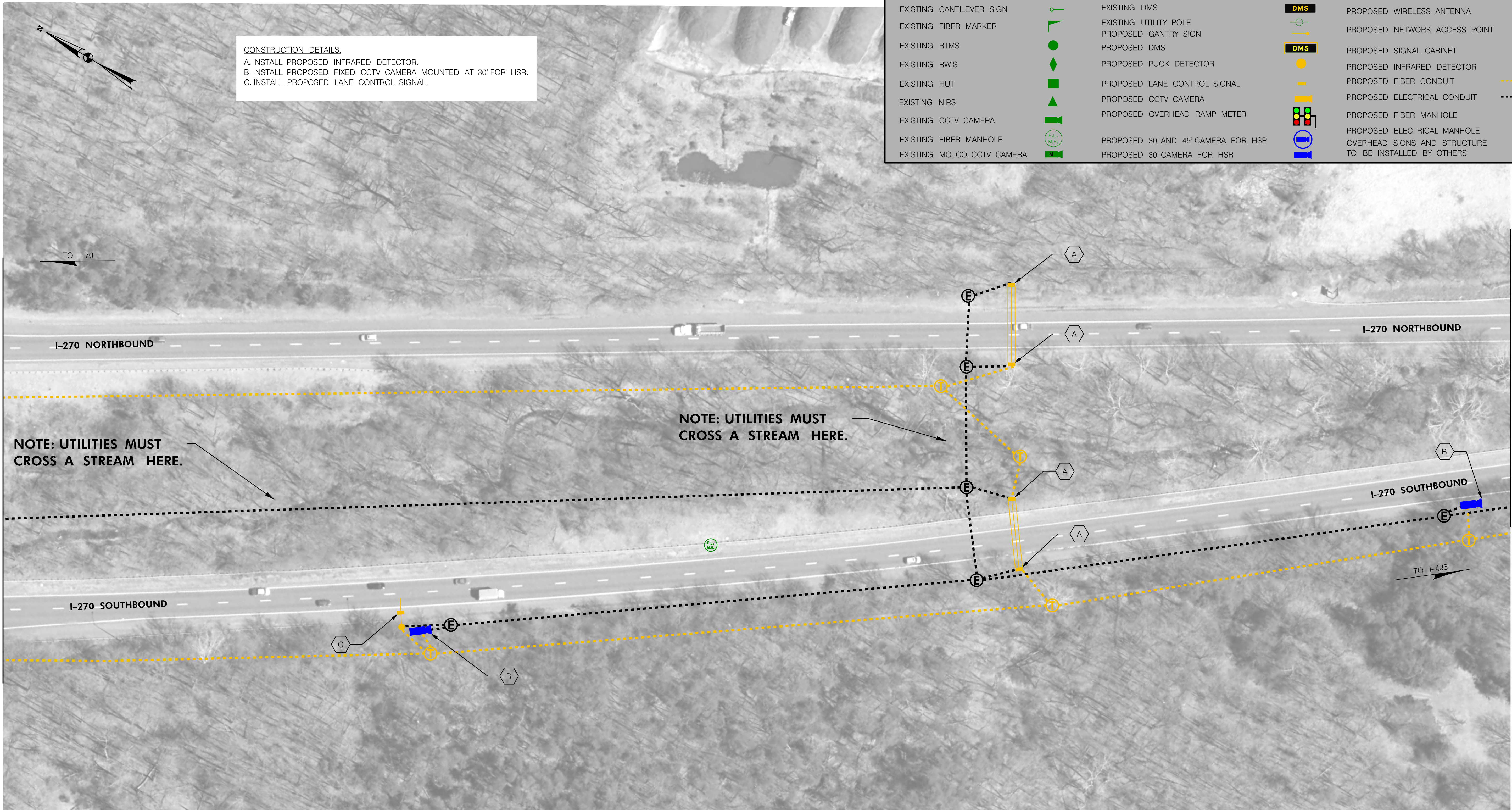




BORDER REV. DATE: March 27, 2007

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.

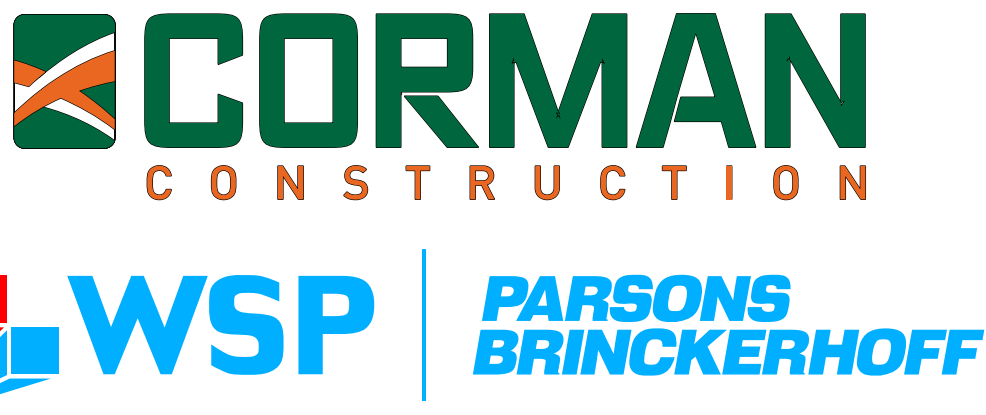
ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL 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	

NOTE: UTILITIES MUST CROSS A STREAM HERE.

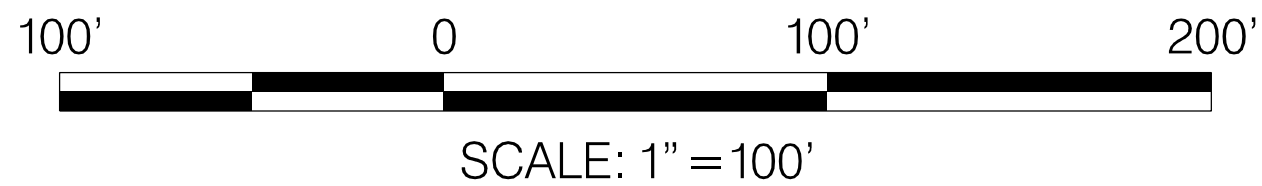
NOTE: UTILITIES MUST CROSS A STREAM HERE.

MATCHLINE - SEE MM 022

MATCHLINE - SEE MM 024



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 2 I-270 - SOUTH OF WEIGH STATION	
DATE: JANUARY 19, 2017	MM 023 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:54 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p023_MM023.dgn

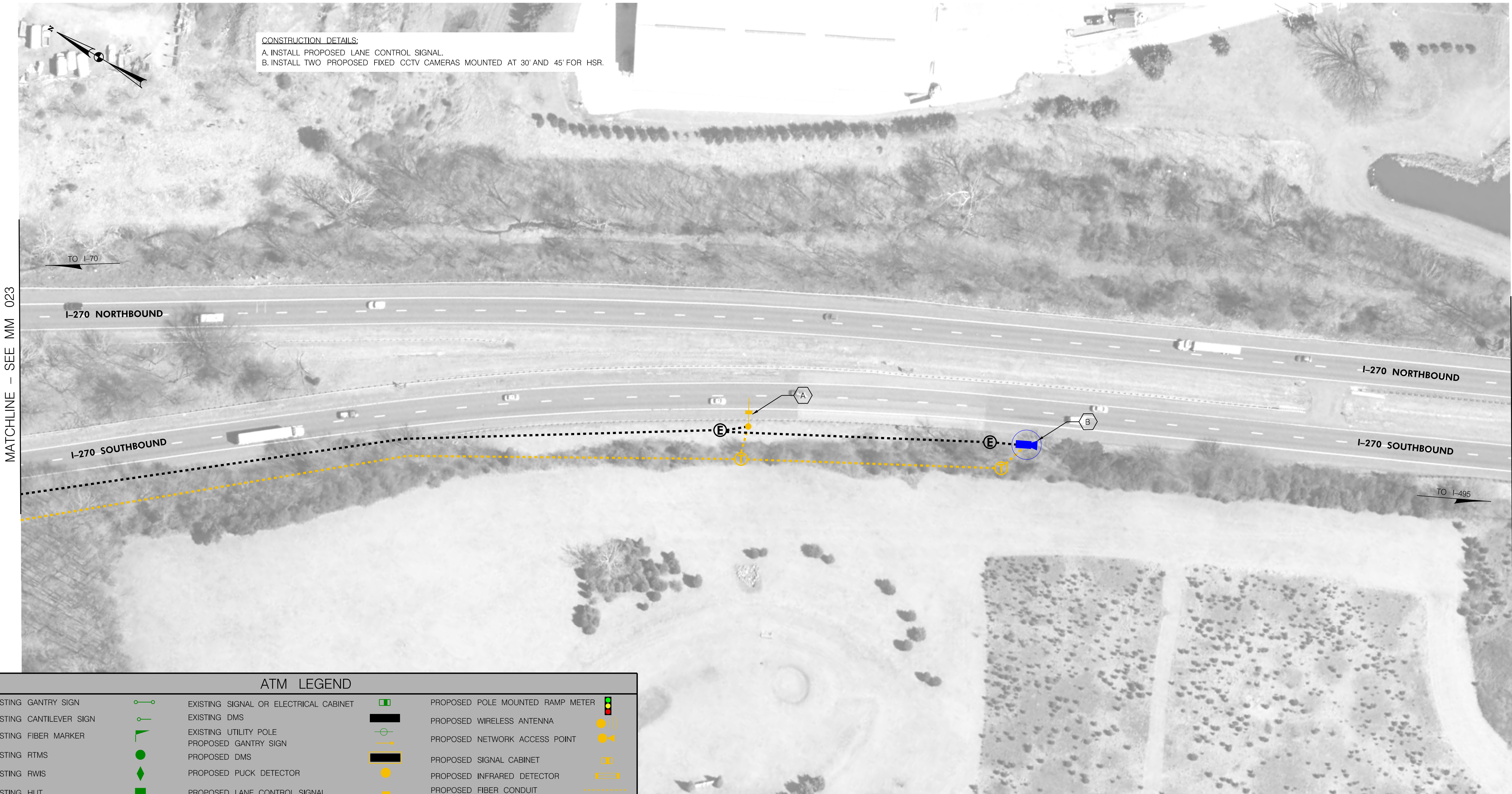
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roache -



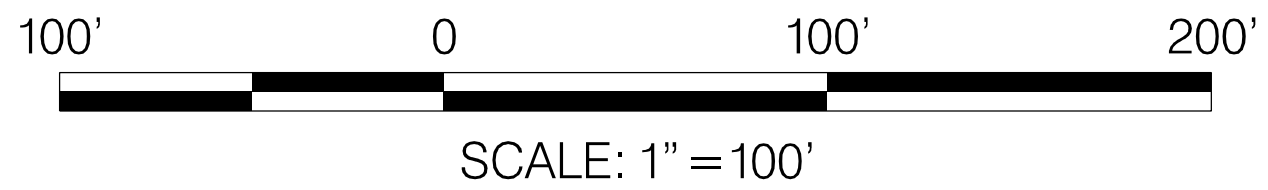
ATM LEGEND

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 2
I-270 – NORTH OF COMUS RD

DATE: JANUARY 19, 2017MM 024 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:57 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p024_IS270.dgn

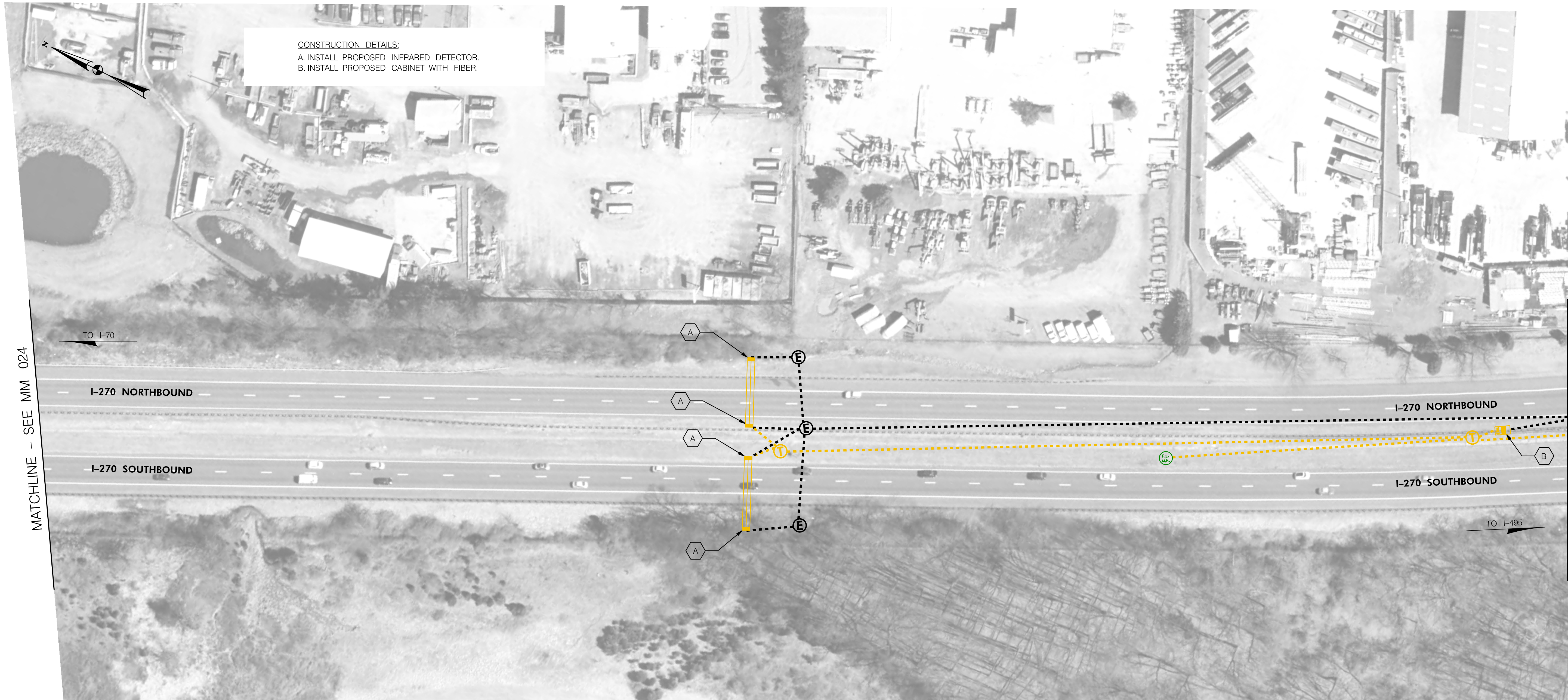
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED CABINET WITH FIBER.

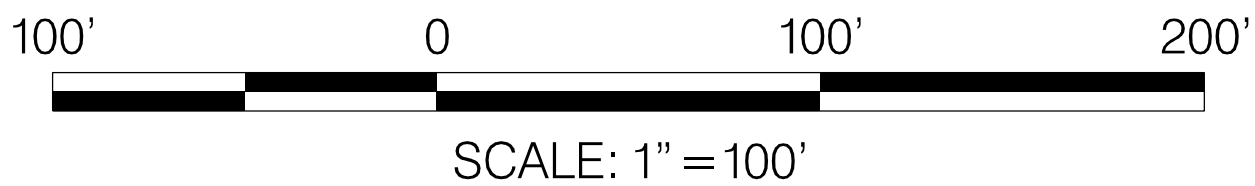
ATM LEGEND

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 2
I-270 – NORTH OF COMUS RD

DATE: JANUARY 19, 2017

MM 025 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:00 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P025_IS270.dgn

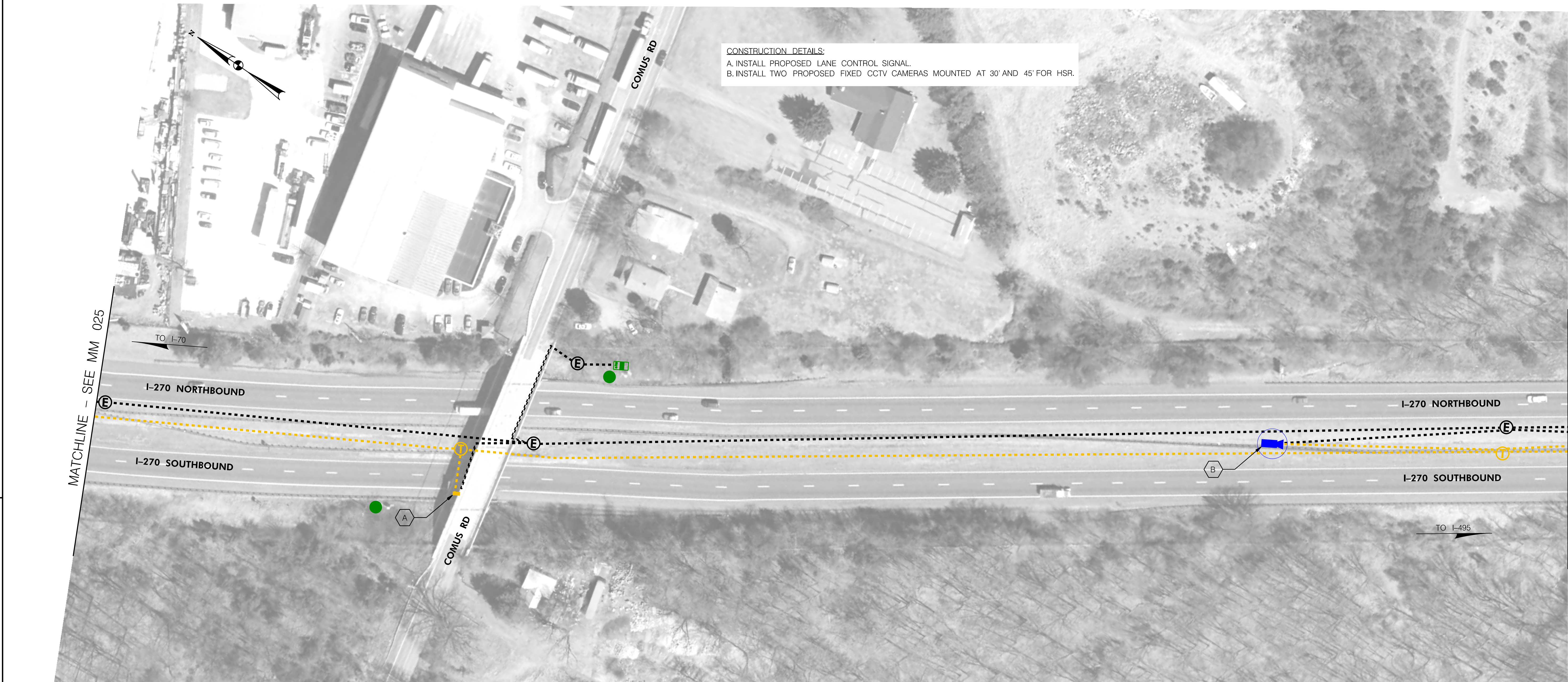
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



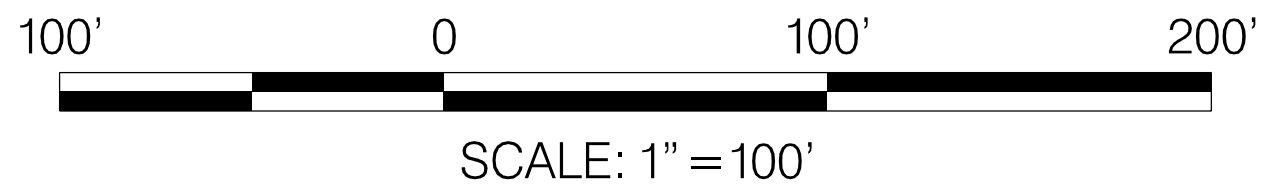
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		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 2
I-270 - COMUS RD

DATE: JANUARY 19, 2017

MM 026 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:03 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P026_I270.dgn

DRILL HOLES

DRILL HOLES

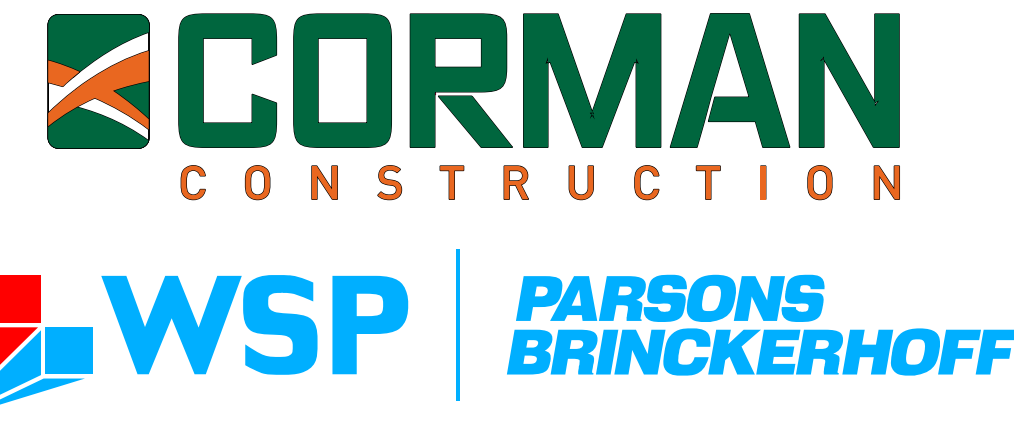
DRILL HOLES

BORDER REV. DATE: March 27, 2007

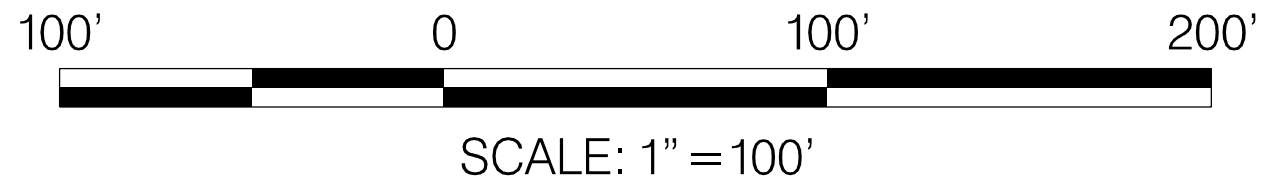
BY: roachve -

MATCHLINE - SEE MM 026

MATCHLINE - SEE MM 028




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 2
I-270 - SOUTH OF COMUS RD

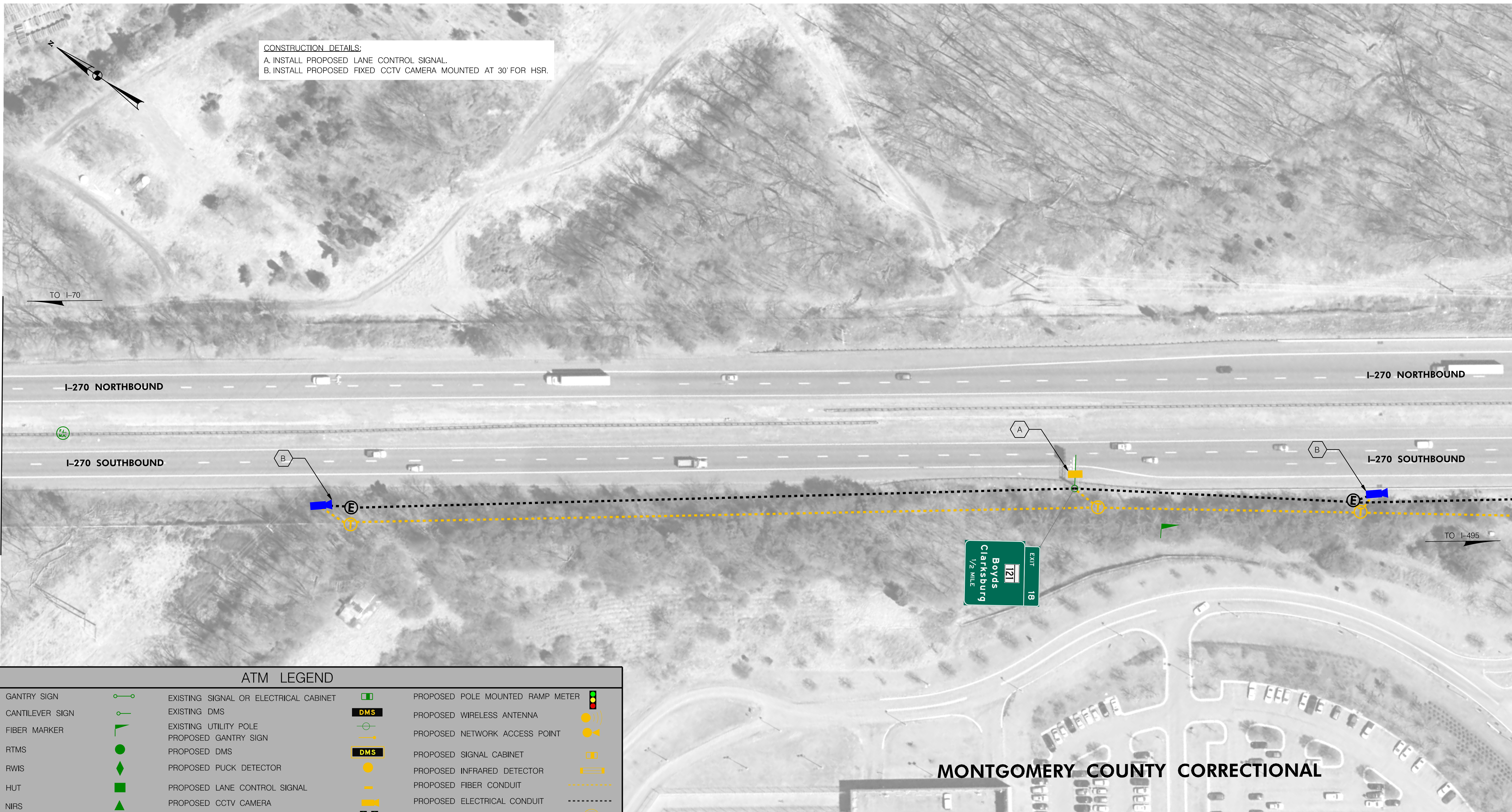
DATE: JANUARY 19, 2017MM 027 OF 108

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\p027_IS270.dgn



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.

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 2
I-270 - NORTH OF MD 121

DATE: JANUARY 19, 2017

MM 046 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:09 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p028_I270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



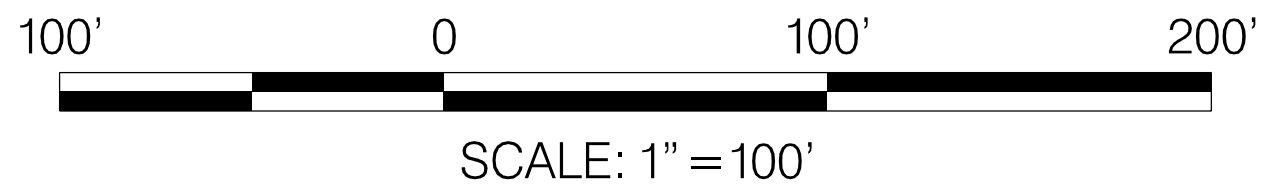
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		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 2
I-270 - NORTH OF MD 121

DATE: JANUARY 19, 2017

MM 029 OF 108

PLOTTED: Monday, January 16, 2017 AT 07:12 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p029_I270.dgn

DRILL HOLES

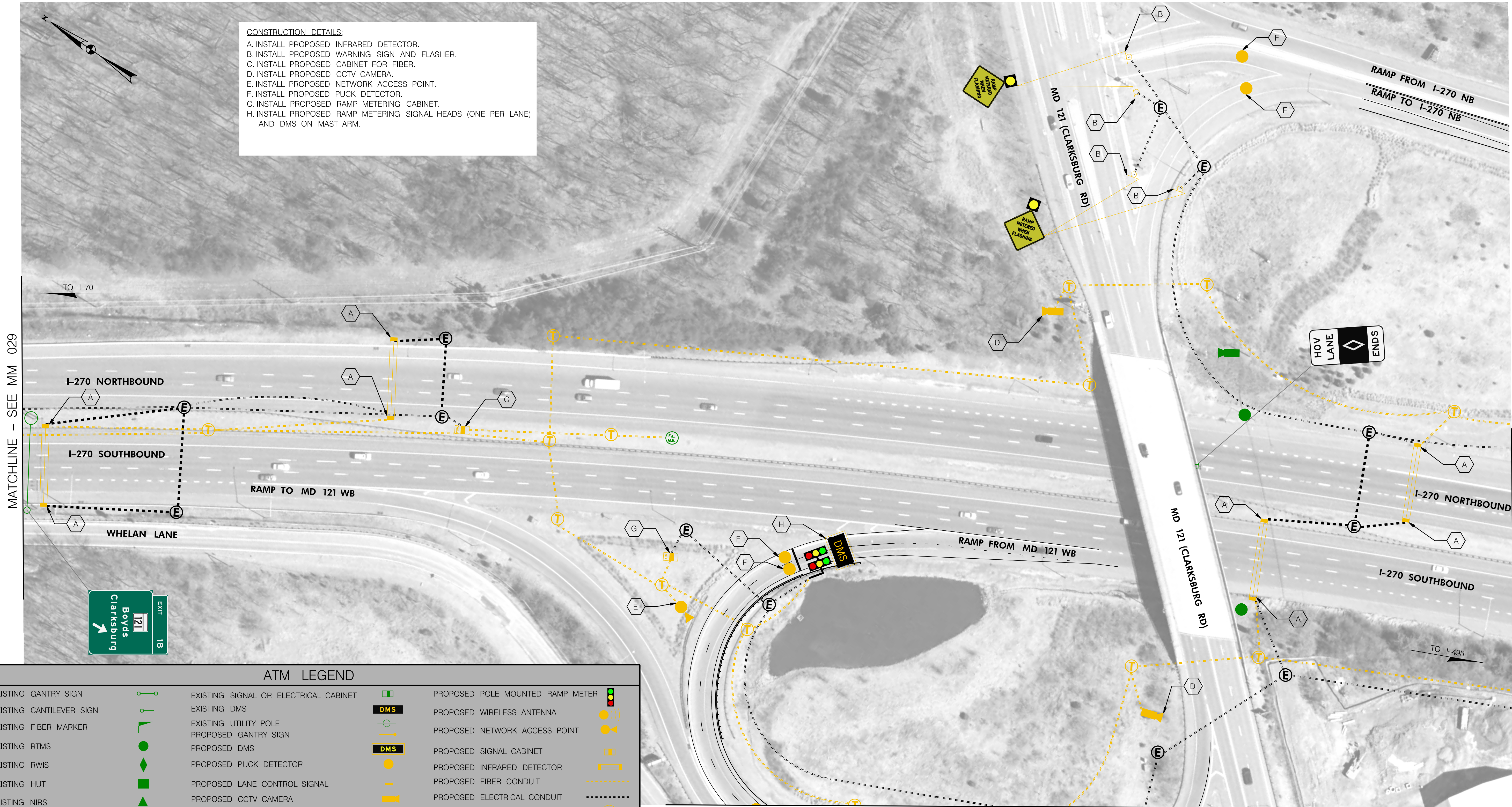
DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

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



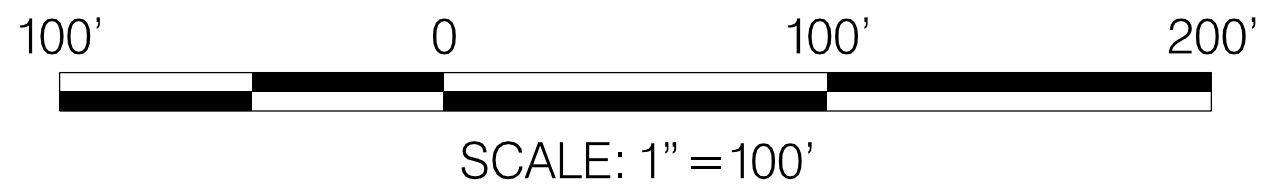
ATM LEGEND

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

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

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 2
I-270 - MD 121 (CLARKSBURG RD)

DATE: JANUARY 19, 2017

MM 030 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 10:07 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P030_IS270.dgn

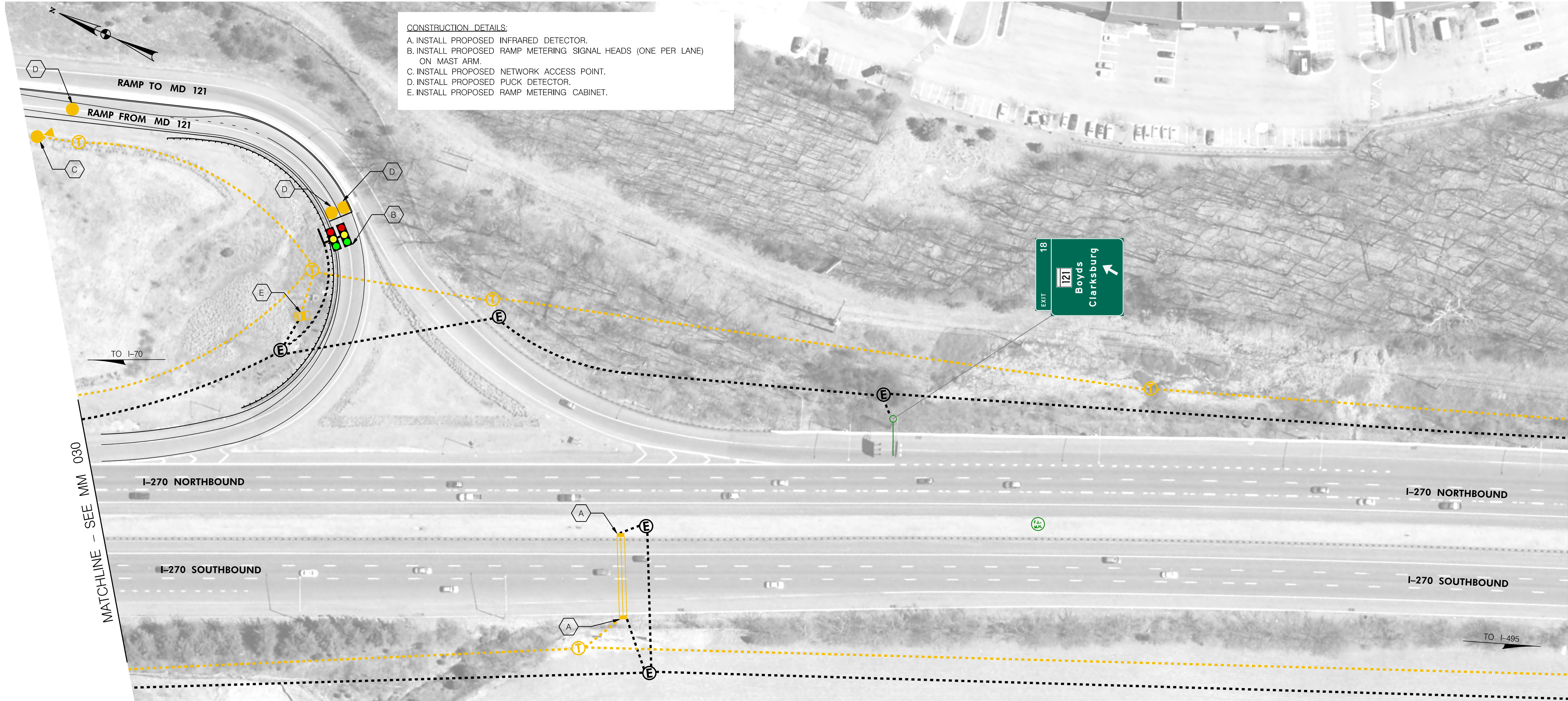
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



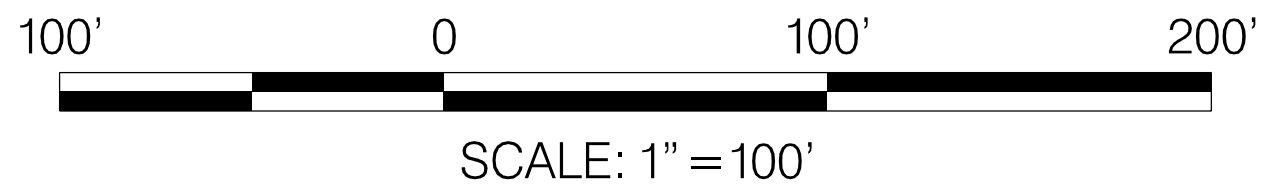
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED RAMP METERING SIGNAL HEADS (ONE PER LANE) ON MAST ARM.
C. INSTALL PROPOSED NETWORK ACCESS POINT.
D. INSTALL PROPOSED PUCK DETECTOR.
E. INSTALL PROPOSED RAMP METERING CABINET.

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

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

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 2
I-270 - MD 121 (CLARKSBURG RD)

DATE: JANUARY 19, 2017

MM 031 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 10:22 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P031_IS270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



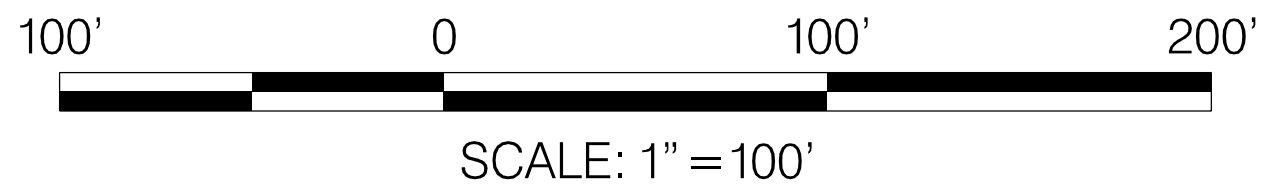
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		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 – SOUTH OF MD 121

DATE: JANUARY 19, 2017

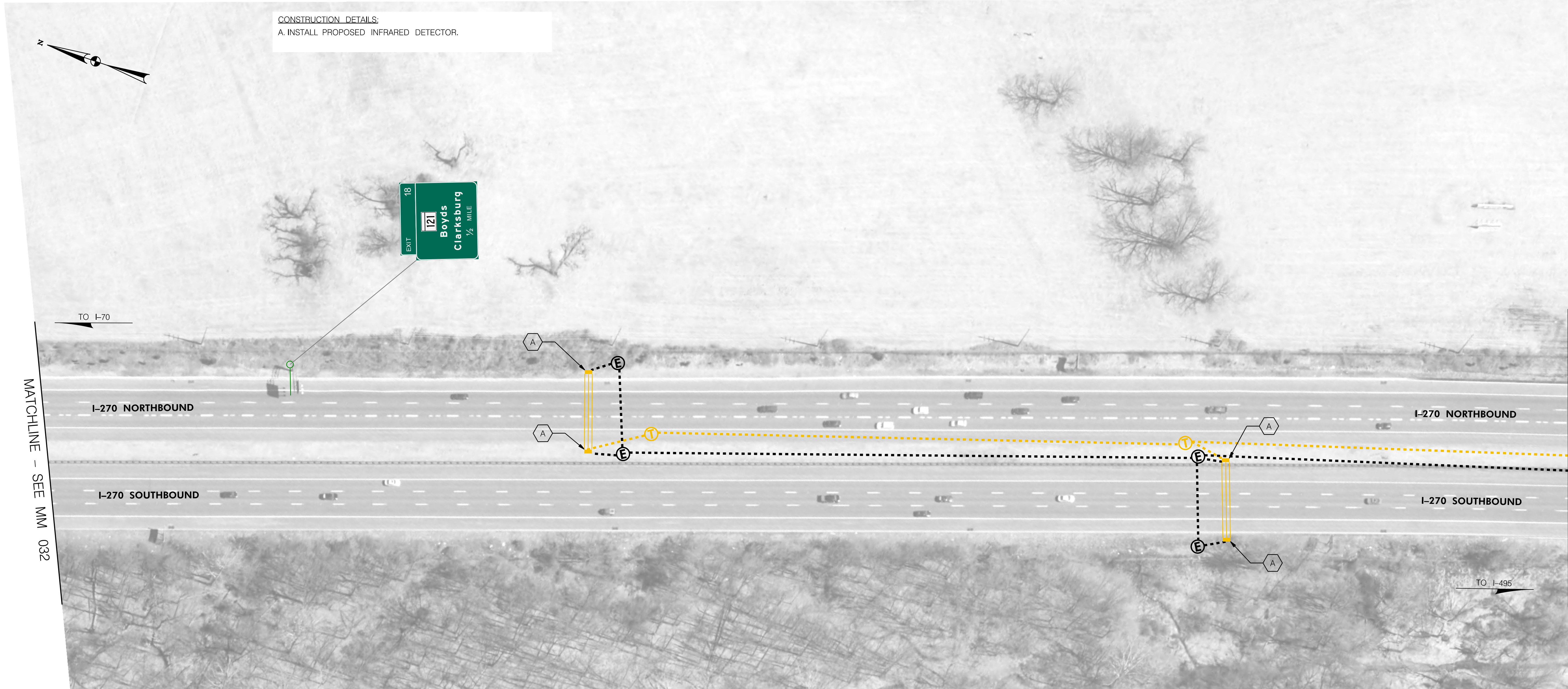
MM 032 OF 108

PLOTTED: Monday, January 16, 2017 AT 05:55 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P032_IS270.dgn



BORDER REV. DATE: March 27, 2007

BY: roachve -



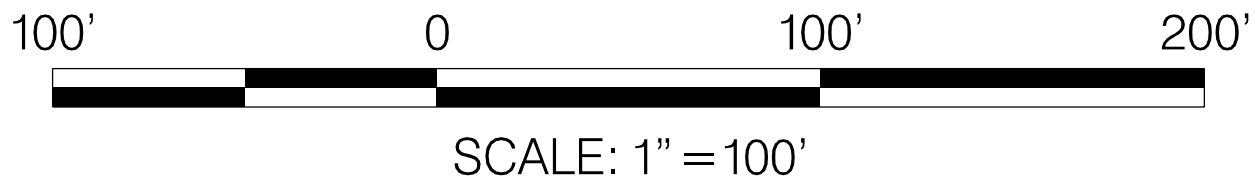
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.

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			



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 MD 121

DATE: JANUARY 19, 2017

MM 033 OF 108

PLOTTED: Monday, January 16, 2017 AT 05:58 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P033_IS270.dgn

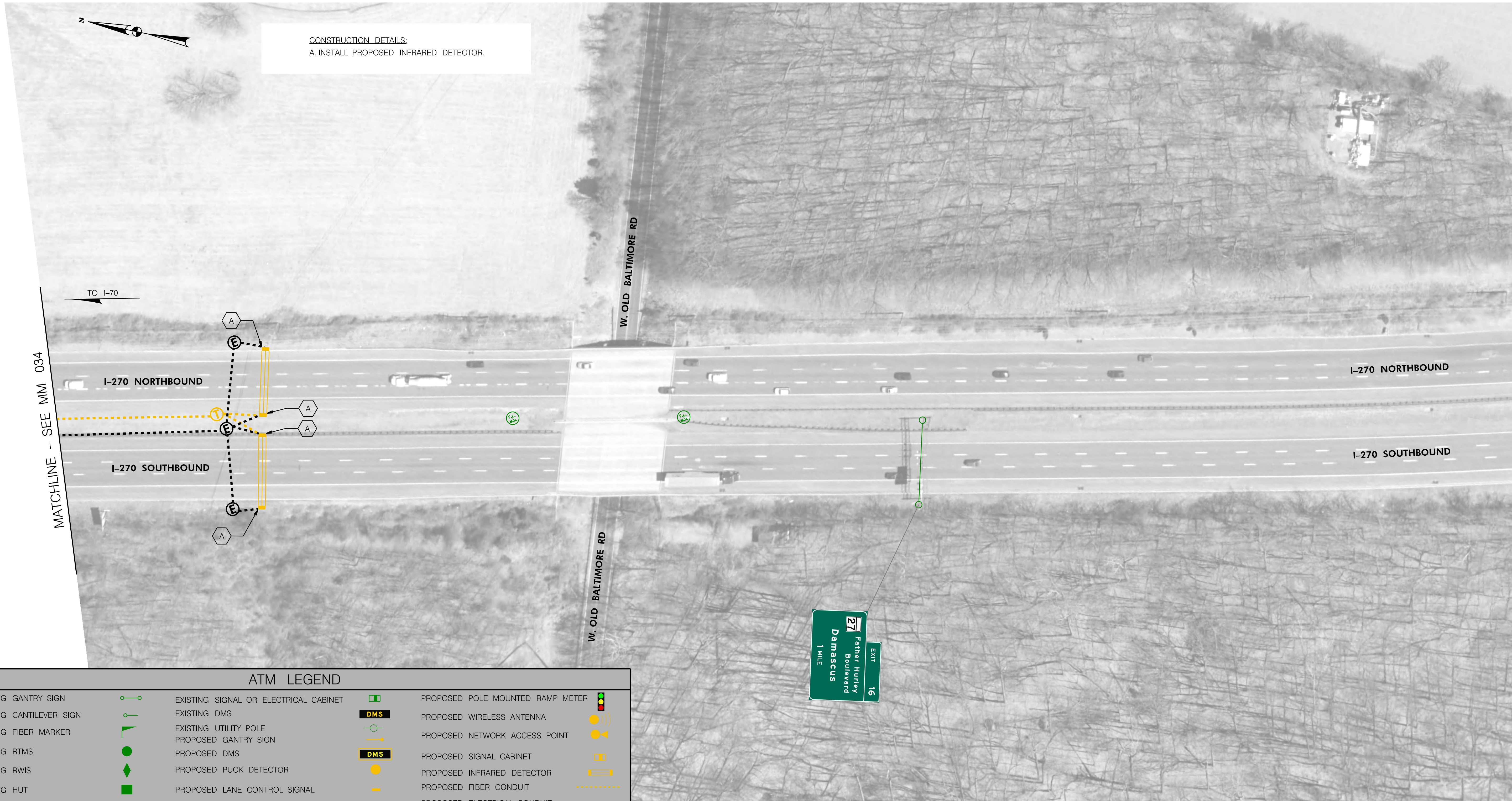
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



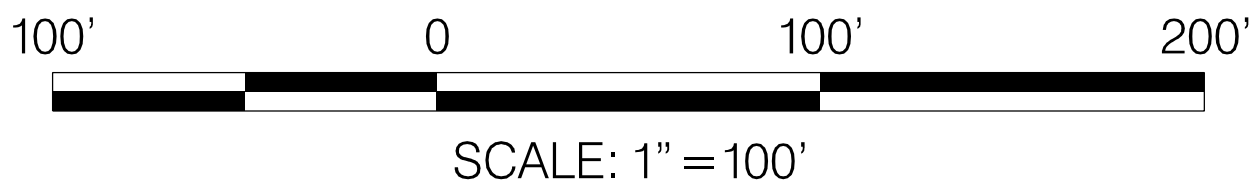
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		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 - W. OLD BALTIMORE RD

DATE: JANUARY 19, 2017

MM 035 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:03 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P035_IS270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -



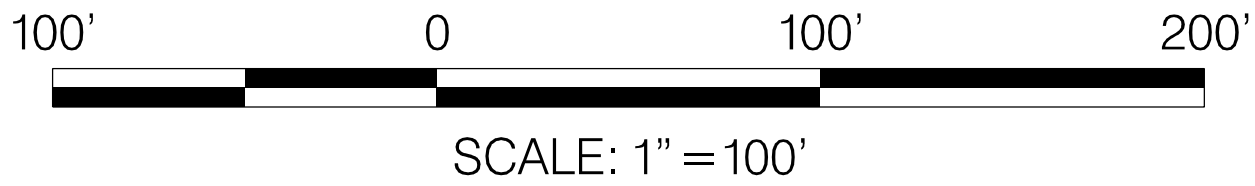
ATM LEGEND

EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		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			

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 OF W. OLD BALTIMORE RD

DATE: JANUARY 19, 2017

MM 036 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:06 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p036_IS270.dgn

DRILL HOLES

DRILL HOLES

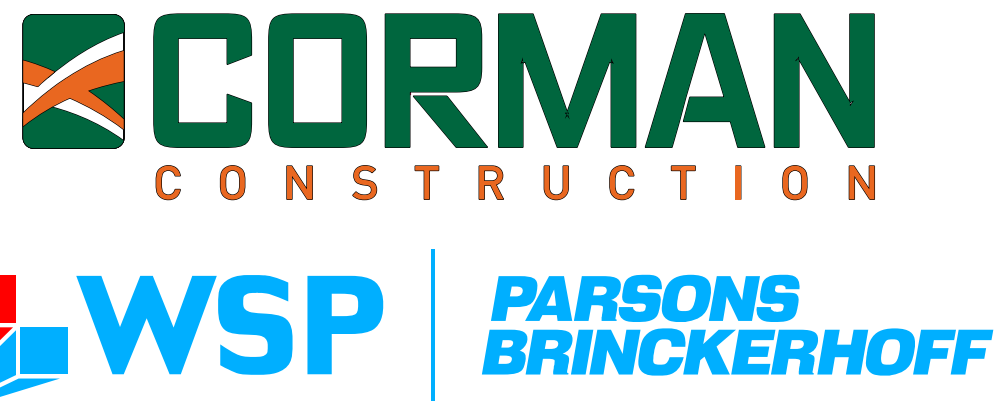
DRILL HOLES

BORDER REV. DATE: March 27, 2007

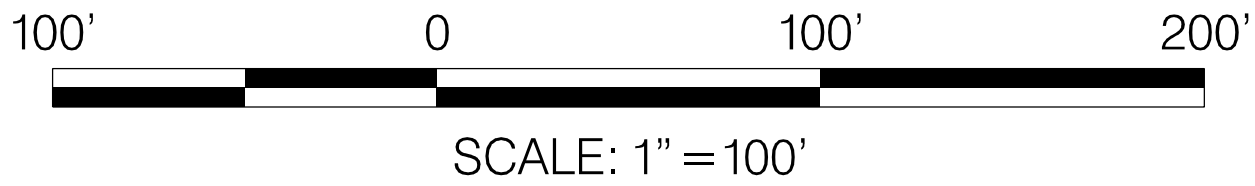
BY: roachve -



ATM LEGEND					
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		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			




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 3
I-270 – LITTLE SENECA CREEK

DATE: JANUARY 19, 2017MM 037 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:09 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P037_IS270.dgn

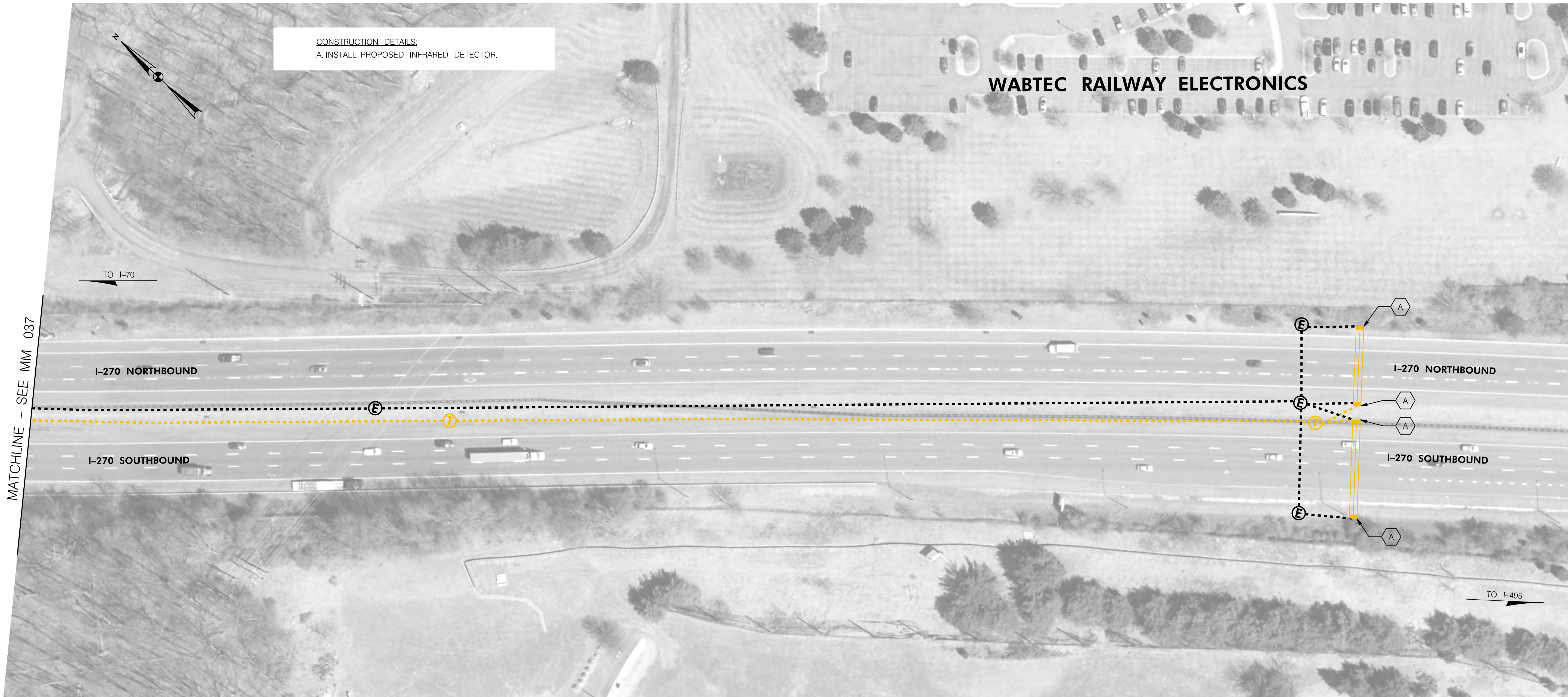
DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roache -



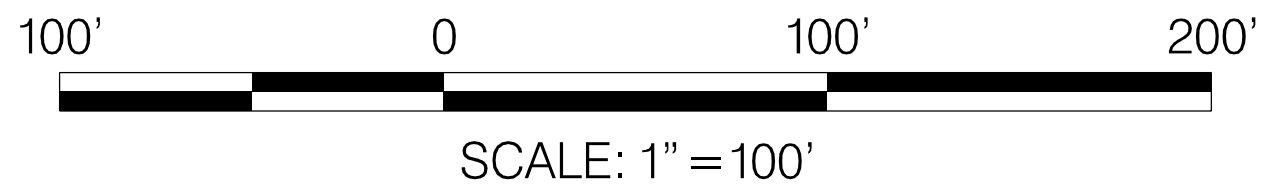
ATM LEGEND

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 - NORTH OF FATHER HURLEY BLVD

DATE: JANUARY 19, 2017

MM 038 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:12 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P038_I270.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: roachve -

MATCHLINE - SEE MM 038

MATCHLINE - SEE MM 040

MATCHLINE - SEE MM 094

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:

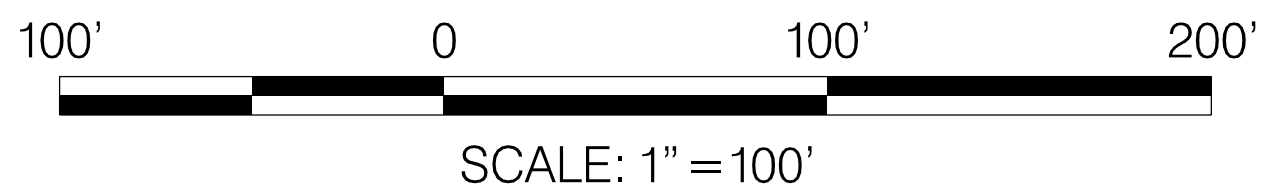
- A. INSTALL PROPOSED INFRARED DETECTOR.
- B. INSTALL PROPOSED PUCK DETECTOR.
- C. INSTALL PROPOSED RAMP METER SIGNAL HEAD ON 14' PEDESTAL POLE.
- D. INSTALL PROPOSED RAMP METERING CABINET.
- E. INSTALL PROPOSED NETWORK ACCESS POINT.
- F. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.



CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**

DRAFT PLANS



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 3
I-270 - FATHER HURLEY BLVD/RIDGE RD

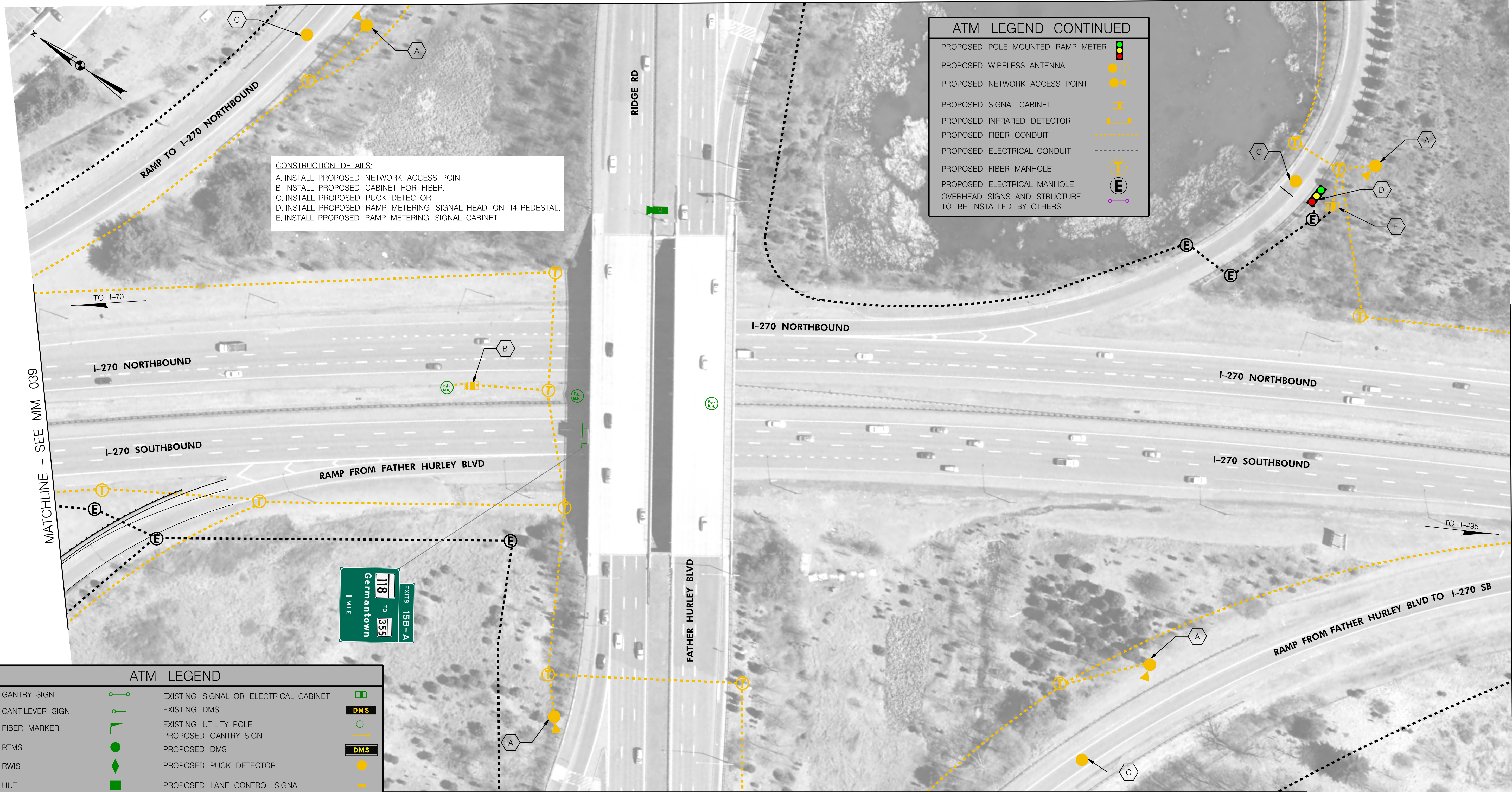
DATE: JANUARY 19, 2017

MM 039 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 04:12 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p1-P039_IS270.dgn



MATCHLINE - SEE MM 093



CONSTRUCTION DETAILS:
A. INSTALL PROPOSED NETWORK ACCESS POINT.
B. INSTALL PROPOSED CABINET FOR FIBER.
C. INSTALL PROPOSED PUCK DETECTOR.
D. INSTALL PROPOSED RAMP METERING SIGNAL HEAD ON 14' PEDESTAL.
E. INSTALL PROPOSED RAMP METERING SIGNAL CABINET.

ATM LEGEND CONTINUED	
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	

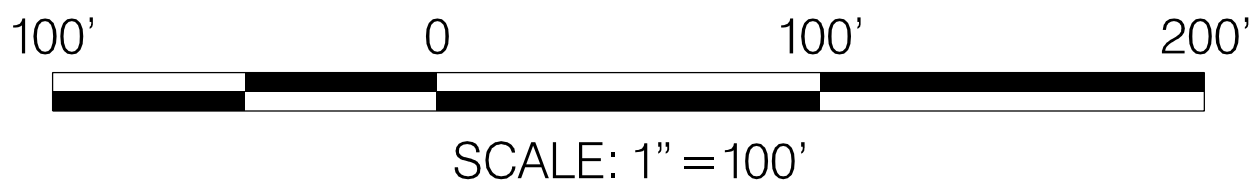
ATM LEGEND			
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET	
EXISTING CANTILEVER SIGN		EXISTING DMS	
EXISTING FIBER MARKER		EXISTING UTILITY POLE	
EXISTING RTMS		PROPOSED GANTRY SIGN	
EXISTING RWIS		PROPOSED DMS	
EXISTING HUT		PROPOSED PUCK DETECTOR	
EXISTING NIRS		PROPOSED LANE CONTROL 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	

MATCHLINE - SEE MM 094

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 - FATHER HURLEY BLVD/RIDGE RD

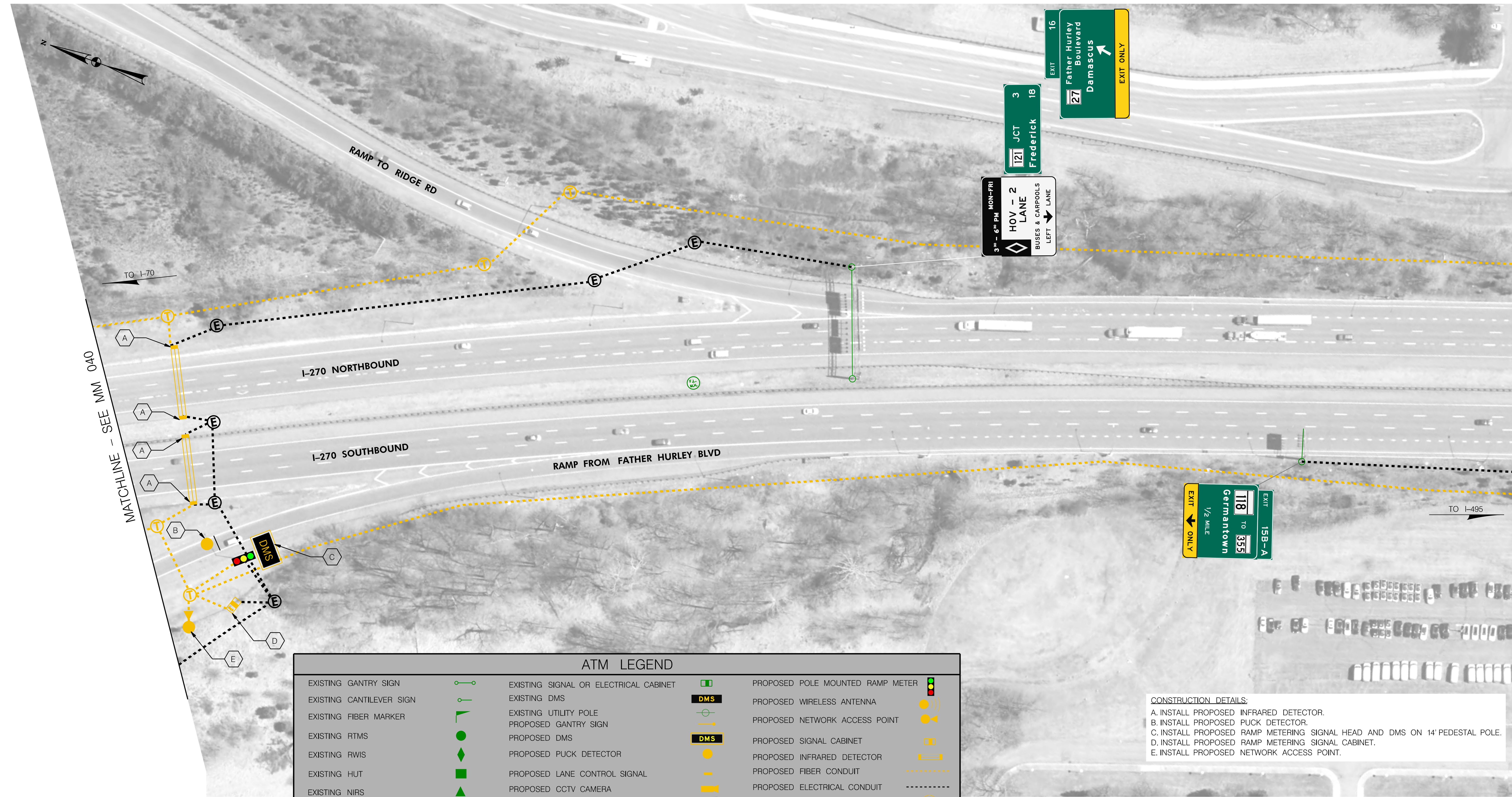
DATE: JANUARY 19, 2017

MM 040 OF 108

DRILL HOLES

BORDER REV. DATE: March 27, 2007

BY: shamsr

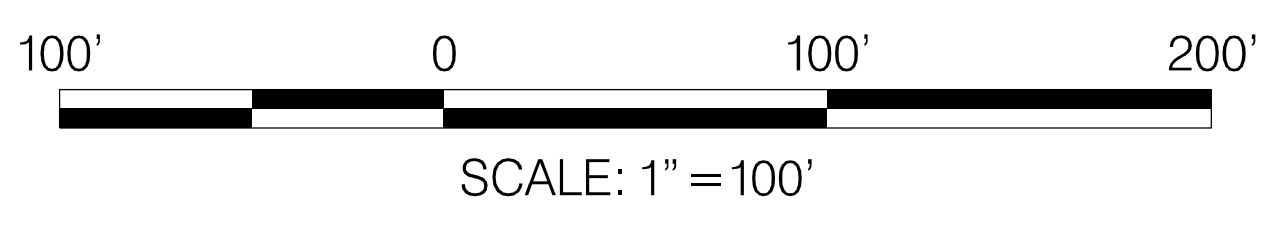


ATM LEGEND					
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED 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 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 PUCK DETECTOR.
C. INSTALL PROPOSED RAMP METERING SIGNAL HEAD AND DMS ON 14' PEDESTAL POLE.
D. INSTALL PROPOSED RAMP METERING SIGNAL CABINET.
E. INSTALL PROPOSED NETWORK ACCESS POINT.




DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

REVISIONS



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

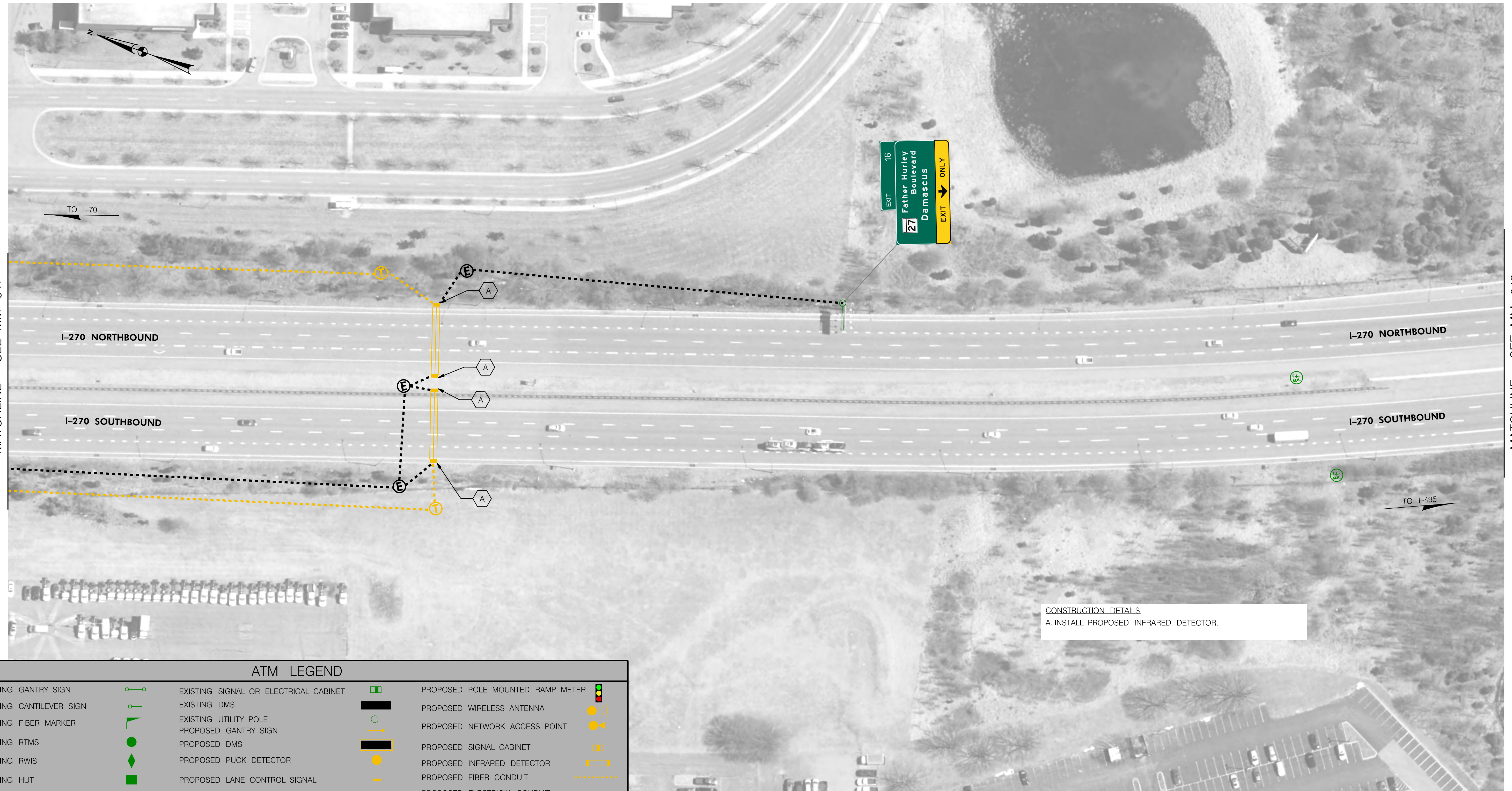
I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS
































SEGMENT 3
I-270 – SOUTH OF FATHER HURLEY BLVD

DATE: JANUARY 19, 2017MM 041 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 10:32 AM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p041_B270.dgn

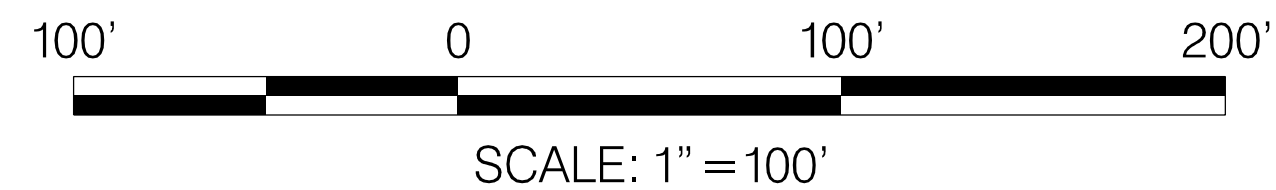
MATCHLINE – SEE MM 042




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			



DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

		 STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION INNOVATIVE CONTRACTING DIVISION	
REVISIONS		I-270 INNOVATIVE CONGESTION MANAGEMENT MANAGED MOTORWAYS SEGMENT 3 I-270 – NORTH OF MD 118	
		DATE: JANUARY 19, 2017	MM 042 OF 108

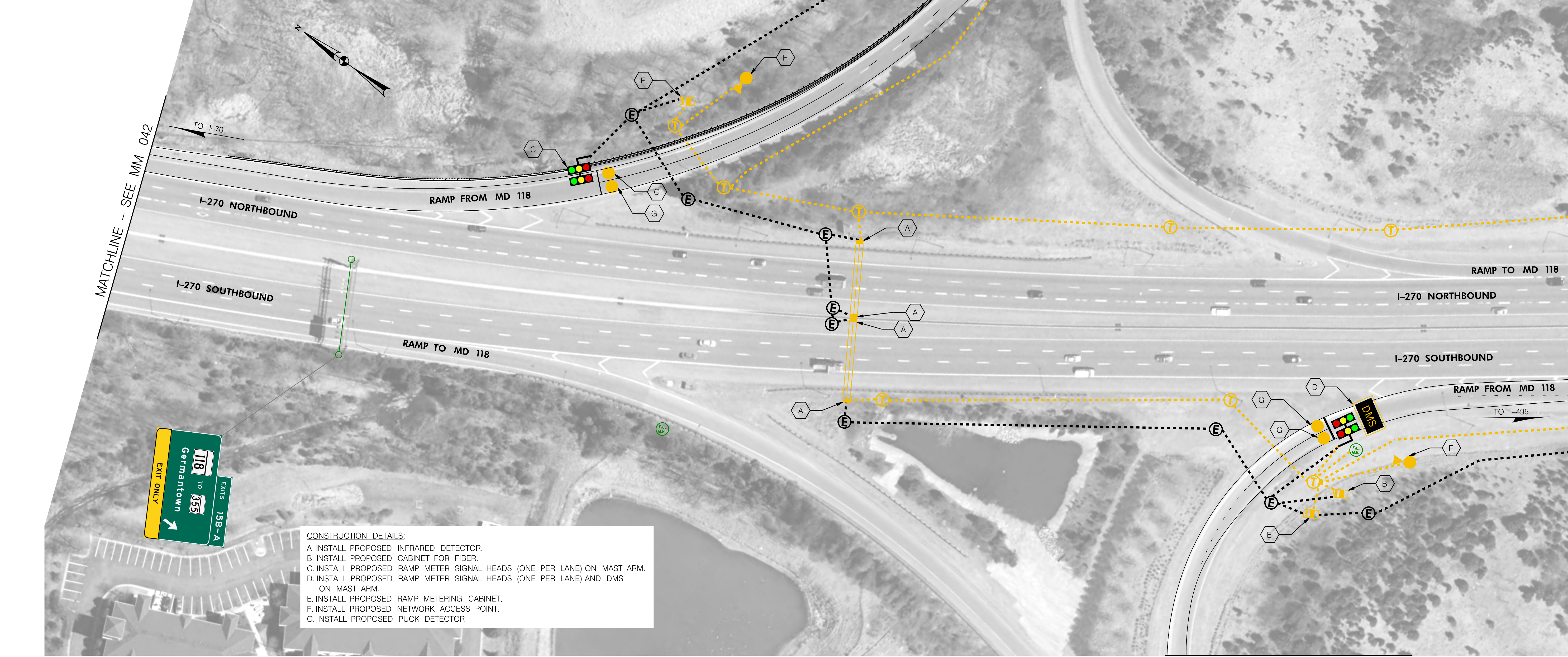
FILE: J:\201510144 - I-270 ATM\Tech Proposal\CADD\Roll Maps\ATM\50 Scale Plans\pIT-P042_IS270.dgn

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	

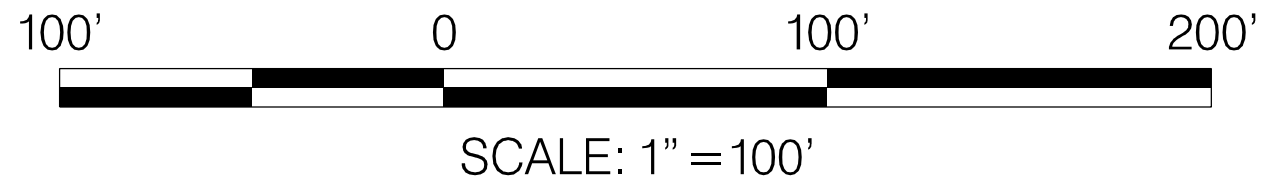


CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED CABINET FOR FIBER.
C. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) ON MAST ARM.
D. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.
E. INSTALL PROPOSED RAMP METERING CABINET.
F. INSTALL PROPOSED NETWORK ACCESS POINT.
G. INSTALL PROPOSED PUCK DETECTOR.

CORMAN
CONSTRUCTION

WSP | **PARSONS BRINCKERHOFF**


DRAFT PLANS



DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

MATCHLINE - SEE MM 096

REVISIONS



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

I-270 INNOVATIVE CONGESTION MANAGEMENT
MANAGED MOTORWAYS

SEGMENT 3
I-270 - MD 118 (GERMANTOWN RD)

DATE: JANUARY 19, 2017MM 043 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 04:16 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p043_I270.dgn

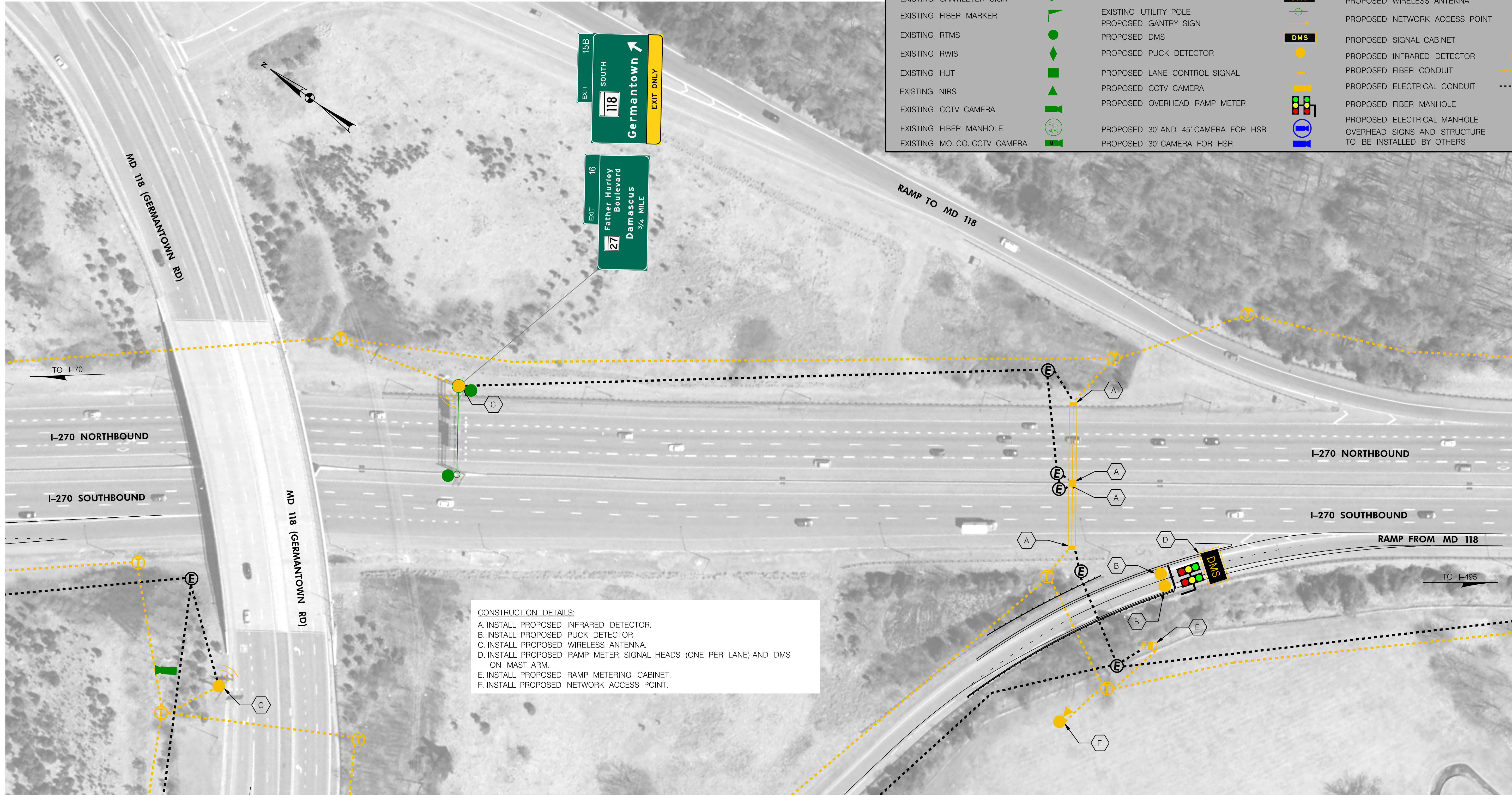


BORDER REV. DATE: March 27, 2007

BY: roachve -

MATCHLINE - SEE MM 043

MATCHLINE - SEE MM 045



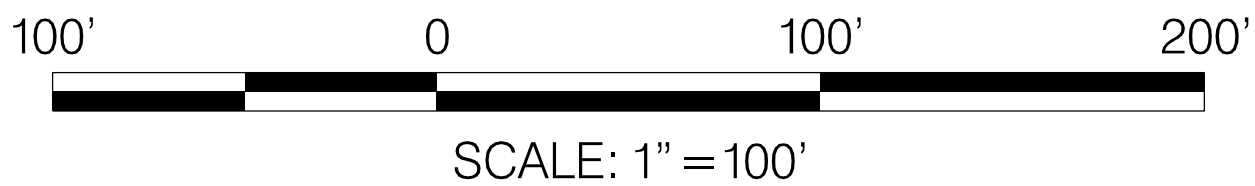
CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED PUCK DETECTOR.
C. INSTALL PROPOSED WIRELESS ANTENNA.
D. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) AND DMS ON MAST ARM.
E. INSTALL PROPOSED RAMP METERING CABINET.
F. INSTALL PROPOSED NETWORK ACCESS POINT.

MATCHLINE - SEE MM 096

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 - MD 118 (GERMANTOWN RD)

DATE: JANUARY 19, 2017MM 044 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:30 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\p044_IS270.dgn

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			

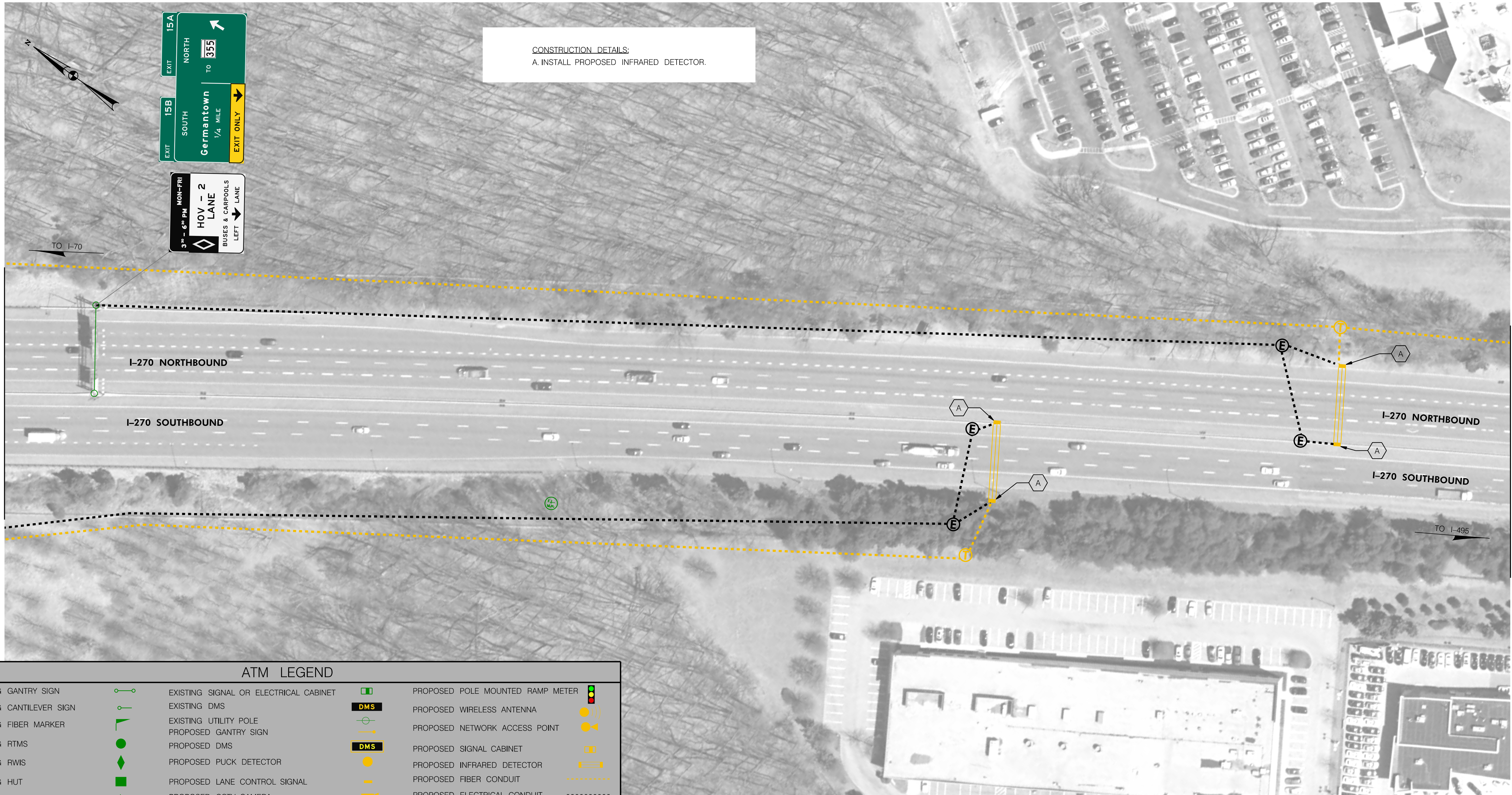


BORDER REV. DATE: March 27, 2007

BY: roachve -

MATCHLINE - SEE MM 044

MATCHLINE - SEE MM 046



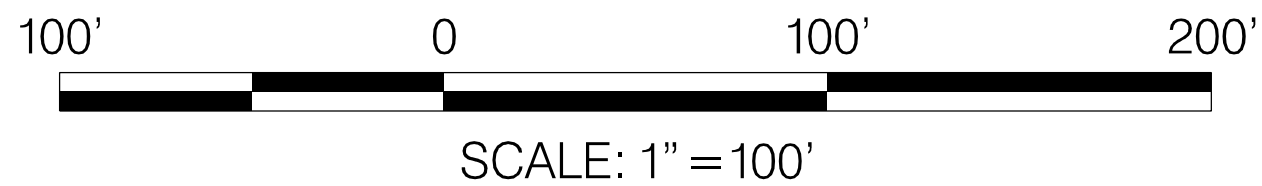
ATM LEGEND

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			

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 MIDDLEBROOK RD

DATE: JANUARY 19, 2017

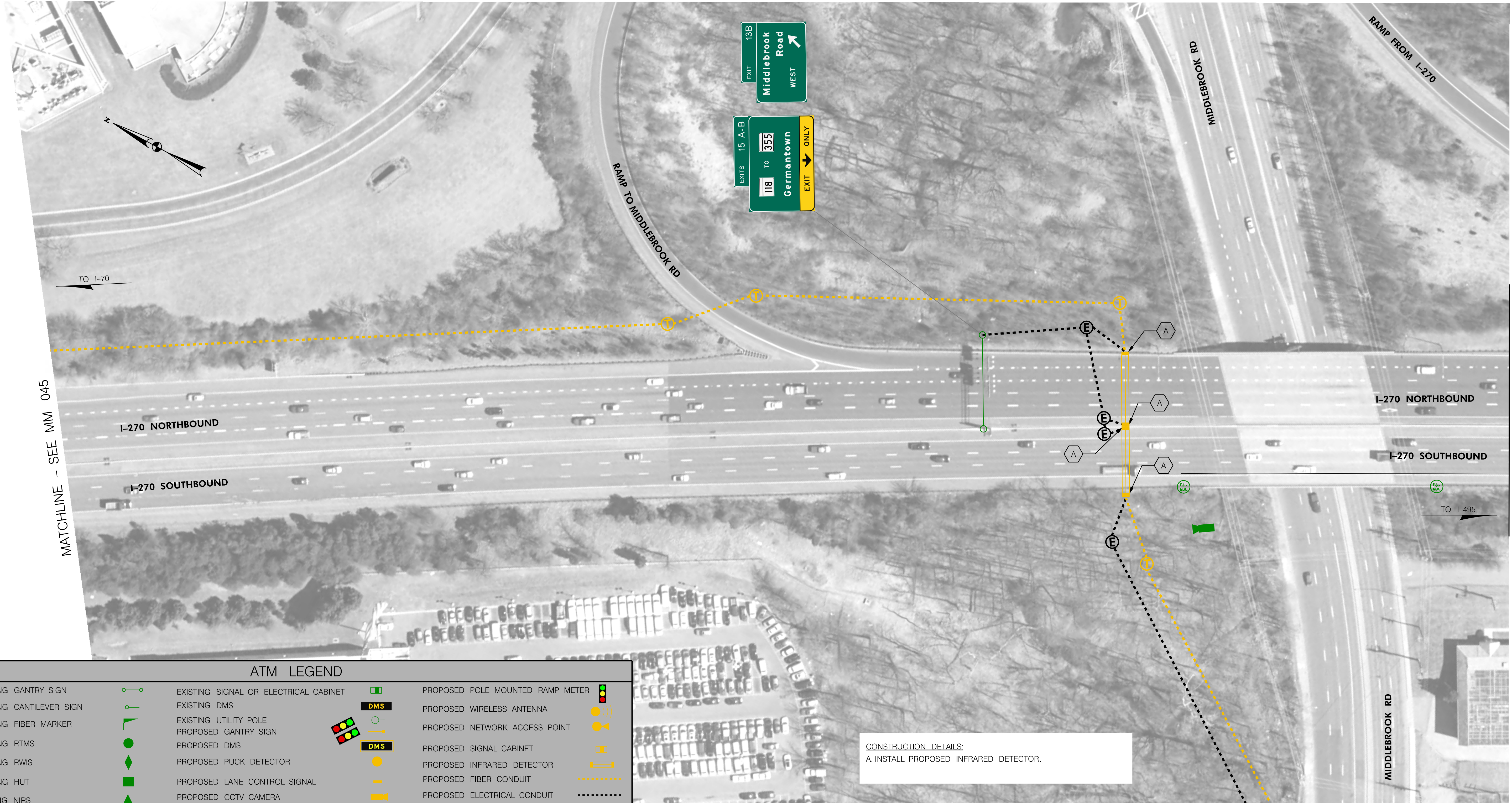
MM 045 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:33 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P045_I270.dgn



BORDER REV. DATE: March 27, 2007

BY: roachve -



ATM LEGEND

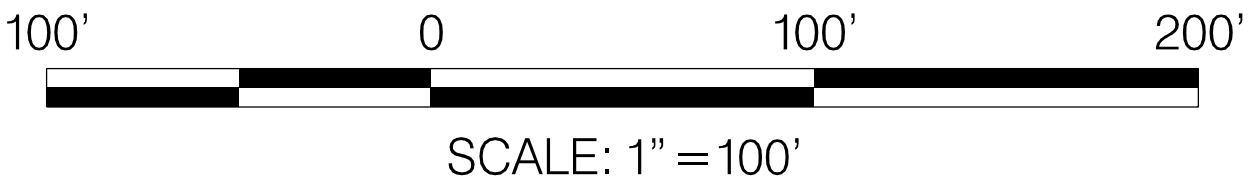
EXISTING GANTRY SIGN		EXISTING SIGNAL OR ELECTRICAL CABINET		PROPOSED POLE MOUNTED RAMP METER	
EXISTING CANTILEVER SIGN		EXISTING DMS		PROPOSED WIRELESS ANTENNA	
EXISTING FIBER MARKER		EXISTING UTILITY POLE		PROPOSED NETWORK ACCESS POINT	
EXISTING RTMS		PROPOSED GANTRY SIGN		PROPOSED SIGNAL CABINET	
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			

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.

MATCHLINE - SEE MM 097



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 - MIDDLEBROOK RD

DATE: JANUARY 19, 2017

MM 046 OF 108

PLOTTED: Monday, January 16, 2017 AT 06:36 PM
FILE: J:\2015\0144 - I-270 ATM\Tech Proposals\CADD\Roll Maps\ATM\50 Scale Plans\pdt-P046_I270.dgn

MATCHLINE - SEE MM 047

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	

MATCHLINE - SEE MM 046

MATCHLINE - SEE MM 048

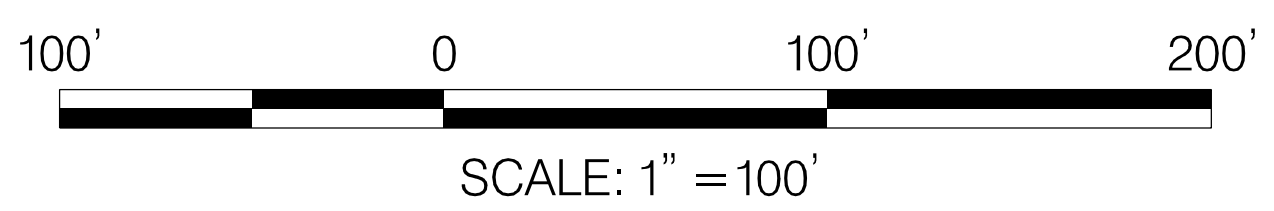
MATCHLINE - SEE MM 097

CONSTRUCTION DETAILS:
A. INSTALL PROPOSED INFRARED DETECTOR.
B. INSTALL PROPOSED CABINET FOR FIBER.
C. INSTALL PROPOSED RAMP METER SIGNAL HEADS (ONE PER LANE) ON MAST ARM.
D. INSTALL PROPOSED RAMP METERING CABINET.
E. INSTALL PROPOSED NETWORK ACCESS POINT.
F. INSTALL PROPOSED PUCK DETECTOR.

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CONSTRUCTION

WSP
PARSONS
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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 MIDDLEBROOK RD

DATE: JANUARY 19, 2017MM 047 OF 108

PLOTTED: Tuesday, January 17, 2017 AT 07:24 PM
FILE: J:\2015\10144 - I-270 ATM\Tech. Proposal\CAD\RollMaps\ATM\50 Scale Plans\p17-P047_I270.dgn