DRILL HOLES

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Revision Date: June 3, 2004

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNALS AT THE INTERSECTIONS OF NB MD 3 AND SB MD 3 AT MD 175 IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE WIDENING OF MD 3 & MD 175. MD 3 IS ASSUMED TO RUN IN A NORTH–SOUTH DIRECTION.

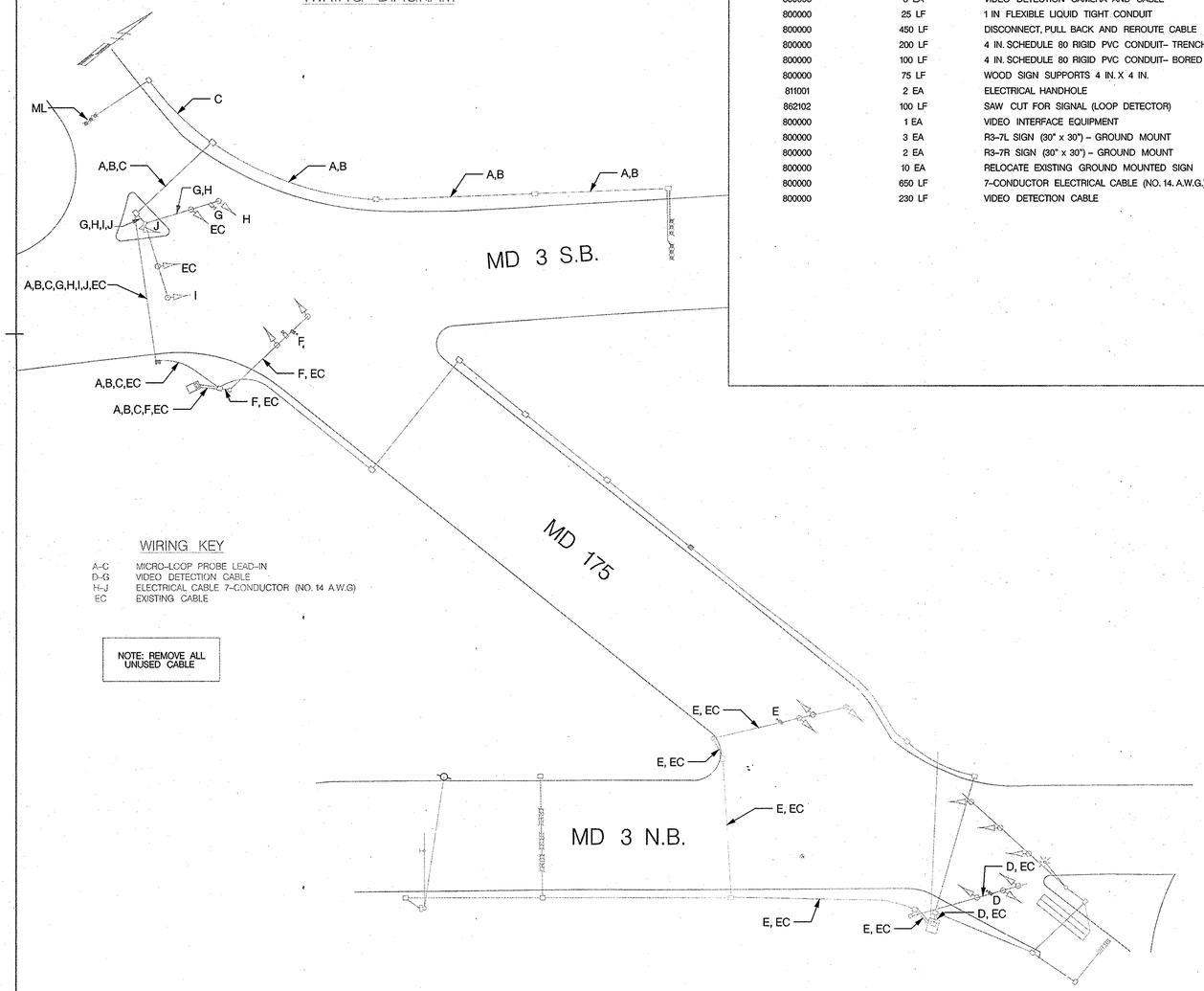
INTERSECTION OPERATION

BOTH INTERSECTIONS CURRENTLY OPERATE IN A NEMA THREE–PHASE, FULLY ACTUATED MODE. THIS OPERATION WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT–PHASE, FULLY–ACTUATED CONTROLLERS HOUSED IN A NEMA "6" BASE MOUNTED CABINETS WILL BE USED.

WIRING DIAGRAM



WIRING KEY

A–C	MICRO–LOOP PROBE LEAD–IN
D–G	VIDEO DETECTION CABLE
H–J	ELECTRICAL CABLE 7–CONDUCTOR (NO. 14 A.W.G)
EC	EXISTING CABLE

NOTE: REMOVE ALL UNUSED CABLE

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
100000	LS	MAINTENANCE OF TRAFFIC
500000	5000 LF	5 INCH HEAT APPLIED WHITE OR YELLOW THERMOPLASTIC PAVEMENT MARKING
585462	400 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS – ANY WIDTH
585624	125 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
585626	12 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS
585630	5 EA	HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS
800000	3 EA	MICRO–LOOP PROBE
800000	LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
800000	3 EA	VIDEO DETECTION CAMERA AND CABLE
800000	25 LF	1 IN FLEXIBLE LIQUID TIGHT CONDUIT
800000	450 LF	DISCONNECT, PULL BACK AND REROUTE CABLE
800000	200 LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT– TRENCHED
800000	100 LF	4 IN. SCHEDULE 80 RIGID PVC CONDUIT– BORED
800000	75 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
811001	2 EA	ELECTRICAL HANDHOLE
862102	100 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	1 EA	VIDEO INTERFACE EQUIPMENT
800000	3 EA	R3–7L SIGN (30" x 30") – GROUND MOUNT
800000	2 EA	R3–7R SIGN (30" x 30") – GROUND MOUNT
800000	10 EA	RELOCATE EXISTING GROUND MOUNTED SIGN
800000	650 LF	7–CONDUCTOR ELECTRICAL CABLE (NO. 14. A.W.G.)
800000	230 LF	VIDEO DETECTION CABLE

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787–7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN
ASSISTANT DISTRICT ENGINEER – TRAFFIC
(410) 841–1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER – MAINTENANCE
(410) 841–1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER – UTILITIES
(410) 841–1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787–7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787–7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787–7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787–7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787–7652

PHASE CHART

S.B. MD 3 AND MD 175

	1	2	3	4	5	6	7	8	9
	Y	Y	R Y G	R Y S	R Y S	R Y G	R Y G	R Y G	R Y G
PHASE 2 & 6	Y	Y	G	G	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R
PHASE 4 & 8	Y	Y	R	R	G	G	G	G	G
4 & 8 CHANGE	Y	Y	R	R	Y	Y	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR

PHASE CHART

N.B. MD 3 AND MD 175

	1	2	3	4	5	6	7	8	9	14
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	RED FLASHER BLINKER
PHASE 2 INITIAL	G	G	G	R	R	R	R	R	R	FLSA
PHASE 2	G	G	G	R	R	R	R	R	R	SA
PHASE 2 CLEAR	G	G	G	R	R	R	R	R	R	FLRSA
2 CHANGE	Y	Y	Y	R	R	R	R	R	R	FLRSA
PHASE 4 & 8	R	R	R	G	G	G	G	G	G	FLRSA
4 & 8 CHANGE	R	R	R	Y	Y	Y	Y	Y	Y	FLRSA
FLASHING OPERATION	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	SA

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923–7101
FAX (410) 923–6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

N.B. AND S.B. MD 3 AT MD 175 / MILLERSVILLE RD

SCALE NONE DATE 9–4–2007 CONTRACT NO. BW996M82

DESIGNED BY T. ZAYDEL
DRAWN BY T. ZAYDEL
CHECKED BY K. SCHMID
F.A.P. NO. NA

COUNTY ANNE ARUNDEL
LOGMILE
T.I.M.S. NO.
TOD NO.

DRAWING NO. TS–179 + 180 GI

SHEET NO. 3 OF 4