EXISTING SIGNALS

1-10 11,12

R Y G

PROPOSED SIGNALS

13,15

16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

MD 103 IS CONSIDERED TO RUN IN A EAST WEST DIRECTION.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A CROSSWALK AND PEDESTRIAN INDICATIONS ON THE EAST LEG OF THE INTERSECTION. UPGRADES TO APS PUSHBUTTONS WILL ALSO BE MADE TO THE EXISTING PUSHBUTTONS ON THE EAST LEG.

EXISTING SIGNS

W3-3
2 EA 36"X36"
1 EA 48"X48"
TO BE REMOVED

19 W3-3 48"X48"

22 ONLY

21A Stonecrest Dr →
21B ← Stonecrest Dr
18A Wheatfield Way →
18B ← Wheatfield Way
DUAL FACED
D3-2

23A,23B
Montgomery Rd
D3-2
DUAL FACED

23 WEST MARYLAND 103 ←
24 EAST MARYLAND 103 →
25 EAST MARYLAND 103 ←
26 WEST MARYLAND 103 →

20 ← Wheatfield Way / Stonecrest Drive → NEXT SIGNAL
D3-2
48"X48"

17 ← Stonecrest Drive / Wheatfield Way → NEXT SIGNAL
D3-2
48"X48"

PROPOSED SIGNS

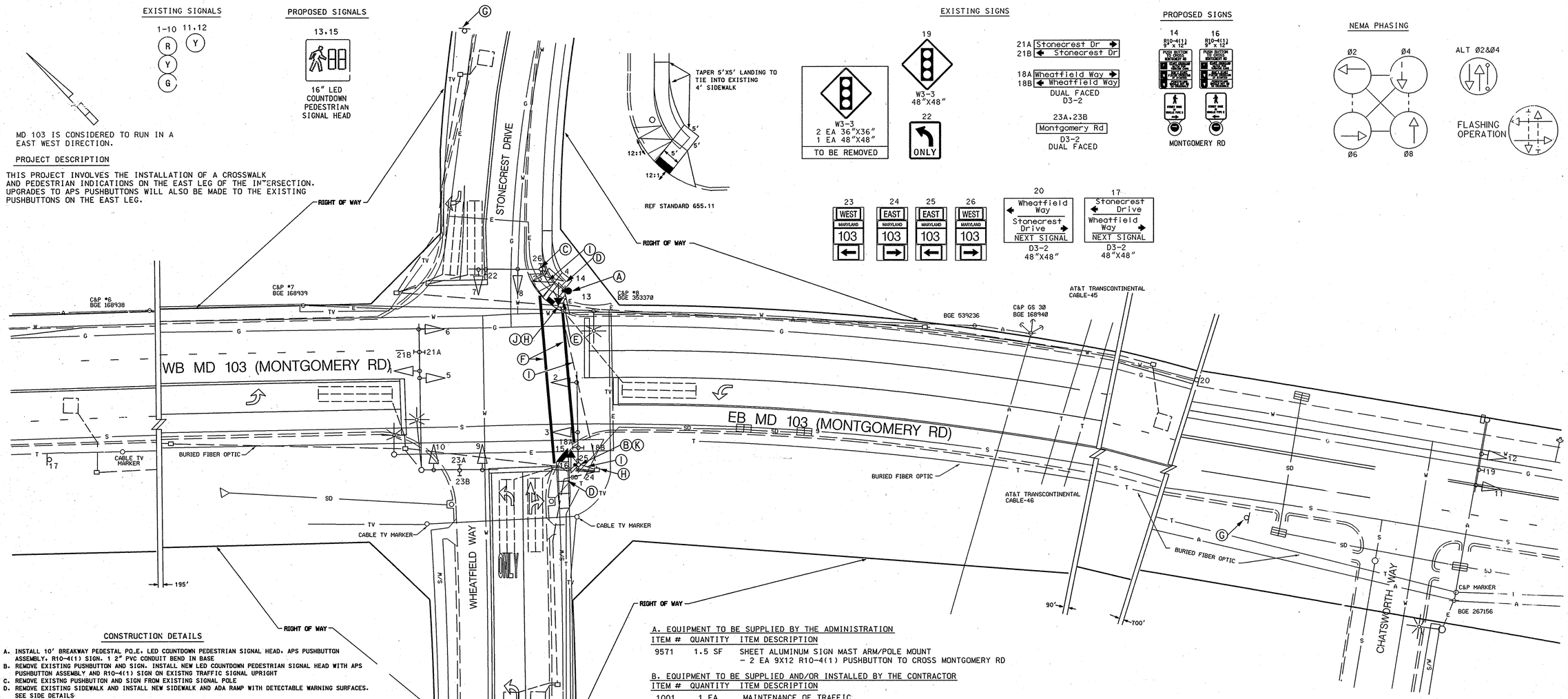
14 R10-4(1) 9" x 12" PUSH BUTTON ASSEMBLY 30 INCHES MAXIMUM TO BUTTON
16 R10-4(1) 9" x 12" PUSH BUTTON ASSEMBLY 30 INCHES MAXIMUM TO BUTTON
MONTGOMERY RD

NEMA PHASING

Ø2 Ø4 Ø6 Ø8

ALT Ø2&Ø4

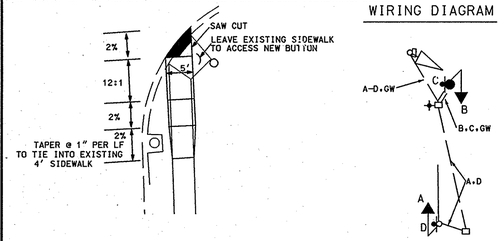
FLASHING OPERATION



CONSTRUCTION DETAILS

A. INSTALL 10' BREAKWAY PEDESTAL PO.E. LED COUNTDOWN PEDESTRIAN SIGNAL HEAD. APS PUSHBUTTON ASSEMBLY. R10-4(1) SIGN. 1 2" PVC CONDUIT BEND IN BASE
B. REMOVE EXISTING PUSHBUTTON AND SIGN. INSTALL NEW LED COUNTDOWN PEDESTRIAN SIGNAL HEAD WITH APS PUSHBUTTON ASSEMBLY AND R10-4(1) SIGN ON EXISTNG TRAFFIC SIGNAL UPRIGHT
C. REMOVE EXISTNG PUSHBUTTON AND SIGN FROM EXISTING SIGNAL POLE
D. REMOVE EXISTING SIDEWALK AND INSTALL NEW SIDEWALK AND ADA RAMP WITH DETECTABLE WARNING SURFACES. SEE SIDE DETAILS
E. INSTALL 2" RIGID PVC CONDUIT-TRENCHED
F. INSTALL 12" WHITE PREFORMED REFLECTIVE THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALK
G. REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS
H. USE EXISTING HANDBOX
I. USE EXISTING CONDUIT
J. ADJUST EXISTING HANDHOLE TO GRADE
K. ADJUST SHIELD ASSEMBLY TO ALLOW ROOM FOR PROPOSED PEDESTRIAN SIGNAL

WIRING DIAGRAM



UTILITY LEGEND

G G	GAS MAIN
W W	WATER MAIN
S S	SEWER MAIN
E E	ELECTRIC CABLES
A A	AERIAL CABLES
T T	TELEPHONE CABLES

A,B 5-CONDUCTOR #14AWG
C 2-CONDUCTOR #14AWG
D USE EXISTING 2-CONDUCTOR
GW #6 STRANDED BARE COPPER GROUND WIRE

PROJECT CONTACTS

MR. RICHARD DAFF
CHIEF, TRAFFIC OPER. DIV
410-787-7630

MR. JOHN CONCANNON
ASST DIST ENG-TRAFFIC
301-624-8140

MS. ANDREA ABEND
DIST UTILITY ENGINEER
301-624-8115

MR. ROBERT SNYDER
ASST DIV CHIEF, TOD
410-787-7630

MR. ED RODENHIZER
SUPER. SIGNAL OPERATIONS
410-787-7650

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION
9571	1.5 SF	SHEET ALUMINUM SIGN MAST ARM/POLE MOUNT - 2 EA 9X12 R10-4(1) PUSHBUTTON TO CROSS MONTGOMERY RD

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5004	125 LF	12" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
6001	35 LF	STANDARD TYPE "A" COMBINATION CURB AND GUTTER PAN 8 " DEPTH
6002	350 SF	4" CONCRETE SIDEWALK
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8005	1 EA	ADJUST EXISTING HANDHOLE TO GRADE
8008	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON
8009	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8014	2 EA	LED 16 INCH COUONTDOWN PEDSTRIAN SIGNAL HEAD
8022	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT PER ASSIGNMENT
8035	10 LF	SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8038	20 SF	DETECTABLE WARNING SURFACES
8039	1.5 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8041	30 LF	#6 STRANDED BARE COPPER GROUND WIRE
8054	35 LF	ELECTRICAL CABLE 2-CONDUCTOR #14 AWG
8056	160 LF	ELECTRICAL CABLE 5-CONDUCTOR #14 AWG

C. EQUIPMENT TO BE RETUNRED TO THE ADMINISTRATION

NONE

ALL EQUIPMENT REMOVED IN ACCORDANCE WITH THESE PLANS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

SPECIAL NOTES

1. THE CONTRACTOR SHALL DELIVER THE APS CENTRAL CONTROL UNIT TO MR ED RODENHIZER IN THE SHA SIGNAL SHOP FOR PROGRAMMNG PRIOR TO ITS INSTALLATION.
2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

TOD No.: AT783-17
SHA No.: HO377A57-B57
MD 103 @ Stonecrest Dr/Wheatfield Way

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 103 (MONTGOMERY RD) @ WHEATFIELD WAY/STONECREST DR

TRAFFIC SIGNAL PLAN

APPROVALS	
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS

D INSTALL APS ACROSS EAST LEG OF INTERSECTION H468 AT7835185 9/06
C 694 REBUILD LOOP DETECTORS TO STONECREST DR SHA #BW700-809-712
B AS BUILT 0694

WM	DJD	DAZ	DAZ FOR EMP	TH
WM				

SCALE 1:20 DATE 10-29-91 CONTRACT NO. H0-737-459-785
DESIGNED BY DB DOBRY (EAI) COUNTY HOWARD
DRAWN BY SK SHOUL (EAI) LOGMILE 13010306.24
CHECKED BY DJ DODA TIMS NO. H468
F.P. NO. TOD NO.
TS NO: 318-D DRAWING - OF SHEET NO. 1 OF 2

PLOTTED: Tuesday, June 20, 2006 at 10:04:32 AM
FILE: MD 103-2d.dgn

BY: cstrain