CONSTRUCTION DETAILS

(A) INSTALL 15 FT "T" STEEL POLE (SHA STANDARD NO. MD 818.13-01) WITH 70 FOOT MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE PUSHBUTTON STATION AND SIGN, AND PEDESTRIAN EDUCATION SIGN. (NOTE: 2-3 IN. PVC CONDUIT BENDS).

(B) INSTALL 15 FT "T" STEEL POLE (SHA STANDARD NO. MD 818.13-01) WITH 60 FOOT MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE PUSHBUTTON STATION AND SIGN, AND PEDESTRIAN EDUCATION SIGN. (NOTE: 1-3 IN. PVC CONDUIT BEND).

(C) INSTALL 15 FT "T" STEEL POLE (SHA STANDARD NO. MD 818.13-01) WITH 50 FOOT MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE PUSHBUTTON STATION AND SIGN, AND PEDESTRIAN EDUCATION SIGN. (NOTE: 1-3 IN. PVC CONDUIT BEND).

(D) INSTALL 10 FT BREAKAWAY PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION AND SIGN. USE SHALLOW PEDESTAL FOUNDATION. (SHA STANDARD NO. MD 801.01) (NOTE: 1-3 IN. PVC CONDUIT BEND).

(E) INSTALL 5 FT STUB BREAKAWAY PEDESTAL POLE WITH AUDIBLE PUSHBUTTON STATION AND SIGN. USE SHALLOW PEDESTAL FOUNDATION. (SHA STANDARD NO. MD 801.01) (NOTE: 1-3 IN. PVC CONDUIT BEND).

(F) INSTALL NEMA SIZE 6 BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT, (NOTE: INSTALL 2-2 IN. AND 2-4 IN. PVC CONDUIT BENDS).

(G) INSTALL METERED SERVICE PEDESTAL FOR ELECTRICAL UTILITY SERVICE EQUIPMENT AS SHOWN.

(H) INSTALL 3 IN PVC RISER. STUB CONDUIT AT POLE BASE - PEPCO TO MAKE FINAL CONNECTION.

(J) INSTALL ELECTRICAL HANDHOLE.

(K) USE EXISTING ELECTRICAL HANDHOLE.

(L) REMOVE EXISTING HANDHOLE, CAP AND ABANDON CONDUIT.

(M) INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.

(N) INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - SLOTTED.

(O) INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.

(P) INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) WITH 35' OF 3 WIRE, 1 CONDUCTOR (NO. 250 KCMIL) FOR POWER SERVICE COILED AT BASE OF UTILITY POLE FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.

(Q) REROUTE INTERCONNECT CABLES TO NEW CONTROLLER AND CONTINUE OVERHEAD THROUGH PEPCO POLE 764447-6930 TO NORTH AND SOUTH.

MD 355 (ROCKVILLE PIKE) IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

TOD NO:AT910-27
SHA NO:MO579A5E/B5E
MD 355@ HALPINE RD

PROPOSED SIGNS

29 — Rockville Pike — NORTH ← MARYLAND 355 → SOUTH — D-3(2) (VAR.X16") — M95-1 78" X 24"

30 — Rockville Pike — SOUTH ← MARYLAND 355 → NORTH — D-3(2) (VAR.X16") — M95-1 78" X 24"

31,32 — Halpine RD — D-3(2) (VAR.X16")

33 — ONLY — R3-5L 30" X 36"

34 — ONLY — R3-5R 30" X 36"

35,36 37 — R4-7 24" X 30"

38 — RIGHT LANE MUST TURN RIGHT EXCEPT BUSES — R3-7R 30" X 40"

PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

R10 MOD 9" X 15"

21,22 ROCKVILLE PIKE — 23,24 ROCKVILLE PIKE — 25,26 HALPINE ROAD — 28,27 HALPINE ROAD

EXISTING SIGNS TO BE REMOVED

HALPINE RD — RIGHT LANE MUST TURN RIGHT EXCEPT BUSES — ONLY — ONLY

EXISTING SIGNALS TO BE REMOVED

12" — 12" — 12"

PROPOSED L.E.D. SIGNALS

(ALL SIGNAL HEADS TO HAVE BLACK FACES)

1,2 4,5 — 12" — 3,6,7,8 9,10,11,12 — 12"

PROPOSED PED. SIGNALS

13-20 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

NEMA PHASING

Ø1 Ø2 Ø4 Ø4 ALT. Ø5 Ø6 Ø8 Ø8 ALT. — FLASHING OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

EXISTING VIDEO DETECTION CAMERA TO BE REMOVED

PROPOSED VIDEO DETECTION CAMERA — a,b,c,d — VIDEO DETECTION CAMERA — a — DETECTION ZONE

CONSTRUCTION DETAILS (CONTD.)

(R) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP (SHA STANDARD NO. MD 655.11) WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03).

(S) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP (SHA STANDARD NO. MD 655.12) WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03).

(T) INSTALL 4 IN. CONCRETE SIDEWALK WITH SIDEWALK RAMP (SHA STANDARD NO.MD 655.13) WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO. MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03).

(U) REPLACE EXISTING SIDEWALK/ PEDESTRIAN RAMP WITH NEW 4 IN. CONCRETE SIDEWALK. NEW SIDEWALK SHALL BE FLUSH WITH EXISTING SIDEWALK.

(V) REMOVE EXISTING PAVEMENT MARKINGS.

(W) INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.

(X) INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.

(Y) INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.

(Z) INSTALL HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW.

(AA) INSTALL HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTERS.

(BB) REMOVE EXISTING STRAIN POLE AND FOUNDATION 12" BELOW GRADE. REMOVE EXISTING SPAN WIRE AND ALL ATTACHED EQUIPMENT, CAP AND ABANDON EXISTING CONDUIT. REMOVE EXISTING PUSHBUTTONS, PEDESTRIAN SIGNAL HEADS, SIGNS AND RELATED ATTACHMENTS. REMOVE EXISTING VIDEO CAMERA.

(CC) REMOVE AND DISPOSE EXISTING CONTROLLER CABINET. CAP AND ABANDON EXISTING CONDUIT.

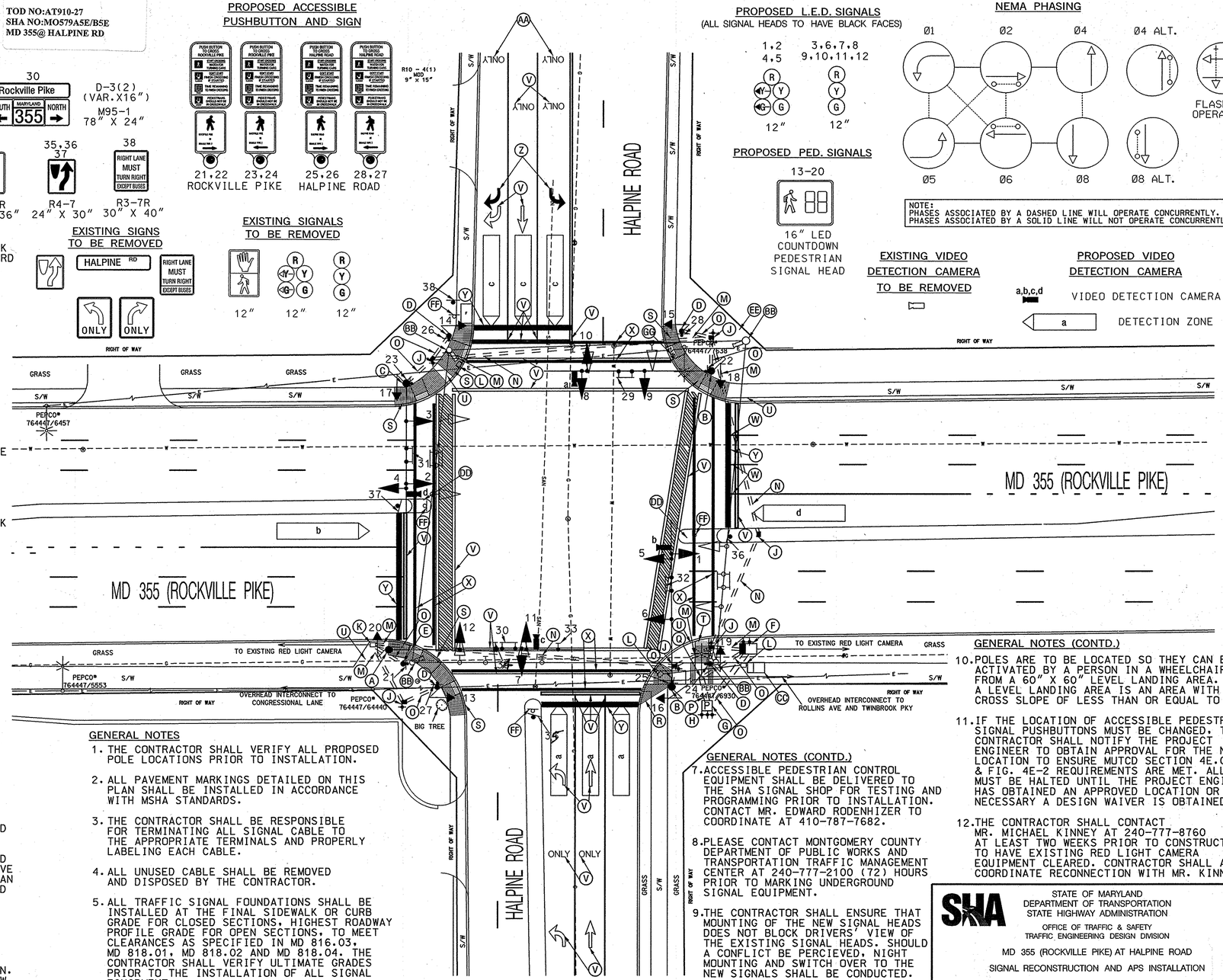
(DD) REMOVE EXISTING MEDIAN AS SHOWN. INSTALL NEW 4 IN. CONCRETE. NEW CONCRETE SHALL BE FLUSH WITH ROADWAY PAVEMENT.

(EE) REMOVE AND RESET BRICK PAVERS AFTER CONSTRUCTION.

(FF) REMOVE EXISTING SIGN.

(GG) ADJUST MANHOLE TO NEW SIDEWALK LEVEL.

(HH) SEE SHEET 2 FOR DIMENSIONS.



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL PAVEMENT MARKINGS DETAILED ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
4. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02 AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

GENERAL NOTES (CONTD.)

7. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER TO COORDINATE AT 410-787-7682.
8. PLEASE CONTACT MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION TRAFFIC MANAGEMENT CENTER AT 240-777-2100 (72) HOURS PRIOR TO MARKING UNDERGROUND SIGNAL EQUIPMENT.
9. THE CONTRACTOR SHALL ENSURE THAT MOUNTING OF THE NEW SIGNAL HEADS DOES NOT BLOCK DRIVERS' VIEW OF THE EXISTING SIGNAL HEADS. SHOULD A CONFLICT BE PERCIEVED, NIGHT MOUNTING AND SWITCH OVER TO THE NEW SIGNALS SHALL BE CONDUCTED.

GENERAL NOTES (CONTD.)

10. POLES ARE TO BE LOCATED SO THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60" X 60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. IF THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST BE CHANGED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER TO OBTAIN APPROVAL FOR THE NEW LOCATION TO ENSURE MUTCD SECTION 4E.09 & FIG. 4E-2 REQUIREMENTS ARE MET. ALL WORK MUST BE HALTED UNTIL THE PROJECT ENGINEER HAS OBTAINED AN APPROVED LOCATION OR IF NECESSARY A DESIGN WAIVER IS OBTAINED.
12. THE CONTRACTOR SHALL CONTACT MR. MICHAEL KINNEY AT 240-777-8760 AT LEAST TWO WEEKS PRIOR TO CONSTRUCTION TO HAVE EXISTING RED LIGHT CAMERA EQUIPMENT CLEARED. CONTRACTOR SHALL ALSO COORDINATE RECONNECTION WITH MR. KINNEY.

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

BY: hogallo

Edwards AND Kelcey
5523 Research Park Drive
Suite 110
Baltimore, Maryland 21228
410-747-3420

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
APPROVAL ON FILE

REVISIONS
(B) 1/1/2007 RECONSTRUCT TRAFFIC SIGNAL AND INSTALL MAST ARMS/APS. SHA# AT910518 5
EK | HO | DAZ | JAH | JWA | DA
(D) 6/2005 REPLACE LOOP DETECTORS WITH VIDEO SHA# AT724518 5
JWA | JAH | DAZ | DA
(C) 3/19/02 SPLIT SIDE STREET, REPLACE DETECTION AND SIGNAL HEADS
RRZ

PLOTTED: Tuesday, January 22, 2008 at 8:12:36 AM
FILE: pSG-P001_MO355sf04halpineRd.dgn

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

MD 355 (ROCKVILLE PIKE) AT HALPINE ROAD
SIGNAL RECONSTRUCTION AND APS INSTALLATION

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' ADVERTISED DATE 6/16/1975 CONTRACT NO. M-294-501-385

DESIGNED BY BOB TYSON — COUNTY MONTGOMERY
DRAWN BY BOB TYSON — LOGMILE 15035507.36
CHECKED BY DIMITRIOS ZAFARIS — TIMS NO. H297
F.A.P. NO. M-5-113(1) — TOD NO.

TS NO. 1076-E | DRAWING TS-1 OF 1 | SHEET NO. 1 OF 3