N

MD320 (PINEY BRANCH ROAD) IS ASSUMED TO RUN IN THE EAST/WEST DIRECTION.

PROPOSED PED. SIGNALS

9-12

16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

PROPOSED ACCESSIBLE PUSHBUTTON AND SIGN

15,17 — R10-3(1) 9" x 15"

16,18 — R10-3(1) 9" x 15"

PINEY BRANCH RD

EXISTING SIGNS

13,19,21 — GREENWOOD AVE <8700 — D-3 (VAR. X 16")

20,22 — PINEY BRANCH RD <12600 — D-3 (VAR. X 16")

14 — NO TURN ON RED — 10-11B-E 30" x 30"

23 — D9-2 30" x 30" — M6-1 15" x 21"

24 — JCT MARYLAND 787 — M2-1 15" x 21" — M1-6 30" x 45"

EXISTING SIGNALS

1-8

R Y G

12"

EXISTING SIGNALS TO BE REMOVED

12"

EXISTING SIGNS TO BE REMOVED

R10-4(1) 9" x 12"

NEMA PHASING

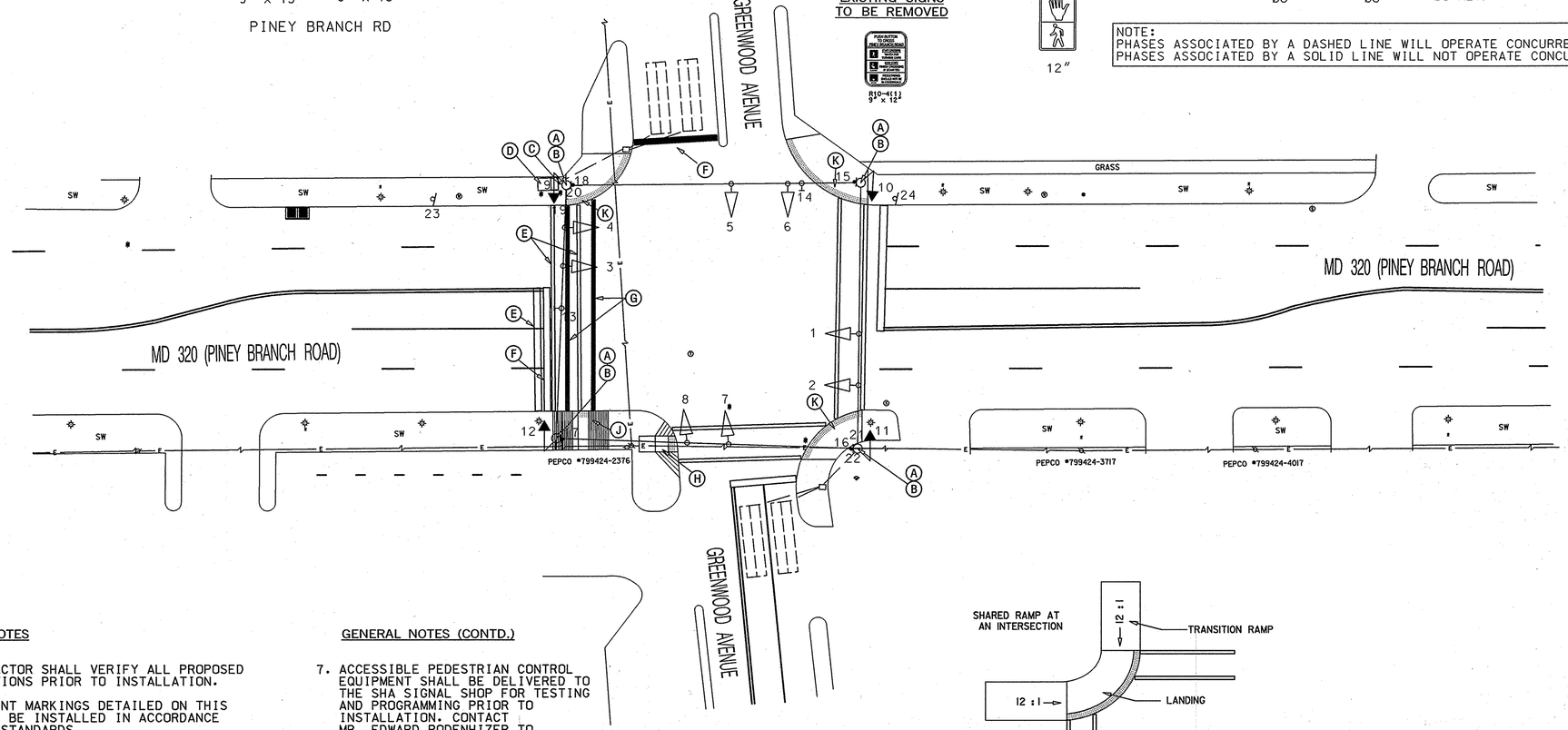
Ø2 Ø4 Ø6 Ø8

Ø4 ALT.

Ø8 ALT.

FLASHING OPERATION

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



CONSTRUCTION DETAILS

(A) INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION AND SIGN ON EXISTING SIGNAL POLE (NOTE: 1-3 IN. PVC CONDUIT BEND).

(B) REMOVE EXISTING PEDESTRIAN PUSHBUTTONS, SIGNAL HEADS, SIGNS AND RELATED ATTACHMENTS.

(C) USE EXISTING CONDUIT.

(D) USE EXISTING BASE MOUNTED CONTROLLER CABINET.

(E) REMOVE EXISTING PAVEMENT MARKING.

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

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

(H) 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).

(J) 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).

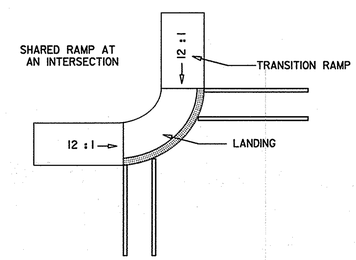
(K) INSTALL 4 IN CONCRETE SIDEWALK WITH SIDEWALK RAMP (SEE RAMP DETAIL "A") WITH DETECTABLE WARNING SURFACE (SHA STANDARD NO MD 655.40) AND DEPRESSED CURB AND GUTTER (SHA STANDARD NO. MD 620.03).

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. 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.
6. ACCESSIBLE PEDESTRIAN PUSH BUTTONS SHALL BE DELIVERED TO MR. KEITH LORD AT 301-279-1291 AT THE MONTGOMERY COUNTY TECHNICAL CENTER FOR PROGRAMMING PRIOR TO BEGINNING WORK AT THE INTERSECTION.

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. PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA, DOES NOT HAVE TO REACH MORE THAN 18 IN.
10. 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.



RAMP DETAIL "A" (NOT TO SCALE)

TOD NO:AT910-25
SHA NO:MO579A5D/B5D
MD320@GREENWOOD AVE

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

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

BY: fanuszewski

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

(A) 6/6/07: INSTALLATION OF CPS & APS SHA CONTRACT NO. AT9105185 HD WNH

PLOTTED: Thursday, December 06, 2007 at 1:53:57 PM
FILE: d:\d_bSG-P001_MD320atGreenwoodAve.dgn

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 320 (PINEY BRANCH ROAD) AT GREENWOOD AVENUE.

INSTALLATION OF CPS AND APS

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 06-06-2007 CONTRACT NO. AT9105185

DESIGNED BY H. DONG
DRAWN BY W. HENRY
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15032001.70
TIMS NO. 1244
TOD NO.

TS NO. 4631 A | DRAWING TS-1 OF 1 | SHEET NO. 1 OF 2