EXISTING SIGNS TO REMAIN

33a,33b,36a,36b — Valley View Avenue — D-3(1) (VAR.X16") DUAL SIDED

32,34,35,38 — ONLY — R3-5L (30" X 36")

39 — R3-6 (30" X 36")

40 — WEST MARYLAND 193 — ASSOCIATED SHIELD ASSEMBLY (24"X51")

36 — EAST MARYLAND 193 — ASSOCIATED SHIELD ASSEMBLY (24"X51")

41 — EAST MARYLAND 193 — ASSOCIATED SHIELD ASSEMBLY (36"X75")

37 — WEST MARYLAND 193 — ASSOCIATED SHIELD ASSEMBLY (36"X75")

MD 193 (UNIVERSITY BOULEVARD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

EXISTING SIGNALS TO REMAIN

1,2,5,6,7 — 12"

10,11, 13,14 — 12"

3,4,8, 12,15 — 12"

V1-V4 & S1,S2 — VIDEO DETECTION

EXISTING SIGNALS TO BE REMOVED

16-23 — 12"

PROPOSED SIGNS

25,27 — PUSH BUTTON TO CROSS UNIVERSITY BLVD — R10-3(1) 9" x 15"

24,26 — PUSH BUTTON TO CROSS UNIVERSITY BLVD — R10-3(1) 9" x 15"

29,31 — PUSH BUTTON TO CROSS VALLEY VIEW AVE — R10-3(1) 9" x 15"

28,30 — PUSH BUTTON TO CROSS VALLEY VIEW AVE — R10-3(1) 9" x 15"

PROPOSED SIGNALS

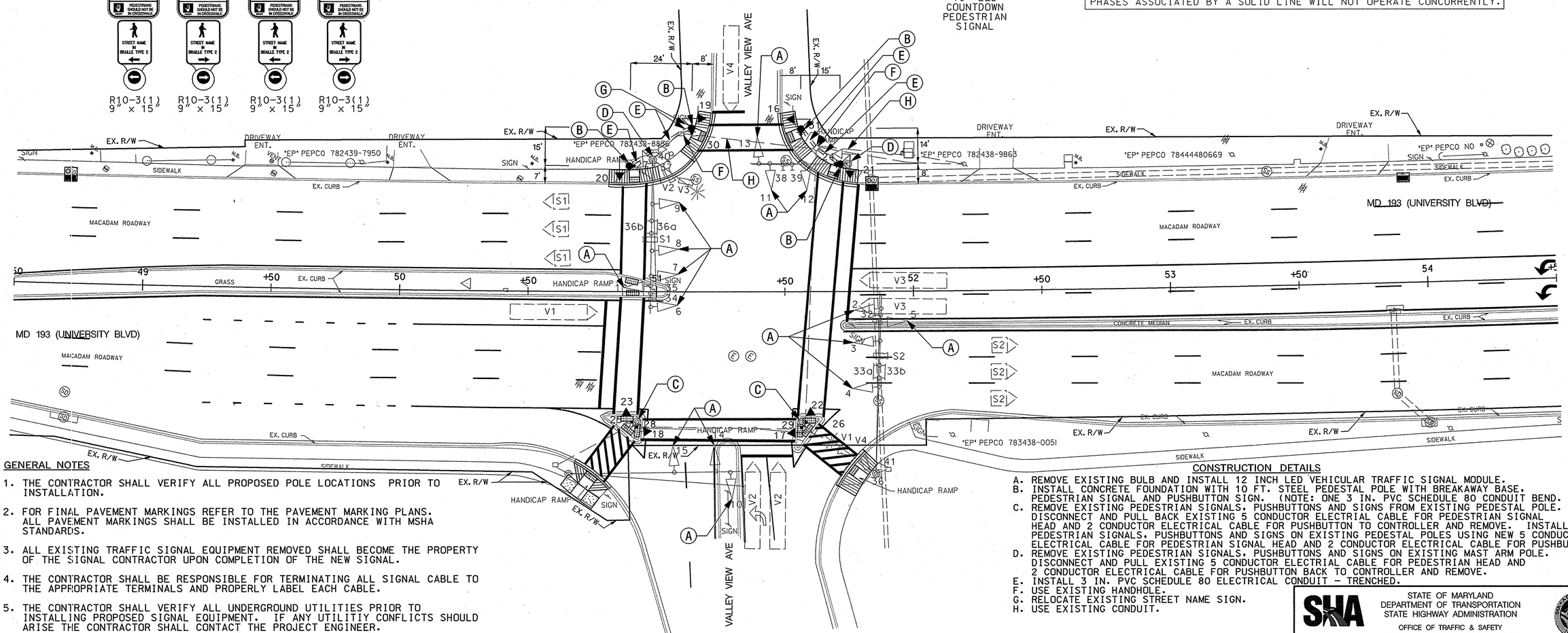
16,17,18,19, 20,21,22,23 — 16" LED COUNTDOWN PEDESTRIAN SIGNAL

NEMA PHASING

Ø1 Ø2 Ø3 Ø4 — FLASHING OPERATION

Ø5 Ø6 Ø3 ALT. Ø4 ALT.

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



GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. 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, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. REFER TO ROADWAY PLANS FOR INSTALLATION OF AND MODIFICATIONS TO ALL ADA RAMPS.
8. PUSHBUTTONS IN THE NE AND NW QUADRANTS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
9. FOR THE PUSHBUTTONS IN THE NE AND NW QUADRANTS, THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
10. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS IN THE NE AND NW QUADRANTS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONSTRUCTION DETAILS

A. REMOVE EXISTING BULB AND INSTALL 12 INCH LED VEHICULAR TRAFFIC SIGNAL MODULE.
B. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE. PEDESTRIAN SIGNAL AND PUSHBUTTON SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND.
C. REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTONS AND SIGNS FROM EXISTING PEDESTAL POLE. DISCONNECT AND PULL BACK EXISTING 5 CONDUCTOR ELECTRIAL CABLE FOR PEDESTRIAN SIGNAL HEAD AND 2 CONDUCTOR ELECTRICAL CABLE FOR PUSHBUTTON TO CONTROLLER AND REMOVE. INSTALL NEW PEDESTRIAN SIGNALS, PUSHBUTTONS AND SIGNS ON EXISTING PEDESTAL POLES USING NEW 5 CONDUCTOR ELECTRICAL CABLE FOR PEDESTRIAN SIGNAL HEAD AND 2 CONDUCTOR ELECTRICAL CABLE FOR PUSHBUTTON.
D. REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTONS AND SIGNS ON EXISTING MAST ARM POLE. DISCONNECT AND PULL EXISTING 5 CONDUCTOR ELECTRIAL CABLE FOR PEDESTRIAN HEAD AND 2 CONDUCTOR ELECTRICAL CABLE FOR PUSHBUTTON BACK TO CONTROLLER AND REMOVE.
E. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
F. USE EXISTING HANDHOLE.
G. RELOCATE EXISTING STREET NAME SIGN.
H. USE EXISTING CONDUIT.

UTILITY LEGEND

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

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WBCM ARCHITECTURE ENGINEERING CONSTRUCTION

BY: jholloway

APPROVALS: TEAM LEADER / ASST. DIV. CHIEF / DIVISION CHIEF / OFFICE DIRECTOR — ORIGINAL ON FILE

REVISIONS
6 05/02/2008 Install LED Traffic Signal Modules and APS/CPS Upgrades. I786
DSU
A 2/2005 Revision #1 Change Signal Heads #10 and #13 to 4-Section

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

MD 193 (UNIVERSITY BLVD) - FARRAGUT AVE TO MD 586
MD 193 (UNIVERSITY BLVD) @ VALLEY VIEW AVE

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE 8/1/2002 CONTRACT NO. MO5785177

DESIGNED BY
DRAWN BY NS
CHECKED BY CJP
F.A.P. NO. SEE TITLE SHEET
COUNTY MONTGOMERY
LOGMILE 15019300.95
TIMS NO. I786
TOD NO.

TS NO. 4208 | DRAWING SG-3 OF 8 | SHEET NO. 40 OF 45

PLOTTED: Friday, May 02, 2008 AT 12:40 PM
FILE: p:\2004\04006575\Drawings\MD193_Valley View\pSG-P001_MD193.dgn