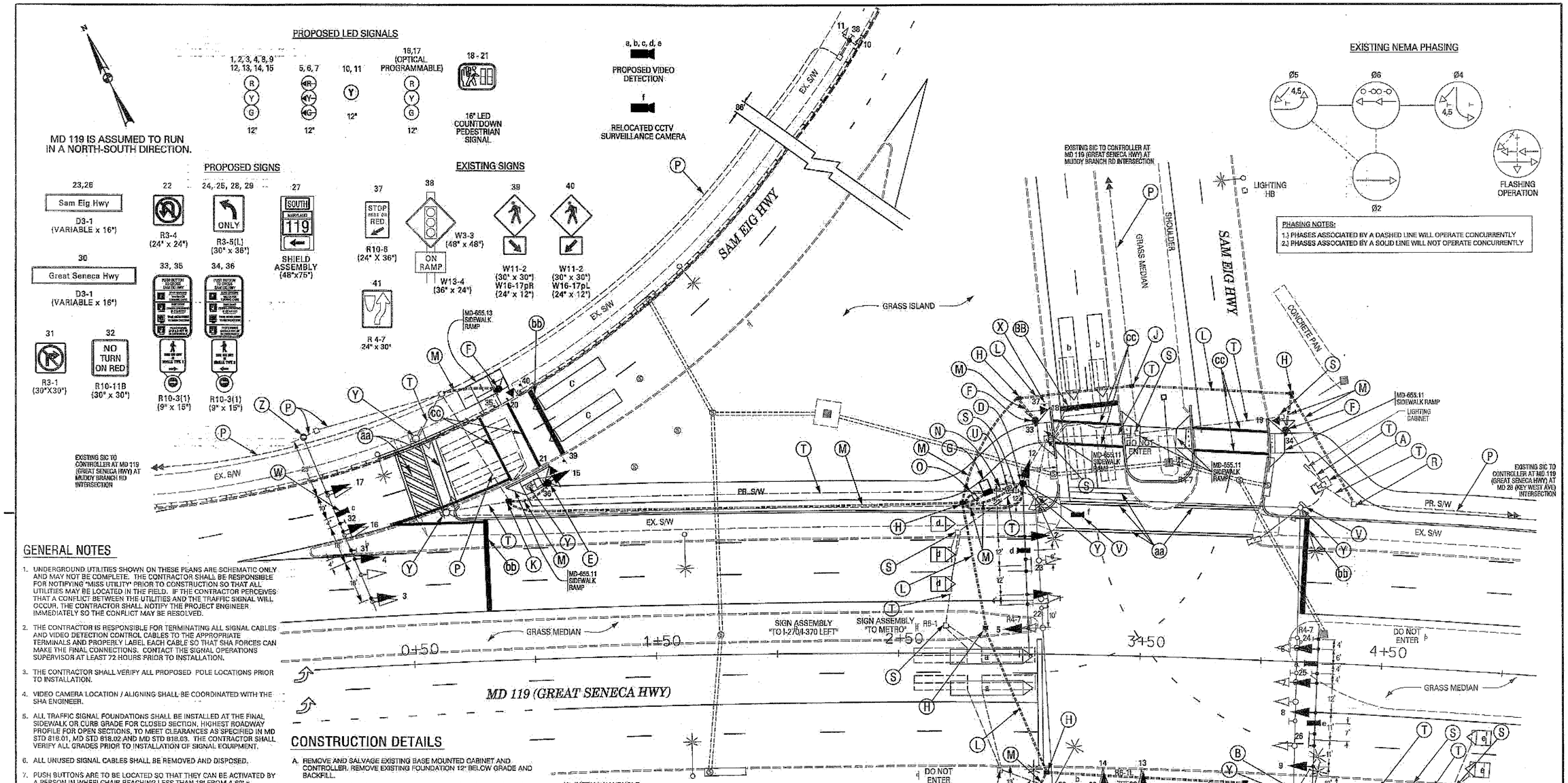

GENERAL NOTES

1. 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 THE CONFLICT MAY BE RESOLVED.
2. THE CONTRACTOR IS RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES AND VIDEO DETECTION CONTROL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE SO THAT SHA FORCES CAN MAKE THE FINAL CONNECTIONS. CONTACT THE SIGNAL OPERATIONS SUPERVISOR AT LEAST 72 HOURS PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
4. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTION, HIGHEST ROADWAY PROFILE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD STD 818.01, MD STD 818.02 AND MD STD 818.03. THE CONTRACTOR SHALL VERIFY ALL GRADES PRIOR TO INSTALLATION OF SIGNAL EQUIPMENT.
6. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
7. PUSH BUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN WHEELCHAIR REACHING LESS THAN 18" FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
8. THE 10' SEPARATION BETWEEN PUSH BUTTONS IS TO BE MEASURED FROM FACE OF PUSH BUTTON TO FACE OF PUSH BUTTON, NOT CENTER TO CENTER OF POLE.
9. PUSH BUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING IN WHICH THEY ARE INTENDED FOR.
10. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2, AND THE NCHRP PUBLICATION, ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSH BUTTON LOCATIONS UNTIL AN APPROVED DESIGN WAIVER IS OBTAINED BY THE DIRECTOR OF OFFICE AND TRAFFIC SAFETY.
11. ALL PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS. ALL CROSSWALKS SHALL BE CENTERED ON HANDICAP RAMPS OR MEDIAN CUT-THROUGHS. ERADICATE EXISTING CONFLICTING PAVEMENT MARKINGS. CIVIL PLANS PROVIDING CURB RAMP DETAILS PREPARED BY LOIEDERMAN SOLTESZ & ASSOCIATES, INC. SEE SHEET NO. 2 OF 3 FOR SIGNING AND STRIPING PLAN.
12. THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR FROM DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THE TIME FRAME, THESE PLANS SHALL BECOME NULL AND VOID WITHOUT A RE-REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.
13. CONTACT KAMAL HAMUD 72 HOURS PRIOR TO START OF ANY WORK TO HAVE SIGNAL CONDUIT, INTERCONNECT AND EQUIPMENT LOCATED.

CONSTRUCTION DETAILS

A. REMOVE AND SALVAGE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE EXISTING FOUNDATION 12" BELOW GRADE AND BACKFILL.

B. INSTALL CONCRETE FOUNDATION WITH 27' STEEL POLE WITH 70' MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, 10' LUMINAIRE ARM AND 250 WATT HPS LUMINAIRE.(NOTE: INSTALL 2 - 3" SCHEDULE 80, 90 DEGREE, PVC ELECTRICAL CONDUIT BENDS (1 SPARE)).

C. INSTALL CONCRETE FOUNDATION WITH 27' STEEL POLE WITH 50' MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, 10' LUMINAIRE ARM AND 250 WATT HPS LUMINAIRE. (NOTE: INSTALL 2 - 3" SCHEDULE 80, 90 DEGREE, PVC ELECTRICAL CONDUIT BENDS (1 SPARE)).

D. INSTALL CONCRETE FOUNDATION WITH 27' STEEL POLE WITH 70' MAST ARM, TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, 20' LUMINAIRE ARM WITH RELOCATED CCTV CAMERA, SIGNS, 10' LUMINAIRE ARM AND 250 WATT HPS LUMINAIRE. INSTALL RELOCATED SURVEILANCE CAMERA TO 20' LUMINAIRE ARM. CONTACT MIKE KINNEY OF MONTGOMERY COUNTY. (NOTE: INSTALL 1 - 3" SCHEDULE 80, 90 DEGREE, PVC ELECTRICAL CONDUIT BENDS (1 SPARE)).

E. INSTALL CONCRETE FOUNDATION WITH 14' STEEL PEDESTAL POLE WITH TRAFFIC SIGNAL HEAD, COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSH BUTTON AND SIGN. (NOTE: INSTALL 1 -3" SCHEDULE 80, 90 DEGREE, PVC ELECTRICAL CONDUIT BEND.)

F. INSTALL CONCRETE FOUNDATION WITH 10' STEEL PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSH BUTTON AND SIGN. (NOTE: INSTALL 1 - 3" SCHEDULE 80, 90 DEGREE, PVC ELECTRICAL CONDUIT BEND.)

G. INSTALL NEW CONCRETE FOUNDATION WITH BASE MOUNTED CABINET AND CONTROLLER. (NOTE: PROVIDE 2-4" AND 2-2" PVC 90 DEGREE CONDUIT BENDS.)

H. INSTALL HANDHOLE.

J. INTERCEPT EXISTING CONDUIT WITH NEW HANDHOLE.

K. ADJUST EXISTING HANDHOLE.

L. INSTALL 4" SCHEDULE 80, PVC CONDUIT (BORED).

M. INSTALL 3" SCHEDULE 80, PVC CONDUIT (TRENCHED).

N. INSTALL 2" SCHEDULE 80, PVC CONDUIT (TRENCHED).

O. INSTALL 2-4" SCHEDULE 80, PVC CONDUIT (TRENCHED).

P. USE EXISTING CONDUIT.

R. SPLICE EXISTING SIGNAL INTERCONNECT TO NEW INTERCONNECT IN JUNCTION BOX.

S. REMOVE EXISTING JUNCTION BOX.

T. CAP & ABANDON EXISTING CONDUIT.

U. INSTALL METER SERVICE PEDESTAL.

V. RELOCATE EXISTING COUNTY OWNED CCTV SURVEILLANCE CAMERA AND CONTROL EQUIPMENT.

W. INSTALL VIDEO DETECITON CAMERA ON EXISTING MAST ARM.

X. NOT USED.

Y. REMOVE AND SALVAGE EXISTING SIGNAL EQUIPMENT. REMOVE EXISTING FOUNDATIONS TO 12" BELOW GRADE AND BACKFILL.

Z. REMOVE ALL EXISTING MAST ARM MOUNTED TRAFFIC SIGNAL HEADS AND INSTALL NEW LED TRAFFIC SIGNAL HEADS.

aa. ERRADICATE EXISTING PAVEMENT MARKING LINE.

bb. INSTALL 24" HEAT-APPLIED, WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.

cc. INSTALL 12" HEAT-APPLIED, WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

WELLS + ASSOCIATES, INC
TRANSPORTATION, TRAFFIC AND PARKING CONSULTANTS
8 NW Street SW, Suite 202, Leesburg, Virginia 20175 Phone: 703/ 443-1442 Facsimile: 703/ 443-1225
1430 Spring Hill Road, Suite 600, McLean, Virginia 22102 Phone: 703/ 917-6620 Facsimile: 703/ 917-0738

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

D.	RECONSTRUCTION OF 3RD NB LANE T.I.M.S. NO. 15.00	13 FEB 2011	BW996M82
NG/JP			
C.	SIGNALIZED DUAL RIGHT ON NB SAM EIG HWY WITH ADVANCED FLASHER	OCTOBER 2002	BW996M82
RRZ			
B.	"AS-BUILT"	JANUARY 2002	BW996M82
RMD			
A.	INSTALL NEW LOOP AND MODIFY SIGNAL HEADS	DECEMBER 2000	BW996M82
FJH			

PLOTTED: --
FILE: L:\Projects\6001 - 6009\6431 - M119 Shady Grove Traffic Signals\Design\Signals\MD 119 @ Sam Eig TSD.dgn

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

MD 119 (GREAT SENECA HIGHWAY) AT SAM EIG HIGHWAY
ROCKVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20'	DATE 3 OCT 2002	CONTRACT NO. BW996M82	
DESIGNED BY --		COUNTY Montgomery	
DRAWN BY CAS		LOGMILE 15002818.91	
CHECKED BY KLT		T.I.M.S. NO. --	
F.A.P. NO. --		TOD NO. --	
DRAWING NO. 4059D		SHEET NO. 1 OF 2	

BY: WELLS+ASSOCIATES, INC.