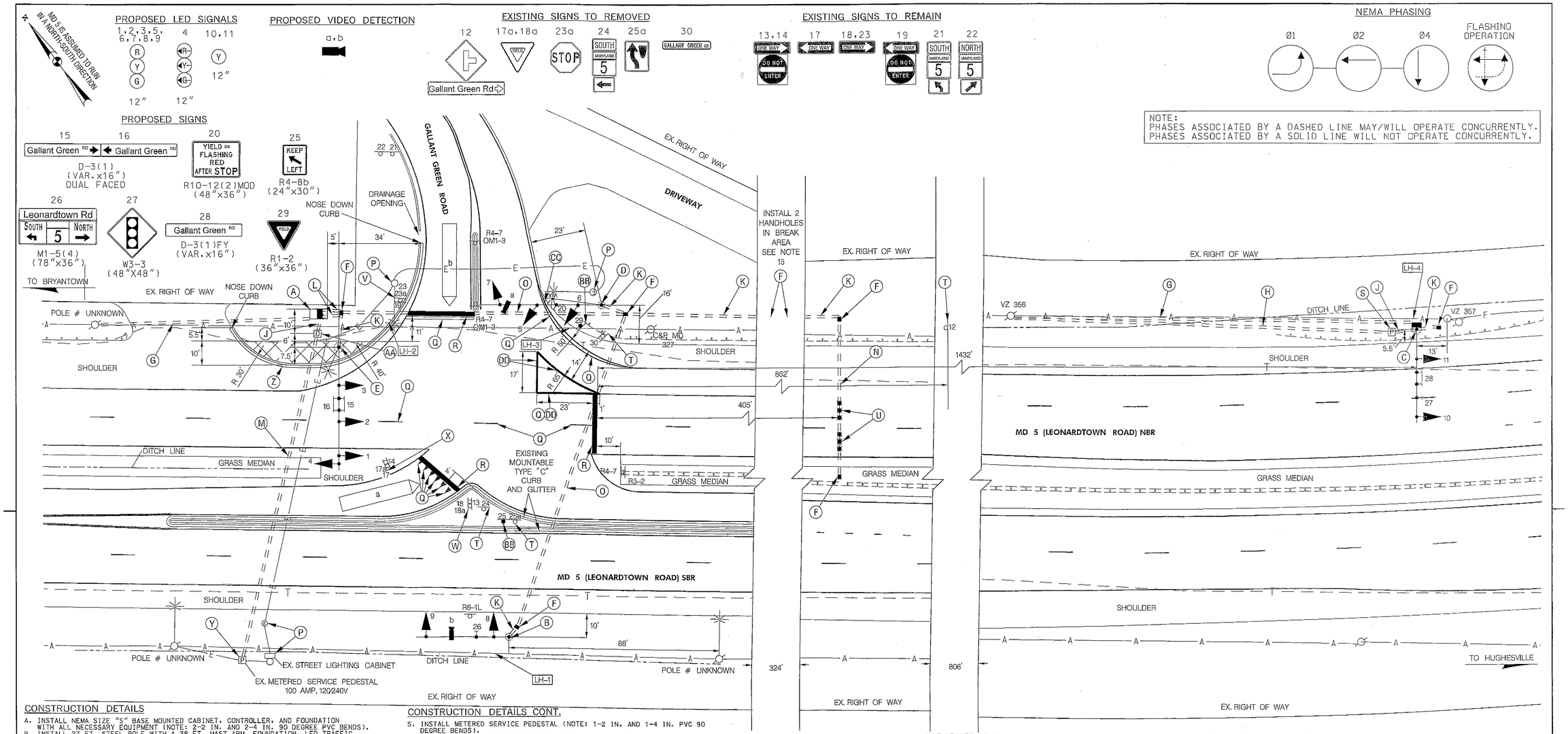

CONSTRUCTION DETAILS

A. INSTALL NEMA SIZE "S" BASE MOUNTED CABINET, CONTROLLER, AND FOUNDATION WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE PVC BENDS).
B. INSTALL 27 FT. STEEL POLE WITH A 38 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA AND SIGN (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
C. INSTALL 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, A 60 FT. MAST ARM (CUT TO 38 FT.), FOUNDATION, LED TRAFFIC SIGNAL HEADS, TYPE 'G' CABINET WITH 2-CIRCUIT FLASHER AND SIGNS (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
D. INSTALL 27 FT. STEEL POLE WITH A 50 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGN AND 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: 1-3 IN. PVC 90 DEGREE BEND).
E. INSTALL 27 FT. STEEL POLE WITH A 50 FT. MAST ARM, FOUNDATION, LED TRAFFIC SIGNAL HEADS, SIGN AND 10 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: 1-3 IN. 90 DEGREE PVC BEND).
F. INSTALL ELECTRICAL HANDHOLE.
G. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS (SEE NOTE 10).
H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED POWER SOURCE. CAP, MARK AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
J. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
K. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
L. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED).
M. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
N. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
O. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED).
P. REMOVE EXISTING LIGHTING EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT.
Q. REMOVE EXISTING PAVEMENT MARKINGS.
R. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.

CONSTRUCTION DETAILS CONT.

S. INSTALL METERED SERVICE PEDESTAL (NOTE: 1-2 IN. AND 1-4 IN. PVC 90 DEGREE BENDS).
T. REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS.
U. INSTALL NON-INVASIVE MICROLOOP PROBE SET.
V. REMOVE EXISTING GROUND MOUNTED SIGN # 23a FROM EXISTING SUPPORT.
W. REMOVE EXISTING GROUND MOUNTED SIGN # 18a FROM EXISTING SUPPORT.
X. REMOVE EXISTING GROUND MOUNTED SIGN # 17a FROM EXISTING SUPPORT.
Y. USE EXISTING METERED SERVICE PEDESTAL. INSTALL 1-2 IN. 90 DEGREE PVC BEND. UTILIZE AN EXISTING SPARE CIRCUIT FOR PROPOSED ELECTRICAL SERVICE FEED.
Z. SAWCUT AND EXCAVATE EXISTING ROADWAY AND BACKFILL. INSTALL SHA STD. MD 620.02-01 STANDARD TYPE "C" CURB AND GUTTER. MATCH TO EXISTING HEIGHT (SEE NOTE 16).
AA. INSTALL DISCONNECT SWITCH ON ONE (1) 4 IN. X 6 IN. WOOD SUPPORT (NOTE: 2-2 IN. PVC 90 DEGREE BENDS).
BB. INSTALL GROUND MOUNTED SIGN ON ONE (1) 4 IN. x 4 IN. WOOD SUPPORT.
CC. INSTALL 5 IN. HEAT APPLIED WHITE PERMANENT PAVEMENT MARKING LINE.
DD. INSTALL 10 IN. HEAT APPLIED WHITE PERMANENT PAVEMENT MARKING LINE.

GENERAL NOTES

1. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
3. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
4. 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.

GENERAL NOTES CONT.

5. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
6. THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATION(S) PRIOR TO INSTALLATION.
7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
8. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
9. ALL HANDHOLES FOR NON-INVASIVE PROBES SHALL BE INSTALLED WITH THE LONG DIMENSION OF THE HANDHOLE PERPENDICULAR TO THE ROADWAY AS SHOWN.
10. CONTRACTOR SHALL BORE THE PORTIONS OF PROPOSED CONDUIT UNDER DRIVEWAYS.
11. SEE G1 SHEET FOR SIGNAL EQUIPMENT DETAILS AND DIMENSIONS.
12. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
13. WOOD SUPPORTS INSTALLED IN CONCRETE SHALL BE INSTALLED WITH SLEEVED FOUNDATIONS AS PER STANDARDS.
14. THE 5 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE ITEM IS DOUBLED TO PAY FOR THE 10 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.
15. PROPOSED HANDHOLES SHALL BE FIELD LOCATED SO THAT CONDUIT RUNS DO NOT EXCEED 200 FT.
16. TYPE "C" CURB AND GUTTER TO BE PAID UNDER STANDARD TYPE "A" COMBINATION CURB AND GUTTER ITEM.

LINE HEIGHTS (LH-1)
MEASURED @ 2.5' BELOW ROADWAY

COMMUNICATION 1:	28'-0"
COMMUNICATION 2:	33'-5"
SECONDARY:	35'-5"
PRIMARY:	38'+

LINE HEIGHTS (LH-2)

COMMUNICATION 1:	16'-8"
COMMUNICATION 2:	17'-8"
COMMUNICATION 3:	18'-5"
COMMUNICATION 4:	21'-11"
COMMUNICATION 5:	23'-5"

LINE HEIGHTS (LH-3)

COMMUNICATION 1:	19'-8"
COMMUNICATION 2:	20'-0"
COMMUNICATION 3:	21'-5"
COMMUNICATION 4:	23'-5"
COMMUNICATION 5:	25'-5"

LINE HEIGHTS (LH-4)

COMMUNICATION 1:	21'-1"
COMMUNICATION 2:	22'-1"
COMMUNICATION 3:	23'-5"
COMMUNICATION 4:	24'-11"

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

MD 5 (LEONARDTOWN ROAD) AND
GALLANT GREEN ROAD
HUGHESVILLE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' | DATE 03/12/2012 | CONTRACT NO. XX3475185

DESIGNED BY EMP OF STV | COUNTY CHARLES
DRAWN BY EMP OF STV | LOGMILE 08000503.16
CHECKED BY MTS OF STV | TIMS NO. L168
F.A.P. NO. | TOD NO.

TS NO. 4832 | DRAWING SG-01 OF 02 | SHEET NO. 01 OF 02

APPROVALS
TEAM LEADER 3-6-12
ASST. DIV. CHIEF 3-6-12
DIVISION CHIEF 3.8.12
OFFICE DIRECTOR 3/9/12

REVISIONS

PLOTTED: Monday, March 05, 2012 AT 11:35 AM
FILE: I:\PROJECTS\4014255\4014255_0187\Drawings\TRA\pSG-P000_MD5.dgn

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Baltimore, MD 21244
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BY: tarnovk

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

GEOMETRIC LEGEND

EXISTING
PROPOSED

ROADWAY TO BE EXCAVATED