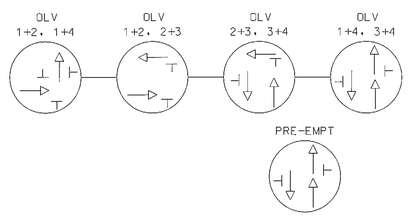
US 301 ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED VIDEO DETECTION
a,b,c,d

PROPOSED LED SIGNALS	PROPOSED LED SIGNAL MODULES
1,2	3,4,5,6,7,8,9, 10,11,12,13,14
Y	R Y G
12"	12"

NEMA PHASING



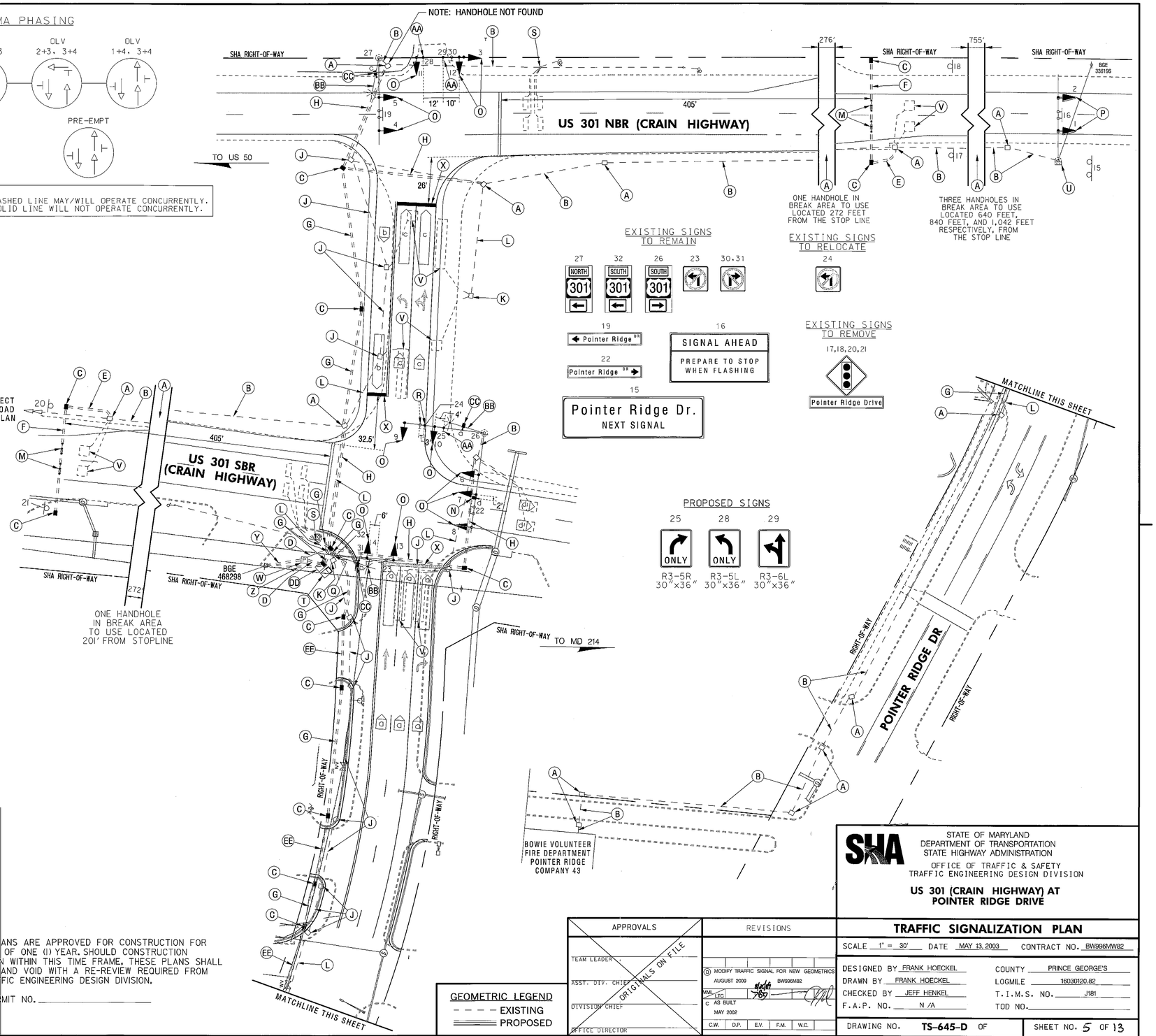
NOTE:
PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

GENERAL NOTES

1. 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.
2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD PLATES FOR TRAFFIC CONTROL.
3. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
4. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
5. THE SHA SIGNAL SHOP WILL PROGRAM THE PROPOSED VIDEO DETECTION CAMERAS TO PICK UP BOTH PRESENCE AND SETBACK DETECTION.
6. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRING.
9. THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL (INCLUDING ALL PRESENCE AND SETBACK DETECTION) REMAINS OPERATIONAL UNTIL THE MODIFIED TRAFFIC SIGNAL IS OPERATIONAL.
10. THE CONTRACTOR SHALL MAINTAIN THE EXISTING INTERCONNECT UNTIL THE NEW INTERCONNECT IS INSTALLED (SEE INTERCONNECT PLAN FOR DETAILS).
11. THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER 72 HOURS IN ADVANCE OF SIGNAL CONSTRUCTION.
12. THE CONTRACTOR SHALL CONTACT CHIEF JEFFREY KRAUSS OF PRINCE GEORGE'S COUNTY AT 301-773-8362 TO COORDINATE THE REWIRING OF THE EXISTING RED LIGHT CAMERAS.

CONSTRUCTION DETAILS

A. USE EXISTING ELECTRICAL HANDHOLE
B. USE EXISTING ELECTRICAL CONDUIT AND REMOVE ABANDONED WIRE
C. FURNISH AND INSTALL ELECTRICAL HANDHOLE
D. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)
G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
J. EXISTING EQUIPMENT TO BE REMOVED AS PART OF THE ROADWAY EXCAVATION OR ABANDONED
K. REMOVE EXISTING ELECTRICAL HANDHOLE
L. ABANDON EXISTING CONDUIT (CAP AT THE NEAREST HANDHOLE(S))
M. INSTALL NON-INVASIVE MICROLOOP PROBE (SET OF TWO)
N. INSTALL VIDEO DETECTION CAMERA ON EXISTING TRAFFIC SIGNAL STRUCTURE (INSTALL CONTROL CABLE)
O. INSTALL LED MODULE IN EXISTING TRAFFIC SIGNAL HEAD
P. INSTALL NEW LED TRAFFIC SIGNAL HEAD/REMOVE EXISTING TRAFFIC SIGNAL HEAD
Q. INSTALL 4 IN. CONDUIT BEND IN EXISTING FOUNDATION
R. RELOCATE EXISTING OVERHEAD SIGN
S. USE EXISTING HANDHOLE; SEE NOTE 11 FOR DIRECTION REGARDING THE RED LIGHT CAMERA EQUIPMENT
T. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT; NOTIFY THE SHA SIGNAL SHOP TO SALVAGE THE CABINET AND CONTROLLER EQUIPMENT; REMOVE AND CAP EXISTING POWER FEED EQUIPMENT
U. USE EXISTING POLE-MOUNTED TRAFFIC SIGNAL CABINET
V. EXISTING LOOP WIRE TO BE ABANDONED OR REMOVED AS PART OF GRIND
W. INSTALL METERED SERVICE PEDESTAL (NOTE 3-2 IN. PVC 90 DEGREE BENDS, 1-4 IN. PVC 90 DEGREE BEND, AND 1-3/4 IN. PVC 90 DEGREE BEND)
X. INSTALL 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (FOR STOPLINE)
Y. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR UNDERGROUND POWER SERVICE. THE CONTRACTOR SHALL CAP, MARK, AND LEAVE A ONE FOOT STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
Z. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED TELEPHONE SERVICE. CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS.
AA. INSTALL OVERHEAD SIGN.
BB. INSTALL 20 FT. LIGHTING ARM WITH 250 WATT HPS LUMINAIRE ON EXISTING TRAFFIC SIGNAL STRUCTURE
CC. INSTALL VIDEO DETECTION CAMERA ON PROPOSED LIGHTING ARM (INSTALL CONTROL CABLE)
DD. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE 2-2 IN. AND 2-4 IN. 90 DEGREE BENDS)
EE. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)



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

NOTE:

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO. _____

GEOMETRIC LEGEND
- - - - EXISTING
═══ PROPOSED

LENHART TRAFFIC CONSULTING
TRAFFIC ENGINEERING & TRANSPORTATION PLANNING
331 Redwood Grove Court Millersville, Maryland 21108
Tel: (410) 987-3888 Fax: (443) 782-2288

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

REVISIONS

0	MODIFY TRAFFIC SIGNAL FOR NEW GEOMETRICS AUGUST 2009 BW996MW82			
VMI	LTC			
C	AS BUILT MAY 2002			
C.W.	D.P.	E.V.	F.M.	W.C.

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

US 301 (CRAIN HIGHWAY) AT POINTER RIDGE DRIVE

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 30' DATE MAY 13, 2003 CONTRACT NO. BW996MW82

DESIGNED BY FRANK HOECKEL COUNTY PRINCE GEORGE'S
DRAWN BY FRANK HOECKEL LOGMILE 16030120.82
CHECKED BY JEFF HENKEL T.I.M.S. NO. J181
F.A.P. NO. N /A TOD NO.

DRAWING NO. TS-645-D OF SHEET NO. 5 OF 13