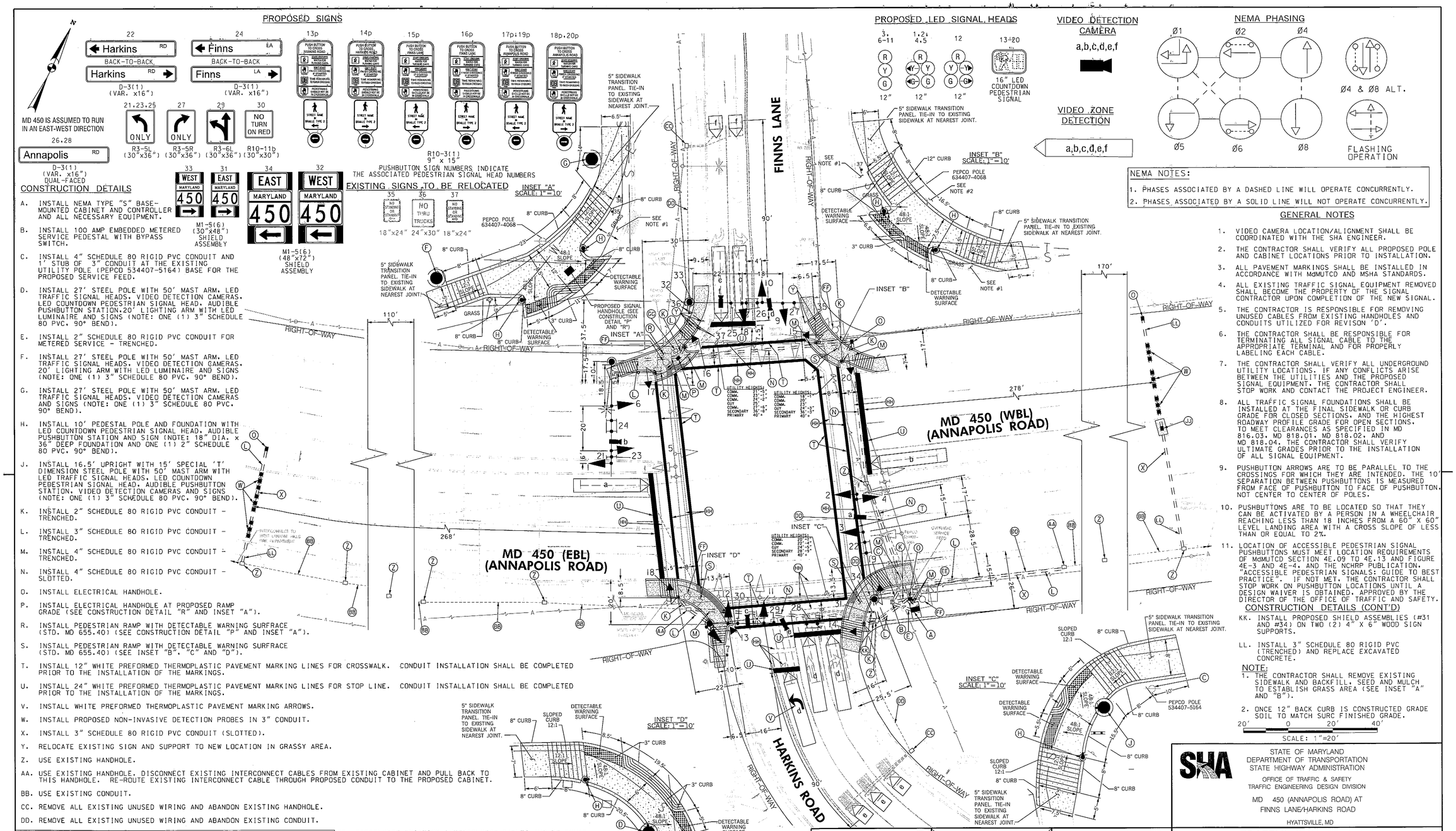

CONSTRUCTION DETAILS

A. INSTALL NEMA TYPE "S" BASE-MOUNTED CABINET AND CONTROLLER AND ALL NECESSARY EQUIPMENT.

B. INSTALL 100 AMP EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH.

C. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT AND 1' STUB OF 3" CONDUIT AT THE EXISTING UTILITY POLE (PEPCO 534407-5164) BASE FOR THE PROPOSED SERVICE FEED.

D. INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION, 20' LIGHTING ARM WITH LED LUMINAIRE AND SIGNS (NOTE: ONE (1) 3" SCHEDULE 80 PVC, 90° BEND).

E. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT FOR METERED SERVICE - TRENCHED.

F. INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, 20' LIGHTING ARM WITH LED LUMINAIRE AND SIGNS (NOTE: ONE (1) 3" SCHEDULE 80 PVC, 90° BEND).

G. INSTALL 27' STEEL POLE WITH 50' MAST ARM, LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS AND SIGNS (NOTE: ONE (1) 3" SCHEDULE 80 PVC, 90° BEND).

H. INSTALL 10' PEDESTAL POLE AND FOUNDATION WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION AND SIGN (NOTE: 18" DIA. x 36" DEEP FOUNDATION AND ONE (1) 2" SCHEDULE 80 PVC, 90° BEND).

J. INSTALL 16.5' UPRIGHT WITH 15' SPECIAL 'T' DIMENSION STEEL POLE WITH 50' MAST ARM WITH LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSHBUTTON STATION, VIDEO DETECTION CAMERAS AND SIGNS (NOTE: ONE (1) 3" SCHEDULE 80 PVC, 90° BEND).

K. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

L. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

M. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

N. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

O. INSTALL ELECTRICAL HANDHOLE.

P. INSTALL ELECTRICAL HANDHOLE AT PROPOSED RAMP GRADE (SEE CONSTRUCTION DETAIL "R" AND INSET "A").

R. INSTALL PEDESTRIAN RAMP WITH DETECTABLE WARNING SURFRACE (STD. MD 655.40) (SEE CONSTRUCTION DETAIL "P" AND INSET "A").

S. INSTALL PEDESTRIAN RAMP WITH DETECTABLE WARNING SURFRACE (STD. MD 655.40) (SEE INSET "B", "C" AND "D").

T. INSTALL 12" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES FOR CROSSWALK. CONDUIT INSTALLATION SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF THE MARKINGS.

U. INSTALL 24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES FOR STOP LINE. CONDUIT INSTALLATION SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF THE MARKINGS.

V. INSTALL WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS.

W. INSTALL PROPOSED NON-INVASIVE DETECTION PROBES IN 3" CONDUIT.

X. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED).

Y. RELOCATE EXISTING SIGN AND SUPPORT TO NEW LOCATION IN GRASSY AREA.

Z. USE EXISTING HANDHOLE.

AA. USE EXISTING HANDHOLE. DISCONNECT EXISTING INTERCONNECT CABLES FROM EXISTING CABINET AND PULL BACK TO THIS HANDHOLE. RE-ROUTE EXISTING INTERCONNECT CABLE THROUGH PROPOSED CONDUIT TO THE PROPOSED CABINET.

BB. USE EXISTING CONDUIT.

CC. REMOVE ALL EXISTING UNUSED WIRING AND ABANDON EXISTING HANDHOLE.

DD. REMOVE ALL EXISTING UNUSED WIRING AND ABANDON EXISTING CONDUIT.

EE. DISCONNECT EXISTING INTERCONNECT CABLES AND RE-ROUTE TO PROPOSED CABINET (SEE CONSTRUCTION DETAIL "AA"). REMOVE EXISTING CONTROLLER CABINET AND ALL ASSOCIATED EQUIPMENT AFTER THE NEW TRAFFIC SIGNAL BECOMES OPERATIONAL:REMOVE FOUNDATION 12" BELOW GROUND GRADE.

FF. REMOVE EXISTING SIGNAL STRUCTURE AND ALL ATTACHED EQUIPMENT: REMOVE FOUNDATION 12" BELOW GROUND GRADE.

GG. REMOVE EXISTING HANDHOLE: CAP AND ABANDON CONDUIT.

HH. REMOVE EXISTING PAVEMENT MARKINGS.

JJ. INSTALL ELECTRICAL HANDHOLE AND REPLACE EXCAVATED CONCRETE.

NEMA NOTES:

1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

GENERAL NOTES

1. VIDEO CAMERA LOCATION/ALIGNMENT SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MdMUTCD AND MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING UNUSED CABLES FROM EXISTING HANDHOLES AND CONDUITS UTILIZED FOR REVISON 'D'.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINAL AND FOR PROPERLY LABELING EACH CABLE.
7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS. IF ANY CONFLICTS ARISE BETWEEN THE UTILITIES AND THE PROPOSED SIGNAL EQUIPMENT, THE CONTRACTOR SHALL STOP WORK AND CONTACT THE PROJECT ENGINEER.
8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, AND THE HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSINGS FOR WHICH THEY ARE INTENDED. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLES.
10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MdMUTCD SECTION 4E.09 TO 4E.13 AND FIGURE 4E-3 AND 4E-4, AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR SHALL STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR OF THE OFFICE OF TRAFFIC AND SAFETY.

CONSTRUCTION DETAILS (CONT'D)

KK. INSTALL PROPOSED SHIELD ASSEMBLIES (#31 AND #34) ON TWO (2) 4" X 6" WOOD SIGN SUPPORTS.

LL. INSTALL 3" SCHEDULE 80 RIGID PVC (TRENCHED) AND REPLACE EXCAVATED CONCRETE.

NOTE:

1. THE CONTRACTOR SHALL REMOVE EXISTING SIDEWALK AND BACKFILL, SEED AND MULCH TO ESTABLISH GRASS AREA (SEE INSET "A" AND "B").
2. ONCE 12" BACK CURB IS CONSTRUCTED GRADE SOIL TO MATCH SURC FINISHED GRADE.

20' 0 20' 40'
SCALE: 1"=20'

GEOMETRIC LEGEND
EXISTING
PROPOSED

UTILITY LEGEND
STORM DRAIN
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
FIBER-OPTIC

CENTURY ENGINEERING
CONSULTING ENGINEERS – PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

REVISION 'D' CEI PROJECT NO. 101195.17

RIGHT-OF-WAY DATA
PLAT NO.: 36168
RIGHT-OF-WAY INFORMATION SHOWN WAS OBTAINED FROM SHA PLAT RECORDS AND IS CURRENT AS OF AUGUST 31, 1967.

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

REVISIONS
(E) RECONSTRUCT EXISTING SIGNAL JUNE 10, 2013
TMS# 1265
SHA CONTRACT NO. XY128185
F.A.P. NO. AC-STP2-000A(856)E
ENB
(D) 98 FINNS LA SHA NO. P 240-000-385
INSTALL RIGHT TURN OVERLAP AND S SEC. FOR 4/92
MAR
(C) REPLACE FAILED LOOP DETECTORS
SHA NO. BSS-250 31092
CLS

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 450 (ANNAPOLIS ROAD) AT
FINNS LANE/HARKINS ROAD
HYATTSVILLE, MD

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' ADVERTISED DATE _____ CONTRACT NO. P 420-000385
DESIGNED BY _____ COUNTY PRINCE GEORGE'S
DRAWN BY RICHARDSON LOGMILE 16045003.83
CHECKED BY _____ TIMS NO. _____
F.A.P. NO. U 931-1(2) TOD NO. _____
TS NO. 1067D DRAWING SG-01 OF 2 SHEET NO. 1 OF 2

PLOTTED: Monday, June 10, 2013 AT 02:18 PM
FILE: S:\2012\Transportation\101195.17 MD 450 at Finns Lane_Harkins Road\CADD\ACAD SheetSets\pSG-P001_MD450atFinns.dgn

TOD NO: XY128-11
SHA : PG818B57
MD 450 @ Finns Lane/Harkins Road

BY: ebostic