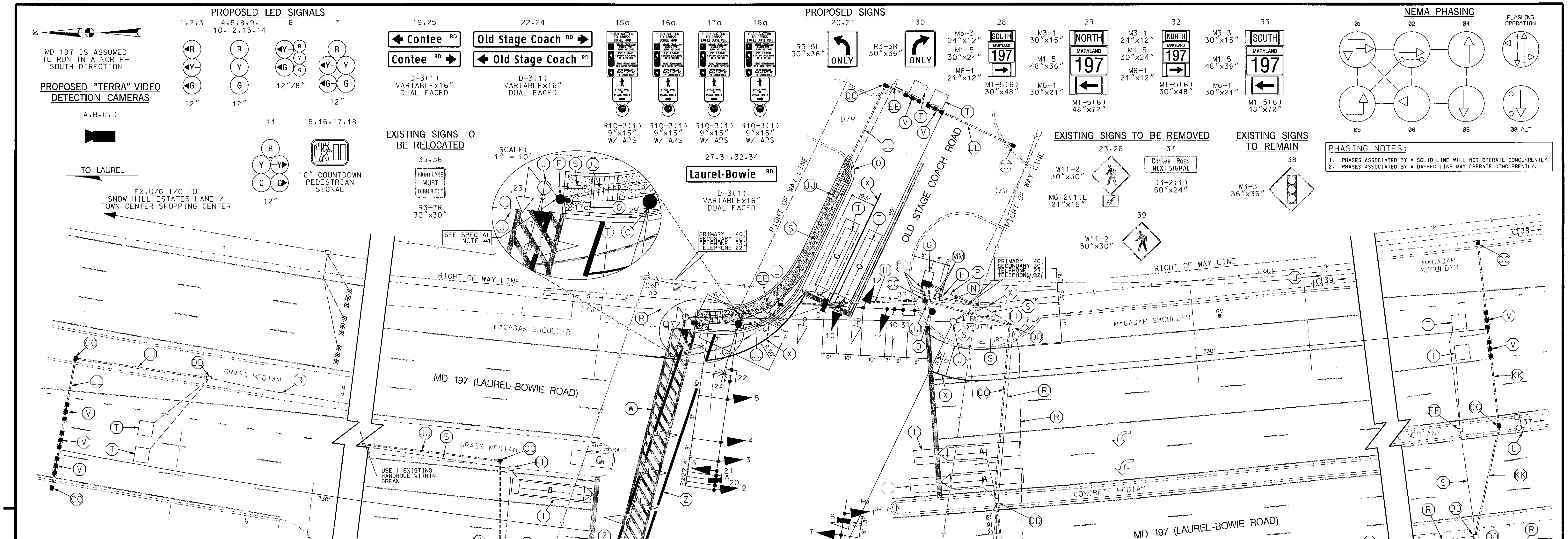

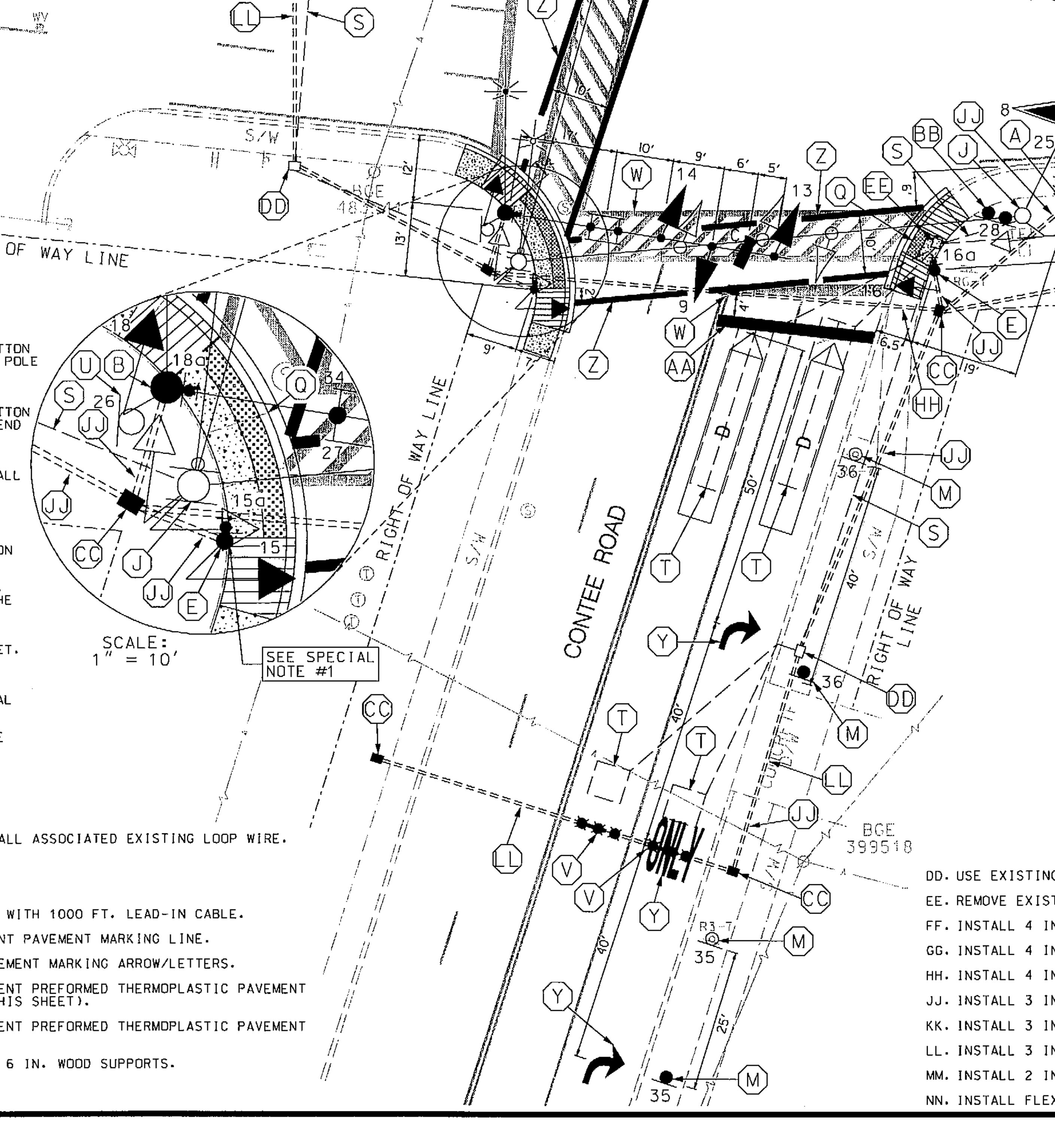

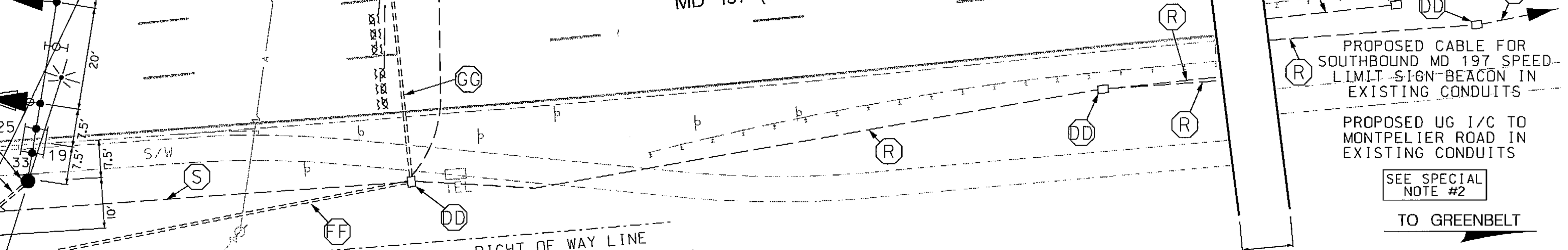

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION AND 27 FT. STEEL POLE WITH 50 FT. MAST ARM, 20 FT. LIGHTING ARM WITH 250 WATT LUMINAIRE, LED TRAFFIC SIGNAL HEADS, SIGNS, AND "TERRA" VIDEO DETECTION CAMERA (MAST ARM MOUNT) (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

B. INSTALL CONCRETE FOUNDATION AND 27 FT. STEEL POLE WITH 50 FT. MAST ARM, 20 FT. LIGHTING ARM WITH 250 WATT LUMINAIRE, LED TRAFFIC SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, SIGNS, "TERRA" VIDEO DETECTION CAMERA (MAST ARM MOUNT), ACCESSIBLE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS LAUREL-BOWIE ROAD (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

C. INSTALL CONCRETE FOUNDATION AND 27 FT. STEEL POLE WITH 70 FT. MAST ARM, 20 FT. LIGHTING ARM WITH 250 WATT LUMINAIRE, LED TRAFFIC SIGNAL HEADS, SIGNS, AND "TERRA" VIDEO DETECTION CAMERA (MAST ARM MOUNT) (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

D. INSTALL CONCRETE FOUNDATION AND 27 FT. STEEL POLE WITH 50 FT. MAST ARM, LED TRAFFIC SIGNAL HEADS, SIGNS, AND "TERRA" VIDEO DETECTION CAMERA (MAST ARM MOUNT) (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

E. INSTALL CONCRETE FOUNDATION AND 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS CONTEE ROAD") (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

F. INSTALL CONCRETE FOUNDATION AND 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS LAUREL-BOWIE ROAD") (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE).

G. INSTALL CONCRETE FOUNDATION AND NEMA SIZE "6" BASE MOUNTED CONTROLLER AND CABINET WITH 2-WIRE CENTRAL CONTROL UNIT, VIDEO DETECTION INTERFACE EQUIPMENT, AND ALL ASSOCIATED EQUIPMENT (INSTALL 2-2 IN. AND 3-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE).

H. INSTALL 200 AMP METERED SERVICE PEDESTAL (1-4 IN. AND 2-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).

J. REMOVE EXISTING SIGNAL STRAIN POLE, SPAN WIRE, AND ALL ASSOCIATED EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

K. REMOVE EXISTING SIGNAL CONTROLLER CABINET. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. SHA SIGNAL SHOP SHALL BE NOTIFIED TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET.

L. CUT EXISTING CONDUIT, PULL EXISTING MICROLOOP AND INTERCONNECT WIRE BACK FROM THE EXISTING CABINET, INSTALL NEW HANDHOLE, AND REROUTE WIRES THROUGH NEW CONDUIT/HANDHOLE(S) TO NEW CABINET.

M. RELOCATE EXISTING GROUND MOUNTED SIGNS AS SHOWN ON PLAN.

N. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE BGE 34074 FOR USE BY OTHERS.

P. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE BGE 34074 FOR USE BY OTHERS.

Q. INSTALL SIDEWALK RAMP AND DETECTABLE WARNING SURFACE (SEE DETAILS ON SHEET 2 OF 2).

R. USE EXISTING CONDUIT.

S. CAP AND ABANDON EXISTING CONDUIT.

T. ABANDON EXISTING LOOP DETECTOR. REMOVE ALL ASSOCIATED EXISTING LOOP WIRE.

U. REMOVE EXISTING GROUND MOUNTED SIGN.

W. REMOVE EXISTING PAVEMENT MARKINGS.

V. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN CABLE.

X. INSTALL 5 IN. HEAT APPLIED WHITE PERMANENT PAVEMENT MARKING LINE.

Y. INSTALL HEAT APPLIED WHITE PERMANENT PAVEMENT MARKING ARROW/LETTERS.

Z. INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR CROSSWALK (SEE DETAIL THIS SHEET).

AA. INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE FOR STOPLINE.

BB. INSTALL GROUND MOUNTED SIGN ON 2-4 IN. X 6 IN. WOOD SUPPORTS.

CC. INSTALL HANDHOLE.

DD. USE EXISTING HANDHOLE.

EE. REMOVE EXISTING HANDHOLE.

FF. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

GG. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED).

HH. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).

JJ. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

KK. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED).

LL. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).

MM. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).

NN. INSTALL FLEXIBLE LIQUID TIGHT DETECTOR SLEEVE.

GENERAL NOTES

1. ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. ALL UNUSED SIGNAL CABLE SHALL BE PROPERLY REMOVED AND DISPOSED.
6. ALL LUMINAIRES SHALL INCLUDE A PHOTOCELL.
7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
8. 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-INCH BY 60-INCH LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2 PERCENT.
9. THE 10-FOOT SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE 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 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 PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED. APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

TOD No: XX354-09
SHA No: PG901A54/K54
MD 197 @ Contee Rd/Old Stage Coach Rd

SPECIAL NOTES

1. THE CONTRACTOR SHALL USE CAUTION WHEN INSTALLING THE PROPOSED PEDESTAL POLE FOUNDATION DUE TO ITS PROXIMITY TO THE EXISTING SPAN WIRE POLE.
2. EXISTING INTERCONNECT CABLE BETWEEN CONTEE ROAD/OLD STAGE COACH ROAD AND MONTPELIER ROAD TO BE REMOVED AND REPLACED WITH 12-PAIR COMMUNICATION CABLE (SEE INTERCONNECT PLAN SHEET SG-03).

0 10 20 40
SCALE: 1" = 20'

GEOMETRIC LEGEND
- - - - - - EXISTING
———— PROPOSED

UTILITY LEGEND
========= STORM DRAIN
— — G — — — GAS MAIN
— — W — — — WATER MAIN
— — SAN — — — SEWER MAIN
— — E — — — ELECTRIC CABLES
—— A ——— AERIAL CABLES
— — T — — — TELEPHONE CABLES
— — FO — — — FIBER-OPTIC

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

MD 197 (LAUREL-BOWIE ROAD) AND CONTEE ROAD /OLD STAGE COACH ROAD
LAUREL, MARYLAND

TRAFFIC SIGNALIZATION PLAN

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

REVISIONS:
B RECONSTRUCTION OF EXISTING TRAFFIC SIGNAL — SHA NO. XX3545168r — TIMS NO. J154 — 08/2010
A DETECTION REPLACEMENT DUE TO ROADWAY RESURFACING — SHA NO. PG480A21 — 11-03-03
BSH | JWA | BT | MAR | DZ | BRK

SCALE 1" = 20' DATE 5-20-85 CONTRACT NO. P 840-509-385

DESIGNED BY ____ COUNTY PRINCE GEORGE'S
DRAWN BY J SPENCE LOGMILE 16019713.07
CHECKED BY ____ T.I.M.S. NO. J154
F.A.P. NO. ____ T.O.D. NO. ____

T.S. NO. 253B SG-01 OF SG-03 SHEET NO. 1 OF 3

PLOTTED: Friday, August 20, 2010 AT 07:48 AM
FILE: I:\5212 - TEDD\04 - MD 197 Signal\DESIGN\Engineering\PlanSet\pSG-P001_TS253B.dgn

BY: bshanover