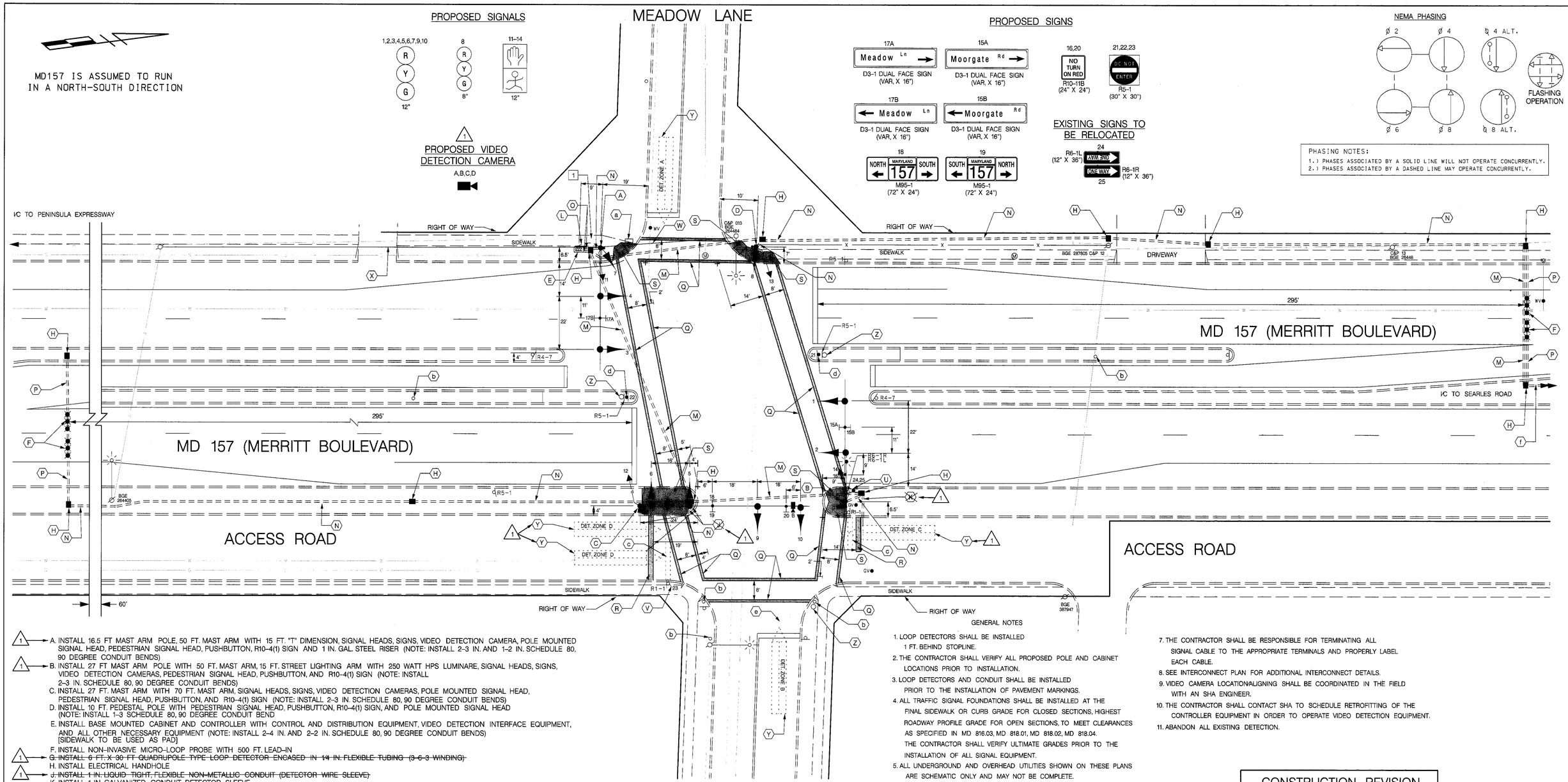

UTILITY HEIGHTS

1
CATV = 14' - 0"
CATV = 15' - 3"
C & P = 17' - 5"
C & P = 19' - 1"
PRIMARY = >31' - 0"

1 A. INSTALL 16.5 FT MAST ARM POLE, 50 FT. MAST ARM WITH 15 FT. "T" DIMENSION, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, POLE MOUNTED SIGNAL HEAD, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, R10-4(1) SIGN AND 1 IN. GAL. STEEL RISER (NOTE: INSTALL 2-3 IN. AND 1-2 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)

1 B. INSTALL 27 FT MAST ARM POLE WITH 50 FT. MAST ARM, 15 FT. STREET LIGHTING ARM WITH 250 WATT HPS LUMINARE, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND R10-4(1) SIGN (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)

C. INSTALL 27 FT. MAST ARM WITH 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, POLE MOUNTED SIGNAL HEAD, PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND R10-4(1) SIGN (NOTE: INSTALL 2-3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)

D. INSTALL 10 FT. PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, R10-4(1) SIGN, AND POLE MOUNTED SIGNAL HEAD (NOTE: INSTALL 1-3 SCHEDULE 80, 90 DEGREE CONDUIT BEND

E. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH CONTROL AND DISTRIBUTION EQUIPMENT, VIDEO DETECTION INTERFACE EQUIPMENT, AND ALL OTHER NECESSARY EQUIPMENT (NOTE: INSTALL 2-4 IN. AND 2-2 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS) [SIDEWALK TO BE USED AS PAD]

F. INSTALL NON-INVASIVE MICRO-LOOP PROBE WITH 500 FT. LEAD-IN

1 ~~G. INSTALL 6 FT. X 30 FT QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 WINDING)~~

H. INSTALL ELECTRICAL HANDHOLE

1 ~~J. INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE NON-METALLIC CONDUIT (DETECTOR WIRE SLEEVE)~~

1 ~~K. INSTALL 1 IN. GALVANIZED CONDUIT DETECTOR SLEEVE~~

L. INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED FOR ELECTRIC SERVICE
M. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
N. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
O. INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
P. INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED (FOR PROBES)
Q. INSTALL 12 IN. WHITE HEAT APPLIED, PERMANENT, PREFORMED THERMOPLASTIC PAVEMENT MARKING
R. INSTALL 24 IN. WHITE HEAT APPLIED, PERMANENT, PREFORMED THERMOPLASTIC PAVEMENT MARKING
S. INSTALL TYPE 1 SIDEWALK RAMP IN ACCORDANCE WITH MSHA STANDARD NO. MD-655.11
T. INSTALL R5-1 ON EXISTING R1-1 SIGN SUPPORT AS SHOWN
U. RELOCATE EXISTING R6-1(R) AND R6-1(L) SIGNS ON ONE 4" X 4" WOOD SUPPORT
V. RELOCATE EXISTING R5-1 SIGN ON THE BACK OF THE EXISTING R1-1 SIGN SUPPORT AS SHOWN
W. PROPOSED OVERHEAD ELECTRIC SERVICE
X. RELOCATED OVERHEAD INTERCONNECT CABLE (SEE INTERCONNECT PLAN FOR DETAILS)
Y. VIDEO DETECTION ZONE
Z. REMOVE EXISTING STRAIN POLE AND ALL ASSOCIATED EQUIPMENT
a. REMOVE EXISTING STRAIN POLE, POLE MOUNTED CABINET AND CONTROLLER, AND ALL ASSOCIATED EQUIPMENT
b. REMOVE EXISTING HANDHOLE
c. REMOVE EXISTING PAVEMENT MARKING
d. INSTALL R5-1 SIGN ON ONE 4 IN. X 4 IN. WOOD SUPPORT
e. REMOVE EXISTING SPAN WIRE AND CABLE
f. 3 IN. SCHEDULE 80 RIGID ELECTRIC PVC CONDUIT - TRENCHED (SEE INTERCONNECT PLAN FOR DETAILS)

GENERAL NOTES

1. LOOP DETECTORS SHALL BE INSTALLED 1 FT. BEHIND STOPLINE.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. LOOP DETECTORS AND CONDUIT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
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.
5. 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.
6. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH PHOTOCELL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
8. SEE INTERCONNECT PLAN FOR ADDITIONAL INTERCONNECT DETAILS.
9. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED IN THE FIELD WITH AN SHA ENGINEER.
10. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
11. ABANDON ALL EXISTING DETECTION.

CONSTRUCTION REVISION
11-24-04
1 - CHANGE ACCESS ROAD DETECTION FROM LOOP DETECTORS TO VIDEO DETECTION AND INSTALL CONDUIT, RISER FOR PHONE DROP.

GEOMETRIC LEGEND
EXISTING
PROPOSED

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

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	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN

MD 157 AND MOORGATE ROAD/MEADOW LANE

DRAWN BY:	M.HOWELL	F.A.P. NO.	N/A	TS NO. 4339	SHEET NO.
CHECKED BY:		S.H.A. NO.	AT3575185	T.I.M.S. NO. G350	1 OF 5
SCALE:	1" = 20'	COUNTY:	BALTIMORE		
DATE:	8/2004	LOG MILE:			

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