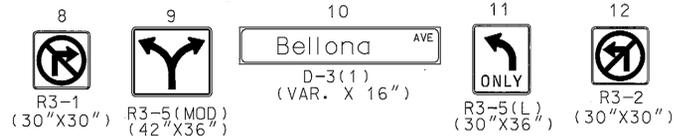


N
 BELLONA AVE IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

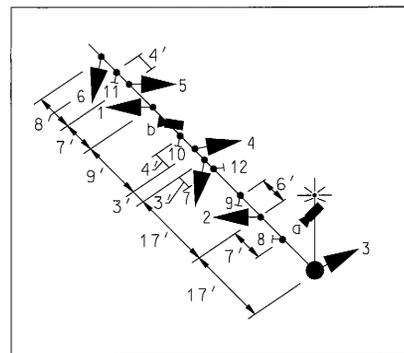
PROPOSED SIGNS



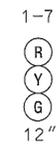
PROPOSED VIDEO DETECTION CAMERAS



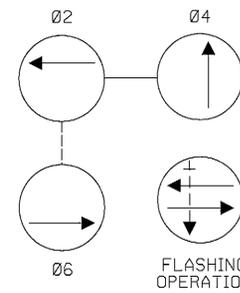
SIGNAL HEAD AND SIGN DIMENSIONS



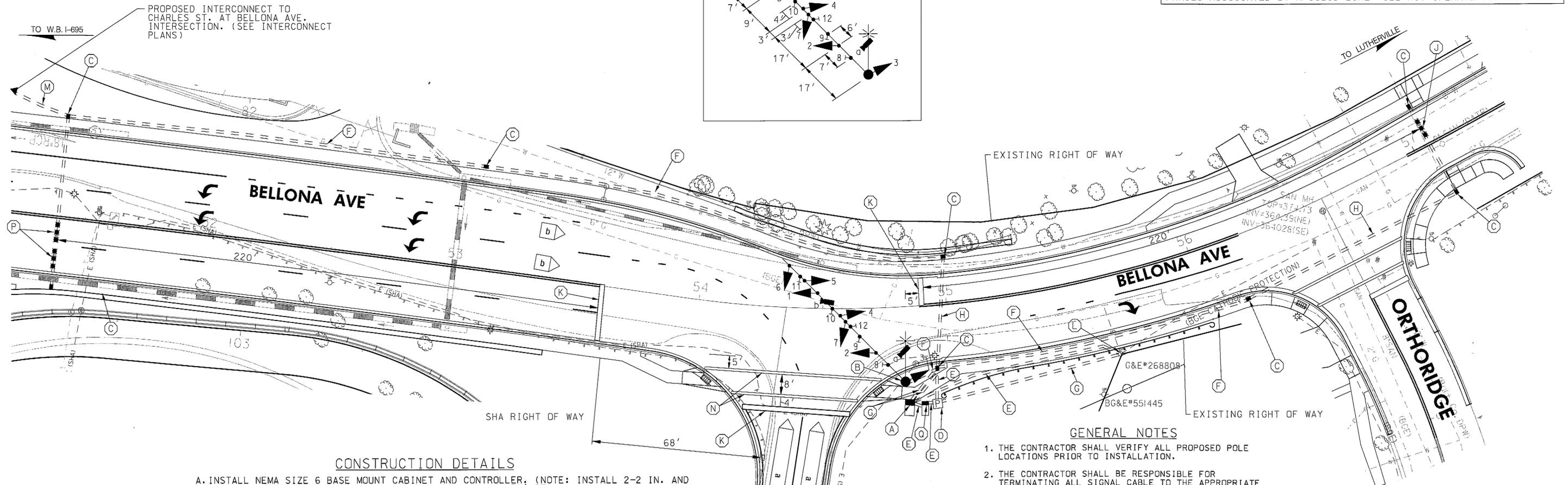
PROPOSED L.E.D. SIGNALS



NEMA PHASING



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



CONSTRUCTION DETAILS

- A. INSTALL NEMA SIZE 6 BASE MOUNT CABINET AND CONTROLLER, (NOTE: INSTALL 2-2 IN. AND 2-4 IN. PVC CONDUIT BENDS.) INSTALL AT STA. 54+81, 38' RT.
- B. INSTALL 27 FT. MAST ARM POLE WITH 70 FT. MAST ARM, LED SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS, 15 FT. STREET LIGHTING ARM, 250 WATT HPS LUMINAIRE WITH PHOTOCELL. NOTE: INSTALL 1-3 IN. PVC CONDUIT BEND IN POLE BASE. INSTALL POLE AT STA. 54+87, 30' RT.
- C. INSTALL ELECTRICAL HANDHOLE
- D. INSTALL METERED SERVICE PEDESTAL - EMBEDDED. INSTALL AT STA. 54+87, 40' RT.
- E. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
- F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
- G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
- H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
- J. INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 500 FT. LEAND-IN CABLE 3 IN. CARRIER PIPE, BORED
- K. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.
- L. STUB CONDUIT AT POLE BASE; BGE TO MAKE FINAL CONNECTIONS
- M. 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED (SEE INTERCONNECT PLAN)
- N. INSTALL 12 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING.
- P. INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN CABLE IN 3 IN. CARRIER PIPE (BORED).
- Q. INSTALL BASE MOUNTED CABINET SIZE #5 WITH UPS SYSTEM NOTE: INSTALL 2-2 IN. CONDUIT BEND INTO FOUNDATION.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
3. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
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. VIDEO DETECTION CAMERA LOCATION/ALIGNMENT SHALL BE COORDINATED WITH THE SHA ENGINEER.
6. FOR LOCATION AND MD STANDARD OF SIDEWALK RAMP AND DETECTABLE WARNING SURFACES INSTALLATION REFER TO ROADWAY PLANS.

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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APPROVALS	REVISIONS
 PROJECT ENGINEER 5/22/08 ASST. DIV. CHIEF 5/22/08 DIVISION CHIEF 5/27/08 OFFICE DIRECTOR 5/29/08	

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION BELLONA AVE (EAST) and WB I-695 OFF-RAMP LUTHERVILLE, MARYLAND	
TRAFFIC SIGNAL PLAN	
SCALE 1" = 20'	DATE MAY 2008 CONTRACT NO. BA9775A72
DESIGNED BY TC/MLH	COUNTY BALTIMORE
DRAWN BY TC/MLH	LOGMILE 03000003.19
CHECKED BY DAE	TMS NO. I-572
FAP NO. SEE TITLE SHEET	TOD NO.
TS NO. 4669	DRAWING SP-14 OF 15 SHEET NO. 285 OF