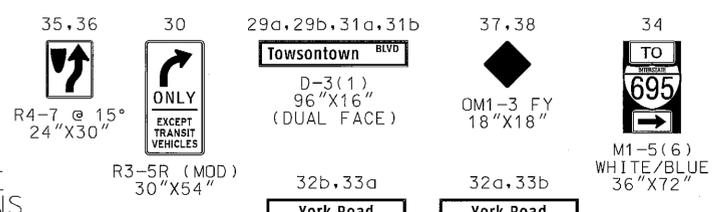
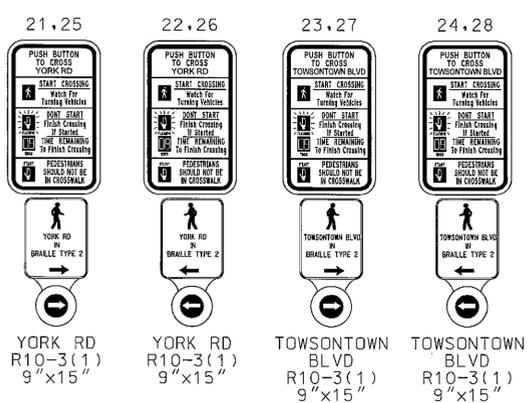


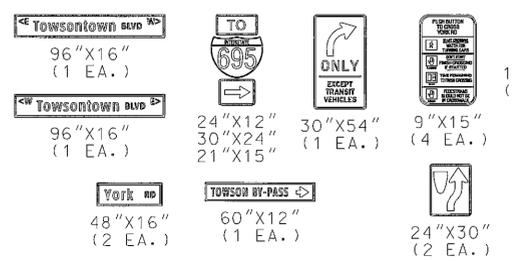
**PROPOSED SIGNS**



**PROPOSED ACCESSIBLE PUSHBUTTONS AND SIGNS**



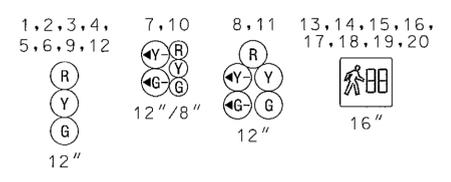
**EXISTING SIGNS TO BE REMOVED**



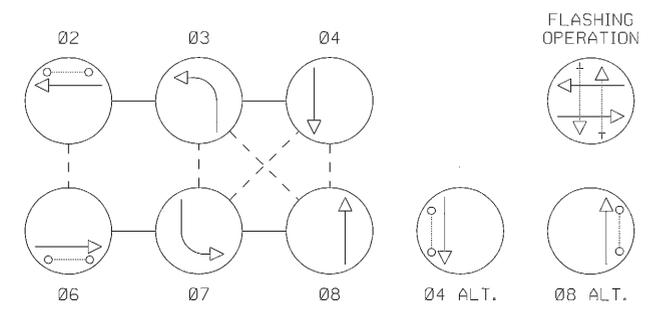
**SPECIAL NOTE**

ALL OF THE ADA FACILITIES AT THIS INTERSECTION WERE UPGRADED UNDER THE DISTRICT 4 RESURFACING PROJECT (BA5735177). IF ANY OF THE ADA FACILITIES ARE DAMAGED BY THE CONSTRUCTION OF THIS PROJECT (XY1255185, TMS: L591) IT MUST BE REPAIRED IN KIND BY THIS CONTRACT.

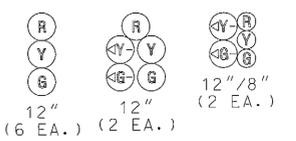
**PROPOSED LED SIGNALS**



**NEMA PHASING**



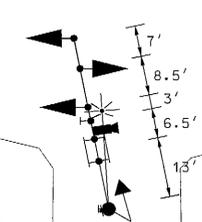
**EXISTING SIGNALS TO BE REMOVED**



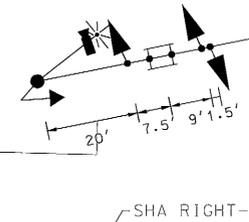
**SIGNAL HEAD DIMENSIONS**

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

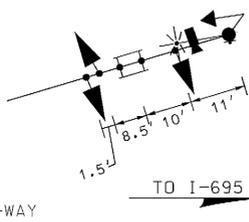
**SIGNAL HEAD DIMENSIONS**



**SIGNAL HEAD DIMENSIONS**

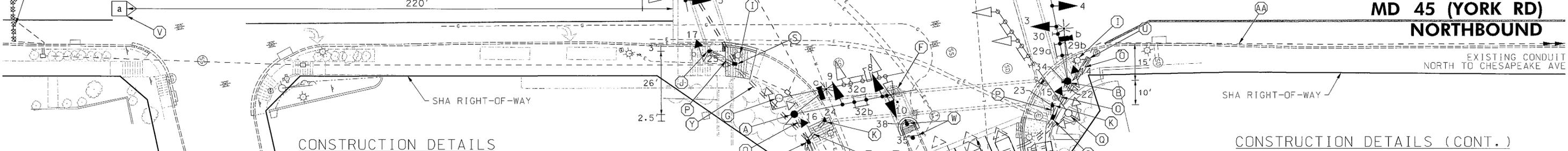


**SIGNAL HEAD DIMENSIONS**



**MD 45 (YORK RD) SOUTHBOUND**

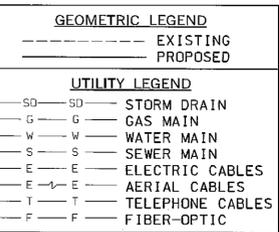
**MD 45 (YORK RD) NORTHBOUND**



**CONSTRUCTION DETAILS**

**CONSTRUCTION DETAILS (CONT.)**

- A. INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM, LED SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, 15 FT. LIGHTING ARM WITH LED LUMINAIRE, IP-BASED VIDEO DETECTION CAMERA AND SIGNS. NOTE: INSTALL 1-3 INCH CONDUIT BEND IN POLE BASE.
- B. INSTALL 27 FT. MAST ARM POLE WITH 38 FT. MAST ARM, LED SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK), 20 FT. LIGHTING ARM WITH LED LUMINAIRE, IP-BASED VIDEO DETECTION CAMERA AND SIGNS. TOP OF FOUNDATION SHALL BE FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 INCH CONDUIT BEND IN POLE BASE.
- C. INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM, LED SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK), 10 FT. LIGHTING ARM WITH LED LUMINAIRE, IP-BASED VIDEO DETECTION CAMERA AND SIGNS. TOP OF FOUNDATION SHALL BE FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 INCH CONDUIT BEND IN POLE BASE.
- D. INSTALL 27 FT. MAST ARM POLE WITH 60 FT. MAST ARM, LED SIGNAL HEADS, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK), 15 FT. LIGHTING ARM WITH LED LUMINAIRE, IP-BASED VIDEO DETECTION CAMERA AND SIGNS. TOP OF FOUNDATION SHALL BE FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 INCH CONDUIT BEND IN POLE BASE.
- E. INSTALL 100 AMP EMBEDDED METERED SERVICE PEDESTAL. NOTE: INSTALL 1-4 INCH AND 3-2 INCH CONDUIT BENDS IN BASE.
- F. REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORT.
- G. REMOVE EXISTING MAST ARM POLE, MAST ARM AND ASSOCIATED TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 INCHES BELOW GRADE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT FEEDS.
- H. REMOVE EXISTING PEDESTAL POLE AND ASSOCIATED SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 INCHES BELOW GRADE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT FEEDS.
- I. REMOVE EXISTING PUSHBUTTON AND SIGN FROM LIGHT POLE. REMOVE UNUSED CABLES. PLUG UNUSED HOLES.
- J. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). TOP OF FOUNDATION SHALL BE FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. NOTE: INSTALL 1-2 INCH CONDUIT BEND IN POLE BASE.
- K. INSTALL 5 FT. BREAKAWAY PEDESTAL POLE WITH APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). TOP OF FOUNDATION SHALL BE FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. NOTE: INSTALL 1-2 INCH CONDUIT BEND IN POLE BASE. CUT, CLEAN, GALVANIZE AND CAP EXISTING TRAFFIC SIGNAL STRUCTURE.
- L. INSTALL BASE MOUNTED CABINET AND CONTROLLER WITH 2-WIRE APS CENTRAL CONTROL UNIT AND IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT. NOTE: INSTALL 2-4 INCH AND 2-2 INCH CONDUIT BENDS IN FOUNDATION.
- M. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED. STUB AT TRANSFORMER NO. 20008A FOR POWER FEED.
- N. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- O. INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- P. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- Q. REMOVE EXISTING MAST ARM POLE, MAST ARM AND ASSOCIATED TRAFFIC SIGNAL EQUIPMENT.
- R. ABANDON EXISTING MICROLOOP PROBE SET.
- S. INSTALL ELECTRICAL HANDHOLE.
- T. RECONSTRUCT ELECTRICAL HANDHOLE IN EXISTING LOCATION.
- U. USE EXISTING HANDHOLE.
- V. PROPOSED VIDEO DETECTION ZONE.
- W. INSTALL GROUND MOUNTED SIGN ON 1-4"x4" WOOD SIGN SUPPORT.
- X. REMOVE EXISTING BASE MOUNTED CABINET. REMOVE FOUNDATION 12 INCHES BELOW GRADE AND BACKFILL. EXISTING CONTROLLER SHALL BE RETURNED TO SHA. BC&E TO DISCONNECT EXISTING ELECTRICAL SERVICE EQUIPMENT. CAP AND ABANDON EXISTING CONDUIT FEEDS.
- Y. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- Z. INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED FOR PHONE DROP. TIE INTO EXISTING CONDUIT RUN FROM COMMUNICATION PEDESTAL FOR EXISTING PHONE DROP.
- AA. USE EXISTING CONDUIT. SEE INTERCONNECT PLAN FOR DETAILS.



**RK&K**  
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Engineers Construction Managers Planners Scientists  
www.rkk.com

APPROVALS	REVISIONS
TEAM LEADER	F. SIGNAL RECONSTRUCTION. 10-2012
ASST. DIV. CHIEF	INSTALL APS/CPS
DIVISION CHIEF	SHA NO. XY1255185 TMS NO. L591
OFFICE DIRECTOR	E. REPLACE MICROLOOP
	10-2011
	PROBES FOR NB MD 45
	SHA NO. BA5735177, TMS NO. K726
	URS SDY WS JB WH
	INSTALL LED SIGNAL 03-28-2007
	D HEADS AND E/P LT PHASE FOR WB
	SHA NO. AT9135185
	SRB NML WLD MR WH TH

TOD NO: XY125-13  
SHA NO: BA087858  
MD 45 @ Towsontown Boulevard

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 45 (YORK ROAD) AT  
TOWSONTOWN BOULEVARD  
TOWSON, MARYLAND

TRAFFIC SIGNAL PLAN			
SCALE	1"=20'	DATE	07-15-1983
DESIGNED BY	W.R. SMITH	COUNTY	BALTIMORE
DRAWN BY		LOGMILE	03004501.86
CHECKED BY		TMS NO.	
FAP NO.		TOD NO.	
TS NO.	2095F	DRAWING	SP-1 OF 2
		SHEET NO.	1 OF 5