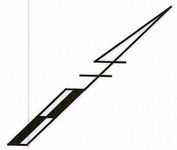
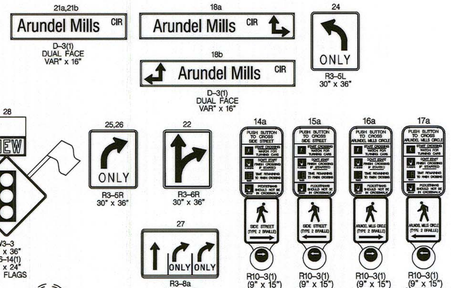


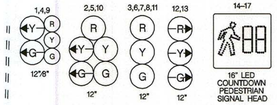
ARUNDEL MILLS CIRCLE IS ASSUMED TO RUN IN AN EAST–WEST DIRECTION

PROPOSED SIGNS



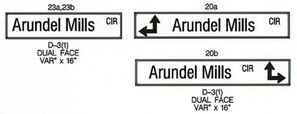
COSTCO ACCESS

PROPOSED L.E.D. SIGNALS



NOTE: SIGNAL INDICATIONS NO. 5,6 AND 11 SHALL BE INSTALLED IN EXISTING LOCATIONS

EXISTING SIGNS

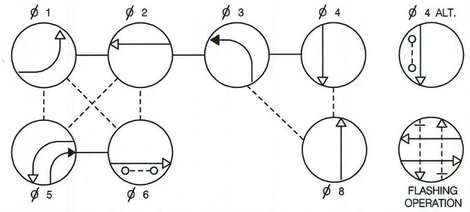


PROPOSED VIDEO DETECTION CAMERA

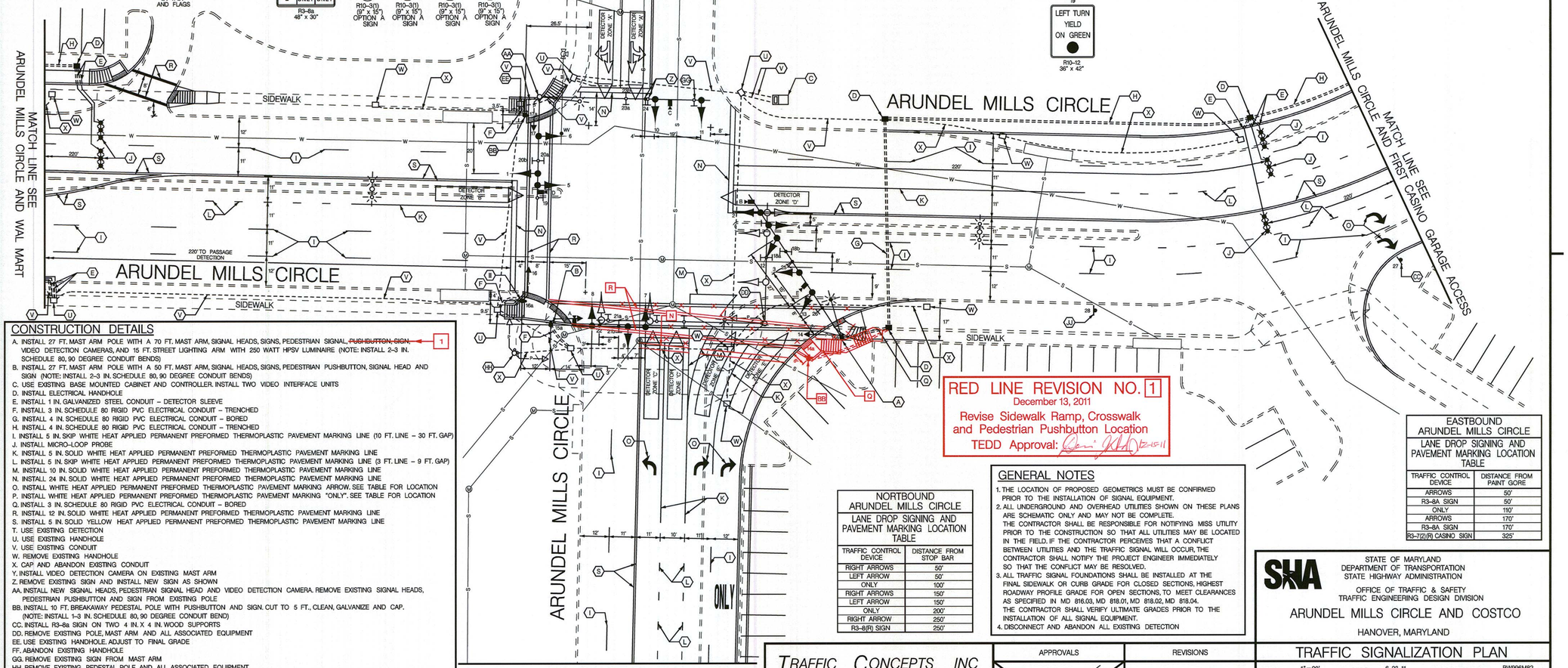
A–E

EXISTING SIGN (TO BE REMOVED)

NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

A. INSTALL 27 FT. MAST ARM POLE WITH A 70 FT. MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL, ~~PUSHBUTTON, SIGN,~~ 1
VIDEO DETECTION CAMERAS, AND 15 FT. STREET LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE (NOTE: INSTALL 2–3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
B. INSTALL 27 FT. MAST ARM POLE WITH A 50 FT. MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN PUSHBUTTON, SIGNAL HEAD AND SIGN (NOTE: INSTALL 2–3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS)
C. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL TWO VIDEO INTERFACE UNITS
D. INSTALL ELECTRICAL HANDHOLE
E. INSTALL 1 IN. GALVANIZED STEEL CONDUIT – DETECTOR SLEEVE
F. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT – TRENCHED
G. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT – BORED
H. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT – TRENCHED
I. INSTALL 5 IN. SKIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (10 FT. LINE – 30 FT. GAP)
J. INSTALL MICRO-LOOP PROBE
K. INSTALL 5 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
L. INSTALL 5 IN. SKIP WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE (3 FT. LINE – 9 FT. GAP)
M. INSTALL 10 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
N. INSTALL 24 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
O. INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW. SEE TABLE FOR LOCATION
P. INSTALL WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING "ONLY". SEE TABLE FOR LOCATION
Q. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT – BORED
R. INSTALL 12 IN. SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
S. INSTALL 5 IN. SOLID YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
T. USE EXISTING DETECTION
U. USE EXISTING HANDHOLE
V. USE EXISTING CONDUIT
W. REMOVE EXISTING HANDHOLE
X. CAP AND ABANDON EXISTING CONDUIT
Y. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM
Z. REMOVE EXISTING SIGN AND INSTALL NEW SIGN AS SHOWN
AA. INSTALL NEW SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD AND VIDEO DETECTION CAMERA. REMOVE EXISTING SIGNAL HEADS, PEDESTRIAN PUSHBUTTON AND SIGN FROM EXISTING POLE
BB. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PUSHBUTTON AND SIGN. CUT TO 5 FT., CLEAN, GALVANIZE AND CAP. (NOTE: INSTALL 1–3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
CC. INSTALL R3–8a SIGN ON TWO 4 IN. X 4 IN. WOOD SUPPORTS
DD. REMOVE EXISTING POLE, MAST ARM AND ALL ASSOCIATED EQUIPMENT
EE. USE EXISTING HANDHOLE. ADJUST TO FINAL GRADE
FF. ABANDON EXISTING HANDHOLE
GG. REMOVE EXISTING SIGN FROM MAST ARM
HH. REMOVE EXISTING PEDESTAL POLE AND ALL ASSOCIATED EQUIPMENT
II. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH PUSHBUTTON, PEDESTRIAN SIGNAL HEAD AND SIGN. CUT TO 5 FT., CLEAN, GALVANIZE AND CAP. (NOTE: INSTALL 1–3 IN. SCHEDULE 80, 90 DEGREE CONDUIT BEND)
JJ. INSTALL W3–3 SIGN WITH NEW PANEL APPROXIMATELY 300 FT. IN ADVANCE OF THE INTERSECTION ON ONE 4 IN. X 6 IN. WOOD SUPPORT. THE SIGN IS FOR THE FIRST CASINO GARAGE SIGNAL.

UTILITY LEGEND

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

GEOMETRIC LEGEND

EXISTING
PROPOSED

RED LINE REVISION NO. 1

December 13, 2011
Revise Sidewalk Ramp, Crosswalk and Pedestrian Pushbutton Location
TEDD Approval: 12-15-11

NORTBOUND ARUNDEL MILLS CIRCLE

LANE DROP SIGNING AND PAVEMENT MARKING LOCATION TABLE

TRAFFIC CONTROL DEVICE	DISTANCE FROM STOP BAR
RIGHT ARROWS	50'
LEFT ARROW	50'
ONLY	100'
RIGHT ARROWS	150'
LEFT ARROW	150'
ONLY	200'
RIGHT ARROW	250'
R3-8(R) SIGN	250'

EASTBOUND ARUNDEL MILLS CIRCLE

LANE DROP SIGNING AND PAVEMENT MARKING LOCATION TABLE

TRAFFIC CONTROL DEVICE	DISTANCE FROM PAINT GORE
ARROWS	50'
R3-8A SIGN	50'
ONLY	110'
ARROWS	170'
R3-8A SIGN	170'
R3-7(R) CASINO SIGN	325'

GENERAL NOTES

1. THE LOCATION OF PROPOSED GEOMETRICS MUST BE CONFIRMED PRIOR TO THE INSTALLATION OF 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. 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.
4. DISCONNECT AND ABANDON ALL EXISTING DETECTION

TRAFFIC CONCEPTS, INC.
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Suite B
Gambrills, MD 21054
(410) 923–7101
FAX: (410) 923–6473
EMAIL: TRAFFIC@TRAFFIC–CONCEPTS.COM

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

REVISIONS
A SIGNAL MODIFICATION DUE TO GEOMETRIC IMPROVEMENT (8–3–11)
TIMS#K–976 SHA NO. BW–996M82
JKS

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

ARUNDEL MILLS CIRCLE AND COSTCO
HANOVER, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE 6–23–11 CONTRACT NO. BW996M82

DESIGNED BY J.K. SCHMID
DRAWN BY J.K. SCHMID
CHECKED BY T. ZAYDEL
F.A.P. NO. N/A
COUNTY ANNE ARUNDEL
LOGMILE 02550100.00
T.I.M.S. NO. K–976
TOD NO.

DRAWING NO. TS–3963 A
SHEET NO. 1 OF 2

FILE PATH: M:\2400\2475\Signals\Arundel Mills Cr@Costco\redline.dgn
DATE: Wednesday, December 14, 2011 AT 03:51 PM

DRILL HOLES
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